

Attachment 1 (Appendix 2B-5)

Univariate Regression Analysis of “F” Transect Mosquitofish THg versus Surface Water, Pore Water (10 to 20 cm), and Soils (0 to 2 cm) Chemistries along the “F” Transect in WCA-2A By Station and Pooled

UNIVARIATE LAG 0-6
SURFACE WATER
MOSQUITOFISH THg vs Y
BY STATION

station	independent	month lag	df	intercept	se_int	pvalue_int	slope	se_slope	p value slope	r_square
F1	AGP	LAG2	6	6.55238	1.35604	0.0047	0.10582	0.40753	0.8055	0.0133
F1	AGP	LAG3	2	31.486	27.3406	0.4552	-3.0794	5.73401	0.6862	0.2239
F1	AGP	LAG4	3	8.73691	2.43047	0.0694	-0.1584	0.16157	0.4303	0.3246
F1	AGP	LAG5	4	23.2451	13.4465	0.1823	-1.154	1.65954	0.5369	0.1388
F1	AGP	LAG6	3	7.1299	2.03693	0.0728	-0.0508	0.20401	0.8265	0.0301
F1	ALK	LAG0	6	60.9462	50.8241	0.2842	-0.1327	0.16433	0.456	0.1154
F1	ALK	LAG1	9	13.0615	29.3428	0.668	-0.0069	0.09803	0.9457	0.0006
F1	ALK	LAG2	10	41.2606	32.0043	0.2295	-0.0894	0.10807	0.4295	0.0707
F1	ALK	LAG3	7	-116.81	56.0605	0.0823	0.41476	0.16972	0.0502	0.4988
F1	ALK	LAG4	8	21.0385	29.0613	0.4926	-0.0108	0.09006	0.9076	0.0021
F1	ALK	LAG5	8	11.1995	27.5437	0.6964	0.00196	0.08524	0.9823	0.0001
F1	ALK	LAG6	8	7.29202	51.9439	0.8923	0.03122	0.16669	0.8567	0.005
F1	CA	LAG0	6	29.9291	60.1838	0.6401	-0.1009	0.64395	0.8816	0.0049
F1	CA	LAG1	9	12.7612	27.0838	0.6501	-0.0194	0.29847	0.9498	0.0005
F1	CA	LAG2	10	56.6547	32.1693	0.1121	-0.4707	0.35979	0.2232	0.1598
F1	CA	LAG3	7	-31.959	77.296	0.6936	0.51887	0.7771	0.5292	0.0692
F1	CA	LAG4	8	12.6591	36.9745	0.7421	0.05647	0.40684	0.8935	0.0027
F1	CA	LAG5	8	16.5324	31.4283	0.6151	-0.0505	0.33064	0.883	0.0033
F1	CA	LAG6	8	-54.755	52.8988	0.3351	0.7922	0.57946	0.2139	0.2107
F1	CL	LAG0	6	27.9003	40.7284	0.5238	-0.0446	0.24217	0.8611	0.0067
F1	CL	LAG1	9	-21.996	28.1384	0.4569	0.20971	0.17599	0.2676	0.1507
F1	CL	LAG2	10	58.1724	40.7643	0.1873	-0.262	0.24627	0.3151	0.1117
F1	CL	LAG3	7	-64.958	35.9619	0.1209	0.49223	0.20672	0.0547	0.4859
F1	CL	LAG4	8	27.6299	24.7084	0.3004	-0.0586	0.13791	0.6838	0.0251
F1	CL	LAG5	8	12.7354	20.1575	0.5476	-0.0053	0.1113	0.9634	0.0003
F1	CL	LAG6	8	55.415	36.7175	0.175	-0.2374	0.22164	0.3197	0.1408
F1	DOC	LAG0	8	-36.664	52.3623	0.5064	1.20557	1.15203	0.3301	0.1353
F1	DOC	LAG1	9	16.7554	41.2775	0.6954	-0.1328	0.94995	0.8923	0.0024
F1	DOC	LAG2	10	107.708	45.6382	0.0426	-2.0702	1.01528	0.0719	0.316
F1	DOC	LAG3	8	-28.006	28.4618	0.3579	1.07241	0.64994	0.1429	0.28
F1	DOC	LAG4	10	33.4856	22.1706	0.1652	-0.4158	0.4863	0.4147	0.0751
F1	DOC	LAG5	10	50.5231	35.274	0.1859	-0.745	0.73464	0.337	0.1026
F1	DOC	LAG6	8	-6.1057	42.8696	0.8908	0.54354	0.99547	0.602	0.0409
F1	K	LAG0	6	20.7916	50.9017	0.6998	-0.0218	6.90837	0.9976	0
F1	K	LAG1	9	24.6491	21.6016	0.2868	-1.9098	2.94379	0.5347	0.05

F1	K	LAG2	10	42.2222	19.8462	0.0623	-3.8212	2.69009	0.1892	0.1831
F1	K	LAG3	7	87.5533	39.3129	0.0675	-8.7851	4.97824	0.1281	0.3417
F1	K	LAG4	8	-28.682	34.8699	0.4379	6.21377	4.57827	0.2168	0.2083
F1	K	LAG5	8	5.78437	22.689	0.8061	0.7433	2.70209	0.7912	0.0107
F1	K	LAG6	8	19.5318	41.9084	0.6553	-0.3064	4.79579	0.9508	0.0006
F1	MG	LAG0	6	45.6465	52.6588	0.4257	-0.8132	1.6811	0.649	0.0447
F1	MG	LAG1	9	10.2219	25.7859	0.7022	0.02778	0.86368	0.9751	0.0001
F1	MG	LAG2	10	53.8123	34.5285	0.1535	-1.343	1.18528	0.2865	0.1248
F1	MG	LAG3	7	-52.292	62.1565	0.4324	2.22537	1.91514	0.2894	0.1837
F1	MG	LAG4	8	11.6906	33.2963	0.7358	0.20574	1.11253	0.8585	0.0049
F1	MG	LAG5	8	12.0267	25.8831	0.6563	-0.0068	0.81631	0.9936	0
F1	MG	LAG6	8	-32.872	51.099	0.5405	1.64882	1.67418	0.3575	0.1217
F1	NA	LAG0	6	40.9843	42.8929	0.3832	-0.1853	0.37985	0.6463	0.0454
F1	NA	LAG1	9	-18.447	28.7022	0.5384	0.27076	0.2597	0.3276	0.1196
F1	NA	LAG2	10	47.8862	37.6085	0.2348	-0.2993	0.3407	0.4025	0.079
F1	NA	LAG3	7	-57.387	35.263	0.1548	0.65443	0.29556	0.0687	0.4497
F1	NA	LAG4	8	26.4286	24.6134	0.3185	-0.0756	0.20161	0.7186	0.0197
F1	NA	LAG5	8	13.8079	20.322	0.5187	-0.0172	0.16779	0.9214	0.0015
F1	NA	LAG6	8	62.4804	41.5068	0.176	-0.4104	0.36772	0.3013	0.151
F1	NH4	LAG0	8	13.7897	14.5281	0.3741	49.8106	160.232	0.765	0.0136
F1	NH4	LAG1	9	23.0234	18.4235	0.2467	-299.74	442.535	0.5173	0.0542
F1	NH4	LAG2	9	26.4457	16.1032	0.1392	-191.09	269.304	0.4981	0.0592
F1	NH4	LAG3	8	13.0206	15.1046	0.4172	70.4455	197.269	0.7315	0.0179
F1	NH4	LAG4	9	21.7224	9.67775	0.055	-54.092	62.3886	0.4112	0.0859
F1	NH4	LAG5	10	9.86579	12.6231	0.4545	56.1105	112.07	0.6286	0.0271
F1	NH4	LAG6	8	20.2681	9.25326	0.0646	-21.261	31.6151	0.5228	0.0607
F1	NOX	LAG0	6	16.0468	10.0985	0.1729	-69.015	211.034	0.7569	0.0209
F1	NOX	LAG1	3	24.7039	20.6952	0.355	-358.64	965.968	0.7461	0.0645
F1	NOX	LAG2	4	19.0567	14.0518	0.2681	-60.736	255.911	0.8277	0.0184
F1	NOX	LAG3	6	5.09545	12.3665	0.6974	519.212	613.849	0.4362	0.1252
F1	NOX	LAG4	3	26.2615	31.3665	0.4906	-1067.6	3140.58	0.7663	0.0546
F1	NOX	LAG5	6	38.7515	17.463	0.0772	-1380.7	1101	0.2653	0.2393
F1	NOX	LAG6	3	-5.44	66.1656	0.942	2740	7811.26	0.7593	0.058
F1	OPO4	LAG0	8	9.62191	10.4225	0.3866	218.795	210.39	0.3329	0.1338
F1	OPO4	LAG1	10	16.1949	9.25691	0.1141	-26.29	193.907	0.8951	0.002
F1	OPO4	LAG2	7	15.2438	10.7329	0.2053	-69.659	189.396	0.7256	0.022
F1	OPO4	LAG3	10	17.4346	11.2362	0.1552	-55.421	238.286	0.8213	0.006
F1	OPO4	LAG4	8	16.97	12.5924	0.2198	20.3149	218.892	0.9287	0.0012
F1	OPO4	LAG5	8	17.6794	7.97104	0.0621	-76.904	76.2217	0.3466	0.127
F1	OPO4	LAG6	9	16.3595	10.0079	0.1408	-0.7853	98.4784	0.9938	0
F1	SIO2	LAG0	5	-31.307	97.1166	0.7633	2.43614	4.28711	0.6002	0.0747
F1	SIO2	LAG1	9	17.0089	23.9573	0.4979	-0.2901	1.13492	0.8047	0.0081
F1	SIO2	LAG2	10	90.8646	15.8754	0.0003	-3.7781	0.77514	0.0009	0.7252
F1	SIO2	LAG3	7	4.90152	63.9212	0.9414	0.67933	2.97953	0.8272	0.0086
F1	SIO2	LAG4	8	17.0996	29.6538	0.5822	0.02916	1.45331	0.9846	0.0001
F1	SIO2	LAG5	8	5.12002	30.7932	0.8726	0.32938	1.48709	0.831	0.007
F1	SIO2	LAG6	8	-46.649	48.7284	0.3703	2.93322	2.2244	0.2288	0.199
F1	SO4	LAG0	6	13.3222	24.5834	0.6111	0.13399	0.41074	0.7575	0.0208
F1	SO4	LAG1	9	10.8526	14.6253	0.4793	0.00322	0.24245	0.9897	0
F1	SO4	LAG2	10	26.8863	17.103	0.1504	-0.2308	0.31655	0.4844	0.0558
F1	SO4	LAG3	7	46.7039	22.266	0.0808	-0.4379	0.33383	0.2376	0.2228
F1	SO4	LAG4	8	-21.115	21.2662	0.3538	0.85562	0.44734	0.0974	0.3432

F1	SO4	LAG5	8	13.2573	15.6784	0.4257	-0.0303	0.30597	0.924	0.0014
F1	SO4	LAG6	8	-29.663	26.7127	0.3035	0.85183	0.4733	0.1149	0.3163
F1	TDKN	LAG0	6	15.9344	36.2642	0.6787	-1.1226	12.3363	0.931	0.0017
F1	TDKN	LAG1	9	29.5476	29.5482	0.3466	-6.857	10.778	0.5424	0.0482
F1	TDKN	LAG2	9	98.4585	39.3692	0.0369	-30.635	14.5334	0.0681	0.3571
F1	TDKN	LAG3	7	-31.452	29.3111	0.3245	17.2473	11.1464	0.1727	0.2852
F1	TDKN	LAG4	10	23.5749	25.3381	0.3764	-3.116	9.2276	0.7433	0.0125
F1	TDKN	LAG5	8	66.6088	30.2839	0.0638	-17.166	10.3846	0.1423	0.2808
F1	TDKN	LAG6	8	13.6757	48.778	0.7873	1.12621	16.7834	0.9484	0.0006
F1	TDPO4	LAG0	6	4.32124	12.3848	0.7414	383.192	220.856	0.1433	0.3758
F1	TDPO4	LAG1	9	16.0004	8.25544	0.0886	-105.67	138.607	0.4677	0.0677
F1	TDPO4	LAG2	8	14.8512	10.7664	0.2102	-52.491	171.715	0.7687	0.0132
F1	TDPO4	LAG3	8	13.5781	13.8018	0.358	81.5981	228.689	0.7317	0.0179
F1	TDPO4	LAG4	7	22.6301	11.2245	0.0904	-31.689	71.5147	0.6732	0.0317
F1	TDPO4	LAG5	8	18.7026	8.41513	0.0616	-75.293	70.4155	0.3204	0.1404
F1	TDPO4	LAG6	7	16.6287	13.3871	0.2605	20.3652	116.87	0.8674	0.005
F1	TDSCU	LAG0	5	33.5794	25.1893	0.2534	-9.1988	20.4961	0.6768	0.0479
F1	TDSCU	LAG1	8	-16.892	5.00469	0.0118	28.563	4.47232	0.0004	0.8535
F1	TDSCU	LAG2	9	9.65248	21.0576	0.6589	1.70949	25.2383	0.9477	0.0006
F1	TDSCU	LAG3	7	36.2317	15.3182	0.0559	-13.652	10.6467	0.2471	0.2151
F1	TDSCU	LAG4	6	60.3709	36.9059	0.1628	-50.584	46.0349	0.3219	0.1945
F1	TDSCU	LAG5	8	13.8774	17.9856	0.4656	-2.971	24.5364	0.907	0.0021
F1	TDSCU	LAG6	7	-1.7232	13.9844	0.906	22.391	13.4984	0.1482	0.3144
F1	TDSFE	LAG0	5	21.5605	16.01	0.2493	-0.5618	1.04776	0.6202	0.0671
F1	TDSFE	LAG1	8	16.7419	12.3585	0.2176	-0.3124	0.67289	0.6566	0.0299
F1	TDSFE	LAG2	7	18.1772	13.3837	0.2233	-0.4111	0.85182	0.6465	0.0374
F1	TDSFE	LAG3	6	22.9573	15.005	0.1866	-0.5998	0.86137	0.5172	0.0884
F1	TDSFE	LAG4	7	14.9612	16.5536	0.4009	0.2751	0.89304	0.7685	0.0156
F1	TDSFE	LAG5	6	1.83547	14.5248	0.9044	0.75882	0.80582	0.3896	0.1506
F1	TDSFE	LAG6	8	-13.309	11.6431	0.2906	1.95484	0.66787	0.0221	0.5503
F1	TDSZN	LAG0	4	21.012	21.5899	0.4022	-1.3492	4.87492	0.7999	0.0249
F1	TDSZN	LAG1	7	-6.856	2.79112	0.0494	6.85059	0.77866	0.0001	0.9281
F1	TDSZN	LAG2	3	24.1008	38.651	0.5966	-1.7346	10.8768	0.8879	0.0126
F1	TDSZN	LAG3	4	24.5703	19.7389	0.3016	-2.0649	4.50149	0.6776	0.0655
F1	TDSZN	LAG4	4	-8.1378	39.4088	0.8496	12.7418	13.7354	0.422	0.2229
F1	TDSZN	LAG5	4	40.3014	25.4782	0.2118	-10.585	9.88001	0.3625	0.2767
F1	TDSZN	LAG6	6	45.9457	23.2901	0.1056	-9.2586	7.57454	0.2761	0.2301
F1	TKN	LAG0	8	14.8826	41.6262	0.7312	0.96947	14.6531	0.9491	0.0006
F1	TKN	LAG1	8	46.0693	28.1989	0.1463	-12.313	9.93058	0.255	0.1801
F1	TKN	LAG2	9	151.293	53.3716	0.022	-48.545	19.1028	0.0346	0.4467
F1	TKN	LAG3	8	-46.025	27.5071	0.1382	23.1944	9.79003	0.0497	0.445
F1	TKN	LAG4	9	30.8404	26.0579	0.2706	-5.1959	8.99565	0.5794	0.04
F1	TKN	LAG5	10	64.6709	25.3384	0.0311	-16.607	8.3255	0.0772	0.3066
F1	TKN	LAG6	8	-0.5099	35.8801	0.9891	5.80467	11.667	0.6341	0.0342
F1	TPO4	LAG0	9	7.0624	11.8177	0.5666	133.927	146.499	0.3873	0.0946
F1	TPO4	LAG1	10	12.2044	11.7535	0.3262	41.572	131.483	0.7591	0.011
F1	TPO4	LAG2	8	14.2269	14.9275	0.3723	45.0081	163.721	0.7913	0.0107
F1	TPO4	LAG3	10	18.7303	12.1204	0.1567	-50.328	150.405	0.7456	0.0123
F1	TPO4	LAG4	9	19.8886	9.89068	0.0792	-29.895	60.2706	0.6332	0.0298
F1	TPO4	LAG5	8	29.582	10.4343	0.0252	-122.36	76.5381	0.1539	0.2675
F1	TPO4	LAG6	9	16.4415	12.7123	0.232	-1.2902	98.3517	0.9899	0

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F2	AGP	LAG1	2	82.0172	8.69131	0.0672	-24.994	4.64165	0.1169	0.9667
F2	AGP	LAG2	3	14.7152	6.11406	0.1378	-2.0119	3.22623	0.5965	0.1628
F2	AGP	LAG4	2	6.33403	15.3741	0.7512	2.25531	5.09429	0.7347	0.1639
F2	AGP	LAG5	2	-4.7625	10.3853	0.7263	105.904	25.4986	0.1504	0.9452
F2	AGP	LAG6	2	16.2953	10.5034	0.3645	-2.3427	4.83366	0.7127	0.1902
F2	ALK	LAG0	7	39.379	43.8255	0.4035	-0.0502	0.14902	0.7477	0.0186
F2	ALK	LAG1	7	-21.744	40.2388	0.6084	0.16028	0.13286	0.2731	0.1952
F2	ALK	LAG2	7	129.498	59.8416	0.0737	-0.4139	0.23438	0.1278	0.342
F2	ALK	LAG3	7	46.7614	40.3348	0.2904	-0.0779	0.13936	0.5966	0.0494
F2	ALK	LAG4	7	-46.854	52.3622	0.4054	0.27438	0.19583	0.2107	0.2465
F2	ALK	LAG5	6	-49.661	60.6508	0.4501	0.29254	0.22514	0.2505	0.2524
F2	ALK	LAG6	7	15.6245	46.1725	0.7466	0.03203	0.15049	0.8385	0.0075
F2	CA	LAG0	7	6.69812	74.7891	0.9316	0.21971	0.88041	0.8113	0.0103
F2	CA	LAG1	7	21.1839	53.9272	0.708	0.04668	0.62181	0.9426	0.0009
F2	CA	LAG2	7	118.513	51.6062	0.0614	-1.2442	0.67637	0.1155	0.3606
F2	CA	LAG3	7	10.7116	67.7162	0.8795	0.17258	0.79818	0.836	0.0077
F2	CA	LAG4	7	-50.578	47.2265	0.3254	0.96315	0.58803	0.1526	0.309
F2	CA	LAG5	6	-1.6393	57.6075	0.9784	0.36666	0.7009	0.6232	0.0519
F2	CA	LAG6	7	-20.369	72.2642	0.7875	0.50584	0.79347	0.5473	0.0634
F2	CL	LAG0	7	40.0742	55.0413	0.494	-0.0948	0.34168	0.7907	0.0127
F2	CL	LAG1	7	-8.7745	46.4733	0.8565	0.23188	0.30854	0.4808	0.086
F2	CL	LAG2	7	80.9535	40.6772	0.0937	-0.3883	0.27417	0.2065	0.2505
F2	CL	LAG3	7	11.5749	48.8763	0.8207	0.08821	0.30889	0.7848	0.0134
F2	CL	LAG4	7	-34.404	42.6301	0.4504	0.44517	0.30978	0.2007	0.2561
F2	CL	LAG5	6	-58.375	49.4388	0.2908	0.64125	0.36002	0.135	0.3882
F2	CL	LAG6	7	86.1699	48.6217	0.1267	-0.3671	0.28582	0.2464	0.2157
F2	DOC	LAG0	7	2.5781	99.5666	0.9802	0.50272	2.2037	0.8271	0.0086
F2	DOC	LAG1	7	-3.203	65.8391	0.9628	0.67477	1.54372	0.6773	0.0309
F2	DOC	LAG2	7	120.958	50.68	0.0543	-2.366	1.2308	0.1029	0.3811
F2	DOC	LAG3	7	8.12953	66.9875	0.9074	0.4086	1.58514	0.8052	0.011
F2	DOC	LAG4	7	0.46796	58.5428	0.9939	0.64707	1.50587	0.6824	0.0299
F2	DOC	LAG5	6	-90.291	61.9003	0.2045	2.78177	1.43976	0.1112	0.4275
F2	DOC	LAG6	7	-9.2903	71.0607	0.9003	0.79602	1.62173	0.641	0.0386
F2	K	LAG0	7	-113.07	40.3667	0.0311	19.3777	5.58095	0.0133	0.6677
F2	K	LAG1	7	85.4572	32.1294	0.0375	-8.7183	4.4543	0.0981	0.3897
F2	K	LAG2	7	88.0216	28.9058	0.0227	-8.6602	3.80404	0.0631	0.4635
F2	K	LAG3	7	62.7325	65.7842	0.3771	-5.3948	9.29917	0.5829	0.0531
F2	K	LAG4	7	-32.051	34.4989	0.3887	8.49756	4.92756	0.1354	0.3314
F2	K	LAG5	6	6.14068	44.8427	0.8964	2.94268	5.85248	0.6365	0.0481
F2	K	LAG6	7	-18.689	56.8687	0.7536	5.6314	7.16738	0.4619	0.0933
F2	MG	LAG0	7	31.5867	60.3953	0.6197	-0.2294	2.10822	0.9169	0.002
F2	MG	LAG1	7	23.1019	45.4315	0.6293	0.07303	1.57555	0.9645	0.0004
F2	MG	LAG2	7	106.044	43.1114	0.0491	-3.2956	1.71604	0.1032	0.3807
F2	MG	LAG3	7	3.48951	52.7672	0.9494	0.79406	1.88931	0.6889	0.0286
F2	MG	LAG4	7	-39.121	38.3923	0.3475	2.51746	1.45729	0.1348	0.3322
F2	MG	LAG5	6	-19.858	46.6531	0.6881	1.79597	1.70174	0.3396	0.1822
F2	MG	LAG6	7	8.58607	64.8808	0.899	0.53673	2.07027	0.8041	0.0111
F2	NA	LAG0	7	47.1345	49.768	0.3802	-0.2074	0.45668	0.6657	0.0332

F2	NA	LAG1	7	-12.04	46.1026	0.8027	0.3657	0.44036	0.4381	0.1031
F2	NA	LAG2	7	78.7754	39.0033	0.0899	-0.5492	0.38587	0.2045	0.2524
F2	NA	LAG3	7	11.3035	48.3675	0.823	0.1315	0.44648	0.7783	0.0143
F2	NA	LAG4	7	-46.118	45.9495	0.3543	0.77663	0.48938	0.1636	0.2956
F2	NA	LAG5	6	-51.378	51.3017	0.3626	0.86898	0.55086	0.1755	0.3323
F2	NA	LAG6	7	76.2293	48.4143	0.1664	-0.4371	0.40403	0.3209	0.1632
F2	NH4	LAG0	7	21.5304	15.2406	0.2075	33.055	91.5959	0.7306	0.0212
F2	NH4	LAG1	7	12.9476	10.0177	0.2437	167.559	73.0826	0.0617	0.467
F2	NH4	LAG2	7	33.285	14.4649	0.061	-127.3	147.365	0.4208	0.1106
F2	NH4	LAG3	7	30.4628	13.4084	0.0635	-69.612	97.1263	0.5005	0.0789
F2	NH4	LAG4	7	68.4899	41.8156	0.1526	-1457.2	1359.18	0.3249	0.1608
F2	NH4	LAG5	6	28.5017	17.1763	0.1579	-11.58	165.978	0.9471	0.001
F2	NH4	LAG6	7	25.4277	14.0903	0.1212	-3.708	101.696	0.9721	0.0002
F2	NOX	LAG0	3	16.6601	6.43065	0.1223	-154.58	141.71	0.3893	0.373
F2	NOX	LAG1	4	47.7533	63.3018	0.5054	-1776.7	7566.02	0.8295	0.018
F2	NOX	LAG2	2	10.6658	75.1534	0.9103	3890.41	6776.35	0.6682	0.2479
F2	NOX	LAG3	3	20.9941	28.2038	0.5342	1405.16	1509.17	0.4501	0.3024
F2	NOX	LAG4	3	-132.98	29.5578	0.046	16579.1	3146.41	0.0342	0.9328
F2	NOX	LAG5	1	-0.6111			294.444			1
F2	NOX	LAG6	2	54.9031	24.3409	0.2657	-1448	1148.29	0.4268	0.6139
F2	OPO4	LAG0	5	0.09854	3.98384	0.9815	390.142	49.6437	0.0014	0.9392
F2	OPO4	LAG1	4	6.89475	26.1709	0.8093	602.381	788.437	0.5004	0.1629
F2	OPO4	LAG2	5	42.49	15.8619	0.0553	-250.69	199.055	0.2764	0.2839
F2	OPO4	LAG3	5	53.4963	26.3038	0.1117	-758.3	756.703	0.373	0.2007
F2	OPO4	LAG4	5	-7.2011	9.42374	0.4874	1306.92	335.6	0.0176	0.7913
F2	OPO4	LAG5	6	18.9107	13.7518	0.2275	-0.8706	180.588	0.9963	0
F2	OPO4	LAG6	5	-1.2874	23.1197	0.9583	648.168	587.337	0.3317	0.2334
F2	SIO2	LAG0	6	86.4214	89.7586	0.3799	-2.8729	4.38126	0.541	0.0792
F2	SIO2	LAG1	7	51.3533	29.6779	0.1343	-1.5165	1.59802	0.3793	0.1305
F2	SIO2	LAG2	7	86.3038	19.7734	0.0047	-3.8051	1.15211	0.0164	0.6451
F2	SIO2	LAG3	7	38.8228	56.7072	0.5191	-0.771	3.12756	0.8135	0.01
F2	SIO2	LAG4	7	-3.1183	28.1192	0.9153	1.58963	1.4645	0.3194	0.1641
F2	SIO2	LAG5	6	-29.081	29.9253	0.3758	3.15901	1.57154	0.1006	0.4469
F2	SIO2	LAG6	7	9.99265	86.3197	0.9116	0.70441	3.97846	0.8653	0.0052
F2	SO4	LAG0	7	-14.649	25.6876	0.5892	0.85561	0.51232	0.1459	0.3173
F2	SO4	LAG1	7	52.5763	20.2845	0.0411	-0.6047	0.391	0.1729	0.285
F2	SO4	LAG2	7	53.8578	23.8125	0.0644	-0.7005	0.52468	0.2303	0.229
F2	SO4	LAG3	7	24.3126	32.1716	0.4784	0.01869	0.67981	0.979	0.0001
F2	SO4	LAG4	7	-10.902	21.9525	0.6371	0.71189	0.39238	0.1196	0.3543
F2	SO4	LAG5	6	-0.1753	29.1917	0.9954	0.55348	0.528	0.3425	0.1802
F2	SO4	LAG6	7	-8.0738	39.3363	0.8442	0.61645	0.7013	0.4132	0.1141
F2	TDKN	LAG0	4	49.1859	54.2139	0.4312	-9.3902	18.3528	0.6442	0.0803
F2	TDKN	LAG1	7	-11.811	37.3902	0.7628	14.0755	13.6462	0.3421	0.1506
F2	TDKN	LAG2	6	109.122	42.8949	0.0516	-35.263	18.2715	0.1115	0.4269
F2	TDKN	LAG3	5	46.8191	44.9706	0.3566	-11.001	16.3918	0.5389	0.1012
F2	TDKN	LAG4	7	-4.8008	50.0924	0.9268	13.8443	22.5691	0.5621	0.059
F2	TDKN	LAG5	5	-23.684	63.4534	0.7279	21.4656	25.5419	0.448	0.1501
F2	TDKN	LAG6	5	1.66865	64.4652	0.9806	9.88697	21.139	0.6643	0.0519
F2	TDPO4	LAG0	6	10.453	13.8119	0.4833	208.358	121.741	0.1477	0.3694
F2	TDPO4	LAG1	7	7.47822	18.1192	0.6942	477.278	399.967	0.2778	0.1918
F2	TDPO4	LAG2	6	24.7874	13.2406	0.1201	-88.111	119.747	0.4949	0.0977
F2	TDPO4	LAG3	6	42.5837	25.4773	0.1555	-325.26	464.862	0.5153	0.0892

F2	TDPO4	LAG4	7	4.86452	20.4427	0.8198	589.759	509.973	0.2915	0.1823
F2	TDPO4	LAG5	5	38.1834	19.2287	0.118	-82.733	159.067	0.6304	0.0633
F2	TDPO4	LAG6	6	2.04152	21.7888	0.929	326.342	372.199	0.4207	0.1333
F2	TDSCU	LAG0	6	28.5681	19.3953	0.2008	-0.3552	11.9654	0.9775	0.0002
F2	TDSCU	LAG1	6	41.5244	44.3779	0.3924	-22.475	69.3807	0.7591	0.0206
F2	TDSCU	LAG2	6	23.557	16.9361	0.223	-6.365	15.152	0.6919	0.0341
F2	TDSCU	LAG3	7	31.2806	15.5066	0.0902	-6.1125	10.5482	0.5833	0.053
F2	TDSCU	LAG4	6	55.1665	33.662	0.1622	-37.687	44.4364	0.4351	0.1258
F2	TDSCU	LAG5	6	-6.864	33.0581	0.8437	46.7563	41.7223	0.3134	0.2008
F2	TDSCU	LAG6	7	13.4793	15.6832	0.4231	9.52659	9.34206	0.3472	0.1477
F2	TDSFE	LAG0	4	38.0721	41.984	0.4314	-1.4807	3.67301	0.7139	0.0514
F2	TDSFE	LAG1	4	43.3462	32.8071	0.2782	-1.9038	2.58561	0.5149	0.1531
F2	TDSFE	LAG2	3	97.6908	49.959	0.1897	-7.7168	5.30257	0.2828	0.5143
F2	TDSFE	LAG3	4	43.8809	38.0646	0.3325	-1.9604	3.3759	0.6022	0.101
F2	TDSFE	LAG4	3	41.1326	74.1961	0.635	-1.174	7.07255	0.8834	0.0136
F2	TDSFE	LAG5	3	33.9436	46.0126	0.5375	-0.9509	3.54926	0.8139	0.0346
F2	TDSFE	LAG6	5	-47.85	14.5206	0.0301	6.17866	1.09668	0.0049	0.8881
F2	TDSZN	LAG0	6	30.0834	29.6711	0.3572	-0.8945	8.09818	0.9163	0.0024
F2	TDSZN	LAG1	4	16.6489	30.8118	0.6265	2.01995	8.56478	0.8287	0.0182
F2	TDSZN	LAG2	5	42.1159	34.9455	0.2946	-2.8076	6.00165	0.6643	0.0519
F2	TDSZN	LAG3	6	6.77715	24.7566	0.7952	5.00947	9.23448	0.6108	0.0556
F2	TDSZN	LAG4	5	37.5751	24.5253	0.2003	-5.2393	6.87744	0.4886	0.1267
F2	TDSZN	LAG5	3	42.1056	63.3347	0.5746	-4.949	19.4188	0.8226	0.0315
F2	TDSZN	LAG6	4	26.7583	23.8306	0.3433	-0.9692	4.5013	0.8433	0.0152
F2	TKN	LAG0	6	52.107	62.8721	0.445	-7.9127	20.3191	0.713	0.0294
F2	TKN	LAG1	6	-7.3182	34.2722	0.8393	14.0155	12.6145	0.3171	0.198
F2	TKN	LAG2	7	110.705	32.1571	0.0138	-35.653	13.0041	0.0337	0.5561
F2	TKN	LAG3	6	52.9583	53.1334	0.3647	-8.9171	18.2215	0.6453	0.0457
F2	TKN	LAG4	6	-23.879	60.599	0.7098	23.0373	27.8298	0.4455	0.1205
F2	TKN	LAG5	6	-2.9583	57.9181	0.9612	12.1389	22.3353	0.6101	0.0558
F2	TKN	LAG6	7	27.3479	56.1846	0.6437	-0.7337	18.2467	0.9692	0.0003
F2	TPO4	LAG0	6	5.6202	14.2343	0.7092	242.48	123.018	0.1058	0.4373
F2	TPO4	LAG1	7	16.9911	23.5387	0.4975	158.567	399.989	0.7055	0.0255
F2	TPO4	LAG2	6	33.7036	16.7521	0.1004	-118.94	149.831	0.4633	0.1119
F2	TPO4	LAG3	6	62.7067	26.5761	0.0648	-619.02	419.921	0.2004	0.303
F2	TPO4	LAG4	7	11.7477	22.1497	0.6149	248.535	354.9	0.51	0.0756
F2	TPO4	LAG5	6	33.6524	18.7392	0.1325	-75.652	156.356	0.6489	0.0447
F2	TPO4	LAG6	6	-2.0059	26.6958	0.943	319.784	376.896	0.4349	0.1259

station	independent	month lag	df	intercept	se_int	pvalue_int	slope	se_slope	p value slope	r_square
F3	ALK	LAG0	6	6.52227	55.8986	0.9117	0.09288	0.22147	0.6923	0.034
F3	ALK	LAG1	6	78.2199	48.3991	0.167	-0.1961	0.17289	0.3081	0.2047
F3	ALK	LAG2	7	65.2539	37.0476	0.1287	-0.154	0.14927	0.342	0.1507
F3	ALK	LAG3	6	53.5429	59.9252	0.4125	-0.086	0.22947	0.7231	0.0273
F3	ALK	LAG4	7	-23.33	35.2151	0.5323	0.19117	0.12896	0.1888	0.2681
F3	ALK	LAG5	6	3.74599	38.3145	0.9259	0.10092	0.14859	0.5272	0.0845
F3	ALK	LAG6	6	-29.877	70.5301	0.6895	0.20387	0.25339	0.4576	0.1146
F3	CA	LAG0	6	-11.269	61.4761	0.8618	0.5113	0.76008	0.531	0.083
F3	CA	LAG1	6	63.0504	35.1982	0.1332	-0.4577	0.40299	0.3075	0.2051
F3	CA	LAG2	7	91.2849	31.7986	0.0284	-0.8679	0.42634	0.088	0.4085
F3	CA	LAG3	6	7.29152	62.9584	0.9123	0.28804	0.74855	0.7162	0.0288
F3	CA	LAG4	7	-29.049	28.7976	0.352	0.70397	0.34776	0.0894	0.4058
F3	CA	LAG5	6	7.45131	36.5139	0.8463	0.27726	0.45421	0.5683	0.0694
F3	CA	LAG6	6	-10.782	67.8612	0.88	0.41038	0.74174	0.6039	0.0577
F3	CL	LAG0	6	21.4693	39.8484	0.6132	0.05726	0.27131	0.8412	0.0088
F3	CL	LAG1	6	35.2064	70.9759	0.6409	-0.078	0.48862	0.8794	0.0051
F3	CL	LAG2	7	60.9661	32.7736	0.1122	-0.2421	0.23304	0.3389	0.1524
F3	CL	LAG3	6	-14.368	33.7047	0.6876	0.31342	0.22592	0.224	0.2779
F3	CL	LAG4	7	-14.913	39.6033	0.7195	0.31604	0.28757	0.3139	0.1676
F3	CL	LAG5	6	-3.8139	39.9794	0.9277	0.24858	0.29505	0.4379	0.1243
F3	CL	LAG6	6	61.7181	45.0869	0.2293	-0.2246	0.28132	0.4608	0.1131
F3	DOC	LAG0	6	31.5495	22.5037	0.2198	-0.0358	0.38676	0.9298	0.0017
F3	DOC	LAG1	6	52.7918	49.0493	0.331	-0.6844	1.14852	0.5772	0.0663
F3	DOC	LAG2	7	95.6131	27.6524	0.0135	-1.7663	0.70502	0.0462	0.5113
F3	DOC	LAG3	6	13.2294	66.665	0.8505	0.44078	1.61287	0.7956	0.0147
F3	DOC	LAG4	7	29.4333	17.8494	0.1502	-0.0335	0.33149	0.9229	0.0017
F3	DOC	LAG5	6	1.41058	16.0063	0.9332	0.54316	0.28151	0.1116	0.4268
F3	DOC	LAG6	6	-78.478	60.1581	0.2489	2.48913	1.41665	0.1393	0.3817
F3	K	LAG0	6	-2.0143	63.7171	0.976	4.46605	8.8954	0.6369	0.048
F3	K	LAG1	6	59.7087	31.0104	0.1121	-4.7488	4.00372	0.2889	0.2196
F3	K	LAG2	7	53.7149	32.2867	0.1472	-3.8289	4.63659	0.4405	0.1021
F3	K	LAG3	6	14.752	53.2439	0.7928	2.24682	7.13751	0.7656	0.0194
F3	K	LAG4	7	-31.357	19.5192	0.1593	8.30713	2.64698	0.0201	0.6214
F3	K	LAG5	6	3.45823	36.8662	0.9289	3.5452	4.95541	0.5064	0.0929
F3	K	LAG6	6	17.5323	77.9365	0.8309	1.07822	9.38445	0.913	0.0026
F3	MG	LAG0	6	22.2349	45.7195	0.6473	0.28598	1.72666	0.8749	0.0055
F3	MG	LAG1	6	58.6037	34.3914	0.1491	-1.227	1.18868	0.3493	0.1757
F3	MG	LAG2	7	62.5944	31.0718	0.0906	-1.4793	1.28417	0.2932	0.1811
F3	MG	LAG3	6	-8.6053	44.8843	0.8555	1.49384	1.65399	0.4078	0.1403
F3	MG	LAG4	7	-27.719	27.7594	0.3566	2.10716	1.02582	0.0858	0.4129
F3	MG	LAG5	6	8.27506	30.4058	0.7964	0.8073	1.1294	0.5067	0.0927
F3	MG	LAG6	6	-5.8915	56.6739	0.9212	1.08537	1.87889	0.5885	0.0626
F3	NA	LAG0	6	15.6633	40.7039	0.7162	0.14475	0.41038	0.7387	0.0243
F3	NA	LAG1	6	62.4264	66.5586	0.3913	-0.3817	0.65557	0.5857	0.0635
F3	NA	LAG2	7	60.8986	32.6522	0.1114	-0.3546	0.34069	0.3381	0.1529
F3	NA	LAG3	6	-13.027	38.4234	0.7483	0.4443	0.37764	0.2923	0.2168
F3	NA	LAG4	7	-37.116	39.1809	0.3801	0.68618	0.40779	0.1434	0.3206

F3	NA	LAG5	6	-0.9928	40.9913	0.9816	0.33221	0.44254	0.4866	0.1013
F3	NA	LAG6	6	65.803	50.4664	0.2491	-0.364	0.45916	0.4639	0.1116
F3	NH4	LAG0	6	26.4767	32.9936	0.4587	115.094	1148.29	0.9241	0.002
F3	NH4	LAG1	6	199.832	50.6546	0.0109	-6691.1	1919.66	0.0176	0.7084
F3	NH4	LAG2	7	46.7181	35.691	0.2384	-599.58	1104.34	0.6067	0.0468
F3	NH4	LAG3	6	-39.513	12.3338	0.0239	2441.88	412.471	0.002	0.8751
F3	NH4	LAG4	7	-0.6041	38.3165	0.9879	1223.03	1613.42	0.4771	0.0874
F3	NH4	LAG5	6	76.5852	19.4018	0.0109	-1689.6	653.452	0.0491	0.5721
F3	NH4	LAG6	6	64.2457	40.6149	0.1745	-1304.3	1368.35	0.3843	0.1538
F3	NOX	LAG0	2	6.71703	3.17904	0.2814	0.06326	0.02622	0.2502	0.8534
F3	NOX	LAG1	2	16.6372	14.7173	0.4611	-153.49	1325.22	0.9266	0.0132
F3	NOX	LAG2	4	15.4297	33.4683	0.6761	942.797	1737.12	0.625	0.0894
F3	NOX	LAG3	2	46.3487	8.65063	0.1175	0.07453	0.07135	0.4861	0.5218
F3	NOX	LAG4	2	119.743	25.6998	0.1346	-7217.9	1963.4	0.1691	0.9311
F3	NOX	LAG5	2	72.0163	32.871	0.2726	-2704	1715.08	0.3598	0.7131
F3	NOX	LAG6	2	19.7055	0.29527	0.0095	-0.0467	0.00244	0.0332	0.9973
F3	OPO4	LAG0	5	12.4961	3.23505	0.0181	163.175	30.4215	0.0058	0.8779
F3	OPO4	LAG1	4	20.1173	31.7487	0.5713	51.378	3260.78	0.9884	0.0001
F3	OPO4	LAG2	5	36.9751	10.7905	0.0266	-127.85	101.362	0.2757	0.2846
F3	OPO4	LAG3	5	65.2188	32.1075	0.1121	-3151.8	2924.91	0.3419	0.225
F3	OPO4	LAG4	4	-23.015	23.8765	0.4062	4820.09	2250.1	0.1216	0.6047
F3	OPO4	LAG5	6	20.0085	7.70156	0.0484	65.366	78.0614	0.4406	0.123
F3	OPO4	LAG6	4	27.2768	39.0641	0.5353	-227.65	4168.99	0.9599	0.001
F3	SIO2	LAG0	5	56.6547	46.4429	0.2895	-1.355	2.59152	0.6287	0.064
F3	SIO2	LAG1	6	30.9136	19.2655	0.1695	-0.4062	1.01984	0.7068	0.0308
F3	SIO2	LAG2	7	46.812	18.3038	0.0431	-1.4975	1.32013	0.2999	0.1766
F3	SIO2	LAG3	6	60.5101	26.2987	0.0697	-1.8354	1.58287	0.2986	0.2119
F3	SIO2	LAG4	7	11.7063	16.8887	0.5141	0.99307	0.93199	0.3276	0.1591
F3	SIO2	LAG5	6	3.72715	20.2075	0.8609	1.61929	1.18548	0.2302	0.2718
F3	SIO2	LAG6	6	-37.248	39.6855	0.391	3.2296	1.97582	0.1631	0.3483
F3	SO4	LAG0	6	-3.9959	25.8358	0.8831	0.67485	0.49319	0.2295	0.2724
F3	SO4	LAG1	6	39.9743	17.6976	0.0735	-0.3082	0.30822	0.3633	0.1666
F3	SO4	LAG2	7	49.8158	18.1547	0.0336	-0.5158	0.391	0.2352	0.2248
F3	SO4	LAG3	6	36.3229	30.4503	0.2864	-0.0953	0.55477	0.8704	0.0059
F3	SO4	LAG4	7	-9.1057	14.9087	0.5638	0.6888	0.25819	0.0371	0.5426
F3	SO4	LAG5	6	5.0393	21.4989	0.824	0.46528	0.38444	0.2803	0.2266
F3	SO4	LAG6	6	-5.0123	43.8628	0.9135	0.52893	0.72258	0.497	0.0968
F3	TDKN	LAG0	3	-55.797	52.1126	0.3964	41.4352	24.1601	0.2285	0.5952
F3	TDKN	LAG1	6	39.9009	40.8335	0.3734	-6.417	16.1014	0.7067	0.0308
F3	TDKN	LAG2	6	89.3373	30.3283	0.032	-27.636	14.1166	0.1076	0.4339
F3	TDKN	LAG3	4	17.4542	67.4266	0.8125	2.92174	30.3613	0.9294	0.0031
F3	TDKN	LAG4	7	-15.811	34.8605	0.6661	19.7252	15.412	0.2479	0.2145
F3	TDKN	LAG5	5	14.6461	42.2332	0.7462	5.66886	17.8441	0.7666	0.0246
F3	TDKN	LAG6	4	-49.472	88.4598	0.615	30.4858	33.2077	0.4263	0.2193
F3	TDPO4	LAG0	6	24.2143	9.20693	0.0465	75.6459	60.5474	0.2668	0.2379
F3	TDPO4	LAG1	6	26.632	28.1858	0.3881	-156.45	1572.83	0.9246	0.002
F3	TDPO4	LAG2	6	27.2233	7.22384	0.013	-59.827	47.5123	0.2635	0.2408
F3	TDPO4	LAG3	6	-3.4742	33.3427	0.9211	1726.45	1610.88	0.3328	0.1868
F3	TDPO4	LAG4	7	5.35679	23.6321	0.8282	1248.58	1243.79	0.3542	0.1438
F3	TDPO4	LAG5	5	31.1141	12.1774	0.063	13.5826	74.1719	0.8636	0.0083
F3	TDPO4	LAG6	6	63.4889	26.7737	0.0638	-2059.3	1421.29	0.207	0.2957
F3	TDSCU	LAG0	5	37.7059	25.8672	0.2187	-4.6405	23.1145	0.8507	0.01

F3	TDSCU	LAG1	5	21.6401	24.6594	0.4297	5.44595	32.6207	0.8755	0.0069
F3	TDSCU	LAG2	6	38.9513	17.3933	0.0753	-19.862	20.7416	0.3823	0.155
F3	TDSCU	LAG3	6	57.4301	18.3356	0.0259	-31.212	20.2408	0.1837	0.3223
F3	TDSCU	LAG4	6	33.2843	18.9282	0.139	-1.9119	16.3076	0.9112	0.0027
F3	TDSCU	LAG5	6	1.82461	11.834	0.8835	31.1884	11.6507	0.044	0.589
F3	TDSCU	LAG6	6	57.7345	23.7869	0.0596	-33.878	24.2448	0.2212	0.2808
F3	TDSFE	LAG0	3	27.6879	39.6453	0.5572	0.84145	6.62829	0.9106	0.008
F3	TDSFE	LAG1	5	37.5993	26.2493	0.2253	-1.1118	2.23658	0.6452	0.0582
F3	TDSFE	LAG2	3	34.3349	71.4176	0.6781	-0.2606	9.43244	0.9805	0.0004
F3	TDSFE	LAG3	3	43.5269	32.555	0.313	-2.1509	3.79433	0.6279	0.1384
F3	TDSFE	LAG4	4	1.89903	51.8888	0.9731	3.05061	4.42361	0.54	0.1368
F3	TDSFE	LAG5	3	30.408	40.0029	0.5266	-0.356	3.6256	0.9307	0.0048
F3	TDSFE	LAG6	4	8.79733	30.6741	0.7929	2.12151	2.79947	0.5036	0.1607
F3	TDSZN	LAG0	5	68.7327	23.8313	0.0448	-16.805	10.923	0.1987	0.3718
F3	TDSZN	LAG1	4	33.8197	12.3529	0.0715	-0.8521	0.79523	0.3625	0.2768
F3	TDSZN	LAG2	5	10.724	10.9218	0.3817	4.446	2.54333	0.1554	0.4331
F3	TDSZN	LAG3	5	42.4502	20.774	0.1105	-4.7285	7.11914	0.5429	0.0993
F3	TDSZN	LAG4	6	29.6557	10.2172	0.0337	0.21695	0.75887	0.7864	0.0161
F3	TDSZN	LAG5	5	39.813	13.4754	0.0418	-3.1971	3.42931	0.404	0.1785
F3	TDSZN	LAG6	2	70.8044	37.2367	0.3082	-15.744	11.6612	0.4058	0.6457
F3	TKN	LAG0	4	-175.37	74.0806	0.0987	87.1491	30.4933	0.0647	0.7314
F3	TKN	LAG1	5	45.3559	40.7646	0.3282	-7.7161	17.0744	0.6748	0.0486
F3	TKN	LAG2	7	94.9189	27.4876	0.0136	-29.652	11.8825	0.0468	0.5093
F3	TKN	LAG3	4	93.0257	132.597	0.5335	-27.286	55.115	0.6545	0.0755
F3	TKN	LAG4	6	-45.02	41.6596	0.3292	34.9713	20.0667	0.1418	0.3779
F3	TKN	LAG5	6	16.3702	42.4525	0.7156	5.34028	17.4605	0.772	0.0184
F3	TKN	LAG6	5	-45.824	73.6325	0.5674	29.0317	28.261	0.3624	0.2087
F3	TPO4	LAG0	7	21.7664	8.42569	0.0416	83.3654	61.3029	0.2227	0.2356
F3	TPO4	LAG1	7	27.3774	18.5754	0.191	15.1272	555.977	0.9792	0.0001
F3	TPO4	LAG2	6	31.6204	9.99454	0.025	-69.451	68.6641	0.3582	0.1699
F3	TPO4	LAG3	7	54.4695	22.7544	0.0537	-887.94	718.39	0.2626	0.2029
F3	TPO4	LAG4	7	16.9716	18.3757	0.3913	402.209	614.489	0.537	0.0666
F3	TPO4	LAG5	6	27.2953	11.1113	0.0575	21.2135	76.0141	0.7914	0.0153
F3	TPO4	LAG6	7	24.3039	22.9407	0.3302	121.632	739.35	0.8747	0.0045

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F4	AGP	LAG2	4	51.1762	17.5284	0.0615	-43.903	35.4494	0.3036	0.3383
F4	AGP	LAG4	5	34.0568	15.8959	0.0988	-14.806	31.8348	0.6661	0.0513
F4	AGP	LAG5	3	48.7304	48.0267	0.4171	-39.763	142.905	0.807	0.0373
F4	AGP	LAG6	4	58.891	35.6063	0.1967	-63.084	105.677	0.5926	0.1062
F4	ALK	LAG0	8	12.1053	63.1126	0.8533	0.10334	0.26326	0.7063	0.0215
F4	ALK	LAG1	8	40.1036	45.018	0.4026	-0.0305	0.16356	0.8573	0.0049
F4	ALK	LAG2	9	56.8525	39.6808	0.1898	-0.1113	0.16296	0.514	0.0551
F4	ALK	LAG3	9	33.0814	57.6588	0.5819	0.01246	0.2484	0.9612	0.0003
F4	ALK	LAG4	8	6.18734	40.2287	0.8821	0.1012	0.15629	0.5379	0.0565
F4	ALK	LAG5	8	-25.32	32.7719	0.465	0.23541	0.13433	0.1231	0.3049
F4	ALK	LAG6	9	-7.0274	37.7419	0.8569	0.15753	0.13904	0.29	0.1383
F4	CA	LAG0	8	-4.0904	67.5834	0.9534	0.52538	0.86435	0.5625	0.0501
F4	CA	LAG1	8	64.5766	42.6586	0.1738	-0.3862	0.4944	0.4603	0.0802
F4	CA	LAG2	9	78.9433	36.5218	0.0626	-0.6476	0.47688	0.2115	0.1874
F4	CA	LAG3	9	-0.3926	46.8356	0.9935	0.48534	0.61637	0.4537	0.0719
F4	CA	LAG4	8	-2.9421	33.6574	0.9328	0.43424	0.41105	0.3259	0.1375
F4	CA	LAG5	8	-20.432	29.6319	0.5127	0.67645	0.38044	0.1186	0.3111
F4	CA	LAG6	9	13.3582	47.6745	0.7864	0.25754	0.56438	0.6603	0.0254
F4	CL	LAG0	8	4.07608	38.9415	0.9196	0.23424	0.27287	0.4191	0.0952
F4	CL	LAG1	8	39.0193	43.1987	0.3964	-0.0512	0.30247	0.8704	0.0041
F4	CL	LAG2	9	48.3125	34.6189	0.2004	-0.1417	0.26485	0.6072	0.0345
F4	CL	LAG3	9	22.6264	32.686	0.5084	0.103	0.24469	0.6849	0.0217
F4	CL	LAG4	8	-19.238	34.491	0.5944	0.39397	0.26112	0.1751	0.2454
F4	CL	LAG5	8	-3.6735	36.1696	0.922	0.28889	0.2957	0.3611	0.12
F4	CL	LAG6	9	22.1505	37.3158	0.5692	0.08569	0.24677	0.7374	0.0148
F4	DOC	LAG0	8	25.9894	43.8228	0.5718	0.2853	1.1501	0.8112	0.0087
F4	DOC	LAG1	8	35.6698	50.2497	0.5008	-0.0963	1.24902	0.9407	0.0008
F4	DOC	LAG2	9	54.0683	39.2044	0.2052	-0.6639	1.07206	0.553	0.0457
F4	DOC	LAG3	9	24.3402	42.7204	0.5845	0.32597	1.17736	0.7889	0.0095
F4	DOC	LAG4	8	-12.937	37.8837	0.7428	1.18659	0.98745	0.2686	0.171
F4	DOC	LAG5	8	-31.14	28.8724	0.3166	1.71179	0.7781	0.0637	0.4088
F4	DOC	LAG6	9	1.47786	38.6294	0.9704	0.87138	0.9881	0.4036	0.0886
F4	K	LAG0	8	-40.78	44.3754	0.3887	10.7336	6.05835	0.1197	0.3096
F4	K	LAG1	8	54.7988	35.9031	0.1708	-3.2353	4.92954	0.5326	0.058
F4	K	LAG2	9	67.2601	30.0525	0.0556	-5.4967	4.33965	0.2409	0.167
F4	K	LAG3	9	23.8431	36.98	0.5371	1.68404	5.01663	0.7457	0.0139
F4	K	LAG4	8	1.78395	31.5933	0.9565	4.06281	4.1626	0.3616	0.1198
F4	K	LAG5	8	1.07376	32.9351	0.9749	3.89712	4.18937	0.3832	0.11
F4	K	LAG6	9	8.22175	54.7559	0.8844	3.46196	7.05559	0.6368	0.0292
F4	MG	LAG0	8	6.95202	48.657	0.8904	1.15596	1.86261	0.5545	0.0522
F4	MG	LAG1	8	46.6173	35.8899	0.2351	-0.5364	1.26828	0.6851	0.0249
F4	MG	LAG2	9	53.4154	35.9095	0.1752	-0.9773	1.48102	0.5279	0.0516
F4	MG	LAG3	9	12.301	37.6349	0.7522	0.97299	1.51252	0.538	0.0492
F4	MG	LAG4	8	-6.9341	30.5104	0.8267	1.46316	1.12218	0.2335	0.1954
F4	MG	LAG5	8	-21.304	25.5569	0.432	2.12455	1.0079	0.073	0.3883
F4	MG	LAG6	9	27.1565	43.314	0.5482	0.26836	1.49748	0.8622	0.004
F4	NA	LAG0	8	-5.5502	40.0102	0.8936	0.44285	0.41018	0.3161	0.1427
F4	NA	LAG1	8	46.6501	43.0395	0.3143	-0.1537	0.4385	0.7363	0.0172

F4	NA	LAG2	9	52.3166	33.9726	0.1621	-0.2477	0.37178	0.524	0.0526
F4	NA	LAG3	9	28.8827	35.0306	0.4335	0.07909	0.38121	0.8408	0.0054
F4	NA	LAG4	8	-21.8	35.5988	0.5597	0.58862	0.38396	0.1691	0.2514
F4	NA	LAG5	8	5.51752	35.5437	0.881	0.29383	0.40184	0.4884	0.071
F4	NA	LAG6	9	17.0593	40.3805	0.6838	0.17273	0.38513	0.6657	0.0245
F4	NH4	LAG0	8	12.0695	40.8335	0.7761	852.719	1382.71	0.5569	0.0515
F4	NH4	LAG1	8	39.662	13.4919	0.0217	-266.33	367.96	0.4927	0.0696
F4	NH4	LAG2	9	32.6463	26.2339	0.2486	-97.245	1012	0.9258	0.0012
F4	NH4	LAG3	9	19.7293	26.1626	0.4724	628.501	964.365	0.5329	0.0504
F4	NH4	LAG4	8	-38.234	36.8695	0.3342	3149.64	1634.04	0.0953	0.3467
F4	NH4	LAG5	8	41.1225	35.4922	0.2846	-435.46	1467	0.7752	0.0124
F4	NH4	LAG6	9	-23.155	30.6505	0.4716	1976.78	1017.68	0.088	0.3205
F4	NOX	LAG0	3	36.136	27.0667	0.3135	-145.72	667.652	0.8475	0.0233
F4	NOX	LAG2	5	24.6244	18.6466	0.2571	125.544	1049.23	0.9105	0.0036
F4	NOX	LAG3	3	13.5537	33.8122	0.7273	2661.81	2610.61	0.4152	0.342
F4	NOX	LAG4	2	-71.99	92.0289	0.5774	21917	18165.2	0.4406	0.5928
F4	NOX	LAG5	4	45.994	19.7469	0.1022	-1155.5	1125.91	0.3803	0.2598
F4	NOX	LAG6	3	14.6028	16.9144	0.4789	1132.56	695.765	0.2451	0.5699
F4	OPO4	LAG0	5	25.7745	12.1094	0.1004	312.975	210.931	0.212	0.355
F4	OPO4	LAG1	3	46.0024	19.3575	0.1407	-1193.6	1166.24	0.4137	0.3437
F4	OPO4	LAG2	4	34.494	14.6778	0.1003	-163.59	232.46	0.5323	0.1417
F4	OPO4	LAG3	6	33.3764	20.5407	0.1651	527.138	2430.41	0.8369	0.0093
F4	OPO4	LAG4	3	-30.025	57.6792	0.6546	9158.8	8037.41	0.3726	0.3937
F4	OPO4	LAG5	4	32.9968	15.0362	0.1158	-75.452	238.304	0.7723	0.0323
F4	OPO4	LAG6	6	60.044	25.2038	0.063	-3442.3	3389.3	0.3564	0.171
F4	SIO2	LAG0	7	41.1243	46.1517	0.4072	-0.0838	2.47043	0.974	0.0002
F4	SIO2	LAG1	8	37.3474	26.0696	0.1951	-0.2977	1.3371	0.8302	0.007
F4	SIO2	LAG2	9	37.2901	28.9359	0.2335	-0.4369	1.72859	0.8068	0.0079
F4	SIO2	LAG3	9	11.7394	24.5433	0.6452	1.51	1.45189	0.3287	0.1191
F4	SIO2	LAG4	8	12.9999	22.5978	0.5831	1.04021	1.18209	0.4081	0.0996
F4	SIO2	LAG5	8	3.10076	21.9275	0.8915	1.68496	1.25552	0.2215	0.2046
F4	SIO2	LAG6	9	3.86019	35.0961	0.9151	1.64123	1.81228	0.3916	0.093
F4	SO4	LAG0	8	-16.809	24.804	0.5197	0.96927	0.43085	0.0592	0.4196
F4	SO4	LAG1	8	38.7565	22.7181	0.1318	-0.1256	0.38429	0.7534	0.015
F4	SO4	LAG2	9	42.7496	20.2321	0.0676	-0.2613	0.39279	0.5247	0.0524
F4	SO4	LAG3	9	6.84239	25.0097	0.7913	0.58556	0.47928	0.2566	0.1572
F4	SO4	LAG4	8	3.279	20.504	0.8775	0.53177	0.3605	0.1837	0.2371
F4	SO4	LAG5	8	12.7976	20.6101	0.5543	0.35896	0.38003	0.3763	0.113
F4	SO4	LAG6	9	41.2632	31.8791	0.2316	-0.1177	0.55619	0.8377	0.0056
F4	TDKN	LAG0	6	-78.077	43.1465	0.1301	50.326	19.3289	0.048	0.5755
F4	TDKN	LAG1	8	53.9783	39.1861	0.2108	-9.6212	16.6603	0.5817	0.0455
F4	TDKN	LAG2	8	50.5943	47.6023	0.3231	-8.9621	22.9381	0.7076	0.0213
F4	TDKN	LAG3	7	68.0146	37.2723	0.1178	-17.603	18.6013	0.3805	0.1299
F4	TDKN	LAG4	8	-0.9144	35.062	0.9799	15.4766	16.2305	0.3721	0.115
F4	TDKN	LAG5	7	-21.907	37.8475	0.5838	25.5562	17.6178	0.1971	0.2596
F4	TDKN	LAG6	7	-22.39	57.4342	0.7101	25.6889	23.3793	0.314	0.1675
F4	TDPO4	LAG0	8	30.8309	9.41298	0.0136	222.23	164.598	0.219	0.2066
F4	TDPO4	LAG1	8	40.073	11.9568	0.0122	-698.22	759.938	0.3888	0.1076
F4	TDPO4	LAG2	9	33.2181	8.1688	0.0036	-124.83	150.561	0.4311	0.0791
F4	TDPO4	LAG3	9	75.5351	36.4266	0.0718	-4887.7	4394.82	0.2984	0.1339
F4	TDPO4	LAG4	8	35.7619	39.3223	0.3933	-493.57	4749.16	0.9201	0.0015
F4	TDPO4	LAG5	8	32.0427	9.04721	0.0094	-46.283	158.447	0.7787	0.012

F4	TDPO4	LAG6	9	61.4896	34.457	0.1122	-3563.3	4459.54	0.4473	0.0739
F4	TDSCU	LAG0	7	7.98665	22.3137	0.7327	37.9141	24.6981	0.1757	0.282
F4	TDSCU	LAG1	7	26.4845	17.3923	0.1786	0.20259	22.327	0.9931	0
F4	TDSCU	LAG2	9	35.5263	9.79683	0.0067	-3.5161	4.30934	0.4382	0.0768
F4	TDSCU	LAG3	9	12.4214	12.5332	0.3507	28.444	12.9202	0.0589	0.3773
F4	TDSCU	LAG4	7	52.9916	22.1654	0.054	-27.65	29.4544	0.3841	0.1281
F4	TDSCU	LAG5	8	31.7946	11.3241	0.0262	-0.5522	4.67646	0.9093	0.002
F4	TDSCU	LAG6	8	30.5093	19.2891	0.1577	6.02784	19.3765	0.7648	0.0136
F4	TDSFE	LAG0	4	133.788	10.872	0.0012	-14.946	1.53548	0.0023	0.9693
F4	TDSFE	LAG1	6	21.8383	38.8586	0.5984	1.83083	5.26112	0.742	0.0236
F4	TDSFE	LAG2	2	23.6066	52.9832	0.7332	-0.3845	5.79002	0.9578	0.0044
F4	TDSFE	LAG3	4	-11.812	38.0484	0.7765	7.1629	4.91678	0.2412	0.4143
F4	TDSFE	LAG4	5	38.388	15.778	0.0717	-0.7984	1.09787	0.5074	0.1168
F4	TDSFE	LAG5	3	40.6702	77.1376	0.6507	0.14844	9.15519	0.9885	0.0001
F4	TDSFE	LAG6	2	8.19278	372.116	0.986	4.13402	51.1044	0.9486	0.0065
F4	TDSZN	LAG0	7	26.3698	14.0485	0.1096	3.8309	3.17342	0.2728	0.1954
F4	TDSZN	LAG1	3	35.2239	34.2292	0.4116	5.8541	14.9808	0.7337	0.0709
F4	TDSZN	LAG2	7	44.4843	16.1669	0.0332	-2.7487	3.06291	0.4041	0.1183
F4	TDSZN	LAG3	6	49.0274	15.2345	0.0235	-2.1515	3.44364	0.5595	0.0724
F4	TDSZN	LAG4	4	43.212	19.2286	0.1102	-4.7589	5.6904	0.4644	0.1891
F4	TDSZN	LAG5	7	46.5893	13.0597	0.0118	-4.0151	2.74059	0.1933	0.2635
F4	TDSZN	LAG6	6	32.2698	15.738	0.0956	2.7375	3.50252	0.4698	0.1089
F4	TKN	LAG0	7	-104.93	52.9325	0.0947	60.2211	21.8755	0.0332	0.5581
F4	TKN	LAG1	6	43.9955	43.7889	0.3611	-3.9055	17.8069	0.8351	0.0095
F4	TKN	LAG2	8	65.3785	29.5862	0.0628	-18.258	13.2653	0.2111	0.213
F4	TKN	LAG3	8	44.9064	38.6219	0.283	-3.5329	18.4613	0.8537	0.0052
F4	TKN	LAG4	6	24.5195	36.6495	0.5331	1.40339	17.1412	0.9379	0.0013
F4	TKN	LAG5	8	-23.202	32.3686	0.4967	24.0893	14.0955	0.1312	0.2944
F4	TKN	LAG6	8	-6.4549	56.5646	0.9123	17.2584	22.2397	0.4631	0.0792
F4	TPO4	LAG0	8	29.9989	9.59037	0.0167	163.885	117.795	0.2068	0.2166
F4	TPO4	LAG1	9	40.8764	11.0339	0.006	-537.46	431.066	0.2477	0.1627
F4	TPO4	LAG2	9	38.7331	9.21605	0.003	-111.79	119.88	0.3784	0.098
F4	TPO4	LAG3	9	69.377	31.1064	0.0563	-2228.8	2008.74	0.2994	0.1334
F4	TPO4	LAG4	10	21.182	11.2104	0.0914	681.497	472.766	0.1833	0.1876
F4	TPO4	LAG5	8	37.4165	10.9246	0.0111	-48.307	134.271	0.7296	0.0182
F4	TPO4	LAG6	9	43.2519	39.941	0.3104	-597.7	2747.05	0.8332	0.0059

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F5	ALK	LAG0	5	-22.128	47.785	0.6674	0.27071	0.18524	0.2177	0.3481
F5	ALK	LAG1	5	61.2828	44.7846	0.243	-0.0632	0.18499	0.7498	0.0284
F5	ALK	LAG2	6	74.5289	34.0424	0.0802	-0.1333	0.14503	0.4001	0.1446
F5	ALK	LAG3	5	22.7712	58.9155	0.7188	0.08451	0.22868	0.7304	0.033
F5	ALK	LAG4	5	6.71171	37.341	0.8661	0.16237	0.15582	0.3562	0.2135
F5	ALK	LAG5	5	36.4611	42.2438	0.4368	0.04468	0.17418	0.8102	0.0162
F5	ALK	LAG6	5	38.2026	50.4877	0.4914	0.0056	0.20061	0.9791	0.0002
F5	CA	LAG0	5	-28.557	44.1105	0.5527	0.98955	0.57119	0.1582	0.4287
F5	CA	LAG1	5	69.0646	39.7354	0.1572	-0.3098	0.5242	0.5863	0.0803
F5	CA	LAG2	6	77.9339	33.5534	0.0678	-0.4786	0.46133	0.3471	0.1771
F5	CA	LAG3	5	23.8958	63.6074	0.7262	0.26519	0.81987	0.7626	0.0255
F5	CA	LAG4	5	8.53265	32.9781	0.8086	0.49973	0.44097	0.3204	0.243
F5	CA	LAG5	5	19.8936	43.657	0.6723	0.36709	0.57549	0.5582	0.0923
F5	CA	LAG6	5	29.2555	53.2803	0.6122	0.13934	0.70686	0.8533	0.0096
F5	CL	LAG0	5	8.79235	42.3168	0.8456	0.25619	0.27947	0.4112	0.1736
F5	CL	LAG1	5	119.488	60.3541	0.1188	-0.5728	0.46744	0.2876	0.273
F5	CL	LAG2	5	85.4093	55.5533	0.199	-0.3494	0.41802	0.4503	0.1487
F5	CL	LAG3	5	40.8111	51.0085	0.4685	0.02243	0.33501	0.9498	0.0011
F5	CL	LAG4	5	13.9556	39.1563	0.7395	0.26132	0.32613	0.4679	0.1383
F5	CL	LAG5	4	108.989	74.9991	0.2421	-0.4809	0.58047	0.4681	0.1862
F5	CL	LAG6	5	89.1889	38.828	0.0832	-0.3421	0.26188	0.2615	0.299
F5	DOC	LAG0	5	-27.192	52.1916	0.6299	1.87229	1.3067	0.2252	0.3392
F5	DOC	LAG1	5	82.3901	66.4814	0.283	-0.9335	1.704	0.613	0.0698
F5	DOC	LAG2	6	105.524	58.106	0.1291	-1.7636	1.65535	0.3354	0.185
F5	DOC	LAG3	5	33.203	69.6449	0.6584	0.27685	1.73904	0.8812	0.0063
F5	DOC	LAG4	5	21.5341	42.1352	0.6362	0.625	1.12391	0.6078	0.0718
F5	DOC	LAG5	5	-14.226	61.2727	0.8278	1.77264	1.75316	0.3692	0.2036
F5	DOC	LAG6	5	24.0071	59.0376	0.7051	0.40638	1.51962	0.8024	0.0176
F5	K	LAG0	5	-8.7671	39.4268	0.8349	7.16507	4.97901	0.2235	0.3411
F5	K	LAG1	5	79.4427	42.2078	0.1329	-4.8069	5.96189	0.4653	0.1398
F5	K	LAG2	6	79.6369	43.0435	0.1235	-5.003	5.96174	0.4396	0.1235
F5	K	LAG3	5	16.351	43.2643	0.7247	3.64583	5.49233	0.5431	0.0992
F5	K	LAG4	5	20.0349	32.3657	0.5694	3.75736	4.76091	0.4741	0.1347
F5	K	LAG5	5	53.0262	50.6089	0.3539	-0.8498	6.88768	0.9078	0.0038
F5	K	LAG6	5	30.5809	34.3894	0.4241	1.25463	4.60157	0.7986	0.0182
F5	MG	LAG0	5	2.79409	48.0088	0.9564	1.57989	1.69831	0.4049	0.1779
F5	MG	LAG1	5	86.0872	39.8925	0.0971	-1.6492	1.60761	0.3629	0.2083
F5	MG	LAG2	6	93.5178	34.6143	0.0427	-2.1306	1.45804	0.2038	0.2993
F5	MG	LAG3	5	29.0167	51.8417	0.6055	0.54988	1.83909	0.7798	0.0219
F5	MG	LAG4	5	15.3138	32.9221	0.666	1.2698	1.37522	0.4081	0.1757
F5	MG	LAG5	5	38.6478	44.6535	0.4356	0.3552	1.85681	0.8576	0.0091
F5	MG	LAG6	5	50.3292	43.8958	0.3155	-0.4007	1.5972	0.8143	0.0155
F5	NA	LAG0	5	3.62146	43.5047	0.9377	0.43697	0.43206	0.369	0.2036
F5	NA	LAG1	5	113.51	50.8052	0.0892	-0.7718	0.57494	0.2506	0.3106
F5	NA	LAG2	6	103.243	31.1991	0.0213	-0.6851	0.35286	0.1098	0.4299
F5	NA	LAG3	5	42.219	56.732	0.4981	0.01925	0.55709	0.9741	0.0003
F5	NA	LAG4	5	14.1614	39.2779	0.7367	0.37802	0.47655	0.472	0.1359
F5	NA	LAG5	5	59.5859	44.0754	0.2478	-0.1508	0.50882	0.7818	0.0215
F5	NA	LAG6	5	98.1002	41.9883	0.0797	-0.5978	0.42131	0.2289	0.3348

F5	NH4	LAG0	5	-28.35	53.7009	0.6255	2040.06	1443.32	0.2304	0.3331
F5	NH4	LAG1	5	57.7481	54.8095	0.3515	-405.86	1928.39	0.8436	0.011
F5	NH4	LAG2	6	19.3	24.2833	0.4628	791.9	719.795	0.3214	0.1949
F5	NH4	LAG3	5	-45.152	60.4207	0.4964	2413.27	1613.85	0.2091	0.3586
F5	NH4	LAG4	5	57.6543	73.3308	0.4757	-540.64	2897.15	0.861	0.0086
F5	NH4	LAG5	5	72.0087	26.8849	0.0553	-775.63	774.061	0.373	0.2006
F5	NH4	LAG6	5	4.98787	44.888	0.9169	974.567	1238.71	0.4754	0.134
F5	NOX	LAG0	3	63.3866	8.62284	0.018	-426.7	133.26	0.0852	0.8368
F5	NOX	LAG1	1	93.0923			-2276.9			1
F5	NOX	LAG2	4	17.3418	22.3466	0.4943	1072.55	883.052	0.3114	0.3296
F5	NOX	LAG3	2	50.2345	16.5847	0.203	619.643	592.815	0.4859	0.5221
F5	NOX	LAG4	2	5.26095	22.6379	0.8546	3136.84	1497.05	0.2835	0.8145
F5	NOX	LAG5	3	92.1132	17.3345	0.0336	-1832.6	689.802	0.1173	0.7792
F5	NOX	LAG6	2	74.5661	14.7532	0.1244	-1384.8	527.348	0.2316	0.8734
F5	OPO4	LAG0	4	88.2294	20.5501	0.0232	-12158	4401.34	0.07	0.7178
F5	OPO4	LAG1	0	28.53			0			
F5	OPO4	LAG2	2	95.5254	61.9102	0.3661	-3851.2	4499.34	0.5493	0.4228
F5	OPO4	LAG3	4	78.3326	23.5144	0.0447	-5105.7	3997.57	0.2914	0.3522
F5	OPO4	LAG4	1	29.965	1.435	0.0305	0			0
F5	OPO4	LAG5	2	29.8523	22.3111	0.4086	753.077	1621.47	0.7232	0.1774
F5	OPO4	LAG6	5	41.1916	23.4137	0.1533	-420.64	4171.71	0.9245	0.0025
F5	SIO2	LAG0	4	13.818	77.1003	0.8692	1.90602	3.71035	0.6429	0.0809
F5	SIO2	LAG1	5	95.8671	45.7295	0.1041	-2.4915	2.25247	0.3307	0.2342
F5	SIO2	LAG2	5	52.9852	24.0481	0.0923	-0.8204	1.35856	0.5785	0.0836
F5	SIO2	LAG3	5	51.0972	45.0824	0.3204	-0.3721	2.33134	0.8809	0.0063
F5	SIO2	LAG4	5	6.07682	32.7164	0.8617	2.06482	1.6928	0.2896	0.2711
F5	SIO2	LAG5	4	51.1045	35.0525	0.2409	-0.1993	1.89487	0.9229	0.0037
F5	SIO2	LAG6	5	3.28862	33.0698	0.9256	1.94098	1.71014	0.3198	0.2436
F5	SO4	LAG0	5	9.22739	30.3394	0.7762	0.6667	0.51677	0.2665	0.2938
F5	SO4	LAG1	5	69.5116	20.9267	0.0293	-0.5031	0.40689	0.2839	0.2765
F5	SO4	LAG2	5	45.1544	37.784	0.2981	-0.1007	0.66017	0.8862	0.0058
F5	SO4	LAG3	5	38.5477	37.8432	0.366	0.09983	0.64391	0.8843	0.006
F5	SO4	LAG4	5	28.1315	20.6746	0.2452	0.37082	0.41252	0.4195	0.1681
F5	SO4	LAG5	4	-43.989	35.7671	0.3064	1.54907	0.59028	0.0787	0.6966
F5	SO4	LAG6	5	36.601	29.9978	0.2894	0.05813	0.55318	0.9214	0.0028
F5	TDKN	LAG0	4	-43.507	45.3685	0.4083	38.4108	18.8318	0.1341	0.581
F5	TDKN	LAG1	5	117.015	42.1497	0.05	-29.401	17.2028	0.1626	0.4221
F5	TDKN	LAG2	5	116.447	46.9105	0.068	-34.708	22.0934	0.1913	0.3816
F5	TDKN	LAG3	4	3.44982	73.9769	0.9657	14.1802	30.2262	0.671	0.0683
F5	TDKN	LAG4	5	30.4744	37.4691	0.4617	6.25828	16.3606	0.7215	0.0353
F5	TDKN	LAG5	4	28.4907	55.4805	0.643	6.45887	26.3239	0.822	0.0197
F5	TDKN	LAG6	4	-1.5543	57.6301	0.9802	19.0149	23.3414	0.4749	0.1811
F5	TDPO4	LAG0	5	89.3217	79.9056	0.3262	-7145	13196	0.6169	0.0683
F5	TDPO4	LAG1	5	-1.1369	33.571	0.9746	5598.66	3805.23	0.2152	0.3511
F5	TDPO4	LAG2	5	50.5265	28.0143	0.1456	-141.08	3524.81	0.97	0.0004
F5	TDPO4	LAG3	5	154.793	64.6336	0.0748	-18443	10673.9	0.1591	0.4274
F5	TDPO4	LAG4	5	36.4194	39.0058	0.4033	926.271	4474.27	0.8461	0.0106
F5	TDPO4	LAG5	5	20.6475	30.1236	0.5307	3504.34	3790.21	0.4075	0.1761
F5	TDPO4	LAG6	5	65.49	54.9091	0.2989	-4710	9835.56	0.657	0.0542
F5	TDSCU	LAG0	4	64.9824	18.6566	0.04	-10.137	13.5778	0.5095	0.1567
F5	TDSCU	LAG1	5	-2.4868	28.6166	0.9349	70.8739	39.6518	0.1484	0.444
F5	TDSCU	LAG2	6	31.4752	9.728	0.0231	9.31272	4.76436	0.108	0.4332

F5	TDSCU	LAG3	5	8.46397	10.7578	0.4754	31.1566	8.15546	0.0188	0.7849
F5	TDSCU	LAG4	5	96.7759	40.6301	0.0758	-73.568	55.1834	0.2533	0.3076
F5	TDSCU	LAG5	5	60.9251	11.6959	0.0065	-9.0867	5.31784	0.1627	0.4219
F5	TDSCU	LAG6	5	60.1396	16.0591	0.02	-17.745	12.1132	0.2168	0.3492
F5	TDSFE	LAG0	4	-104.42	93.0784	0.3436	18.0863	10.8423	0.1939	0.4812
F5	TDSFE	LAG1	4	23.7098	42.3899	0.615	2.77118	4.26884	0.5625	0.1232
F5	TDSFE	LAG2	3	80.1605	49.7959	0.2487	-3.7336	6.06434	0.6008	0.1593
F5	TDSFE	LAG3	3	237.554	93.4771	0.1262	-21.603	10.7714	0.1827	0.6679
F5	TDSFE	LAG4	4	52.6204	15.783	0.0446	-0.1485	0.21873	0.5459	0.1332
F5	TDSFE	LAG5	2	-18.806	11.3763	0.3463	8.06492	1.3535	0.1059	0.9726
F5	TDSFE	LAG6	3	-181.31	25.5654	0.0193	26.6884	3.06387	0.0129	0.9743
F5	TDSZN	LAG0	4	62.9258	22.6996	0.0694	-3.7767	4.38498	0.4524	0.1982
F5	TDSZN	LAG1	3	18.44	34.0777	0.6426	5.03295	7.11304	0.5526	0.2002
F5	TDSZN	LAG2	5	46.7959	30.4376	0.199	-0.7712	9.54141	0.9395	0.0016
F5	TDSZN	LAG3	4	13.9182	8.56894	0.2028	6.62914	1.83199	0.0363	0.8136
F5	TDSZN	LAG4	2	67.9096	42.6259	0.3568	-7.0965	9.49589	0.5914	0.3584
F5	TDSZN	LAG5	4	37.5549	33.4457	0.3433	1.10457	9.77806	0.9172	0.0042
F5	TDSZN	LAG6	3	65.047	18.0964	0.0694	-5.6752	3.51901	0.2481	0.5653
F5	TKN	LAG0	4	-16.429	77.7648	0.8462	27.8043	30.8795	0.4343	0.2128
F5	TKN	LAG1	4	126.476	63.3623	0.1399	-35.62	27.8291	0.2906	0.3532
F5	TKN	LAG2	5	133.462	40.9924	0.0312	-41.226	18.5818	0.0908	0.5517
F5	TKN	LAG3	4	127.749	105.333	0.312	-32.196	41.8265	0.4975	0.1649
F5	TKN	LAG4	4	13.9449	39.1575	0.7453	12.0104	18.3694	0.5599	0.1247
F5	TKN	LAG5	4	38.7816	58.2472	0.5532	1.4219	26.9018	0.9612	0.0009
F5	TKN	LAG6	4	249.497	107.904	0.1038	-86.781	44.8355	0.1484	0.5553
F5	TPO4	LAG0	6	14.1786	40.9337	0.7432	3055.94	4050.2	0.4845	0.1022
F5	TPO4	LAG1	6	65.9706	31.7288	0.0922	-1896	2659.95	0.5078	0.0922
F5	TPO4	LAG2	5	15.8463	19.3871	0.4596	2034.74	1512.34	0.2497	0.3116
F5	TPO4	LAG3	6	28.8833	51.8813	0.6017	1498.99	4959.59	0.7746	0.0179
F5	TPO4	LAG4	6	21.1206	27.5221	0.4775	2107.35	2368.73	0.4144	0.1367
F5	TPO4	LAG5	5	49.1119	28.1322	0.1558	-316.8	1771.58	0.8668	0.0079
F5	TPO4	LAG6	6	114.157	37.9614	0.0299	-7191	3834.68	0.1196	0.4129

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
U3	AGP	LAG0	3	42.765	72.8878	0.6168	169.535	286.511	0.614	0.149
U3	AGP	LAG2	3	91.7216	12.1981	0.0172	-14.372	7.28767	0.1874	0.6604
U3	AGP	LAG4	4	94.2085	30.313	0.053	-44.162	58.0226	0.5019	0.1618
U3	AGP	LAG5	3	110.115	15.7727	0.0199	-16.712	9.44067	0.2187	0.6104
U3	AGP	LAG6	3	58.0205	13.4503	0.0498	17.2267	7.76427	0.1567	0.7111
U3	ALK	LAG0	9	-21.247	113.76	0.8565	0.52912	0.48587	0.3079	0.1291
U3	ALK	LAG1	8	180.563	117.622	0.1686	-0.3728	0.52603	0.5014	0.067
U3	ALK	LAG2	9	158.174	102.995	0.1632	-0.2918	0.46179	0.5451	0.0475
U3	ALK	LAG3	9	24.3746	140.536	0.8666	0.33506	0.60331	0.5938	0.0371
U3	ALK	LAG4	9	-0.7753	92.0592	0.9935	0.45657	0.40009	0.2868	0.14
U3	ALK	LAG5	9	9.50579	91.222	0.9196	0.40764	0.39298	0.3299	0.1186
U3	ALK	LAG6	9	-46.955	162.043	0.7794	0.61171	0.68858	0.4003	0.0898
U3	CA	LAG0	9	-117.27	129.674	0.3922	3.19504	1.88106	0.1278	0.265
U3	CA	LAG1	8	210.412	98.2469	0.0695	-1.7311	1.48226	0.2811	0.1631
U3	CA	LAG2	9	252.858	97.5194	0.032	-2.4128	1.45508	0.1359	0.2558
U3	CA	LAG3	9	55.7923	130.352	0.6799	0.68995	1.94113	0.7315	0.0155
U3	CA	LAG4	9	18.1506	84.6698	0.8356	1.31275	1.29046	0.3388	0.1145
U3	CA	LAG5	9	0.49385	90.1773	0.9958	1.51919	1.31867	0.2826	0.1423
U3	CA	LAG6	9	-143.51	129.02	0.2983	3.53627	1.88556	0.0976	0.3054
U3	CL	LAG0	9	6.1511	79.2422	0.94	0.6638	0.53768	0.252	0.16
U3	CL	LAG1	8	96.178	95.8789	0.3492	0.02369	0.73245	0.9751	0.0001
U3	CL	LAG2	9	112.486	107.852	0.3275	-0.1395	0.8284	0.8705	0.0035
U3	CL	LAG3	9	64.9877	98.4916	0.5279	0.26996	0.71017	0.7137	0.0177
U3	CL	LAG4	9	25.9419	65.5969	0.7028	0.56442	0.46432	0.2588	0.1559
U3	CL	LAG5	9	11.004	84.9978	0.9002	0.71766	0.65267	0.3035	0.1313
U3	CL	LAG6	9	190.708	98.0381	0.0876	-0.6752	0.67727	0.348	0.1105
U3	DOC	LAG0	9	-136.09	104.817	0.2303	5.80912	2.53645	0.0512	0.396
U3	DOC	LAG1	8	125.912	134.527	0.3804	-0.7431	3.66527	0.8451	0.0058
U3	DOC	LAG2	9	212.899	139.118	0.1645	-3.2541	3.78084	0.4145	0.0848
U3	DOC	LAG3	9	98.7794	110.438	0.3972	0.06946	2.85721	0.9812	0.0001
U3	DOC	LAG4	9	-7.1078	94.1804	0.9417	2.8481	2.408	0.2709	0.1488
U3	DOC	LAG5	9	-135.02	95.1084	0.1935	6.27196	2.48121	0.0354	0.444
U3	DOC	LAG6	9	89.5179	163.363	0.5987	0.1488	3.97091	0.971	0.0002
U3	K	LAG0	9	-26.291	102.374	0.8038	17.2692	13.6546	0.2416	0.1666
U3	K	LAG1	8	74.8898	128.186	0.5774	3.6773	19.0118	0.8521	0.0053
U3	K	LAG2	9	85.4457	96.9219	0.4037	1.3898	13.9992	0.9234	0.0012
U3	K	LAG3	9	19.9565	87.3001	0.8249	11.1253	11.5457	0.3635	0.104
U3	K	LAG4	9	-18.983	82.9311	0.8247	17.362	11.5932	0.1726	0.219
U3	K	LAG5	9	17.3586	89.5204	0.8511	12.2373	12.6378	0.3612	0.1049
U3	K	LAG6	9	26.3409	92.2274	0.7824	9.65864	12.4606	0.4606	0.0699
U3	MG	LAG0	9	-63.515	99.0598	0.5393	6.1187	3.62245	0.1297	0.2629
U3	MG	LAG1	8	138.167	100.438	0.2113	-1.6482	4.09941	0.6996	0.0226
U3	MG	LAG2	9	173.326	109.491	0.1521	-3.2949	4.49009	0.484	0.0631
U3	MG	LAG3	9	38.0738	122.284	0.7635	2.42741	4.60573	0.6125	0.0336
U3	MG	LAG4	9	9.64381	75.478	0.9015	3.70603	2.92741	0.2411	0.1669
U3	MG	LAG5	9	-26.3	94.2826	0.7874	5.17123	3.724	0.2024	0.1942
U3	MG	LAG6	9	112.3	123.463	0.3896	-0.6188	4.48195	0.8936	0.0024
U3	NA	LAG0	9	-16.826	86.8958	0.8513	1.18761	0.85475	0.2021	0.1944
U3	NA	LAG1	8	105.982	101.607	0.3316	-0.0793	1.14071	0.9465	0.0007

U3	NA	LAG2	9	146.536	109.599	0.218	-0.5912	1.22288	0.6417	0.0284
U3	NA	LAG3	9	52.4909	112.494	0.6532	0.52698	1.18684	0.6688	0.0241
U3	NA	LAG4	9	12.796	80.5105	0.8777	0.9936	0.87035	0.2866	0.1401
U3	NA	LAG5	9	-1.5498	100.802	0.9881	1.17717	1.12546	0.3262	0.1203
U3	NA	LAG6	9	213.705	112.893	0.095	-1.2025	1.12652	0.3169	0.1247
U3	NH4	LAG0	9	98.1683	26.466	0.006	21.999	126.701	0.8665	0.0038
U3	NH4	LAG1	8	-36.126	106.729	0.7449	4526.3	3482.56	0.2349	0.1944
U3	NH4	LAG2	8	107.532	29.8852	0.0088	-85.275	135.014	0.5477	0.0539
U3	NH4	LAG3	9	114.234	53.2035	0.0641	-312.15	1167.71	0.796	0.0089
U3	NH4	LAG4	8	93.4488	32.7871	0.0247	153.936	356.611	0.679	0.0259
U3	NH4	LAG5	9	98.233	27.4901	0.0073	26.6112	125.46	0.8373	0.0056
U3	NH4	LAG6	9	58.2052	58.8171	0.3514	697.179	1008.76	0.509	0.0563
U3	NOX	LAG0	4	87.217	25.5393	0.042	-336.33	687.745	0.6583	0.0738
U3	NOX	LAG1	2	816.55	324.084	0.2405	-94350	45985.9	0.2887	0.808
U3	NOX	LAG2	6	97.972	67.4627	0.2062	395.687	2771.03	0.892	0.0041
U3	NOX	LAG3	6	85.7119	61.7116	0.2235	2176.57	3646.35	0.5766	0.0665
U3	NOX	LAG4	3	161.212	121.179	0.3148	-4411.3	9307.68	0.6822	0.101
U3	NOX	LAG5	5	175.6	73.6303	0.0756	-2963.7	2834.38	0.3548	0.2147
U3	NOX	LAG6	3	227.621	92.3403	0.1326	-9160.9	6469.08	0.2924	0.5007
U3	OPO4	LAG0	5	-141.39	98.0412	0.2227	33486	15374.1	0.0949	0.5425
U3	OPO4	LAG1	3	148.534	48.0494	0.0906	-12784	9000.47	0.2914	0.5022
U3	OPO4	LAG2	4	103.469	36.6432	0.0665	-2629.7	3447.1	0.501	0.1625
U3	OPO4	LAG3	6	89.826	26.59	0.0197	-362.62	2763.63	0.9007	0.0034
U3	OPO4	LAG4	5	113.659	47.8404	0.0763	-5063	7777.82	0.5506	0.0958
U3	OPO4	LAG5	6	128.759	17.8853	0.0008	-5212.9	1638.32	0.0245	0.6694
U3	OPO4	LAG6	7	110.79	32.4529	0.0143	-4519.6	4411.17	0.3451	0.1489
U3	SIO2	LAG0	8	169.301	175.44	0.3667	-3.0839	8.58792	0.7301	0.0181
U3	SIO2	LAG1	8	178.504	87.0675	0.0795	-4.3596	4.58685	0.3735	0.1143
U3	SIO2	LAG2	9	221.667	95.9153	0.0496	-7.4643	5.49931	0.2117	0.1872
U3	SIO2	LAG3	9	113.189	84.4312	0.2169	-0.6318	4.35541	0.8882	0.0026
U3	SIO2	LAG4	9	86.2661	75.2631	0.2848	0.83965	3.97462	0.838	0.0055
U3	SIO2	LAG5	9	35.7053	71.9032	0.6328	3.89589	4.06091	0.3655	0.1032
U3	SIO2	LAG6	9	44.9826	175.767	0.8045	2.50452	8.62184	0.7788	0.0104
U3	SO4	LAG0	9	39.4425	74.7025	0.6118	0.98228	1.14965	0.4177	0.0836
U3	SO4	LAG1	8	143.208	61.2733	0.0521	-0.9813	1.24436	0.4562	0.0816
U3	SO4	LAG2	9	148.042	54.6706	0.0267	-1.0323	0.96778	0.3172	0.1245
U3	SO4	LAG3	9	69.3552	77.6068	0.3976	0.59242	1.3712	0.6771	0.0228
U3	SO4	LAG4	9	63.5508	48.2327	0.2241	0.83379	0.94523	0.4034	0.0886
U3	SO4	LAG5	9	53.736	52.4059	0.3352	0.94817	0.94801	0.3465	0.1111
U3	SO4	LAG6	9	97.2056	78.4282	0.2503	-0.0309	1.41516	0.9831	0.0001
U3	TDKN	LAG0	7	-111.77	162.158	0.5164	83.2493	62.7409	0.2328	0.2269
U3	TDKN	LAG1	8	110.102	138.216	0.4519	-4.9488	61.3704	0.938	0.0009
U3	TDKN	LAG2	8	237.547	112.567	0.0728	-57.704	46.2995	0.2527	0.1816
U3	TDKN	LAG3	7	187.286	41.8713	0.0042	-43.316	17.6466	0.0495	0.5011
U3	TDKN	LAG4	9	49.2944	105.531	0.6529	22.9562	45.4006	0.6267	0.031
U3	TDKN	LAG5	8	66.4788	126.717	0.616	13.9102	49.6218	0.7873	0.0111
U3	TDKN	LAG6	7	385.994	305.427	0.2532	-100.84	110.131	0.3952	0.1226
U3	TDPO4	LAG0	6	117.388	30.4455	0.0119	-5431.2	4495.94	0.2811	0.2259
U3	TDPO4	LAG1	4	114.887	287.996	0.7167	1277.5	61681.9	0.9848	0.0001
U3	TDPO4	LAG2	5	87.7555	94.084	0.4038	-1724.5	14634.1	0.9119	0.0035
U3	TDPO4	LAG3	6	136.746	42.9645	0.0245	-2476	2869.77	0.4277	0.1296
U3	TDPO4	LAG4	5	35.2889	23.6601	0.2101	6609.04	3643.61	0.1439	0.4513

U3	TDPO4	LAG5	6	123.337	43.6068	0.0367	-630.13	2982.89	0.841	0.0088
U3	TDPO4	LAG6	5	160.189	87.9169	0.1425	-10469	13539	0.4825	0.13
U3	TDSCU	LAG0	8	73.1589	108.408	0.5214	44.9719	140.462	0.7582	0.0144
U3	TDSCU	LAG1	8	55.9343	116.496	0.6458	78.0247	204.972	0.7147	0.0203
U3	TDSCU	LAG2	9	103.622	31.0702	0.0103	-6.0434	13.8799	0.6748	0.0231
U3	TDSCU	LAG3	9	108.21	62.5244	0.1218	-8.7133	74.4206	0.9097	0.0017
U3	TDSCU	LAG4	7	92.3319	187.772	0.6404	16.3844	324.354	0.9614	0.0004
U3	TDSCU	LAG5	9	58.0395	18.0115	0.0122	30.4701	8.08989	0.0055	0.6394
U3	TDSCU	LAG6	8	101.853	47.5818	0.0696	-6.3909	41.4773	0.8819	0.0034
U3	TDSFE	LAG0	7	107.279	67.4133	0.1626	-0.1038	4.93581	0.9839	0.0001
U3	TDSFE	LAG1	7	91.9123	87.0315	0.3316	1.03512	7.41429	0.8935	0.0032
U3	TDSFE	LAG2	5	165.26	77.69	0.1005	-3.3073	5.39961	0.5733	0.0857
U3	TDSFE	LAG3	5	195.951	148.276	0.2568	-6.9447	12.8385	0.6173	0.0682
U3	TDSFE	LAG4	5	150.181	109.878	0.2435	-3.1581	9.66327	0.7602	0.026
U3	TDSFE	LAG5	6	-70.178	64.51	0.3263	19.6167	6.49861	0.0295	0.6457
U3	TDSFE	LAG6	5	75.2798	165.485	0.6728	3.39849	16.3982	0.8459	0.0106
U3	TDSZN	LAG0	7	161.147	61.2021	0.0389	-24.637	25.5787	0.3726	0.1339
U3	TDSZN	LAG1	6	174.901	80.6493	0.0823	-30.699	32.397	0.3869	0.1522
U3	TDSZN	LAG2	6	144.61	75.2438	0.1127	-15.49	27.8522	0.6021	0.0583
U3	TDSZN	LAG3	6	122.45	57.4122	0.0861	-7.1158	18.4803	0.716	0.0288
U3	TDSZN	LAG4	6	162.943	111.858	0.205	-21.687	40.8485	0.6182	0.0534
U3	TDSZN	LAG5	7	67.3524	13.1668	0.0022	4.26358	2.12947	0.0921	0.4005
U3	TDSZN	LAG6	4	139.944	76.1601	0.1634	-13.26	22.8348	0.6022	0.101
U3	TKN	LAG0	7	-386.35	289.738	0.2308	185.08	108.46	0.1388	0.3267
U3	TKN	LAG1	7	109.826	133.306	0.4415	-1.6861	56.887	0.9773	0.0001
U3	TKN	LAG2	8	232.184	149.661	0.1647	-57.602	64.4969	0.4015	0.1023
U3	TKN	LAG3	8	148.777	153.619	0.3651	-17.101	63.1725	0.7944	0.0104
U3	TKN	LAG4	8	37.7123	117.252	0.7571	27.2209	49.054	0.5962	0.0421
U3	TKN	LAG5	8	-16.123	157.39	0.9213	48.9075	64.7477	0.4747	0.0754
U3	TKN	LAG6	8	725.376	299.286	0.0458	-238.47	113.863	0.0745	0.3852
U3	TPO4	LAG0	8	124.664	92.1783	0.2183	-3279.1	11365.5	0.7813	0.0118
U3	TPO4	LAG1	9	129.96	130.72	0.3492	-4569.6	16696	0.7913	0.0093
U3	TPO4	LAG2	7	195.904	112.735	0.1329	-12676	15923.2	0.4563	0.0955
U3	TPO4	LAG3	9	146.689	72.6141	0.078	-5327.5	8123.58	0.5304	0.051
U3	TPO4	LAG4	10	86.0054	38.3384	0.0516	963.077	2996.22	0.7552	0.0113
U3	TPO4	LAG5	8	108.776	30.9632	0.0098	-899.58	1234.47	0.4898	0.0705
U3	TPO4	LAG6	9	119.955	70.3664	0.1266	-2650.1	7204.29	0.7225	0.0166

SURFACE WATER
MOSQUITOFISH THg vs LOG Y
BY STATION

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F1	LAGP	LAG0	2	5.20722	1.23567	0.1483	0.49801	0.82297	0.6536	0.268
F1	LAGP	LAG2	5	6.99209	1.27872	0.0054	0.80162	1.10914	0.5098	0.1155
F1	LAGP	LAG4	3	12.9046	5.94675	0.1622	-2.5507	2.3802	0.3961	0.3647
F1	LAGP	LAG5	3	31.581	16.1201	0.1892	-9.3275	9.22875	0.4186	0.3381
F1	LAGP	LAG6	3	6.39767	1.56543	0.055	0.30723	0.74392	0.7197	0.0786
F1	LALK	LAG0	6	240.83	291.22	0.4459	-38.644	51.081	0.4834	0.1027
F1	LALK	LAG1	9	4.38448	144.396	0.9765	1.17358	25.4686	0.9644	0.0003
F1	LALK	LAG2	10	170.059	165.266	0.3303	-27.393	29.233	0.3732	0.0889
F1	LALK	LAG3	7	-751.56	327.636	0.0616	133.201	56.6006	0.0568	0.48
F1	LALK	LAG4	8	4.80699	170.107	0.9782	2.25633	29.7995	0.9418	0.0008
F1	LALK	LAG5	8	-3.8707	152.89	0.9805	2.73731	26.6571	0.9211	0.0015
F1	LALK	LAG6	8	-63.412	281.268	0.8281	14.0489	49.1793	0.7834	0.0115
F1	LCA	LAG0	6	34.7921	255.786	0.8971	-3.141	56.7033	0.958	0.0006
F1	LCA	LAG1	9	4.75174	108.454	0.9661	1.40635	24.251	0.9552	0.0004
F1	LCA	LAG2	10	193.349	132.358	0.1781	-39.953	29.6709	0.2111	0.1677
F1	LCA	LAG3	7	-237.31	351.57	0.5248	55.9432	76.6122	0.4928	0.0816
F1	LCA	LAG4	8	-30.874	162.166	0.8544	10.8779	36.2939	0.7731	0.0127
F1	LCA	LAG5	8	22.5274	131.285	0.8686	-2.3707	29.0325	0.9372	0.001
F1	LCA	LAG6	8	-261.84	219.751	0.2723	62.0194	48.867	0.245	0.1871
F1	LCL	LAG0	6	51.8804	197.827	0.8036	-6.1762	39.051	0.8805	0.005
F1	LCL	LAG1	9	-126.93	124.823	0.339	27.3663	24.74	0.3008	0.1327
F1	LCL	LAG2	10	216.913	190.851	0.2851	-39.649	37.5139	0.3181	0.1104
F1	LCL	LAG3	7	-387.61	189.813	0.0872	79.3715	36.9986	0.0756	0.4341
F1	LCL	LAG4	8	69.8048	146.185	0.6475	-10.235	28.6593	0.7315	0.0179
F1	LCL	LAG5	8	1.28167	99.8527	0.9901	2.06165	19.5057	0.9188	0.0016
F1	LCL	LAG6	8	190.939	180.502	0.3253	-34.347	35.5928	0.3667	0.1174
F1	LDOC	LAG0	8	-183.17	186.059	0.3577	52.8889	48.9783	0.316	0.1428
F1	LDOC	LAG1	9	17.5219	136.542	0.9011	-1.7284	36.3464	0.9632	0.0003
F1	LDOC	LAG2	10	360.235	162.803	0.0542	-90.985	42.9209	0.0631	0.333
F1	LDOC	LAG3	8	-112.26	89.6758	0.2509	34.9739	24.0743	0.1896	0.2317
F1	LDOC	LAG4	10	106.66	85.8216	0.2453	-24.426	22.8874	0.3137	0.1123
F1	LDOC	LAG5	10	147.505	124.192	0.2653	-34.439	32.3131	0.3143	0.1121
F1	LDOC	LAG6	8	-72.794	143.259	0.627	24.0727	38.3898	0.5505	0.0532
F1	LK	LAG0	6	41.3035	93.1741	0.6761	-10.575	47.389	0.8322	0.0099
F1	LK	LAG1	9	30.5561	38.0231	0.4448	-10.11	19.5087	0.6183	0.0325
F1	LK	LAG2	10	59.6277	34.1027	0.1143	-23.346	17.685	0.2194	0.1622
F1	LK	LAG3	7	154.654	75.9396	0.0879	-66.602	37.2121	0.1237	0.3481
F1	LK	LAG4	8	-59.27	60.6431	0.361	38.7738	30.3487	0.2421	0.1891
F1	LK	LAG5	8	2.25203	35.957	0.9518	4.67507	17.3426	0.7953	0.0103
F1	LK	LAG6	8	11.6453	78.082	0.8856	2.47262	36.5178	0.9479	0.0007
F1	LMG	LAG0	6	88.9542	178.773	0.6399	-20.049	52.3792	0.7176	0.0285
F1	LMG	LAG1	9	-0.2968	73.2748	0.9969	3.38316	21.8229	0.8806	0.003
F1	LMG	LAG2	10	143.992	109.558	0.2213	-38.539	32.7593	0.2696	0.1333
F1	LMG	LAG3	7	-227.77	217.419	0.3352	71.3491	62.734	0.2988	0.1774
F1	LMG	LAG4	8	-23.181	119.334	0.8515	12.2162	35.607	0.7416	0.0165
F1	LMG	LAG5	8	5.69638	81.2041	0.946	1.79952	23.811	0.9419	0.0008

F1	LMG	LAG6	8	-145.55	163.942	0.4041	47.8402	48.2288	0.3543	0.1232
F1	LNA	LAG0	6	124.541	196.074	0.5532	-22.246	41.9249	0.6184	0.0533
F1	LNA	LAG1	9	-108.02	118.758	0.3896	25.4779	25.3933	0.3451	0.1118
F1	LNA	LAG2	10	151.693	162.7	0.3755	-29.178	34.7809	0.4232	0.0725
F1	LNA	LAG3	7	-328.9	169.747	0.1008	73.3686	35.7352	0.0859	0.4126
F1	LNA	LAG4	8	59.4016	133.82	0.6705	-8.8628	28.3735	0.7639	0.0137
F1	LNA	LAG5	8	7.38514	93.2023	0.9391	0.94111	19.7505	0.9633	0.0003
F1	LNA	LAG6	8	209.414	190.062	0.307	-41.019	40.4657	0.3445	0.128
F1	LNH4	LAG0	8	40.0802	36.4159	0.3075	8.15447	12.9026	0.5475	0.054
F1	LNH4	LAG1	9	-19.017	51.9201	0.7237	-9.1967	15.8113	0.5768	0.0406
F1	LNH4	LAG2	9	-14.247	49.7563	0.7819	-10.069	16.32	0.5544	0.0454
F1	LNH4	LAG3	8	43.7764	36.4126	0.2684	8.96553	12.2094	0.4866	0.0715
F1	LNH4	LAG4	9	0.31417	21.6073	0.9888	-5.785	7.61538	0.4693	0.0673
F1	LNH4	LAG5	10	21.3039	29.2173	0.4844	2.39965	11.3908	0.8378	0.0049
F1	LNH4	LAG6	8	0.49451	20.4866	0.9814	-6.3478	7.35382	0.4166	0.0962
F1	LNOX	LAG0	6	13.4205	33.3492	0.704	-0.1501	7.7672	0.9853	0.0001
F1	LNOX	LAG1	3	6.23607	84.0979	0.9476	-2.8426	18.2344	0.8904	0.012
F1	LNOX	LAG2	4	15.5518	48.7567	0.7707	-0.3635	12.0886	0.9779	0.0003
F1	LNOX	LAG3	6	65.8977	47.3936	0.2231	12.0898	10.8463	0.3157	0.199
F1	LNOX	LAG4	3	-16.554	159.789	0.9269	-6.8838	32.7077	0.8528	0.0217
F1	LNOX	LAG5	6	-69.418	66.9839	0.3475	-19.963	14.8207	0.2358	0.2663
F1	LNOX	LAG6	3	151.897	306.882	0.6697	27.9263	63.5347	0.7032	0.0881
F1	LOPO4	LAG0	8	30.4827	30.7637	0.3548	3.4154	7.66541	0.6694	0.0276
F1	LOPO4	LAG1	10	18.6866	31.0159	0.5617	0.90423	8.10444	0.9136	0.0014
F1	LOPO4	LAG2	7	12.8872	28.2273	0.6641	0.17715	7.68165	0.9823	0.0001
F1	LOPO4	LAG3	10	12.7954	27.2295	0.6496	-0.6976	7.35344	0.9265	0.001
F1	LOPO4	LAG4	8	17.0117	27.5216	0.5561	-0.2453	7.41578	0.9745	0.0002
F1	LOPO4	LAG5	8	-13.484	14.0593	0.3695	-7.7616	3.97994	0.0921	0.352
F1	LOPO4	LAG6	9	12.8299	22.9211	0.591	-1.1057	6.93169	0.8772	0.0032
F1	LSIO2	LAG0	5	-130.4	304.867	0.6909	49.5388	98.0619	0.64	0.06
F1	LSIO2	LAG1	9	16.6548	61.8469	0.7945	-1.8765	20.5719	0.9296	0.001
F1	LSIO2	LAG2	10	223.084	33.5006	<.0001	-70.033	11.2511	0.0002	0.8115
F1	LSIO2	LAG3	7	-29.146	192.45	0.8846	15.9134	63.1009	0.8093	0.0105
F1	LSIO2	LAG4	8	-2.5288	80.7788	0.9759	6.87348	27.3536	0.8088	0.0089
F1	LSIO2	LAG5	8	-10.343	80.6311	0.9015	7.40959	26.8901	0.7908	0.0107
F1	LSIO2	LAG6	8	-195.84	152.7	0.2405	69.4049	49.7619	0.2058	0.2175
F1	LSO4	LAG0	6	-6.876	66.7588	0.922	7.12939	17.1044	0.6941	0.0336
F1	LSO4	LAG1	9	-0.5345	46.3418	0.9911	2.93449	11.6803	0.808	0.0078
F1	LSO4	LAG2	10	49.9887	61.744	0.439	-9.0403	16.0058	0.586	0.0342
F1	LSO4	LAG3	7	125.807	82.4252	0.1778	-26.206	20.1969	0.2421	0.2191
F1	LSO4	LAG4	8	-121.42	76.2602	0.1554	36.9608	20.191	0.1099	0.3237
F1	LSO4	LAG5	8	9.93805	53.4432	0.8578	0.49743	14.0599	0.9728	0.0002
F1	LSO4	LAG6	8	-102.23	90.3704	0.2952	30.0979	22.7582	0.2276	0.1999
F1	LTDKN	LAG0	6	12.6976	36.599	0.7428	0.0131	34.7166	0.9997	0
F1	LTDKN	LAG1	9	26.2346	27.6947	0.3712	-15.563	27.8588	0.5917	0.0375
F1	LTDKN	LAG2	9	96.1547	36.6992	0.0306	-81.881	37.2097	0.0589	0.3771
F1	LTDKN	LAG3	7	-26.382	27.0109	0.3664	42.5773	28.5011	0.1858	0.2711
F1	LTDKN	LAG4	10	21.4806	27.0208	0.4471	-6.5256	27.7063	0.8191	0.0061
F1	LTDKN	LAG5	8	67.3533	29.9174	0.0591	-48.645	28.6292	0.1331	0.292
F1	LTDKN	LAG6	8	9.68276	52.2674	0.8583	6.94462	49.6687	0.8927	0.0028
F1	LTDPO4	LAG0	6	87.7724	48.4047	0.1295	19.7874	14.0375	0.2177	0.2844
F1	LTDPO4	LAG1	9	-17.417	29.1424	0.5666	-8.7539	8.836	0.3508	0.1093

F1	LTDP04	LAG2	8	10.9691	31.1643	0.7352	-0.3709	9.58524	0.9702	0.0002
F1	LTDP04	LAG3	8	33.4753	28.6896	0.2815	4.77013	8.31769	0.5843	0.0449
F1	LTDP04	LAG4	7	6.74209	28.0211	0.8179	-4.5734	9.58967	0.6503	0.0365
F1	LTDP04	LAG5	8	-14.383	16.8956	0.4228	-9.5595	5.89053	0.1486	0.2734
F1	LTDP04	LAG6	7	32.243	29.4563	0.3157	4.82716	9.76507	0.6386	0.0391
F1	LTDS04	LAG0	5	23.441	11.6376	0.1142	-6.7485	27.5881	0.8188	0.0147
F1	LTDS04	LAG1	8	14.6261	3.38402	0.0035	32.1692	8.25958	0.0059	0.6842
F1	LTDS04	LAG2	9	11.8879	7.09167	0.1322	3.43144	19.1905	0.8625	0.004
F1	LTDS04	LAG3	7	19.7825	7.8405	0.0451	-16.164	12.7468	0.2518	0.2114
F1	LTDS04	LAG4	6	10.616	13.7213	0.4741	-36.69	35.8227	0.3527	0.1734
F1	LTDS04	LAG5	8	11.701	9.7549	0.2694	-0.2784	18.6681	0.9885	0
F1	LTDS04	LAG6	7	24.0774	9.18514	0.0395	22.5835	16.4065	0.2178	0.24
F1	LTDSFE	LAG0	5	34.8225	41.7171	0.4508	-8.5592	17.0881	0.6428	0.059
F1	LTDSFE	LAG1	8	25.3135	37.5525	0.5219	-5.082	13.8201	0.7239	0.019
F1	LTDSFE	LAG2	7	27.3083	33.9568	0.452	-5.9338	13.3838	0.673	0.0317
F1	LTDSFE	LAG3	6	48.0798	37.3645	0.2545	-13.224	14.1633	0.3933	0.1485
F1	LTDSFE	LAG4	7	-6.3527	44.8281	0.8919	9.83762	16.8808	0.5813	0.0536
F1	LTDSFE	LAG5	6	-16.547	30.0426	0.6055	11.741	11.3073	0.3467	0.1774
F1	LTDSFE	LAG6	8	-65.422	30.9718	0.0725	31.484	11.648	0.0305	0.5107
F1	LTDSZN	LAG0	4	17.4817	29.4246	0.5943	-1.3224	22.8584	0.9575	0.0011
F1	LTDSZN	LAG1	7	-4.3074	5.31795	0.4489	21.4801	5.32329	0.0068	0.7307
F1	LTDSZN	LAG2	3	18.35	35.5281	0.6569	0.06515	29.9259	0.9985	0
F1	LTDSZN	LAG3	4	24.3928	27.0335	0.4334	-6.4576	21.5107	0.7836	0.0292
F1	LTDSZN	LAG4	4	-0.2716	33.4641	0.994	28.6925	33.1462	0.4504	0.1999
F1	LTDSZN	LAG5	4	38.7812	19.4624	0.1403	-30.269	22.0398	0.2633	0.386
F1	LTDSZN	LAG6	6	49.9895	23.5985	0.0877	-31.504	22.7953	0.2255	0.2764
F1	LTKN	LAG0	8	12.0629	38.8432	0.7652	5.4959	37.839	0.8886	0.003
F1	LTKN	LAG1	8	44.9735	27.1948	0.1422	-33.036	26.5071	0.2527	0.1816
F1	LTKN	LAG2	9	150.935	52.2768	0.0203	-132.32	51.1288	0.0322	0.4557
F1	LTKN	LAG3	8	-42.071	27.4409	0.1691	60.6054	27.1712	0.0609	0.4155
F1	LTKN	LAG4	9	29.415	27.3387	0.3133	-13.201	26.6777	0.634	0.0297
F1	LTKN	LAG5	10	67.6279	24.1692	0.0208	-49.221	22.1939	0.0538	0.3534
F1	LTKN	LAG6	8	-7.0218	40.4462	0.8671	22.2513	36.9033	0.5655	0.0494
F1	LTPO4	LAG0	9	38.1848	24.353	0.1555	7.31805	7.65671	0.3672	0.1025
F1	LTPO4	LAG1	10	22.6117	32.1131	0.4992	2.63571	11.3416	0.8214	0.006
F1	LTPO4	LAG2	8	34.4786	33.0225	0.3312	6.05708	11.601	0.6177	0.0375
F1	LTPO4	LAG3	10	15.7366	24.845	0.5422	0.14699	8.13504	0.986	0
F1	LTPO4	LAG4	9	7.38938	20.8897	0.7327	-3.5253	7.66414	0.6578	0.0258
F1	LTPO4	LAG5	8	-28.974	15.3466	0.101	-17.12	5.38598	0.0155	0.5907
F1	LTPO4	LAG6	9	1.21866	19.268	0.9511	-5.8263	6.95347	0.4264	0.0807

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F2	LAGP	LAG1	2	40.1126	13.6602	0.209	-28.562	11.996	0.2531	0.85
F2	LAGP	LAG2	2	13.2545	3.45579	0.1624	-6.1381	3.02226	0.2913	0.8049
F2	LAGP	LAG4	2	10.5734	8.11953	0.4169	3.84078	6.01294	0.6381	0.2898
F2	LAGP	LAG6	2	12.4123	8.81143	0.393	-1.1776	6.62857	0.8881	0.0306
F2	LALK	LAG0	7	81.3283	282.829	0.7834	-10.001	50.2968	0.849	0.0065
F2	LALK	LAG1	7	-213.38	255.39	0.4354	42.2335	45.1809	0.386	0.1271
F2	LALK	LAG2	7	552.24	300.472	0.1157	-95.564	54.4491	0.1298	0.3392
F2	LALK	LAG3	7	135.061	252.976	0.6126	-19.659	45.1961	0.6788	0.0306
F2	LALK	LAG4	7	-304.8	253.165	0.2739	59.4827	45.6049	0.2399	0.2209
F2	LALK	LAG5	6	-353.61	301.38	0.2935	68.6241	54.1944	0.2612	0.2428
F2	LALK	LAG6	7	-55.13	281.002	0.8509	14.1698	49.5638	0.7846	0.0134
F2	LCA	LAG0	7	-94.251	325.437	0.7819	27.0247	73.6201	0.7262	0.022
F2	LCA	LAG1	7	19.9253	229.353	0.9336	1.18081	51.8924	0.9826	0.0001
F2	LCA	LAG2	7	387.264	201.046	0.1024	-84.23	46.7124	0.1214	0.3515
F2	LCA	LAG3	7	-61.242	287.293	0.8383	19.5853	65.087	0.7736	0.0149
F2	LCA	LAG4	7	-278.12	190.24	0.1941	69.8616	43.7678	0.1616	0.2981
F2	LCA	LAG5	6	-115.73	219.18	0.6201	32.9538	50.2601	0.541	0.0792
F2	LCA	LAG6	7	-159.44	303.995	0.6187	41.1454	67.7181	0.5657	0.058
F2	LCL	LAG0	7	92.341	280.798	0.7534	-13.341	55.6957	0.8187	0.0095
F2	LCL	LAG1	7	-85.05	239.876	0.735	22.2301	48.3393	0.6618	0.034
F2	LCL	LAG2	7	255.42	184.67	0.2159	-46.692	37.385	0.2582	0.2063
F2	LCL	LAG3	7	-72.74	235.806	0.7682	19.553	47.0512	0.6922	0.028
F2	LCL	LAG4	7	-205.38	178	0.2925	47.4266	36.5614	0.2422	0.219
F2	LCL	LAG5	6	-310.19	221.54	0.2204	69.3425	45.4044	0.1872	0.3181
F2	LCL	LAG6	7	350.955	237.593	0.1901	-64.013	46.6369	0.219	0.239
F2	LDOC	LAG0	7	-85.601	363.219	0.8215	29.1666	95.6173	0.7706	0.0153
F2	LDOC	LAG1	7	-58.613	242.531	0.8171	22.5012	65.0873	0.7414	0.0195
F2	LDOC	LAG2	7	398.138	184.536	0.0743	-101.22	50.0187	0.0894	0.4057
F2	LDOC	LAG3	7	-59.619	238.663	0.8111	22.8277	64.2045	0.7343	0.0206
F2	LDOC	LAG4	7	-53.022	202.512	0.8022	21.59	55.8499	0.7124	0.0243
F2	LDOC	LAG5	6	-386.14	223.025	0.1439	110.848	59.6711	0.1223	0.4083
F2	LDOC	LAG6	7	-114.43	248.747	0.6617	37.1905	66.2131	0.5947	0.05
F2	LK	LAG0	7	-250.21	85.1479	0.026	141.109	43.488	0.0176	0.637
F2	LK	LAG1	7	120.027	47.4357	0.0447	-50.526	24.8052	0.0878	0.4088
F2	LK	LAG2	7	116.919	50.3398	0.0592	-47.698	25.7136	0.113	0.3645
F2	LK	LAG3	7	92.535	127.153	0.4942	-34.986	65.7406	0.6137	0.0451
F2	LK	LAG4	7	-53.775	53.4242	0.353	42.5759	28.3238	0.1835	0.2736
F2	LK	LAG5	6	-13.832	69.8668	0.8509	21.4686	35.4777	0.5715	0.0682
F2	LK	LAG6	7	-63.49	112.126	0.5918	43.6204	54.9166	0.4573	0.0951
F2	LMG	LAG0	7	15.7511	196.735	0.9388	2.82979	59.2077	0.9634	0.0004
F2	LMG	LAG1	7	29.9749	137.99	0.8352	-1.4702	41.7901	0.9731	0.0002
F2	LMG	LAG2	7	250.177	126.002	0.0943	-70.896	39.5849	0.1235	0.3484
F2	LMG	LAG3	7	-52.021	164.585	0.7627	23.5237	50.0571	0.655	0.0355
F2	LMG	LAG4	7	-150	109.372	0.2193	54.6993	34.0233	0.159	0.3011
F2	LMG	LAG5	6	-117.24	130.85	0.4113	44.7897	40.2593	0.3165	0.1984
F2	LMG	LAG6	7	-27.365	207.788	0.8995	15.3911	60.8185	0.8087	0.0106
F2	LNA	LAG0	7	119.884	240.023	0.6352	-20.427	51.6885	0.7064	0.0254
F2	LNA	LAG1	7	-96.568	222.582	0.6796	26.4959	48.394	0.6038	0.0476

F2	LNA	LAG2	7	235.638	165.033	0.2033	-46.336	36.2565	0.2485	0.214
F2	LNA	LAG3	7	-63.262	226.53	0.7894	19.1032	48.8904	0.7095	0.0248
F2	LNA	LAG4	7	-242.87	186.235	0.24	59.6643	41.3999	0.1996	0.2571
F2	LNA	LAG5	6	-265.25	210.303	0.2629	65.3303	46.8267	0.2218	0.2802
F2	LNA	LAG6	7	263.19	219.51	0.2757	-50.272	46.3021	0.3193	0.1642
F2	LNH4	LAG0	7	35.5418	35.3817	0.3539	3.78755	12.1764	0.7663	0.0159
F2	LNH4	LAG1	7	95.7782	33.7932	0.0298	21.8741	10.1101	0.0737	0.4383
F2	LNH4	LAG2	7	-17.283	49.8144	0.7405	-13.685	15.6768	0.4163	0.1127
F2	LNH4	LAG3	7	8.65213	43.9475	0.8504	-5.2736	13.5701	0.711	0.0246
F2	LNH4	LAG4	7	-142.13	154.889	0.3942	-47.17	43.5752	0.3206	0.1634
F2	LNH4	LAG5	6	21.9406	54.9745	0.7063	-1.8523	17.0577	0.9177	0.0024
F2	LNH4	LAG6	7	19.3682	44.3063	0.6773	-1.873	13.8812	0.8971	0.003
F2	LNOX	LAG0	3	-5.772	14.8247	0.7346	-4.2423	3.44888	0.3437	0.4307
F2	LNOX	LAG1	4	-4.0204	296.885	0.99	-7.7044	60.7767	0.9071	0.0053
F2	LNOX	LAG2	2	268.642	340.304	0.5746	46.9164	73.0909	0.6367	0.2918
F2	LNOX	LAG3	3	157.694	107.114	0.2788	24.9597	22.2948	0.3793	0.3852
F2	LNOX	LAG4	3	781.659	168.762	0.0436	162.061	35.9036	0.0457	0.9106
F2	LNOX	LAG5	1	17.3557			3.2056			1
F2	LNOX	LAG6	2	-79.576	70.5866	0.4619	-24.125	14.8578	0.3514	0.725
F2	LOPO4	LAG0	5	85.6388	26.3989	0.0316	17.0509	6.33308	0.0545	0.6444
F2	LOPO4	LAG1	4	87.0513	80.2685	0.3575	16.5345	20.5015	0.479	0.1782
F2	LOPO4	LAG2	5	-46.227	34.9713	0.2567	-20.068	8.70428	0.0824	0.5706
F2	LOPO4	LAG3	5	-41.559	67.8862	0.5735	-19.286	17.6861	0.3368	0.2292
F2	LOPO4	LAG4	5	139.14	46.463	0.0402	28.7336	11.165	0.0617	0.6235
F2	LOPO4	LAG5	6	3.10341	36.9971	0.9364	-4.0985	9.19285	0.6744	0.0382
F2	LOPO4	LAG6	5	75.4259	54.1231	0.2359	15.0424	14.57	0.3602	0.2104
F2	LSIO2	LAG0	6	186.003	276.24	0.5306	-52.615	91.974	0.592	0.0614
F2	LSIO2	LAG1	7	78.4034	68.9637	0.2989	-19.314	24.6813	0.4637	0.0926
F2	LSIO2	LAG2	7	186.579	38.6502	0.0029	-59.844	14.163	0.0055	0.7485
F2	LSIO2	LAG3	7	76.4901	143.693	0.6136	-18.007	50.2262	0.7322	0.021
F2	LSIO2	LAG4	7	-51.277	59.8073	0.4242	27.5593	21.249	0.2423	0.219
F2	LSIO2	LAG5	6	-116.36	74.1249	0.1773	51.0758	26.0372	0.1071	0.4349
F2	LSIO2	LAG6	7	-11.838	253.309	0.9642	12.0897	82.7357	0.8886	0.0035
F2	LSO4	LAG0	7	-81.044	73.9512	0.3151	28.4644	19.6419	0.1975	0.2593
F2	LSO4	LAG1	7	116.949	62.2102	0.1092	-25.163	16.8317	0.1855	0.2714
F2	LSO4	LAG2	7	93.9629	69.7892	0.2268	-19.236	19.2717	0.3567	0.1424
F2	LSO4	LAG3	7	-5.2878	101.657	0.9602	8.21464	27.2691	0.7734	0.0149
F2	LSO4	LAG4	7	-93.286	65.4953	0.2042	31.2399	17.1017	0.1175	0.3574
F2	LSO4	LAG5	6	-44.026	71.1386	0.5631	19.0851	18.6475	0.353	0.1732
F2	LSO4	LAG6	7	-78.088	136.356	0.5877	26.2086	34.5052	0.4763	0.0877
F2	LTDKN	LAG0	4	50.7806	62.5691	0.4764	-27.827	59.7205	0.673	0.0675
F2	LTDKN	LAG1	7	-2.1971	38.524	0.9564	29.5674	39.8934	0.4866	0.0839
F2	LTDKN	LAG2	6	93.5459	35.1213	0.0447	-81.322	42.1822	0.1118	0.4264
F2	LTDKN	LAG3	5	50.2275	48.9217	0.3626	-34.673	50.6263	0.531	0.105
F2	LTDKN	LAG4	7	2.87266	33.5184	0.9345	30.0931	42.7108	0.5075	0.0764
F2	LTDKN	LAG5	5	-19.068	52.0742	0.7328	55.414	58.6706	0.3984	0.1823
F2	LTDKN	LAG6	5	-9.1572	70.123	0.9024	37.855	64.631	0.5895	0.079
F2	LTDPO4	LAG0	6	67.8375	43.808	0.1822	13.3285	13.1212	0.3563	0.1711
F2	LTDPO4	LAG1	7	79.6655	62.431	0.2491	15.5458	17.5238	0.4092	0.116
F2	LTDPO4	LAG2	6	-6.9499	39.1151	0.8659	-7.9931	11.6562	0.5234	0.086
F2	LTDPO4	LAG3	6	-9.2601	70.6156	0.9008	-11.289	21.5141	0.6222	0.0522
F2	LTDPO4	LAG4	7	60.6982	76.9579	0.4603	10.1044	21.625	0.6568	0.0351

F2	LTDP04	LAG5	5	-20.028	43.2401	0.6673	-16.953	13.5442	0.2789	0.2814
F2	LTDP04	LAG6	6	67.1702	50.9742	0.2447	15.3517	15.8767	0.378	0.1575
F2	LTDS04	LAG0	6	28.3417	13.1634	0.0839	2.45854	20.4719	0.9091	0.0029
F2	LTDS04	LAG1	6	22.5407	27.4507	0.4489	-9.7799	44.9412	0.8363	0.0094
F2	LTDS04	LAG2	6	16.3231	10.8645	0.1933	-5.2517	17.5684	0.777	0.0176
F2	LTDS04	LAG3	7	21.1582	12.1667	0.1327	-13.256	16.8152	0.4605	0.0939
F2	LTDS04	LAG4	6	18.9591	18.5605	0.3539	-22.902	33.1766	0.5207	0.087
F2	LTDS04	LAG5	6	39.8831	16.7283	0.0628	32.3962	31.1311	0.3457	0.178
F2	LTDS04	LAG6	7	26.3973	11.3782	0.0595	10.1814	15.2583	0.5294	0.0691
F2	LTDSFE	LAG0	4	67.8231	95.5096	0.5289	-19.715	40.7577	0.6617	0.0723
F2	LTDSFE	LAG1	4	64.3907	74.494	0.451	-18.332	31.1442	0.5975	0.1035
F2	LTDSFE	LAG2	3	177.82	83.0491	0.1656	-69.292	37.8936	0.209	0.6257
F2	LTDSFE	LAG3	4	79.1364	86.7708	0.429	-24.389	37.3665	0.5605	0.1243
F2	LTDSFE	LAG4	3	62.3553	184.487	0.7675	-14.516	80.4781	0.8735	0.016
F2	LTDSFE	LAG5	3	29.9828	99.1292	0.7909	-3.0841	41.063	0.947	0.0028
F2	LTDSFE	LAG6	5	-150.46	41.8838	0.0229	73.4445	16.9924	0.0124	0.8236
F2	LTDSZN	LAG0	6	30.6606	26.5939	0.3011	-3.4112	22.3965	0.8849	0.0046
F2	LTDSZN	LAG1	4	11.9127	30.2431	0.72	11.5912	27.3262	0.7	0.0566
F2	LTDSZN	LAG2	5	56.6143	47.5312	0.2995	-19.147	29.5986	0.5529	0.0947
F2	LTDSZN	LAG3	6	10.0231	18.4034	0.6094	11.8463	20.0395	0.5801	0.0653
F2	LTDSZN	LAG4	5	34.0756	26.1191	0.262	-12.966	23.3375	0.6081	0.0716
F2	LTDSZN	LAG5	3	41.8886	67.5273	0.5983	-14.132	60.4085	0.8368	0.0266
F2	LTDSZN	LAG6	4	19.5711	28.2036	0.5376	2.51166	20.1896	0.9089	0.0051
F2	LTKN	LAG0	6	51.2313	73.1492	0.5149	-21.218	66.1619	0.7614	0.0202
F2	LTKN	LAG1	6	-0.373	33.9528	0.9917	32.7977	36.0623	0.4048	0.1419
F2	LTKN	LAG2	7	94.2947	26.1228	0.0112	-82.066	29.6206	0.0324	0.5613
F2	LTKN	LAG3	6	51.8388	60.3438	0.4296	-23.797	58.1775	0.6994	0.0324
F2	LTKN	LAG4	6	-13.729	42.9074	0.7619	53.1899	56.1284	0.3868	0.1523
F2	LTKN	LAG5	6	-3.3226	49.1255	0.9487	34.5145	52.741	0.5417	0.0789
F2	LTKN	LAG6	7	32.0636	63.1099	0.6295	-6.4027	57.3434	0.9147	0.0021
F2	LTPO4	LAG0	6	95.5565	44.5086	0.0846	24.6669	15.1114	0.1635	0.3476
F2	LTPO4	LAG1	7	47.1374	63.0283	0.4828	7.0194	19.772	0.7347	0.0206
F2	LTPO4	LAG2	6	-12.808	52.0561	0.8154	-12.466	16.5592	0.4855	0.1018
F2	LTPO4	LAG3	6	-94.597	71.1501	0.2411	-41.164	23.7876	0.1441	0.3746
F2	LTPO4	LAG4	7	41.1989	61.7168	0.5292	5.192	19.5973	0.7999	0.0116
F2	LTPO4	LAG5	6	-17.495	44.1317	0.7081	-15.859	15.0733	0.3409	0.1813
F2	LTPO4	LAG6	6	76.2453	61.0601	0.2671	20.2488	21.2476	0.3844	0.1537

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F3	LAGP	LAG1	1	221.461			110.436			1
F3	LAGP	LAG2	2	35.6038	17.3832	0.2891	7.93621	12.685	0.6441	0.2813
F3	LAGP	LAG4	2	14.3861	18.9221	0.5862	-6.7065	13.382	0.7042	0.2007
F3	LALK	LAG0	6	-74.734	296.548	0.8111	18.9679	53.8606	0.7391	0.0242
F3	LALK	LAG1	6	318.981	268.67	0.2885	-52.579	47.8635	0.322	0.1944
F3	LALK	LAG2	7	215.503	189.23	0.2982	-34.31	34.5673	0.3592	0.141
F3	LALK	LAG3	6	130.918	312.462	0.6926	-17.967	56.3359	0.7627	0.0199
F3	LALK	LAG4	7	-195.37	172.174	0.2998	40.109	30.9124	0.2421	0.2191
F3	LALK	LAG5	6	-101.97	193.415	0.6206	23.855	35.1802	0.5278	0.0842
F3	LALK	LAG6	6	-245.38	364.86	0.5311	48.4324	64.9949	0.4897	0.1
F3	LCA	LAG0	6	-165.82	261.14	0.5534	44.7135	59.7023	0.4876	0.1009
F3	LCA	LAG1	6	197.112	151.862	0.2509	-39.133	34.2798	0.3053	0.2068
F3	LCA	LAG2	7	289.027	123.08	0.0572	-61.171	28.7886	0.0778	0.4294
F3	LCA	LAG3	6	-58.363	264.874	0.8343	20.3155	59.9831	0.7486	0.0224
F3	LCA	LAG4	7	-188.22	117.403	0.16	49.5058	26.8604	0.1149	0.3615
F3	LCA	LAG5	6	-75.416	143.514	0.6217	24.1826	33.1615	0.4986	0.0961
F3	LCA	LAG6	6	-114.27	286.402	0.7064	31.2839	63.653	0.6439	0.0461
F3	LCL	LAG0	6	-22.758	203.388	0.9153	10.6182	41.1655	0.8067	0.0131
F3	LCL	LAG1	6	82.7555	369.221	0.8315	-11.843	74.3391	0.8797	0.0051
F3	LCL	LAG2	7	157.165	140.208	0.3052	-26.468	28.6509	0.3912	0.1245
F3	LCL	LAG3	6	-199.51	176.937	0.3107	46.5387	35.6455	0.2485	0.2542
F3	LCL	LAG4	7	-137.5	177.022	0.4668	33.8346	36.1939	0.386	0.1271
F3	LCL	LAG5	6	-94.876	168.638	0.598	25.531	34.6977	0.4949	0.0977
F3	LCL	LAG6	6	194.405	229.293	0.4352	-33.346	45.4817	0.4964	0.0971
F3	LDOC	LAG0	6	13.9723	100.34	0.8947	4.02532	25.6525	0.8814	0.0049
F3	LDOC	LAG1	6	107.89	174.133	0.5627	-22.524	46.6757	0.6498	0.0445
F3	LDOC	LAG2	7	283.507	98.3901	0.028	-70.518	27.0928	0.0405	0.5303
F3	LDOC	LAG3	6	-31.716	244.747	0.9019	17.007	66.0122	0.807	0.0131
F3	LDOC	LAG4	7	11.7107	77.255	0.8845	4.27091	20.3535	0.8407	0.0073
F3	LDOC	LAG5	6	-110.91	63.7741	0.1425	36.4934	16.5379	0.0784	0.4934
F3	LDOC	LAG6	6	-353.63	219.914	0.1687	101.803	58.8742	0.1443	0.3742
F3	LK	LAG0	6	-36.669	112.554	0.7578	34.0589	57.6184	0.5802	0.0653
F3	LK	LAG1	6	97.8792	52.8174	0.123	-37.221	26.3606	0.2171	0.2851
F3	LK	LAG2	7	71.9029	54.6588	0.2364	-23.479	28.8239	0.4464	0.0996
F3	LK	LAG3	6	-3.5021	97.8984	0.9728	17.5519	49.1893	0.7358	0.0248
F3	LK	LAG4	7	-69.399	37.0432	0.1101	50.5461	19.0402	0.0378	0.5401
F3	LK	LAG5	6	-11.757	60.8374	0.8544	21.0491	31.0446	0.5279	0.0842
F3	LK	LAG6	6	10.6658	159.727	0.9493	7.49573	75.8582	0.9251	0.0019
F3	LMG	LAG0	6	-0.7173	143.179	0.9962	9.39119	44.186	0.8401	0.009
F3	LMG	LAG1	6	142.049	109.848	0.2525	-35.616	33.0529	0.3305	0.1885
F3	LMG	LAG2	7	130.868	90.1224	0.1967	-32.971	28.7409	0.295	0.1799
F3	LMG	LAG3	6	-81.383	141.021	0.5889	34.4767	43.0768	0.4598	0.1136
F3	LMG	LAG4	7	-121.73	83.64	0.1958	46.1436	25.7239	0.123	0.3491
F3	LMG	LAG5	6	-35.372	86.8697	0.7007	20.161	27.0472	0.4896	0.1
F3	LMG	LAG6	6	-73.336	186.597	0.7105	29.5141	55.1402	0.6154	0.0542
F3	LNA	LAG0	6	-47.635	188.323	0.8104	17.0016	41.3798	0.6982	0.0327
F3	LNA	LAG1	6	218.804	312.187	0.5146	-42.303	67.7539	0.5598	0.0723
F3	LNA	LAG2	7	148.488	128.904	0.2932	-26.797	28.5783	0.3846	0.1278
F3	LNA	LAG3	6	-173.33	185.119	0.3921	44.6373	40.3462	0.3189	0.1967

F3	LNA	LAG4	7	-225.69	172.668	0.239	55.9175	38.0523	0.1921	0.2647
F3	LNA	LAG5	6	-75.768	157.305	0.6504	23.4253	35.1023	0.5341	0.0818
F3	LNA	LAG6	6	197.787	233.817	0.4362	-36.71	50.0522	0.4962	0.0971
F3	LNH4	LAG0	6	46.0184	99.9521	0.6646	4.49347	27.3207	0.8758	0.0054
F3	LNH4	LAG1	6	-627.48	176.62	0.0163	-178.84	48.4733	0.0142	0.7314
F3	LNH4	LAG2	7	-25.802	112.106	0.8256	-15.38	32.0647	0.6485	0.0369
F3	LNH4	LAG3	6	282.947	49.8143	0.0024	70.4632	13.9152	0.0039	0.8368
F3	LNH4	LAG4	7	113.651	124.37	0.396	22.6586	32.771	0.5151	0.0738
F3	LNH4	LAG5	6	-126.54	57.8779	0.0805	-42.778	15.8278	0.0426	0.5937
F3	LNH4	LAG6	6	-91.805	140.455	0.5422	-33.163	39.3203	0.4375	0.1245
F3	LNOX	LAG0	2	11.9352	1.71649	0.0909	1.57069	0.40808	0.1618	0.9368
F3	LNOX	LAG1	2	3.971	68.4558	0.9631	-2.4083	14.9218	0.8981	0.0254
F3	LNOX	LAG2	4	84.8228	105.858	0.4816	12.7468	25.5733	0.6524	0.0765
F3	LNOX	LAG3	2	53.1356	7.13545	0.085	1.67778	1.57174	0.4792	0.5326
F3	LNOX	LAG4	2	-326.08	96.6206	0.1834	-80.376	21.8639	0.1691	0.9311
F3	LNOX	LAG5	2	-154.13	75.7043	0.2907	-42.716	17.8759	0.2523	0.851
F3	LNOX	LAG6	2	15.1296	0.72802	0.0306	-0.9596	0.14682	0.0967	0.9771
F3	LOPO4	LAG0	5	67.5747	11.6173	0.0043	10.663	2.50884	0.0132	0.8187
F3	LOPO4	LAG1	4	47.2698	119.532	0.7189	5.60115	25.0009	0.8371	0.0165
F3	LOPO4	LAG2	5	-1.1384	33.2644	0.9743	-7.4263	7.43321	0.3743	0.1997
F3	LOPO4	LAG3	5	-113.85	115.196	0.3789	-31.635	24.8889	0.2726	0.2877
F3	LOPO4	LAG4	4	228.419	108.787	0.1266	43.6894	23.4471	0.1593	0.5365
F3	LOPO4	LAG5	6	35.2441	26.146	0.2355	2.89773	5.92774	0.6456	0.0456
F3	LOPO4	LAG6	4	53.7215	163.997	0.7648	5.98976	34.3996	0.8729	0.01
F3	LSIO2	LAG0	5	104.236	118.109	0.4273	-25.145	41.5104	0.5774	0.084
F3	LSIO2	LAG1	6	40.6396	41.5729	0.3732	-6.1558	15.0408	0.6993	0.0324
F3	LSIO2	LAG2	7	87.654	42.1247	0.0826	-24.418	16.9518	0.1998	0.257
F3	LSIO2	LAG3	6	94.3387	63.3658	0.1967	-23.218	23.1627	0.3622	0.1673
F3	LSIO2	LAG4	7	-11.918	31.0643	0.7145	15.1711	11.5333	0.2364	0.2238
F3	LSIO2	LAG5	6	-46.578	47.7813	0.3744	28.4856	17.7665	0.1698	0.3396
F3	LSIO2	LAG6	6	-152.45	116.385	0.2472	60.3874	39.2056	0.1841	0.3218
F3	LSO4	LAG0	6	-53.281	64.7468	0.448	21.7007	16.811	0.2532	0.25
F3	LSO4	LAG1	6	76.2028	51.5192	0.1992	-13.708	13.3731	0.3523	0.1737
F3	LSO4	LAG2	7	89.0318	51.7346	0.136	-16.829	14.0817	0.2771	0.1923
F3	LSO4	LAG3	6	29.7021	98.0208	0.7741	0.40872	24.9553	0.9876	0.0001
F3	LSO4	LAG4	7	-85.086	47.7873	0.1253	29.0995	12.2221	0.0547	0.4858
F3	LSO4	LAG5	6	-23.723	55.5932	0.6873	13.8693	14.4354	0.3808	0.1558
F3	LSO4	LAG6	6	-92.174	166.36	0.6034	29.1989	40.8996	0.5072	0.0925
F3	LTDKN	LAG0	3	-24.452	36.2448	0.5694	77.0218	47.6025	0.2471	0.5669
F3	LTDKN	LAG1	6	37.6251	35.3989	0.3364	-15.378	38.7523	0.7079	0.0305
F3	LTDKN	LAG2	6	67.0607	21.3258	0.0255	-49.961	28.2965	0.1377	0.384
F3	LTDKN	LAG3	4	18.2888	47.0961	0.7237	7.19517	59.4179	0.9113	0.0049
F3	LTDKN	LAG4	7	-4.1944	25.4312	0.8744	41.6196	31.6951	0.2371	0.2232
F3	LTDKN	LAG5	5	15.9598	31.8433	0.6426	14.8068	38.0229	0.7168	0.0365
F3	LTDKN	LAG6	4	-49.693	90.423	0.6209	83.8592	93.1477	0.4343	0.2127
F3	LTDP04	LAG0	6	58.208	28.3613	0.0954	7.85436	7.44966	0.34	0.1819
F3	LTDP04	LAG1	6	33.2736	115.454	0.7848	2.26845	28.019	0.9386	0.0013
F3	LTDP04	LAG2	6	-4.6034	20.6473	0.8324	-7.4933	5.3557	0.2206	0.2814
F3	LTDP04	LAG3	6	172.704	119.016	0.2065	35.9363	30.1867	0.2873	0.2208
F3	LTDP04	LAG4	7	110.594	94.8289	0.2878	20.3192	23.2046	0.4149	0.1133
F3	LTDP04	LAG5	5	29.0448	33.1336	0.4302	-0.9011	8.89986	0.9242	0.0026
F3	LTDP04	LAG6	6	-111.15	107.097	0.3469	-33.841	26.2675	0.254	0.2492

F3	LTDSKU	LAG0	5	32.755	10.4245	0.0348	-3.4754	26.894	0.9034	0.0042
F3	LTDSKU	LAG1	5	26.421	14.9222	0.1513	2.25494	25.625	0.9341	0.0019
F3	LTDSKU	LAG2	6	18.9322	9.9537	0.1156	-12.475	15.5634	0.4592	0.1139
F3	LTDSKU	LAG3	6	23.3126	7.85399	0.0312	-31.449	17.0106	0.1237	0.406
F3	LTDSKU	LAG4	6	31.2079	8.64575	0.0154	-1.0122	16.7159	0.9541	0.0007
F3	LTDSKU	LAG5	6	37.9097	6.52801	0.0021	29.1272	10.0317	0.0337	0.6277
F3	LTDSKU	LAG6	6	21.8437	8.6919	0.0536	-34.195	24.9751	0.2292	0.2727
F3	LTDSFE	LAG0	3	26.48	72.1694	0.7489	3.5585	42.5615	0.941	0.0035
F3	LTDSFE	LAG1	5	35.791	50.2686	0.5158	-4.5019	21.4227	0.8438	0.0109
F3	LTDSFE	LAG2	3	20.672	141.492	0.8972	5.90735	70.9212	0.9412	0.0035
F3	LTDSFE	LAG3	3	54.9296	59.206	0.4515	-14.48	29.5842	0.6729	0.107
F3	LTDSFE	LAG4	4	-54.784	117.217	0.6721	37.9299	48.2896	0.4895	0.1706
F3	LTDSFE	LAG5	3	22.4726	94.912	0.8349	1.89018	41.4425	0.9678	0.001
F3	LTDSFE	LAG6	4	-17.249	59.8204	0.7919	21.5326	26.6744	0.4786	0.1785
F3	LTDSZN	LAG0	5	58.3446	18.7808	0.036	-36.067	25.2824	0.2269	0.3372
F3	LTDSZN	LAG1	4	35.0942	15.587	0.1098	-7.1161	9.17289	0.4944	0.1671
F3	LTDSZN	LAG2	5	16.1625	12.0827	0.252	11.0117	10.6958	0.3614	0.2095
F3	LTDSZN	LAG3	5	38.8898	18.0837	0.0979	-10.667	18.7394	0.5996	0.0749
F3	LTDSZN	LAG4	6	30.3923	13.5011	0.0742	0.68965	7.95545	0.9343	0.0015
F3	LTDSZN	LAG5	5	38.0979	12.8379	0.0412	-11.372	13.3372	0.4419	0.1538
F3	LTDSZN	LAG6	2	72.5811	27.826	0.2331	-49.595	26.1421	0.3088	0.7826
F3	LTKN	LAG0	4	-145.4	66.8819	0.118	205.643	75.6299	0.0726	0.7114
F3	LTKN	LAG1	5	40.2326	33.6152	0.2974	-15.643	39.4396	0.7119	0.0378
F3	LTKN	LAG2	7	73.0214	20.6212	0.0122	-57.202	24.9836	0.062	0.4663
F3	LTKN	LAG3	4	81.2061	119.264	0.5448	-61.465	136.182	0.6824	0.0636
F3	LTKN	LAG4	6	-20.737	28.8974	0.5051	67.6415	40.0263	0.1518	0.3635
F3	LTKN	LAG5	6	17.8579	32.8937	0.6105	13.387	37.7791	0.7375	0.0245
F3	LTKN	LAG6	5	-43.033	71.7732	0.5811	76.747	75.6004	0.3674	0.2049
F3	LTPO4	LAG0	7	55.7407	27.444	0.0885	8.50702	8.04612	0.3311	0.157
F3	LTPO4	LAG1	7	38.61	67.9766	0.5906	2.98606	18.6956	0.8783	0.0042
F3	LTPO4	LAG2	6	5.30662	30.8078	0.87	-6.2438	8.71638	0.5058	0.0931
F3	LTPO4	LAG3	7	-80.957	84.5966	0.3755	-30.588	23.6992	0.2443	0.2173
F3	LTPO4	LAG4	7	70.9516	75.9179	0.3861	11.6591	20.4139	0.5886	0.0516
F3	LTPO4	LAG5	6	24.9896	32.5658	0.4775	-1.2129	9.54436	0.9038	0.0032
F3	LTPO4	LAG6	7	45.5337	83.2331	0.6041	4.90886	22.9696	0.8378	0.0076

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F4	LAGP	LAG0	2	156.773	4.8362	0.0196	78.9854	3.0718	0.0247	0.9985
F4	LAGP	LAG2	4	7.21801	17.4755	0.7073	-23.741	13.9221	0.1867	0.4922
F4	LAGP	LAG4	5	22.2302	16.8882	0.2584	-4.9148	12.0022	0.7032	0.0402
F4	LAGP	LAG5	3	17.9784	60.496	0.7944	-15.255	49.8776	0.7886	0.0447
F4	LAGP	LAG6	4	15.1978	48.1364	0.7729	-19.195	36.2861	0.6335	0.0853
F4	LALK	LAG0	8	-45.281	322.477	0.8923	15.0079	59.075	0.8068	0.0091
F4	LALK	LAG1	8	56.4724	248.712	0.8269	-4.4109	44.528	0.9239	0.0014
F4	LALK	LAG2	9	158.298	201.232	0.4542	-23.465	36.8464	0.542	0.0482
F4	LALK	LAG3	9	27.6912	310.837	0.9312	1.52102	57.2636	0.9795	0.0001
F4	LALK	LAG4	8	-79.206	185.238	0.6818	20.1437	33.5976	0.5677	0.0488
F4	LALK	LAG5	8	-238.08	174.583	0.2149	49.3345	31.999	0.167	0.2535
F4	LALK	LAG6	9	-216.26	213.079	0.3398	45.1587	38.3054	0.2723	0.148
F4	LCA	LAG0	8	-161.06	280.1	0.5833	45.544	64.5033	0.503	0.0665
F4	LCA	LAG1	8	171.23	185.896	0.3876	-31.527	42.0083	0.4774	0.0745
F4	LCA	LAG2	9	225.439	139.684	0.1452	-45.403	32.45	0.1993	0.1966
F4	LCA	LAG3	9	-96.245	200.53	0.6441	30.7366	46.5892	0.528	0.0516
F4	LCA	LAG4	8	-91	122.106	0.4804	28.2201	28.0188	0.3474	0.1266
F4	LCA	LAG5	8	-160.12	122.237	0.2316	44.4253	28.3861	0.1616	0.2592
F4	LCA	LAG6	9	-71.967	203.306	0.7325	24.2371	46.1278	0.6135	0.0334
F4	LCL	LAG0	8	-113.24	189.209	0.5684	30.5424	38.5219	0.4539	0.0824
F4	LCL	LAG1	8	43.6634	203.53	0.8362	-2.4001	41.3136	0.9553	0.0005
F4	LCL	LAG2	9	84.1668	139.8	0.5638	-11.193	28.9713	0.7093	0.0183
F4	LCL	LAG3	9	-38.977	162.375	0.8163	15.5078	33.5669	0.6564	0.026
F4	LCL	LAG4	8	-135.47	138.821	0.3616	34.5795	28.6663	0.2669	0.1721
F4	LCL	LAG5	8	-88.289	151.145	0.5775	25.0527	31.7364	0.4558	0.0817
F4	LCL	LAG6	9	-29.85	175.769	0.8694	13.0186	35.3724	0.7224	0.0167
F4	LDOC	LAG0	8	33.3894	140.057	0.8184	0.8969	38.9291	0.9823	0.0001
F4	LDOC	LAG1	8	21.5023	156.924	0.8949	2.82471	42.7776	0.9492	0.0006
F4	LDOC	LAG2	9	112.171	137.534	0.4383	-23.003	38.5546	0.5672	0.0426
F4	LDOC	LAG3	9	-10.861	144.573	0.942	13.1766	40.6336	0.754	0.013
F4	LDOC	LAG4	8	-103.04	120.295	0.42	37.3724	33.2908	0.2986	0.1526
F4	LDOC	LAG5	8	-171.92	105.538	0.1473	56.8831	29.5471	0.0956	0.3462
F4	LDOC	LAG6	9	-77.069	126.045	0.5579	30.9223	34.7778	0.3999	0.0899
F4	LK	LAG0	8	-107.12	79.0385	0.2174	73.4111	40.1764	0.1104	0.3229
F4	LK	LAG1	8	76.19	67.1693	0.294	-22.955	34.5172	0.5273	0.0594
F4	LK	LAG2	9	88.224	52.032	0.1284	-30.913	27.4774	0.2932	0.1366
F4	LK	LAG3	9	17.5051	66.797	0.7999	9.48588	34.0987	0.7879	0.0096
F4	LK	LAG4	8	-21.689	53.1083	0.6952	27.2157	26.7808	0.3433	0.1286
F4	LK	LAG5	8	-9.4531	54.7971	0.8679	20.1871	27.154	0.4814	0.0732
F4	LK	LAG6	9	-18.804	95.0875	0.8482	26.4907	46.837	0.5872	0.0384
F4	LMG	LAG0	8	-58.516	149.984	0.708	29.4898	46.4102	0.5454	0.0545
F4	LMG	LAG1	8	66.5169	109.851	0.5639	-10.552	33.3404	0.7609	0.0141
F4	LMG	LAG2	9	98.1865	102.943	0.3681	-21.629	32.6807	0.5267	0.0519
F4	LMG	LAG3	9	-28.665	115.068	0.8095	20.4098	36.258	0.5889	0.0381
F4	LMG	LAG4	8	-66.903	83.6224	0.45	30.4508	25.713	0.275	0.1669
F4	LMG	LAG5	8	-104.87	80.616	0.2345	42.8784	25.3735	0.1349	0.2898
F4	LMG	LAG6	9	0.73445	133.718	0.9958	10.2417	40.1611	0.8051	0.0081
F4	LNA	LAG0	8	-151.98	178.891	0.4237	41.6181	39.4318	0.3263	0.1373
F4	LNA	LAG1	8	78.5596	186.93	0.6869	-10.272	41.0671	0.8097	0.0089

F4	LNA	LAG2	9	95.9722	129.045	0.4783	-14.74	28.8852	0.6236	0.0315
F4	LNA	LAG3	9	5.63966	159.816	0.9727	6.78841	35.7513	0.8541	0.0045
F4	LNA	LAG4	8	-144.73	140.065	0.3358	39.3299	31.1729	0.2475	0.1853
F4	LNA	LAG5	8	-54.806	136.124	0.6992	19.3515	30.6959	0.5484	0.0537
F4	LNA	LAG6	9	-41.187	174.606	0.8194	16.4921	37.8686	0.6747	0.0232
F4	LNH4	LAG0	8	129.06	124.454	0.3342	25.8301	34.6792	0.4806	0.0734
F4	LNH4	LAG1	8	8.00435	57.4446	0.8931	-6.436	15.3426	0.6874	0.0245
F4	LNH4	LAG2	9	36.9632	95.3644	0.7084	1.798	25.4009	0.9453	0.0006
F4	LNH4	LAG3	9	73.8802	80.0345	0.3829	10.1923	21.3905	0.6465	0.0276
F4	LNH4	LAG4	8	282.675	138.732	0.081	65.64	36.2524	0.1131	0.319
F4	LNH4	LAG5	8	17.5291	130.915	0.8973	-3.5318	34.6034	0.9216	0.0015
F4	LNH4	LAG6	9	214.243	106.495	0.0791	50.4177	29.8437	0.1296	0.2629
F4	LNOX	LAG0	3	47.1983	74.2238	0.5899	4.22339	19.3652	0.8476	0.0232
F4	LNOX	LAG2	5	39.2574	57.7388	0.5339	2.83936	12.6344	0.8332	0.0125
F4	LNOX	LAG3	3	205.205	158.578	0.3249	35.3623	34.8247	0.4168	0.3402
F4	LNOX	LAG4	2	582.35	507.87	0.4566	102.553	95.5628	0.4775	0.5352
F4	LNOX	LAG5	4	-67.322	55.094	0.309	-21.663	12.252	0.1752	0.5103
F4	LNOX	LAG6	3	102.885	66.889	0.2639	15.4635	15.1944	0.4159	0.3412
F4	LOPO4	LAG0	5	100.42	39.3516	0.0632	14.1948	8.2102	0.1589	0.4277
F4	LOPO4	LAG1	3	-66.889	50.5801	0.317	-19.916	9.95984	0.1836	0.6666
F4	LOPO4	LAG2	4	-0.7774	45.6187	0.9875	-6.9358	10.2994	0.5489	0.1313
F4	LOPO4	LAG3	6	26.691	93.6971	0.7872	-2.1012	18.4681	0.9138	0.0026
F4	LOPO4	LAG4	3	322.688	285.903	0.3762	57.8558	57.253	0.4186	0.338
F4	LOPO4	LAG5	4	8.55776	44.9971	0.8613	-5.0538	10.0141	0.6485	0.0783
F4	LOPO4	LAG6	6	-88.357	136.077	0.5448	-24.712	26.9109	0.4006	0.1443
F4	LSIO2	LAG0	7	66.6876	110.785	0.5692	-9.4332	38.4166	0.8142	0.0099
F4	LSIO2	LAG1	8	42.3425	59.5707	0.5002	-3.6902	20.7422	0.8638	0.0045
F4	LSIO2	LAG2	9	51.8501	71.2629	0.4876	-7.8863	25.8518	0.7681	0.0115
F4	LSIO2	LAG3	9	-22.714	52.8557	0.6787	21.6965	19.3407	0.2945	0.1359
F4	LSIO2	LAG4	8	-8.9635	44.0759	0.8446	14.5445	15.5159	0.3798	0.1115
F4	LSIO2	LAG5	8	-35.33	54.4639	0.5372	24.2066	19.7325	0.2596	0.1769
F4	LSIO2	LAG6	9	-30.388	73.0111	0.6882	22.5267	25.0839	0.3954	0.0916
F4	LSO4	LAG0	8	-98.675	72.1597	0.2138	34.345	18.2159	0.1014	0.3368
F4	LSO4	LAG1	8	50.6267	70.8751	0.4982	-4.8018	17.9982	0.7973	0.0101
F4	LSO4	LAG2	9	53.6076	54.2559	0.3521	-6.2238	14.3067	0.675	0.0231
F4	LSO4	LAG3	9	-67.196	82.9427	0.4413	26.808	21.4676	0.2471	0.1631
F4	LSO4	LAG4	8	-50.58	60.1113	0.4279	21.1526	15.3371	0.2103	0.2137
F4	LSO4	LAG5	8	-6.54	55.0542	0.9088	9.84947	14.3472	0.5145	0.0631
F4	LSO4	LAG6	9	29.1502	107.261	0.7927	1.41607	26.9663	0.9594	0.0003
F4	LTDKN	LAG0	6	-42.644	33.7142	0.2617	97.4812	42.4629	0.0701	0.5132
F4	LTDKN	LAG1	8	40.6525	27.6911	0.1855	-10.944	32.8325	0.7487	0.0156
F4	LTDKN	LAG2	8	39.302	29.4897	0.2244	-10.091	40.6489	0.8111	0.0087
F4	LTDKN	LAG3	7	53.1625	22.6883	0.0576	-30.616	33.0095	0.3895	0.1254
F4	LTDKN	LAG4	8	11.949	22.4258	0.6106	27.568	29.4362	0.3802	0.1113
F4	LTDKN	LAG5	7	4.29541	26.504	0.8766	38.4052	35.1197	0.3161	0.1662
F4	LTDKN	LAG6	7	-13.884	51.6252	0.797	61.6093	58.1755	0.3303	0.1575
F4	LTDPO4	LAG0	8	83.2483	40.0657	0.0763	10.344	8.67977	0.2722	0.1687
F4	LTDPO4	LAG1	8	-36.847	67.5226	0.6022	-14.779	14.4287	0.3398	0.1303
F4	LTDPO4	LAG2	9	2.10536	36.5488	0.9555	-6.158	7.83707	0.4547	0.0716
F4	LTDPO4	LAG3	9	-137.57	173.049	0.4496	-35.852	35.7194	0.3449	0.1118
F4	LTDPO4	LAG4	8	35.468	176.937	0.8468	0.76693	36.5438	0.9838	0.0001
F4	LTDPO4	LAG5	8	24.8093	38.1385	0.5361	-1.3254	8.15481	0.8755	0.0038

F4	LTDP04	LAG6	9	-80.956	171.087	0.6487	-23.509	34.7153	0.5174	0.0542
F4	LTDSKU	LAG0	7	49.2698	9.72843	0.0023	36.385	20.0133	0.1189	0.3552
F4	LTDSKU	LAG1	7	28.5863	10.1086	0.03	4.45101	16.2759	0.7937	0.0123
F4	LTDSKU	LAG2	9	30.0246	6.71445	0.0021	-12.204	7.93137	0.1624	0.2284
F4	LTDSKU	LAG3	9	45.0056	8.01661	0.0005	26.8755	13.0265	0.073	0.3473
F4	LTDSKU	LAG4	7	23.6602	13.5638	0.1317	-24.074	26.0542	0.3911	0.1246
F4	LTDSKU	LAG5	8	30.9649	8.21552	0.007	-0.864	9.39002	0.9293	0.0012
F4	LTDSKU	LAG6	8	34.5321	10.9272	0.0159	-4.0696	17.9026	0.8267	0.0073
F4	LTDSFE	LAG0	4	206.136	13.3515	0.0006	-92.036	6.92922	0.0009	0.9833
F4	LTDSFE	LAG1	6	17.8911	70.0388	0.8086	8.84035	36.1027	0.8163	0.0118
F4	LTDSFE	LAG2	2	22.2791	117.384	0.8806	-0.9806	53.5045	0.9883	0.0003
F4	LTDSFE	LAG3	4	-61.286	70.055	0.4461	52.3067	35.2632	0.2346	0.4231
F4	LTDSFE	LAG4	5	69.5502	38.2776	0.1434	-17.66	16.2569	0.3384	0.2278
F4	LTDSFE	LAG5	3	14.3402	141.164	0.9284	13.3712	67.8891	0.8621	0.019
F4	LTDSFE	LAG6	2	-34.401	745.211	0.9706	36.6601	375.934	0.9381	0.0094
F4	LTDSZN	LAG0	7	25.1645	14.1086	0.1247	15.6361	12.0548	0.2422	0.219
F4	LTDSZN	LAG1	3	42.2643	22.2305	0.1976	9.10707	28.0092	0.7759	0.0502
F4	LTDSZN	LAG2	7	50.7007	17.1544	0.0254	-14.729	11.9812	0.265	0.2012
F4	LTDSZN	LAG3	6	43.5855	15.0098	0.0336	-1.6469	13.565	0.9081	0.0029
F4	LTDSZN	LAG4	4	38.8091	15.7811	0.0909	-11.505	14.7297	0.4917	0.169
F4	LTDSZN	LAG5	7	55.1402	11.5538	0.0031	-22.272	8.96011	0.0474	0.5073
F4	LTDSZN	LAG6	6	34.7865	16.3608	0.0868	7.83471	14.8836	0.6211	0.0525
F4	LTKN	LAG0	7	-82.838	44.2854	0.1106	141.236	50.5005	0.0313	0.5659
F4	LTKN	LAG1	6	35.6038	31.2364	0.306	-1.116	35.3917	0.9761	0.0002
F4	LTKN	LAG2	8	55.6916	21.3843	0.0352	-39.693	27.0566	0.1858	0.2352
F4	LTKN	LAG3	8	43.963	25.293	0.1257	-9.2095	34.8491	0.7992	0.0099
F4	LTKN	LAG4	6	22.9133	24.2406	0.3879	6.41672	32.3716	0.8507	0.0078
F4	LTKN	LAG5	8	-6.239	25.2132	0.8117	47.3662	30.9025	0.1692	0.2513
F4	LTKN	LAG6	8	-0.562	49.8406	0.9913	41.276	54.0376	0.4699	0.0769
F4	LTPO4	LAG0	8	86.881	36.216	0.0475	12.8656	9.02256	0.1969	0.2251
F4	LTPO4	LAG1	9	-50.519	49.2275	0.3348	-19.593	11.8362	0.1365	0.2551
F4	LTPO4	LAG2	9	1.03324	38.337	0.9792	-8.2762	9.18842	0.394	0.0921
F4	LTPO4	LAG3	9	-102.13	136.25	0.475	-32.64	32.1561	0.3398	0.1141
F4	LTPO4	LAG4	10	88.0868	59.9225	0.1756	13.0099	14.2376	0.3847	0.0849
F4	LTPO4	LAG5	8	29.7953	42.0031	0.501	-1.4461	10.3851	0.8932	0.0028
F4	LTPO4	LAG6	9	5.91604	182.761	0.975	-6.7468	42.6948	0.8784	0.0031

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F5	LALK	LAG0	5	-319.4	230.613	0.2383	66.3489	41.7926	0.1876	0.3865
F5	LALK	LAG1	5	87.2191	234.593	0.7289	-7.5142	43.1912	0.8703	0.0075
F5	LALK	LAG2	6	208.52	178.544	0.2955	-30.479	33.0975	0.3994	0.145
F5	LALK	LAG3	5	-55.844	291.578	0.8574	18.1421	52.8676	0.7488	0.0286
F5	LALK	LAG4	5	-151.82	178.239	0.4423	36.3162	32.9795	0.3326	0.2326
F5	LALK	LAG5	5	10.3032	215.563	0.9642	6.75836	39.7244	0.8732	0.0072
F5	LALK	LAG6	5	10.003	254.903	0.9706	5.38967	46.4084	0.9131	0.0034
F5	LCA	LAG0	5	-259.11	166.774	0.1952	70.9478	38.6764	0.1405	0.4569
F5	LCA	LAG1	5	124.699	164.412	0.4904	-18.407	38.5917	0.6583	0.0538
F5	LCA	LAG2	6	180.444	134.759	0.2382	-32.294	31.8997	0.3578	0.1701
F5	LCA	LAG3	5	-29.575	253.595	0.9128	17.0747	58.6829	0.7855	0.0207
F5	LCA	LAG4	5	-106.53	121.144	0.4289	35.7816	28.6761	0.2802	0.2802
F5	LCA	LAG5	5	-73.948	168.617	0.6836	28.3333	39.4488	0.5123	0.1142
F5	LCA	LAG6	5	-15.114	217.981	0.9481	12.7552	50.7818	0.8141	0.0155
F5	LCL	LAG0	5	-142.36	190.227	0.4958	38.0844	38.3172	0.3765	0.1981
F5	LCL	LAG1	5	360.036	251.23	0.2251	-64.885	51.9462	0.2797	0.2806
F5	LCL	LAG2	5	212.431	238.07	0.4227	-35.56	48.9434	0.5077	0.1166
F5	LCL	LAG3	5	16.043	239.887	0.9499	5.6512	48.1963	0.9123	0.0034
F5	LCL	LAG4	5	-70.171	149.83	0.6639	24.3293	31.8073	0.487	0.1276
F5	LCL	LAG5	4	321.616	314.792	0.3821	-56.701	65.1153	0.448	0.2018
F5	LCL	LAG6	5	253.161	190.21	0.254	-43.12	38.3649	0.3239	0.24
F5	LDOC	LAG0	5	-195.62	158.201	0.2839	66.2658	43.2384	0.2002	0.37
F5	LDOC	LAG1	5	168.199	239.162	0.5207	-33.473	65.6882	0.6372	0.061
F5	LDOC	LAG2	6	262.913	189.548	0.2241	-61.84	53.5651	0.3005	0.2105
F5	LDOC	LAG3	5	-7.1914	219.331	0.9754	14.026	59.8514	0.8262	0.0135
F5	LDOC	LAG4	5	-30.172	120.156	0.8141	20.9843	33.788	0.5682	0.0879
F5	LDOC	LAG5	5	-137.98	209.11	0.5454	52.4269	59.2191	0.426	0.1638
F5	LDOC	LAG6	5	-17.969	190.15	0.9293	15.8519	52.3061	0.777	0.0224
F5	LK	LAG0	5	-51.784	62.0561	0.451	48.9607	30.622	0.1851	0.3899
F5	LK	LAG1	5	105.35	69.531	0.2043	-31.173	36.3983	0.44	0.155
F5	LK	LAG2	6	112.596	74.7	0.1921	-35.387	38.4358	0.3995	0.145
F5	LK	LAG3	5	2.76058	66.6756	0.969	20.8528	33.1426	0.5634	0.0901
F5	LK	LAG4	5	8.27189	48.0314	0.8716	20.1164	26.2554	0.4863	0.128
F5	LK	LAG5	5	60.2505	87.2286	0.5277	-6.8586	44.5577	0.8851	0.0059
F5	LK	LAG6	5	19.1735	54.9927	0.7449	10.6333	28.216	0.7254	0.0343
F5	LMG	LAG0	5	-103.57	135.479	0.4872	45.5624	41.0399	0.3292	0.2356
F5	LMG	LAG1	5	176.798	120.183	0.2152	-41.428	38.0703	0.3377	0.2284
F5	LMG	LAG2	6	196.684	98.3844	0.1021	-48.998	31.535	0.181	0.3256
F5	LMG	LAG3	5	-0.7344	148.474	0.9963	13.6612	45.0687	0.7769	0.0225
F5	LMG	LAG4	5	-40.777	89.4406	0.6721	27.7392	29.0196	0.3933	0.1859
F5	LMG	LAG5	5	30.0661	127.81	0.8256	5.41444	40.8846	0.901	0.0044
F5	LMG	LAG6	5	53.3961	129.222	0.7006	-4.2354	39.517	0.9198	0.0029
F5	LNA	LAG0	5	-153.62	181.292	0.4445	43.9154	39.7354	0.3311	0.2339
F5	LNA	LAG1	5	308.208	192.185	0.184	-58.903	43.1975	0.2444	0.3173
F5	LNA	LAG2	6	267.008	117.486	0.0722	-50.378	26.5254	0.116	0.4191
F5	LNA	LAG3	5	31.8923	254.494	0.9063	2.67332	55.4995	0.9639	0.0006
F5	LNA	LAG4	5	-65.23	145.896	0.6779	25.2822	33.634	0.4941	0.1238
F5	LNA	LAG5	5	87.4839	167.514	0.6291	-9.2326	38.0558	0.8202	0.0145
F5	LNA	LAG6	5	287.053	195.264	0.2155	-54.204	42.7323	0.2734	0.2869

F5	LNH4	LAG0	5	282.203	159.064	0.1507	70.9568	47.7991	0.2119	0.3552
F5	LNH4	LAG1	5	36.5233	200.789	0.8645	-2.7563	55.6574	0.9629	0.0006
F5	LNH4	LAG2	6	117.438	85.7201	0.229	20.7578	24.1976	0.4302	0.1283
F5	LNH4	LAG3	5	318.528	189.515	0.1681	82.9061	57.1921	0.2208	0.3444
F5	LNH4	LAG4	5	4.93315	277.912	0.9867	-10.594	75.0296	0.8945	0.005
F5	LNH4	LAG5	5	-15.46	92.8475	0.8758	-17.782	26.2965	0.536	0.1026
F5	LNH4	LAG6	5	149.154	139.926	0.3465	32.6013	41.5472	0.4765	0.1334
F5	LNOX	LAG0	3	-19.758	16.5618	0.3552	-17.362	4.33547	0.0571	0.8891
F5	LNOX	LAG1	1	-83.396			-33.116			1
F5	LNOX	LAG2	4	129.214	95.7581	0.27	22.5308	24.5325	0.4261	0.2195
F5	LNOX	LAG3	2	127.583	37.7767	0.1833	15.3364	8.91428	0.3352	0.7475
F5	LNOX	LAG4	2	245.104	111.975	0.2728	45.0853	25.6673	0.3295	0.7552
F5	LNOX	LAG5	3	-139.07	72.373	0.1946	-48.473	18.2566	0.1174	0.779
F5	LNOX	LAG6	2	-82.222	16.4651	0.1258	-30.405	3.88532	0.0809	0.9839
F5	LOPO4	LAG0	4	-283.3	118.855	0.0973	-58.491	22.0173	0.0766	0.7017
F5	LOPO4	LAG1	0	28.53			0			
F5	LOPO4	LAG2	2	-204.72	255.453	0.5699	-57.238	58.6521	0.5078	0.4878
F5	LOPO4	LAG3	4	-130.76	137.697	0.4123	-34.292	25.9539	0.2781	0.3679
F5	LOPO4	LAG4	1	29.965	1.435	0.0305	0			0
F5	LOPO4	LAG5	2	78.7481	100.475	0.5768	8.93529	23.0691	0.7647	0.1305
F5	LOPO4	LAG6	5	43.0818	146.04	0.7827	0.76215	27.3378	0.9791	0.0002
F5	LSIO2	LAG0	4	-66.027	226.623	0.7898	39.488	75.0574	0.6352	0.0845
F5	LSIO2	LAG1	5	184.622	117.846	0.1923	-46.678	39.6793	0.3047	0.257
F5	LSIO2	LAG2	5	64.9174	46.6815	0.2367	-9.487	17.1294	0.6092	0.0712
F5	LSIO2	LAG3	5	41.1374	103.933	0.7125	1.04073	35.8224	0.9782	0.0002
F5	LSIO2	LAG4	5	-59.159	76.5054	0.4825	36.1774	26.586	0.2452	0.3164
F5	LSIO2	LAG5	4	70.341	62.7783	0.3441	-8.4068	22.7774	0.7366	0.0434
F5	LSIO2	LAG6	5	-32.338	79.5486	0.7052	24.943	27.4179	0.4144	0.1714
F5	LSO4	LAG0	5	-76.464	81.2395	0.3999	31.1569	20.4693	0.2026	0.3668
F5	LSO4	LAG1	5	116.962	51.543	0.0858	-19.338	13.9107	0.2368	0.3257
F5	LSO4	LAG2	5	62.5808	135.165	0.6674	-5.7854	33.9188	0.8728	0.0072
F5	LSO4	LAG3	5	15.2095	108.573	0.8954	7.31855	27.3152	0.802	0.0176
F5	LSO4	LAG4	5	-0.3769	52.4848	0.9946	12.5903	14.5403	0.4354	0.1579
F5	LSO4	LAG5	4	-283.38	125.323	0.1088	81.6895	30.8641	0.0772	0.7002
F5	LSO4	LAG6	5	16.5431	92.3716	0.8666	5.96006	23.7634	0.8143	0.0155
F5	LTDKN	LAG0	4	-13.743	32.7141	0.7027	73.2309	37.6978	0.1473	0.5571
F5	LTDKN	LAG1	5	116.873	36.8833	0.0339	-82.22	42.0427	0.1222	0.4888
F5	LTDKN	LAG2	5	85.4313	28.4748	0.0399	-58.267	38.0514	0.2005	0.3696
F5	LTDKN	LAG3	4	11.9102	57.1954	0.8484	29.7111	64.483	0.6763	0.0661
F5	LTDKN	LAG4	5	31.0996	26.1955	0.3008	17.9481	32.6577	0.6118	0.0702
F5	LTDKN	LAG5	4	36.3435	33.494	0.3573	7.87106	45.26	0.873	0.01
F5	LTDKN	LAG6	4	9.35542	44.9164	0.8483	40.4273	50.1726	0.4793	0.1779
F5	LTDPO4	LAG0	5	-184.31	399.83	0.6688	-45.024	77.9817	0.5946	0.0769
F5	LTDPO4	LAG1	5	290.441	150.748	0.1263	50.7658	31.3136	0.1803	0.3965
F5	LTDPO4	LAG2	5	42.2253	150.308	0.7927	-1.465	30.3451	0.9638	0.0006
F5	LTDPO4	LAG3	5	-504.24	330.354	0.2016	-106.99	64.4312	0.1721	0.4081
F5	LTDPO4	LAG4	5	74.8364	175.739	0.6921	6.34709	36.258	0.8695	0.0076
F5	LTDPO4	LAG5	5	182.666	164.583	0.3293	27.4555	33.2269	0.4551	0.1458
F5	LTDPO4	LAG6	5	-70.593	277.664	0.8118	-21.112	53.175	0.7116	0.0379
F5	LTDSCU	LAG0	4	52.8073	9.70485	0.0122	-12.119	16.2737	0.5105	0.156
F5	LTDSCU	LAG1	5	65.6617	12.6714	0.0066	45.211	23.1526	0.1226	0.488
F5	LTDSCU	LAG2	6	45.0145	6.34036	0.0009	21.8367	8.67293	0.0533	0.5591

station	independent	month	lag	df	intercept	se_int	pvalue_int	slope	se_slope	pvalue_slope	r_square
F5	LTDSUCU	LAG3		5	44.825	5.90826	0.0016	36.3495	10.853	0.0286	0.7371
F5	LTDSUCU	LAG4		5	26.396	17.3559	0.2029	-48.549	39.2106	0.2834	0.2771
F5	LTDSUCU	LAG5		5	49.0861	9.01032	0.0055	-18.811	12.9571	0.2202	0.3451
F5	LTDSUCU	LAG6		5	39.615	7.6566	0.0066	-22.426	14.4831	0.1964	0.3748
F5	LTDSFE	LAG0		4	-263.32	201.227	0.2819	146.472	93.9468	0.2169	0.4476
F5	LTDSFE	LAG1		4	-2.25	98.7759	0.9833	23.6694	44.3499	0.6306	0.0867
F5	LTDSFE	LAG2		3	106.778	78.4789	0.3067	-28.165	38.9554	0.5448	0.2072
F5	LTDSFE	LAG3		3	435.315	197.396	0.1582	-178.8	91.7578	0.1907	0.655
F5	LTDSFE	LAG4		4	65.3761	35.1196	0.1596	-6.6376	11.5295	0.6052	0.0995
F5	LTDSFE	LAG5		2	-57.295	31.66	0.3214	51.8966	15.751	0.1876	0.9157
F5	LTDSFE	LAG6		3	-429.61	63.4147	0.0211	222.557	30.005	0.0177	0.9649
F5	LTDSZN	LAG0		4	75.2733	25.7567	0.0614	-22.82	18.4064	0.3032	0.3388
F5	LTDSZN	LAG1		3	17.4878	41.4293	0.714	17.018	28.8887	0.6155	0.1479
F5	LTDSZN	LAG2		5	37.5894	34.0121	0.3311	6.84131	31.6226	0.8393	0.0116
F5	LTDSZN	LAG3		4	2.45918	10.9784	0.8371	32.7373	8.82614	0.0341	0.821
F5	LTDSZN	LAG4		2	68.8086	55.5537	0.4324	-23.698	41.9601	0.6727	0.2418
F5	LTDSZN	LAG5		4	37.8781	44.0702	0.4533	2.88748	38.0138	0.9442	0.0019
F5	LTDSZN	LAG6		3	78.5653	22.116	0.0709	-30.545	16.3443	0.2026	0.6359
F5	LTKN	LAG0		4	-10.279	73.5579	0.8977	69.6869	80.2331	0.449	0.2009
F5	LTKN	LAG1		4	114.505	50.6535	0.1089	-85.79	62.529	0.2637	0.3855
F5	LTKN	LAG2		5	98.3299	27.8911	0.0243	-72.238	35.5836	0.1122	0.5075
F5	LTKN	LAG3		4	120.111	99.5653	0.3141	-80.124	108.6	0.5141	0.1536
F5	LTKN	LAG4		4	23.5243	25.2227	0.4198	22.5679	34.0739	0.5551	0.1276
F5	LTKN	LAG5		4	40.2227	37.5159	0.3622	2.16969	49.0936	0.9675	0.0007
F5	LTKN	LAG6		4	224.77	97.331	0.1041	-210.31	111.132	0.1548	0.5442
F5	LTPO4	LAG0		6	201.455	190.076	0.3377	33.8402	40.8842	0.4455	0.1205
F5	LTPO4	LAG1		6	-79.058	146.801	0.6133	-27.345	32.4815	0.4383	0.1242
F5	LTPO4	LAG2		5	179.066	83.2744	0.0979	30.7226	18.2696	0.1679	0.4142
F5	LTPO4	LAG3		6	91.1829	247.89	0.7281	10.2071	53.9311	0.8573	0.0071
F5	LTPO4	LAG4		6	191.823	120.517	0.1723	32.3363	26.3532	0.2744	0.2314
F5	LTPO4	LAG5		5	13.745	110.533	0.907	-7.0994	25.3637	0.7934	0.0192
F5	LTPO4	LAG6		6	-310.97	193.243	0.1685	-76.386	41.5189	0.1252	0.4037
U3	LAGP	LAG0		3	146.413	82.8147	0.2191	42.0498	53.6634	0.5153	0.2349
U3	LAGP	LAG2		3	65.2047	10.4558	0.0248	-18.252	8.49468	0.1647	0.6977
U3	LAGP	LAG4		4	50.2997	29.6772	0.1887	-20.914	19.7764	0.3679	0.2716
U3	LAGP	LAG5		3	78.3332	13.7315	0.0294	-20.794	10.4884	0.1859	0.6628
U3	LAGP	LAG6		3	86.944	8.02326	0.0084	22.0854	7.20256	0.0919	0.8246
U3	LALK	LAG0		9	-418.8	549.851	0.4681	95.8701	101.457	0.3724	0.1004
U3	LALK	LAG1		8	522.265	610.474	0.4206	-78.919	113.769	0.5102	0.0643
U3	LALK	LAG2		9	385.851	525.984	0.4841	-54.371	98.1524	0.5948	0.0369
U3	LALK	LAG3		9	-348.38	748.611	0.6541	82.9198	137.948	0.5644	0.0432
U3	LALK	LAG4		9	-437.9	437.872	0.3466	100.263	81.3101	0.2525	0.1597
U3	LALK	LAG5		9	-349.45	461.097	0.4703	83.7012	85.5019	0.3563	0.107
U3	LALK	LAG6		9	-641.26	860.122	0.4773	135.429	158.033	0.4164	0.0841
U3	LCA	LAG0		9	-743.09	507.531	0.1813	200.444	120.521	0.1349	0.2569
U3	LCA	LAG1		8	555.565	389.692	0.197	-110.49	94.1596	0.279	0.1644
U3	LCA	LAG2		9	777.928	372.253	0.07	-164.29	89.3962	0.1034	0.2969
U3	LCA	LAG3		9	-138.72	547.493	0.8064	57.5019	130.993	0.6723	0.0235
U3	LCA	LAG4		9	-261.97	306.223	0.4172	88.3894	74.3074	0.2683	0.1503

U3	LCA	LAG5	9	-327.04	358.359	0.3881	102.847	85.8674	0.2653	0.1521
U3	LCA	LAG6	9	-959.65	570.09	0.1308	251.094	135.571	0.1011	0.3001
U3	LCL	LAG0	9	-277.09	361.272	0.4651	76.8308	73.4052	0.3258	0.1204
U3	LCL	LAG1	8	71.6616	418.962	0.869	5.73843	87.2578	0.9494	0.0006
U3	LCL	LAG2	9	116.154	463.269	0.8083	-4.4398	96.0776	0.9643	0.0003
U3	LCL	LAG3	9	-164.48	454.375	0.7267	54.5337	93.0768	0.5741	0.0411
U3	LCL	LAG4	9	-246.16	282.622	0.4091	71.9112	58.31	0.2525	0.1597
U3	LCL	LAG5	9	-294.65	400.861	0.4833	82.4733	83.3461	0.3514	0.109
U3	LCL	LAG6	9	468.373	446.557	0.3249	-75.804	90.6829	0.4275	0.0803
U3	LDOC	LAG0	9	-594.92	358.607	0.1357	188.51	97.0903	0.0881	0.3203
U3	LDOC	LAG1	8	172.966	448.031	0.7109	-20.718	125.55	0.8736	0.0039
U3	LDOC	LAG2	9	497.643	491.728	0.3412	-112.6	137.282	0.4359	0.0776
U3	LDOC	LAG3	9	31.1933	383.1	0.9371	19.4542	105.957	0.8589	0.0042
U3	LDOC	LAG4	9	-246.56	290.732	0.4211	96.4345	80.3584	0.2644	0.1526
U3	LDOC	LAG5	9	-706.76	344.992	0.0747	223.718	95.3727	0.047	0.4075
U3	LDOC	LAG6	9	25.6903	508.1	0.9609	18.9244	137.441	0.8939	0.0024
U3	LK	LAG0	9	-105.87	178.671	0.5698	104.895	90.2161	0.2785	0.1446
U3	LK	LAG1	8	45.6669	216.008	0.8386	28.718	115.111	0.8102	0.0088
U3	LK	LAG2	9	60.8155	169.025	0.7283	18.161	89.4999	0.8443	0.0051
U3	LK	LAG3	9	-30.413	137.257	0.8302	67.6706	69.5674	0.3592	0.1058
U3	LK	LAG4	9	-67.994	128.385	0.6108	89.4315	66.8791	0.2179	0.1827
U3	LK	LAG5	9	-45.426	156.599	0.7791	77.5792	81.9162	0.3713	0.1008
U3	LK	LAG6	9	-0.8581	141.603	0.9953	50.0759	72.5433	0.5095	0.0562
U3	LMG	LAG0	9	-336.8	295.135	0.2868	133.96	90.2208	0.1759	0.216
U3	LMG	LAG1	8	204.922	286.025	0.4969	-33.843	91.1471	0.7214	0.0193
U3	LMG	LAG2	9	317.706	328.354	0.3616	-70.834	104.071	0.5153	0.0547
U3	LMG	LAG3	9	-136.19	368.05	0.721	73.2738	113.292	0.5359	0.0497
U3	LMG	LAG4	9	-143.61	196.022	0.4847	77.6127	61.7324	0.2441	0.165
U3	LMG	LAG5	9	-260.31	285.424	0.3884	113.751	89.5105	0.2395	0.168
U3	LMG	LAG6	9	116.367	364.109	0.7575	-6.3483	110.93	0.9558	0.0004
U3	LNA	LAG0	9	-346.24	369.482	0.3761	97.977	80.924	0.2606	0.1549
U3	LNA	LAG1	8	119.058	413.351	0.7817	-4.505	93.3961	0.9629	0.0003
U3	LNA	LAG2	9	268.627	447.338	0.5648	-39.103	100.476	0.7073	0.0186
U3	LNA	LAG3	9	-200.45	495.144	0.6962	66.936	109.684	0.5586	0.0445
U3	LNA	LAG4	9	-237.68	304.872	0.4581	76.2729	68.4078	0.2972	0.1345
U3	LNA	LAG5	9	-302.71	431.337	0.5027	90.887	96.8792	0.3756	0.0991
U3	LNA	LAG6	9	548.393	480.608	0.2869	-99.185	105.155	0.3732	0.1001
U3	LNH4	LAG0	9	122.717	80.264	0.1648	7.36979	25.3076	0.7783	0.0105
U3	LNH4	LAG1	8	513.496	359.964	0.1968	117.127	101.529	0.2865	0.1598
U3	LNH4	LAG2	8	82.3382	82.062	0.3491	-5.3858	26.7146	0.846	0.0058
U3	LNH4	LAG3	9	84.6777	171.828	0.6354	-5.079	51.7018	0.9242	0.0012
U3	LNH4	LAG4	8	149.571	122.34	0.261	14.6562	37.0654	0.7043	0.0218
U3	LNH4	LAG5	9	139.851	67.2398	0.0711	13.8756	22.8773	0.561	0.044
U3	LNH4	LAG6	9	240.748	170.074	0.1946	48.2094	55.9687	0.4141	0.0849
U3	LNOX	LAG0	4	66.4168	67.4872	0.3976	-2.7857	16.2816	0.875	0.0097
U3	LNOX	LAG1	2	-3163.1	1451.55	0.2739	-668.02	292.057	0.2624	0.8395
U3	LNOX	LAG2	6	127.308	199.729	0.5519	5.15076	48.206	0.9191	0.0023
U3	LNOX	LAG3	6	219.468	204.962	0.3332	22.9984	45.8105	0.637	0.048
U3	LNOX	LAG4	3	-89.086	591.288	0.8941	-43.21	125.823	0.764	0.0557
U3	LNOX	LAG5	5	-70.992	200.836	0.7416	-44.786	49.4531	0.4164	0.1702
U3	LNOX	LAG6	3	-414.91	314.655	0.318	-115.37	67.8156	0.231	0.5914
U3	LOPO4	LAG0	5	1070.85	483.774	0.0913	197.297	95.4037	0.1075	0.5167

U3	LOPO4	LAG1	3	-203.89	169.526	0.3522	-53.449	31.2804	0.2296	0.5935
U3	LOPO4	LAG2	4	-52.568	184.967	0.7947	-27.477	38.5333	0.5273	0.1449
U3	LOPO4	LAG3	6	-2.7864	100.61	0.979	-18.028	20.0833	0.4105	0.1388
U3	LOPO4	LAG4	5	-117.37	271.291	0.6876	-38.827	52.1964	0.4983	0.1215
U3	LOPO4	LAG5	6	-178.26	56.967	0.026	-53.65	11.8273	0.0062	0.8045
U3	LOPO4	LAG6	7	-48.816	77.2165	0.5506	-25.025	14.8987	0.144	0.3198
U3	LSIO2	LAG0	8	250.118	485.817	0.6225	-47.798	161.967	0.7765	0.0123
U3	LSIO2	LAG1	8	252.203	204.671	0.2576	-53.769	71.3574	0.4757	0.075
U3	LSIO2	LAG2	9	507.072	261.77	0.0887	-146.84	92.9355	0.1528	0.2378
U3	LSIO2	LAG3	9	98.1316	182.091	0.6046	1.14081	62.949	0.986	0
U3	LSIO2	LAG4	9	85.8769	164.751	0.6163	5.49773	57.7563	0.9265	0.0011
U3	LSIO2	LAG5	9	-79.041	196.952	0.6987	64.9983	70.4937	0.3835	0.0961
U3	LSIO2	LAG6	9	-51.596	509.089	0.9218	49.1204	169.732	0.7796	0.0104
U3	LSO4	LAG0	9	-133.29	237.457	0.59	57.4657	58.1537	0.352	0.1088
U3	LSO4	LAG1	8	206.455	157.105	0.2302	-29.349	42.4078	0.5112	0.064
U3	LSO4	LAG2	9	258.128	183.609	0.1974	-42.578	47.4914	0.3961	0.0913
U3	LSO4	LAG3	9	-69.945	247.856	0.785	43.5592	62.7501	0.5072	0.0568
U3	LSO4	LAG4	9	-17.141	128.227	0.897	32.54	34.6808	0.3756	0.0991
U3	LSO4	LAG5	9	-83.161	172.134	0.642	48.4688	44.8429	0.3113	0.1274
U3	LSO4	LAG6	9	68.8707	248.812	0.789	6.84011	63.4412	0.9168	0.0015
U3	LTDKN	LAG0	7	-60.1	131.993	0.6649	174.664	140.544	0.2603	0.2047
U3	LTDKN	LAG1	8	102.406	110.939	0.3867	-4.1872	139.013	0.9768	0.0001
U3	LTDKN	LAG2	8	201.874	94.371	0.0697	-120.52	108.357	0.3028	0.1502
U3	LTDKN	LAG3	7	161.615	31.0455	0.002	-91.524	36.4977	0.046	0.5117
U3	LTDKN	LAG4	9	54.9035	76.3683	0.4926	58.7118	92.1409	0.5418	0.0483
U3	LTDKN	LAG5	8	67.6374	105.903	0.5434	37.6653	115.086	0.753	0.0151
U3	LTDKN	LAG6	7	424.242	316.569	0.2287	-312.93	311.584	0.354	0.1439
U3	LTDPO4	LAG0	6	-91.813	164.207	0.6002	-33.909	31.5649	0.3318	0.1875
U3	LTDPO4	LAG1	4	281.149	1617.61	0.8731	29.7244	299.654	0.9272	0.0033
U3	LTDPO4	LAG2	5	-4.5826	463.557	0.9926	-16.035	91.242	0.869	0.0077
U3	LTDPO4	LAG3	6	-128	196.488	0.5435	-48.731	39.6383	0.2736	0.2321
U3	LTDPO4	LAG4	5	330.539	136.598	0.0728	49.048	26.0272	0.1326	0.4703
U3	LTDPO4	LAG5	6	103.266	233.588	0.6769	-2.7953	46.9739	0.9549	0.0007
U3	LTDPO4	LAG6	5	-325.24	511.346	0.5593	-81.085	97.4311	0.4521	0.1476
U3	LTDSCU	LAG0	8	116.204	39.9964	0.0228	29.248	98.6604	0.7755	0.0124
U3	LTDSCU	LAG1	8	128.02	66.8843	0.0972	46.4202	99.2022	0.6541	0.0303
U3	LTDSCU	LAG2	9	94.0642	22.7069	0.0032	-25.007	28.2105	0.4012	0.0894
U3	LTDSCU	LAG3	9	104.376	31.3755	0.0104	9.60783	68.8875	0.8925	0.0024
U3	LTDSCU	LAG4	7	111.362	101.143	0.3131	16.8755	169.361	0.9239	0.0017
U3	LTDSCU	LAG5	9	105.868	18.1182	0.0004	48.6499	21.5209	0.0537	0.3898
U3	LTDSCU	LAG6	8	93.0294	28.9263	0.0147	-11.873	47.4186	0.8095	0.0089
U3	LTDSE	LAG0	7	78.1761	175.863	0.6722	11.4854	71.6136	0.8778	0.0043
U3	LTDSE	LAG1	7	31.4492	210.815	0.8863	30.676	89.0807	0.7423	0.0194
U3	LTDSE	LAG2	5	249.446	191.906	0.2635	-51.903	77.3924	0.5392	0.1011
U3	LTDSE	LAG3	5	252.285	340.038	0.4993	-56.301	141.994	0.712	0.0378
U3	LTDSE	LAG4	5	212.541	275.819	0.4839	-41.595	118.35	0.743	0.03
U3	LTDSE	LAG5	6	-318.62	166.098	0.1132	196.738	74.6214	0.0462	0.5816
U3	LTDSE	LAG6	5	-24.296	404.821	0.955	58.9464	178.765	0.7581	0.0265
U3	LTDSE	LAG0	7	138.667	46.5951	0.0248	-46.78	57.8169	0.4493	0.0984
U3	LTDSE	LAG1	6	154.963	65.7733	0.0651	-67.903	77.4486	0.4207	0.1333
U3	LTDSE	LAG2	6	124.635	68.8562	0.1301	-22.485	76.6126	0.7809	0.0169
U3	LTDSE	LAG3	6	109.33	54.5186	0.1012	-6.6803	57.8464	0.9126	0.0027

U3	LTDSZN	LAG4	6	177.14	114.619	0.1829	-77.065	119.365	0.547	0.077
U3	LTDSZN	LAG5	7	56.7899	17.1754	0.0163	26.1801	13.0619	0.0919	0.401
U3	LTDSZN	LAG6	4	128.329	68.4246	0.1574	-33.174	69.9993	0.6679	0.0697
U3	LTKN	LAG0	7	-372.12	289.84	0.2465	490.322	295.964	0.1487	0.3139
U3	LTKN	LAG1	7	109.659	109.581	0.3556	-4.595	131.597	0.9733	0.0002
U3	LTKN	LAG2	8	192.975	118.416	0.1472	-113.9	142.353	0.4499	0.0838
U3	LTKN	LAG3	8	140.697	126.281	0.302	-38.277	143.792	0.7978	0.01
U3	LTKN	LAG4	8	48.128	86.8864	0.5969	64.8657	101.553	0.5433	0.0551
U3	LTKN	LAG5	8	11.2415	125.323	0.931	104.548	142.625	0.4874	0.0713
U3	LTKN	LAG6	8	728.664	288.434	0.0394	-653.65	299.18	0.0652	0.4054
U3	LTPO4	LAG0	8	38.8658	536.587	0.9443	-12.332	109.613	0.9136	0.0018
U3	LTPO4	LAG1	9	-25.236	663.708	0.9706	-24.581	135.855	0.8609	0.0041
U3	LTPO4	LAG2	7	-558.26	596.944	0.3858	-133.26	119.153	0.3062	0.1725
U3	LTPO4	LAG3	9	-81.763	369.234	0.8303	-38.045	76.5469	0.6325	0.03
U3	LTPO4	LAG4	10	94.3527	219.572	0.6775	-0.4054	46.7167	0.9933	0
U3	LTPO4	LAG5	8	-26.08	159.465	0.8747	-25.537	32.8166	0.462	0.0796
U3	LTPO4	LAG6	9	-29.179	337.416	0.9332	-26.282	70.9089	0.7205	0.0169

UNIVARIATE LAG 0-6
 SURFACE WATER
 LOG MOSQUITOFISH THg vs Y
 BY STATION

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F1	AGP	LAG0	2	1.52299	0.39309	0.1608	0.03442	0.15358	0.8596	0.0478
F1	AGP	LAG2	6	1.79667	0.18693	0.0002	0.02459	0.05618	0.6799	0.0369
F1	AGP	LAG3	2	2.67514	1.42849	0.3122	-0.0956	0.29959	0.8034	0.0924
F1	AGP	LAG4	3	2.16507	0.33546	0.0232	-0.0238	0.0223	0.3982	0.3622
F1	AGP	LAG5	4	2.68947	0.61325	0.022	-0.0595	0.07569	0.489	0.1709
F1	AGP	LAG6	3	1.93853	0.28146	0.0204	-0.009	0.02819	0.7808	0.048
F1	ALK	LAG0	6	3.35689	2.5332	0.2424	-0.0031	0.00819	0.7177	0.0284
F1	ALK	LAG1	9	1.21803	1.49424	0.4386	0.00254	0.00499	0.6241	0.0314
F1	ALK	LAG2	10	2.71444	1.59731	0.1235	-0.0019	0.00539	0.7304	0.0139
F1	ALK	LAG3	7	-4.5219	2.36066	0.1039	0.02109	0.00715	0.0256	0.592
F1	ALK	LAG4	8	2.39947	1.38069	0.1258	-0.0003	0.00428	0.9414	0.0008
F1	ALK	LAG5	8	2.75047	1.36769	0.0842	-0.0023	0.00423	0.6077	0.0396
F1	ALK	LAG6	8	1.97424	2.51388	0.458	0.0007	0.00807	0.9329	0.0011
F1	CA	LAG0	6	1.98861	2.86309	0.5183	0.00452	0.03063	0.8884	0.0043
F1	CA	LAG1	9	1.45678	1.38921	0.325	0.00573	0.01531	0.7177	0.0172
F1	CA	LAG2	10	3.48133	1.64	0.0628	-0.0151	0.01834	0.4326	0.0698
F1	CA	LAG3	7	-1.1729	3.43902	0.7447	0.03614	0.03457	0.3361	0.1541
F1	CA	LAG4	8	2.05069	1.75537	0.281	0.00279	0.01931	0.8893	0.003
F1	CA	LAG5	8	3.22622	1.52749	0.0726	-0.0128	0.01607	0.4525	0.0829
F1	CA	LAG6	8	-0.6445	2.66493	0.8158	0.03135	0.02919	0.3185	0.1414
F1	CL	LAG0	6	2.39664	1.94358	0.2723	0.00005	0.01156	0.9966	0
F1	CL	LAG1	9	-0.7329	1.24718	0.573	0.01714	0.0078	0.0592	0.3765
F1	CL	LAG2	10	4.26328	1.97161	0.0588	-0.0129	0.01191	0.3081	0.1148
F1	CL	LAG3	7	-1.1002	1.83614	0.571	0.02044	0.01055	0.1009	0.3847
F1	CL	LAG4	8	2.73902	1.17514	0.0526	-0.0026	0.00656	0.7044	0.0218
F1	CL	LAG5	8	2.45645	1.00766	0.0449	-0.0024	0.00556	0.6734	0.0269
F1	CL	LAG6	8	4.36109	1.72025	0.0389	-0.0134	0.01038	0.2386	0.1916
F1	DOC	LAG0	8	-1.2093	2.36064	0.6242	0.0775	0.05194	0.1793	0.2413
F1	DOC	LAG1	9	1.12975	2.11684	0.6081	0.01943	0.04872	0.7004	0.0195
F1	DOC	LAG2	10	6.28621	2.28633	0.0225	-0.0925	0.05086	0.1023	0.2687
F1	DOC	LAG3	8	-0.2237	1.2768	0.8659	0.059	0.02916	0.0827	0.3691
F1	DOC	LAG4	10	3.05283	1.07275	0.0192	-0.0205	0.02353	0.4068	0.0776
F1	DOC	LAG5	10	4.23367	1.66149	0.0313	-0.0439	0.0346	0.2362	0.1518
F1	DOC	LAG6	8	1.38482	2.09146	0.5291	0.01904	0.04857	0.7066	0.0215
F1	K	LAG0	6	2.72449	2.41646	0.3107	-0.0442	0.32796	0.8979	0.0036
F1	K	LAG1	9	2.62251	1.12134	0.0475	-0.0919	0.15281	0.5642	0.0433
F1	K	LAG2	10	3.21701	0.99755	0.0104	-0.1504	0.13521	0.2949	0.1208
F1	K	LAG3	7	4.92956	2.00272	0.049	-0.3257	0.25361	0.2464	0.2156
F1	K	LAG4	8	-0.3809	1.54713	0.8126	0.35914	0.20313	0.1204	0.3087
F1	K	LAG5	8	1.82128	1.15283	0.1582	0.02601	0.13729	0.8551	0.0051
F1	K	LAG6	8	2.0636	2.02424	0.3419	0.01485	0.23164	0.9507	0.0006
F1	MG	LAG0	6	2.6191	2.5605	0.3533	-0.007	0.08174	0.9355	0.0014
F1	MG	LAG1	9	1.19185	1.3042	0.3875	0.02653	0.04368	0.5605	0.0441
F1	MG	LAG2	10	3.19304	1.75356	0.102	-0.0361	0.0602	0.5633	0.0385
F1	MG	LAG3	7	-1.5182	2.77616	0.6042	0.12174	0.08554	0.2045	0.2524

F1	MG	LAG4	8	2.02499	1.58121	0.2411	0.0094	0.05283	0.8639	0.0045
F1	MG	LAG5	8	2.79701	1.27743	0.0647	-0.0248	0.04029	0.5584	0.0512
F1	MG	LAG6	8	0.71027	2.57211	0.7904	0.04905	0.08427	0.5788	0.0462
F1	NA	LAG0	6	2.83028	2.07876	0.2315	-0.0039	0.01841	0.8417	0.0088
F1	NA	LAG1	9	-0.5741	1.29306	0.6688	0.02334	0.0117	0.0811	0.3322
F1	NA	LAG2	10	3.65892	1.82961	0.0766	-0.0138	0.01657	0.4268	0.0715
F1	NA	LAG3	7	-0.9955	1.71212	0.5821	0.02896	0.01435	0.0901	0.4044
F1	NA	LAG4	8	2.6836	1.1703	0.0556	-0.0033	0.00959	0.7386	0.0169
F1	NA	LAG5	8	2.53823	1.0109	0.0403	-0.0044	0.00835	0.6175	0.0375
F1	NA	LAG6	8	4.73828	1.94347	0.0449	-0.0229	0.01722	0.2246	0.2022
F1	NH4	LAG0	8	2.2664	0.70404	0.0147	0.15676	7.76496	0.9845	0.0001
F1	NH4	LAG1	9	2.3468	0.96994	0.0419	-9.4884	23.2982	0.6945	0.0203
F1	NH4	LAG2	9	2.85246	0.76547	0.0058	-12.468	12.8014	0.3586	0.106
F1	NH4	LAG3	8	2.15331	0.728	0.0212	2.04383	9.50775	0.8359	0.0066
F1	NH4	LAG4	9	2.38164	0.47707	0.0011	-2.1838	3.07547	0.4978	0.0593
F1	NH4	LAG5	10	1.91407	0.61284	0.0123	2.51248	5.44089	0.6552	0.0231
F1	NH4	LAG6	8	2.32619	0.45137	0.0013	-0.8544	1.54217	0.5968	0.042
F1	NO2	LAG0	1	4.81285			-125.4			1
F1	NO2	LAG2	1	1.30331			42.8226			1
F1	NO2	LAG5	1	1.62575			-6.0853			1
F1	NO2	LAG6	0	1.60141			0			
F1	NOX	LAG0	6	2.13407	0.50075	0.008	-0.2076	10.4644	0.9849	0.0001
F1	NOX	LAG1	3	2.57909	1.03293	0.1299	-11.804	48.213	0.8294	0.0291
F1	NOX	LAG2	4	2.31583	0.68553	0.0432	0.48398	12.4848	0.9715	0.0005
F1	NOX	LAG3	6	1.58934	0.60816	0.0475	32.4353	30.1876	0.3317	0.1876
F1	NOX	LAG4	3	2.72749	1.56966	0.2244	-75.139	157.163	0.6797	0.1026
F1	NOX	LAG5	6	3.45006	0.77736	0.0068	-84.197	49.0105	0.1465	0.3712
F1	NOX	LAG6	3	0.74979	3.28202	0.8405	166.699	387.463	0.709	0.0847
F1	OPO4	LAG0	8	1.93608	0.5014	0.0062	8.93411	10.1212	0.4067	0.1002
F1	OPO4	LAG1	10	2.27556	0.44553	0.0006	-3.4802	9.33271	0.7179	0.0152
F1	OPO4	LAG2	7	2.08806	0.5181	0.0069	-2.2881	9.14264	0.8107	0.0103
F1	OPO4	LAG3	10	2.29331	0.54321	0.0022	-3.5304	11.5198	0.7662	0.0103
F1	OPO4	LAG4	8	2.32525	0.57502	0.0049	0.49564	9.99557	0.9618	0.0004
F1	OPO4	LAG5	8	2.3373	0.38151	0.0005	-4.1596	3.64816	0.2917	0.1566
F1	OPO4	LAG6	9	2.21879	0.48471	0.0018	-0.1726	4.76961	0.972	0.0002
F1	SIO2	LAG0	5	-0.5125	4.24115	0.9096	0.13842	0.18722	0.5007	0.1202
F1	SIO2	LAG1	9	1.98313	1.24429	0.1496	-0.0008	0.05895	0.9899	0
F1	SIO2	LAG2	10	5.73033	0.81608	<.0001	-0.1786	0.03985	0.0015	0.6907
F1	SIO2	LAG3	7	0.84195	2.92651	0.7833	0.07333	0.13641	0.6102	0.046
F1	SIO2	LAG4	8	1.99233	1.40289	0.1985	0.01555	0.06875	0.8275	0.0073
F1	SIO2	LAG5	8	2.36106	1.56053	0.174	-0.0162	0.07536	0.8363	0.0065
F1	SIO2	LAG6	8	-0.3509	2.44382	0.8899	0.11732	0.11156	0.3279	0.1364
F1	SO4	LAG0	6	1.86506	1.15147	0.1662	0.0099	0.01924	0.6289	0.0503
F1	SO4	LAG1	9	1.73587	0.75144	0.0497	0.00411	0.01246	0.7499	0.0134
F1	SO4	LAG2	10	2.47331	0.84522	0.0169	-0.0063	0.01564	0.6969	0.0177
F1	SO4	LAG3	7	3.45263	1.08597	0.0191	-0.0168	0.01628	0.3409	0.1513
F1	SO4	LAG4	8	0.71059	1.07536	0.5299	0.03502	0.02262	0.1655	0.2551
F1	SO4	LAG5	8	2.45029	0.7765	0.016	-0.0088	0.01515	0.5801	0.0458
F1	SO4	LAG6	8	0.56155	1.42508	0.7053	0.02981	0.02525	0.2764	0.166
F1	TDKN	LAG0	6	1.64207	1.83186	0.4111	0.12564	0.62316	0.8482	0.0081
F1	TDKN	LAG1	9	2.19219	1.56456	0.1987	-0.0833	0.57069	0.8876	0.0027
F1	TDKN	LAG2	9	6.01487	1.93785	0.0146	-1.417	0.71537	0.0829	0.3291

F1	TDKN	LAG3	7	-0.7636	1.22626	0.5564	1.10123	0.46632	0.0562	0.4817
F1	TDKN	LAG4	10	2.5279	1.22879	0.0698	-0.1395	0.4475	0.7623	0.0107
F1	TDKN	LAG5	8	5.14004	1.25096	0.0045	-0.9899	0.42896	0.0544	0.432
F1	TDKN	LAG6	8	2.35663	2.35596	0.3505	-0.0578	0.81063	0.9452	0.0007
F1	TDPO4	LAG0	6	1.71203	0.62381	0.0406	16.2798	11.1242	0.2032	0.2999
F1	TDPO4	LAG1	9	2.32723	0.41182	0.0005	-7.6588	6.91438	0.3002	0.133
F1	TDPO4	LAG2	8	2.24118	0.51944	0.0035	-3.9442	8.28456	0.6485	0.0314
F1	TDPO4	LAG3	8	2.04875	0.65835	0.017	4.79825	10.9085	0.6733	0.0269
F1	TDPO4	LAG4	7	2.63981	0.49825	0.0018	-2.0701	3.17451	0.5385	0.0662
F1	TDPO4	LAG5	8	2.41321	0.41964	0.0007	-4.1647	3.5114	0.2743	0.1673
F1	TDPO4	LAG6	7	2.20022	0.64912	0.0147	0.66305	5.66685	0.9107	0.0023
F1	TDSCU	LAG0	5	3.19883	1.10662	0.0445	-0.5451	0.90044	0.5776	0.0839
F1	TDSCU	LAG1	8	0.64012	0.35538	0.1147	1.36043	0.31758	0.0036	0.7239
F1	TDSCU	LAG2	9	2.0752	1.08886	0.0931	-0.1336	1.30503	0.921	0.0013
F1	TDSCU	LAG3	7	3.20734	0.71024	0.004	-0.6522	0.49364	0.2346	0.2253
F1	TDSCU	LAG4	6	4.24715	1.76411	0.0611	-2.3042	2.20048	0.343	0.1799
F1	TDSCU	LAG5	8	2.06091	0.91216	0.0584	-0.0412	1.24439	0.9745	0.0002
F1	TDSCU	LAG6	7	1.24034	0.68297	0.1193	1.0772	0.65923	0.1534	0.308
F1	TDSFE	LAG0	5	2.59618	0.78064	0.0292	-0.0367	0.05109	0.5125	0.1141
F1	TDSFE	LAG1	8	2.41767	0.62394	0.0061	-0.0257	0.03397	0.4741	0.0756
F1	TDSFE	LAG2	7	2.27331	0.69342	0.0169	-0.0159	0.04413	0.7316	0.0211
F1	TDSFE	LAG3	6	2.45197	0.7654	0.0239	-0.0189	0.04394	0.6842	0.0359
F1	TDSFE	LAG4	7	2.27036	0.78107	0.0271	0.00764	0.04214	0.8621	0.0054
F1	TDSFE	LAG5	6	1.39743	0.6769	0.0939	0.04851	0.03755	0.253	0.2502
F1	TDSFE	LAG6	8	0.83575	0.60788	0.2116	0.08769	0.03487	0.0401	0.4746
F1	TDSZN	LAG0	4	2.66416	1.05583	0.0859	-0.1309	0.2384	0.6211	0.0913
F1	TDSZN	LAG1	7	0.99004	0.11875	0.0002	0.356	0.03313	<.0001	0.9506
F1	TDSZN	LAG2	3	3.11996	1.91113	0.2442	-0.2628	0.53781	0.6734	0.1067
F1	TDSZN	LAG3	4	3.06976	0.86435	0.038	-0.2031	0.19712	0.3786	0.2614
F1	TDSZN	LAG4	4	1.58612	2.05108	0.4957	0.39522	0.71487	0.6189	0.0925
F1	TDSZN	LAG5	4	3.22272	1.29788	0.089	-0.4777	0.5033	0.4126	0.2309
F1	TDSZN	LAG6	6	3.63942	1.09392	0.0208	-0.4761	0.35577	0.2385	0.2637
F1	TKN	LAG0	8	1.36462	1.97302	0.5114	0.32763	0.69454	0.6515	0.0308
F1	TKN	LAG1	8	3.31401	1.52118	0.0658	-0.4667	0.5357	0.4125	0.0978
F1	TKN	LAG2	9	8.35083	2.69225	0.0146	-2.2078	0.96361	0.0512	0.3962
F1	TKN	LAG3	8	-1.219	1.13592	0.3188	1.27751	0.40428	0.0159	0.5879
F1	TKN	LAG4	9	2.90875	1.25792	0.0495	-0.2489	0.43426	0.5823	0.0394
F1	TKN	LAG5	10	4.62636	1.2098	0.0041	-0.8305	0.39751	0.0663	0.3266
F1	TKN	LAG6	8	1.62357	1.74969	0.3843	0.18915	0.56894	0.7493	0.0155
F1	TPO4	LAG0	9	1.75307	0.57902	0.0164	5.96676	7.1779	0.4299	0.0795
F1	TPO4	LAG1	10	2.16616	0.57261	0.0043	-0.1154	6.4056	0.986	0
F1	TPO4	LAG2	8	2.21462	0.70803	0.0167	1.19047	7.76555	0.8825	0.0033
F1	TPO4	LAG3	10	2.40683	0.58264	0.0026	-3.6609	7.23019	0.6248	0.0277
F1	TPO4	LAG4	9	2.42309	0.46859	0.0009	-1.627	2.85544	0.5845	0.039
F1	TPO4	LAG5	8	2.80673	0.49948	0.0008	-5.766	3.6638	0.1595	0.2614
F1	TPO4	LAG6	9	2.21989	0.61573	0.0069	-0.125	4.76369	0.9797	0.0001

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F2	AGP	LAG0	1	1.22768			1.27295			1
F2	AGP	LAG1	2	4.79415	0.2883	0.0382	-1.3772	0.15397	0.0709	0.9877
F2	AGP	LAG2	3	2.53265	0.43305	0.028	-0.1487	0.22851	0.5821	0.1747
F2	AGP	LAG3	1	4.34381			-7.6684			1
F2	AGP	LAG4	2	1.55995	1.15472	0.4057	0.24987	0.38262	0.6317	0.299
F2	AGP	LAG5	2	0.62923	0.43072	0.3821	5.65917	1.05754	0.1176	0.9663
F2	AGP	LAG6	2	2.60417	0.74645	0.1777	-0.174	0.34351	0.7015	0.2042
F2	ALK	LAG0	7	2.53743	2.0049	0.2526	-0.0002	0.00682	0.9755	0.0002
F2	ALK	LAG1	7	1.05506	1.94232	0.6066	0.00486	0.00641	0.4776	0.0872
F2	ALK	LAG2	7	7.48643	2.62467	0.0291	-0.0199	0.01028	0.1014	0.3839
F2	ALK	LAG3	7	4.91254	1.56242	0.02	-0.0088	0.0054	0.1552	0.3057
F2	ALK	LAG4	7	-0.729	2.3871	0.7704	0.01221	0.00893	0.2203	0.2378
F2	ALK	LAG5	6	0.00643	3.02079	0.9984	0.00962	0.01121	0.4301	0.1284
F2	ALK	LAG6	7	1.42285	2.05321	0.5142	0.00354	0.00669	0.6154	0.0447
F2	CA	LAG0	7	-0.172	3.22696	0.9592	0.03154	0.03799	0.4381	0.1031
F2	CA	LAG1	7	3.20786	2.42613	0.2343	-0.0086	0.02797	0.7676	0.0157
F2	CA	LAG2	7	7.47529	2.06162	0.011	-0.0666	0.02702	0.0487	0.5033
F2	CA	LAG3	7	4.24115	2.99303	0.2063	-0.0211	0.03528	0.5712	0.0564
F2	CA	LAG4	7	-1.1163	2.09441	0.6132	0.04569	0.02608	0.1303	0.3384
F2	CA	LAG5	6	1.43635	2.68047	0.615	0.01393	0.03261	0.6871	0.0352
F2	CA	LAG6	7	1.04672	3.33257	0.7641	0.01588	0.03659	0.6795	0.0304
F2	CL	LAG0	7	2.35824	2.51023	0.3838	0.00074	0.01558	0.9635	0.0004
F2	CL	LAG1	7	1.16878	2.13372	0.6036	0.00893	0.01417	0.5515	0.0622
F2	CL	LAG2	7	4.98798	1.84787	0.0356	-0.0175	0.01245	0.2101	0.2471
F2	CL	LAG3	7	3.69411	2.17074	0.1397	-0.0079	0.01372	0.5844	0.0527
F2	CL	LAG4	7	-0.1908	1.94016	0.9249	0.01993	0.0141	0.2071	0.2499
F2	CL	LAG5	6	0.19496	2.70879	0.9454	0.01755	0.01973	0.4143	0.1367
F2	CL	LAG6	7	3.9036	2.41577	0.1572	-0.0086	0.0142	0.5674	0.0575
F2	DOC	LAG0	7	1.11349	4.49766	0.8127	0.03035	0.09955	0.7708	0.0153
F2	DOC	LAG1	7	1.95918	3.02372	0.541	0.01229	0.0709	0.8681	0.005
F2	DOC	LAG2	7	7.13947	2.18594	0.0171	-0.1152	0.05309	0.0731	0.4396
F2	DOC	LAG3	7	3.45397	3.0259	0.2972	-0.0235	0.0716	0.7538	0.0177
F2	DOC	LAG4	7	0.53963	2.57061	0.8407	0.05077	0.06612	0.4717	0.0895
F2	DOC	LAG5	6	-2.8731	2.86251	0.3616	0.12787	0.06658	0.1129	0.4245
F2	DOC	LAG6	7	-1.1095	2.93115	0.7181	0.08289	0.06689	0.2616	0.2038
F2	K	LAG0	7	-2.7868	2.30812	0.2727	0.73778	0.31911	0.0601	0.4711
F2	K	LAG1	7	4.86257	1.56282	0.0208	-0.345	0.21666	0.1624	0.2971
F2	K	LAG2	7	5.83734	1.06595	0.0015	-0.463	0.14028	0.0164	0.6448
F2	K	LAG3	7	3.32911	3.04365	0.316	-0.1225	0.43025	0.7854	0.0133
F2	K	LAG4	7	-0.6836	1.3627	0.6338	0.46939	0.19464	0.0525	0.4922
F2	K	LAG5	6	1.52092	2.06463	0.4944	0.14051	0.26946	0.6243	0.0516
F2	K	LAG6	7	2.06162	2.70143	0.4743	0.05317	0.34047	0.881	0.004
F2	MG	LAG0	7	1.25848	2.69293	0.6568	0.04329	0.094	0.6614	0.0341
F2	MG	LAG1	7	2.70555	2.05725	0.2365	-0.0083	0.07134	0.9116	0.0022
F2	MG	LAG2	7	6.44399	1.84833	0.013	-0.1617	0.07357	0.0704	0.4459
F2	MG	LAG3	7	3.24721	2.40505	0.2257	-0.0283	0.08611	0.7535	0.0177
F2	MG	LAG4	7	-0.7033	1.65535	0.6858	0.12453	0.06283	0.0948	0.3956
F2	MG	LAG5	6	0.70788	2.2213	0.7629	0.06959	0.08103	0.4296	0.1286
F2	MG	LAG6	7	1.68305	2.93881	0.5877	0.02569	0.09377	0.7933	0.0124

F2	NA	LAG0	7	2.52628	2.29407	0.313	-0.0005	0.02105	0.9826	0.0001
F2	NA	LAG1	7	1.09334	2.12854	0.6259	0.01359	0.02033	0.5286	0.0693
F2	NA	LAG2	7	4.7449	1.80577	0.0392	-0.0232	0.01786	0.2411	0.22
F2	NA	LAG3	7	3.68049	2.14913	0.1376	-0.0115	0.01984	0.5846	0.0526
F2	NA	LAG4	7	-0.8832	2.04676	0.6812	0.03661	0.0218	0.1441	0.3197
F2	NA	LAG5	6	0.31992	2.70989	0.9106	0.02452	0.0291	0.4379	0.1243
F2	NA	LAG6	7	3.59811	2.35237	0.177	-0.0096	0.01963	0.642	0.0384
F2	NH4	LAG0	7	2.32394	0.69184	0.0152	1.38773	4.15796	0.7499	0.0182
F2	NH4	LAG1	7	2.03396	0.52105	0.008	6.06765	3.80121	0.1615	0.2981
F2	NH4	LAG2	7	3.18709	0.53359	0.001	-11.12	5.4361	0.0868	0.4109
F2	NH4	LAG3	7	2.97487	0.51531	0.0012	-6.5293	3.73276	0.1308	0.3377
F2	NH4	LAG4	7	4.42946	1.89728	0.0583	-65.683	61.6697	0.3278	0.159
F2	NH4	LAG5	6	2.33695	0.77823	0.03	3.25197	7.52014	0.6834	0.0361
F2	NH4	LAG6	7	2.27791	0.62256	0.0106	2.52359	4.49327	0.5947	0.0499
F2	NO2	LAG3	0	1.88707			0			
F2	NO2	LAG4	0	4.34381			0			
F2	NO2	LAG6	0	0.37156			0			
F2	NOX	LAG0	3	2.70231	0.48078	0.0302	-14.686	10.5948	0.3	0.49
F2	NOX	LAG1	4	2.61341	2.38643	0.3535	30.1705	285.232	0.9224	0.0037
F2	NOX	LAG2	2	1.88153	2.60032	0.6012	155.496	234.463	0.6272	0.3055
F2	NOX	LAG3	3	1.99192	1.38833	0.2878	63.7679	74.2891	0.4811	0.2692
F2	NOX	LAG4	3	-5.2418	2.41812	0.1625	781.69	257.408	0.0935	0.8218
F2	NOX	LAG5	1	-0.4369			115.491			1
F2	NOX	LAG6	2	4.12062	0.51114	0.0786	-76.041	24.1132	0.1955	0.9086
F2	OPO4	LAG0	5	1.37395	0.40831	0.0282	15.0416	5.08804	0.0417	0.686
F2	OPO4	LAG1	4	1.70927	1.29882	0.2797	23.4578	39.1289	0.5911	0.107
F2	OPO4	LAG2	5	3.47004	0.50697	0.0024	-17.549	6.36215	0.0509	0.6554
F2	OPO4	LAG3	5	3.97897	1.11608	0.0235	-44.268	32.1073	0.2401	0.3221
F2	OPO4	LAG4	5	1.28801	0.6903	0.1355	49.0833	24.5832	0.1166	0.4992
F2	OPO4	LAG5	6	2.02486	0.63966	0.0249	4.4143	8.39994	0.6217	0.0523
F2	OPO4	LAG6	5	1.77986	1.24882	0.2272	14.3952	31.7252	0.6735	0.049
F2	SIO2	LAG0	6	4.37694	4.12022	0.3367	-0.0862	0.20111	0.6859	0.0355
F2	SIO2	LAG1	7	3.67993	1.34235	0.0337	-0.0697	0.07228	0.3723	0.1341
F2	SIO2	LAG2	7	5.05309	1.00053	0.0023	-0.1604	0.0583	0.0333	0.5577
F2	SIO2	LAG3	7	2.19097	2.5805	0.4284	0.01602	0.14232	0.914	0.0021
F2	SIO2	LAG4	7	0.45891	1.07357	0.684	0.11344	0.05591	0.0888	0.4069
F2	SIO2	LAG5	6	-0.1616	1.33944	0.9087	0.15088	0.07034	0.0848	0.4792
F2	SIO2	LAG6	7	3.19023	3.91156	0.4459	-0.0332	0.18028	0.8598	0.0056
F2	SO4	LAG0	7	0.42377	1.0817	0.7088	0.04412	0.02157	0.0868	0.4108
F2	SO4	LAG1	7	3.83909	0.88152	0.0048	-0.0301	0.01699	0.1273	0.3427
F2	SO4	LAG2	7	4.2301	0.93922	0.0041	-0.0428	0.02069	0.0841	0.4162
F2	SO4	LAG3	7	2.05677	1.4467	0.2049	0.00949	0.03057	0.7668	0.0158
F2	SO4	LAG4	7	0.47933	0.84979	0.5932	0.03943	0.01519	0.0409	0.529
F2	SO4	LAG5	6	1.17709	1.3255	0.4152	0.02727	0.02397	0.307	0.2055
F2	SO4	LAG6	7	2.70965	1.89161	0.202	-0.0043	0.03372	0.9016	0.0028
F2	TDKN	LAG0	4	3.46469	2.33168	0.234	-0.324	0.78933	0.709	0.0532
F2	TDKN	LAG1	7	1.04505	1.73487	0.569	0.54489	0.63317	0.4225	0.1099
F2	TDKN	LAG2	6	6.38707	1.33843	0.005	-1.5799	0.57012	0.0393	0.6057
F2	TDKN	LAG3	5	4.70517	1.6364	0.0452	-1.0051	0.59647	0.1672	0.4152
F2	TDKN	LAG4	7	0.27382	2.15108	0.9029	1.01806	0.96917	0.334	0.1553
F2	TDKN	LAG5	5	0.31035	2.91399	0.9203	0.88161	1.17297	0.4941	0.1238
F2	TDKN	LAG6	5	-0.3564	2.62532	0.8986	1.01868	0.86088	0.3022	0.2593

F2	TDPO4	LAG0	6	1.81355	0.65763	0.0399	7.87316	5.7965	0.2325	0.2695
F2	TDPO4	LAG1	7	1.84892	0.85817	0.0746	16.9314	18.9435	0.4059	0.1175
F2	TDPO4	LAG2	6	2.81545	0.50393	0.0025	-8.8068	4.55756	0.1112	0.4275
F2	TDPO4	LAG3	6	3.56471	1.09824	0.0228	-22.734	20.0387	0.308	0.2047
F2	TDPO4	LAG4	7	1.67112	0.95041	0.1292	23.3965	23.7093	0.3618	0.1396
F2	TDPO4	LAG5	5	2.74288	0.91119	0.0395	-0.0084	7.53773	0.9992	0
F2	TDPO4	LAG6	6	1.69778	1.08589	0.1787	10.2062	18.5493	0.6058	0.0571
F2	TDSCU	LAG0	6	2.29969	0.84704	0.042	0.27378	0.52256	0.6227	0.052
F2	TDSCU	LAG1	6	3.00696	2.05486	0.2032	-0.7321	3.21258	0.8288	0.0103
F2	TDSCU	LAG2	6	2.39599	0.89532	0.044	-0.2048	0.80101	0.8084	0.0129
F2	TDSCU	LAG3	7	2.53949	0.72122	0.0125	-0.0638	0.4906	0.9008	0.0028
F2	TDSCU	LAG4	6	3.41488	1.31915	0.0489	-0.9038	1.74138	0.6259	0.0511
F2	TDSCU	LAG5	6	0.41215	1.36349	0.7746	2.89175	1.72084	0.1537	0.3609
F2	TDSCU	LAG6	7	1.96431	0.7148	0.0334	0.41763	0.42579	0.3646	0.1382
F2	TDSFE	LAG0	4	2.87718	2.31812	0.3027	-0.0511	0.2028	0.8175	0.0207
F2	TDSFE	LAG1	4	3.38839	1.772	0.1518	-0.0996	0.13966	0.5272	0.145
F2	TDSFE	LAG2	3	4.58647	2.65424	0.2261	-0.1941	0.28172	0.5621	0.1918
F2	TDSFE	LAG3	4	2.72235	1.67086	0.2017	-0.0087	0.14819	0.9566	0.0012
F2	TDSFE	LAG4	3	2.12208	2.76737	0.5233	0.07137	0.26379	0.8121	0.0353
F2	TDSFE	LAG5	3	2.6408	1.86124	0.2917	-0.0134	0.14357	0.9344	0.0043
F2	TDSFE	LAG6	5	-0.9347	0.73319	0.2714	0.27477	0.05537	0.0077	0.8602
F2	TDSZN	LAG0	6	2.30509	1.36744	0.1527	0.05544	0.37322	0.8877	0.0044
F2	TDSZN	LAG1	4	1.87337	1.50715	0.3022	0.12192	0.41894	0.79	0.0275
F2	TDSZN	LAG2	5	2.80576	1.59799	0.154	-0.0849	0.27444	0.7725	0.0234
F2	TDSZN	LAG3	6	2.29528	1.21671	0.1179	-0.0295	0.45385	0.9507	0.0008
F2	TDSZN	LAG4	5	3.90709	0.86481	0.0107	-0.4992	0.24251	0.1087	0.5144
F2	TDSZN	LAG5	3	2.12356	3.26975	0.5827	0.06919	1.00252	0.9513	0.0024
F2	TDSZN	LAG6	4	2.47405	1.27161	0.1469	-0.0122	0.24019	0.9627	0.0009
F2	TKN	LAG0	6	3.79229	2.81241	0.2354	-0.3846	0.90892	0.6898	0.0346
F2	TKN	LAG1	6	1.4988	1.30537	0.3028	0.49943	0.48047	0.3462	0.1777
F2	TKN	LAG2	7	7.07121	1.02398	0.0005	-1.9149	0.41409	0.0036	0.7809
F2	TKN	LAG3	6	5.2411	2.18108	0.0614	-0.9507	0.74798	0.2597	0.2442
F2	TKN	LAG4	6	-0.7681	2.47216	0.7686	1.4739	1.13533	0.2509	0.2521
F2	TKN	LAG5	6	0.78457	2.62704	0.7772	0.699	1.01308	0.5209	0.0869
F2	TKN	LAG6	7	1.00904	2.47231	0.6973	0.48675	0.80291	0.5666	0.0577
F2	TPO4	LAG0	6	1.66267	0.70622	0.0652	8.76863	6.10344	0.2103	0.2922
F2	TPO4	LAG1	7	1.93841	1.05119	0.1147	10.4519	17.8627	0.5798	0.054
F2	TPO4	LAG2	6	3.06857	0.61771	0.0042	-9.7332	5.5248	0.1384	0.383
F2	TPO4	LAG3	6	4.04183	1.2525	0.0233	-27.084	19.7904	0.2294	0.2725
F2	TPO4	LAG4	7	1.72281	0.98162	0.1298	13.9688	15.7283	0.4087	0.1162
F2	TPO4	LAG5	6	2.3606	0.88099	0.0438	1.46586	7.35078	0.8498	0.0079
F2	TPO4	LAG6	6	1.96217	1.35838	0.2082	4.01262	19.1778	0.8425	0.0087

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F3	AGP	LAG2	3	2.74254	0.25783	0.0087	1.35329	0.83059	0.2448	0.5703
F3	AGP	LAG4	2	3.04522	0.88057	0.1792	-0.1989	1.67219	0.9246	0.014
F3	AGP	LAG5	2	2.32303	1.54753	0.3741	2.4574	5.74942	0.7429	0.1545
F3	ALK	LAG0	6	0.98635	2.39782	0.6979	0.00825	0.0095	0.4249	0.131
F3	ALK	LAG1	6	5.45722	2.23311	0.0584	-0.0094	0.00798	0.2916	0.2174
F3	ALK	LAG2	7	3.52715	1.76441	0.0925	-0.0022	0.00711	0.7704	0.0153
F3	ALK	LAG3	6	4.51044	1.9507	0.0687	-0.0049	0.00747	0.5421	0.0788
F3	ALK	LAG4	7	1.02205	1.6236	0.5522	0.00739	0.00595	0.2603	0.2047
F3	ALK	LAG5	6	2.65866	1.78669	0.1969	0.00138	0.00693	0.85	0.0079
F3	ALK	LAG6	6	1.68172	3.20278	0.622	0.00445	0.01151	0.7151	0.029
F3	CA	LAG0	6	-0.1039	2.53197	0.9689	0.03929	0.03131	0.2649	0.2396
F3	CA	LAG1	6	4.66522	1.6393	0.036	-0.0212	0.01877	0.3103	0.203
F3	CA	LAG2	7	4.89845	1.64897	0.0249	-0.026	0.02211	0.2846	0.187
F3	CA	LAG3	6	3.14329	2.13631	0.2012	0.00125	0.0254	0.9626	0.0005
F3	CA	LAG4	7	0.60759	1.31486	0.6603	0.0296	0.01588	0.1115	0.3668
F3	CA	LAG5	6	2.46515	1.67713	0.2016	0.00693	0.02086	0.7533	0.0216
F3	CA	LAG6	6	2.25621	3.01693	0.4882	0.00721	0.03298	0.8356	0.0095
F3	CL	LAG0	6	2.13171	1.7614	0.2803	0.00636	0.01199	0.6186	0.0533
F3	CL	LAG1	6	1.46112	3.24962	0.6718	0.00967	0.02237	0.6837	0.036
F3	CL	LAG2	7	3.76557	1.54145	0.0503	-0.0056	0.01096	0.6279	0.0416
F3	CL	LAG3	6	2.24837	1.24534	0.1308	0.00686	0.00835	0.4488	0.1189
F3	CL	LAG4	7	1.68762	1.84083	0.3946	0.0097	0.01337	0.4953	0.0807
F3	CL	LAG5	6	2.59587	1.90462	0.2311	0.00309	0.01406	0.8346	0.0096
F3	CL	LAG6	6	3.64976	2.04831	0.1349	-0.0047	0.01278	0.7276	0.0264
F3	DOC	LAG0	6	2.77264	1.01015	0.0406	0.00505	0.01736	0.7828	0.0166
F3	DOC	LAG1	6	4.58066	2.22788	0.0949	-0.0409	0.05217	0.4682	0.1096
F3	DOC	LAG2	7	6.24598	1.10726	0.0013	-0.0846	0.02823	0.0241	0.5995
F3	DOC	LAG3	6	3.08764	2.24529	0.2275	0.0039	0.05432	0.9455	0.001
F3	DOC	LAG4	7	2.87076	0.78795	0.0108	0.00269	0.01463	0.8601	0.0056
F3	DOC	LAG5	6	1.9097	0.77284	0.0565	0.02153	0.01359	0.1741	0.334
F3	DOC	LAG6	6	-1.1819	2.75799	0.6861	0.09709	0.06495	0.1952	0.3089
F3	K	LAG0	6	1.00255	2.80636	0.7355	0.28742	0.39179	0.4961	0.0972
F3	K	LAG1	6	3.87729	1.56366	0.0559	-0.1357	0.20188	0.5314	0.0828
F3	K	LAG2	7	3.78646	1.47028	0.042	-0.1164	0.21114	0.6014	0.0482
F3	K	LAG3	6	3.02002	1.79554	0.1534	0.03089	0.2407	0.9029	0.0033
F3	K	LAG4	7	0.58633	0.96396	0.5653	0.33871	0.13072	0.0412	0.5281
F3	K	LAG5	6	2.27338	1.70082	0.2389	0.10134	0.22862	0.6761	0.0378
F3	K	LAG6	6	3.99406	3.34846	0.2865	-0.1315	0.40319	0.7575	0.0208
F3	MG	LAG0	6	1.8114	1.99605	0.4058	0.0474	0.07538	0.5571	0.0733
F3	MG	LAG1	6	4.1678	1.65615	0.0534	-0.0465	0.05724	0.4539	0.1164
F3	MG	LAG2	7	3.78051	1.48284	0.0435	-0.0332	0.06128	0.6072	0.0467
F3	MG	LAG3	6	2.44996	1.57809	0.1813	0.02986	0.05815	0.6295	0.0501
F3	MG	LAG4	7	0.7366	1.29166	0.5892	0.08584	0.04773	0.1222	0.3503
F3	MG	LAG5	6	2.49983	1.4103	0.1365	0.01962	0.05238	0.7233	0.0273
F3	MG	LAG6	6	1.91848	2.49811	0.4772	0.03329	0.08282	0.7043	0.0313
F3	NA	LAG0	6	1.95263	1.79558	0.3265	0.01126	0.0181	0.5613	0.0718
F3	NA	LAG1	6	3.38194	3.19029	0.3376	-0.0052	0.03142	0.8745	0.0055
F3	NA	LAG2	7	3.78501	1.53421	0.0487	-0.0084	0.01601	0.6177	0.0441
F3	NA	LAG3	6	2.3626	1.39505	0.1511	0.00887	0.01371	0.5462	0.0772

F3	NA	LAG4	7	0.63669	1.86056	0.7439	0.02496	0.01936	0.2448	0.2169
F3	NA	LAG5	6	2.61627	1.92877	0.233	0.00429	0.02082	0.8447	0.0084
F3	NA	LAG6	6	3.78019	2.28781	0.1594	-0.008	0.02082	0.715	0.029
F3	NH4	LAG0	6	3.15991	1.49269	0.0878	-4.3373	51.9507	0.9367	0.0014
F3	NH4	LAG1	6	11.5877	1.91628	0.0018	-332.2	72.6216	0.006	0.8071
F3	NH4	LAG2	7	4.36201	1.51292	0.0279	-43.25	46.8125	0.3912	0.1245
F3	NH4	LAG3	6	1.02753	0.56144	0.1267	76.5526	18.7758	0.0096	0.7688
F3	NH4	LAG4	7	2.20614	1.74295	0.2525	34.1284	73.3914	0.6583	0.0348
F3	NH4	LAG5	6	5.13892	0.86673	0.0019	-75.844	29.1913	0.0484	0.5745
F3	NH4	LAG6	6	3.23524	1.90865	0.1508	-11.228	64.3041	0.8682	0.0061
F3	NOX	LAG0	2	1.77803	0.51416	0.1792	0.0058	0.00424	0.402	0.6516
F3	NOX	LAG1	2	2.68471	1.03812	0.2349	-1.5988	93.4773	0.9891	0.0003
F3	NOX	LAG2	4	2.95048	1.15682	0.0839	15.3891	60.0428	0.8143	0.0214
F3	NOX	LAG3	2	3.81847	0.18885	0.0315	0.00147	0.00156	0.5185	0.471
F3	NOX	LAG4	2	6.42677	2.75567	0.2579	-287.45	210.526	0.4024	0.6509
F3	NOX	LAG5	2	4.25801	2.0447	0.285	-97.889	106.684	0.5274	0.4571
F3	NOX	LAG6	2	2.98079	0.01499	0.0032	-0.0033	0.00012	0.024	0.9986
F3	OPO4	LAG0	5	2.40631	0.33222	0.0019	6.13039	3.12407	0.1212	0.4905
F3	OPO4	LAG1	4	3.33411	1.51973	0.1158	-74.48	156.086	0.6658	0.0705
F3	OPO4	LAG2	5	3.42161	0.37891	0.0008	-8.259	3.55931	0.0811	0.5737
F3	OPO4	LAG3	5	4.00936	1.60373	0.0668	-84.88	146.096	0.5924	0.0778
F3	OPO4	LAG4	4	0.88213	1.5585	0.611	199.43	146.871	0.2676	0.3806
F3	OPO4	LAG5	6	2.68119	0.38764	0.001	3.49698	3.92906	0.4142	0.1368
F3	OPO4	LAG6	4	3.75898	1.9544	0.1501	-102.34	208.577	0.6573	0.0743
F3	SIO2	LAG0	5	3.63932	2.21462	0.1757	-0.0271	0.12358	0.8371	0.0119
F3	SIO2	LAG1	6	3.18056	0.89601	0.0164	-0.019	0.04743	0.706	0.0309
F3	SIO2	LAG2	7	3.41591	0.87261	0.0079	-0.0328	0.06294	0.6205	0.0434
F3	SIO2	LAG3	6	4.2186	0.88109	0.0049	-0.061	0.05303	0.3019	0.2093
F3	SIO2	LAG4	7	2.02722	0.68362	0.0251	0.05989	0.03772	0.1635	0.2958
F3	SIO2	LAG5	6	1.8887	0.91049	0.0927	0.07139	0.05341	0.2389	0.2632
F3	SIO2	LAG6	6	1.09271	1.96425	0.602	0.09216	0.09779	0.3893	0.1508
F3	SO4	LAG0	6	1.26871	1.08797	0.2962	0.03553	0.02077	0.1478	0.3693
F3	SO4	LAG1	6	3.55857	0.83223	0.0079	-0.0135	0.01449	0.3938	0.1482
F3	SO4	LAG2	7	3.85277	0.82938	0.0035	-0.02	0.01786	0.3053	0.173
F3	SO4	LAG3	6	3.60949	1.00752	0.0158	-0.0069	0.01836	0.7237	0.0272
F3	SO4	LAG4	7	1.32579	0.63971	0.0836	0.03121	0.01108	0.0305	0.5695
F3	SO4	LAG5	6	2.22306	1.02742	0.0828	0.01515	0.01837	0.4471	0.1197
F3	SO4	LAG6	6	2.99441	2.00091	0.1948	-0.0014	0.03296	0.9672	0.0004
F3	TDKN	LAG0	3	-0.3275	1.22967	0.8149	1.68533	0.57009	0.0979	0.8138
F3	TDKN	LAG1	6	3.32081	1.91752	0.1439	-0.1871	0.75611	0.8144	0.0121
F3	TDKN	LAG2	6	5.21177	1.00513	0.0035	-0.9353	0.46785	0.102	0.4443
F3	TDKN	LAG3	4	3.23251	2.38556	0.2684	-0.1079	1.07419	0.9264	0.0033
F3	TDKN	LAG4	7	0.76361	1.46822	0.6216	1.01063	0.6491	0.1705	0.2878
F3	TDKN	LAG5	5	2.56478	1.86298	0.2406	0.14693	0.78714	0.861	0.0086
F3	TDKN	LAG6	4	-1.255	3.73416	0.7589	1.61774	1.4018	0.3321	0.3075
F3	TDPO4	LAG0	6	2.83584	0.43598	0.0013	2.84578	2.86711	0.3665	0.1646
F3	TDPO4	LAG1	6	3.83325	1.23016	0.0264	-57.026	68.6454	0.444	0.1213
F3	TDPO4	LAG2	6	3.18185	0.26479	<.0001	-4.8061	1.74155	0.0399	0.6037
F3	TDPO4	LAG3	6	2.11594	1.12211	0.118	56.1792	54.2121	0.3476	0.1768
F3	TDPO4	LAG4	7	1.65633	0.97006	0.1386	74.6274	51.0557	0.1941	0.2626
F3	TDPO4	LAG5	5	3.00638	0.54864	0.0054	1.42939	3.34176	0.6909	0.0437
F3	TDPO4	LAG6	6	4.9716	0.99115	0.004	-114.55	52.6152	0.0814	0.4867

F3	TDSCU	LAG0	5	3.08734	1.20581	0.0626	0.0756	1.07749	0.9474	0.0012
F3	TDSCU	LAG1	5	2.73672	1.16865	0.0792	0.20495	1.54595	0.9009	0.0044
F3	TDSCU	LAG2	6	3.74785	0.76046	0.0044	-1.1812	0.90685	0.2495	0.2534
F3	TDSCU	LAG3	6	4.03517	0.64011	0.0015	-0.9408	0.70662	0.2405	0.2618
F3	TDSCU	LAG4	6	3.23722	0.63397	0.0038	0.00996	0.5462	0.9862	0.0001
F3	TDSCU	LAG5	6	1.85487	0.57054	0.0227	1.31769	0.5617	0.0659	0.524
F3	TDSCU	LAG6	6	4.74031	0.85093	0.0026	-1.9807	0.86731	0.0712	0.5105
F3	TDSFE	LAG0	3	2.76357	1.33323	0.1739	0.08887	0.2229	0.7286	0.0736
F3	TDSFE	LAG1	5	3.44902	1.24325	0.0501	-0.052	0.10593	0.649	0.0569
F3	TDSFE	LAG2	3	2.63863	2.44493	0.3933	0.08386	0.32291	0.8194	0.0326
F3	TDSFE	LAG3	3	3.35927	1.12544	0.0963	-0.0419	0.13117	0.7797	0.0485
F3	TDSFE	LAG4	4	1.61308	1.60466	0.3888	0.15657	0.1368	0.3355	0.3039
F3	TDSFE	LAG5	3	3.05911	1.31897	0.1462	-0.0026	0.11954	0.9847	0.0002
F3	TDSFE	LAG6	4	2.47409	1.47513	0.1921	0.04582	0.13463	0.756	0.0372
F3	TDSZN	LAG0	5	4.7373	0.68498	0.0023	-0.6779	0.31396	0.097	0.5382
F3	TDSZN	LAG1	4	3.36889	0.43671	0.0045	-0.0601	0.02811	0.1222	0.6035
F3	TDSZN	LAG2	5	2.40825	0.61059	0.0169	0.13643	0.14219	0.3916	0.1871
F3	TDSZN	LAG3	5	3.50471	0.69334	0.0072	-0.1242	0.23761	0.6288	0.0639
F3	TDSZN	LAG4	6	3.13949	0.33368	0.0002	0.01425	0.02478	0.5903	0.062
F3	TDSZN	LAG5	5	3.33805	0.65254	0.0069	-0.1079	0.16606	0.5514	0.0954
F3	TDSZN	LAG6	2	4.95245	1.03452	0.1311	-0.8245	0.32397	0.2383	0.8663
F3	TKN	LAG0	4	-4.269	5.35817	0.4838	3.08586	2.20555	0.2562	0.3949
F3	TKN	LAG1	5	3.39641	1.41054	0.0737	-0.1181	0.59081	0.8514	0.0099
F3	TKN	LAG2	7	5.76428	1.29639	0.0043	-1.2219	0.56041	0.072	0.4421
F3	TKN	LAG3	4	6.86761	4.65339	0.2365	-1.5582	1.93422	0.4794	0.1778
F3	TKN	LAG4	6	-0.3851	1.73297	0.8329	1.61281	0.83474	0.1112	0.4275
F3	TKN	LAG5	6	2.69396	1.91411	0.2183	0.13094	0.78726	0.8744	0.0055
F3	TKN	LAG6	5	-0.9995	3.02841	0.7579	1.55304	1.16234	0.2525	0.3086
F3	TPO4	LAG0	7	2.7823	0.39192	0.0004	2.98732	2.85148	0.3352	0.1546
F3	TPO4	LAG1	7	3.49364	0.79036	0.0045	-16.467	23.6563	0.5124	0.0747
F3	TPO4	LAG2	6	3.30174	0.33163	0.0002	-5.2383	2.27834	0.0698	0.5139
F3	TPO4	LAG3	7	4.58831	0.89551	0.0022	-52.956	28.2727	0.1102	0.369
F3	TPO4	LAG4	7	2.3098	0.78134	0.0254	25.5491	26.1282	0.3659	0.1375
F3	TPO4	LAG5	6	2.85485	0.48574	0.002	1.86327	3.323	0.5992	0.0592
F3	TPO4	LAG6	7	2.80359	1.01337	0.0326	6.75986	32.6595	0.8429	0.0071

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F4	AGP	LAG0	2	1.28229	0.31758	0.1546	8.71379	1.30091	0.0943	0.9782
F4	AGP	LAG2	4	3.86531	0.40144	0.0024	-1.2649	0.81186	0.2171	0.4473
F4	AGP	LAG4	5	3.23878	0.45843	0.0021	-0.1732	0.91809	0.8595	0.0088
F4	AGP	LAG5	3	3.44683	1.28363	0.1152	-0.0428	3.8195	0.9921	0.0001
F4	AGP	LAG6	4	3.67936	1.0373	0.0382	-0.8521	3.07862	0.7999	0.0249
F4	ALK	LAG0	8	2.46393	1.75243	0.2025	0.00378	0.00731	0.6213	0.0367
F4	ALK	LAG1	8	3.07636	1.26755	0.0456	0.00065	0.00461	0.8921	0.0028
F4	ALK	LAG2	9	3.64927	1.14266	0.0127	-0.0019	0.00469	0.7006	0.0195
F4	ALK	LAG3	9	3.56985	1.54491	0.0496	-0.0008	0.00666	0.903	0.002
F4	ALK	LAG4	8	2.64092	1.12119	0.0507	0.00251	0.00436	0.5824	0.0453
F4	ALK	LAG5	8	1.97707	1.03989	0.099	0.0052	0.00426	0.2621	0.1753
F4	ALK	LAG6	9	2.18639	1.06838	0.0749	0.00423	0.00394	0.3138	0.1262
F4	CA	LAG0	8	1.35677	1.78386	0.4717	0.02585	0.02281	0.2945	0.155
F4	CA	LAG1	8	3.79266	1.23359	0.018	-0.0064	0.0143	0.6686	0.0277
F4	CA	LAG2	9	4.39888	1.06108	0.0032	-0.0159	0.01386	0.2838	0.1416
F4	CA	LAG3	9	2.63119	1.27591	0.0731	0.00997	0.01679	0.5691	0.0422
F4	CA	LAG4	8	2.35101	0.93815	0.0406	0.01157	0.01146	0.3464	0.1271
F4	CA	LAG5	8	2.01652	0.92956	0.0667	0.01584	0.01193	0.226	0.2011
F4	CA	LAG6	9	3.0245	1.35366	0.0559	0.00342	0.01602	0.8364	0.0057
F4	CL	LAG0	8	2.18725	1.05138	0.076	0.00844	0.00737	0.2896	0.1579
F4	CL	LAG1	8	3.18042	1.2172	0.0348	0.00051	0.00852	0.9541	0.0005
F4	CL	LAG2	9	3.65716	0.98223	0.0058	-0.0036	0.00751	0.6476	0.0274
F4	CL	LAG3	9	3.31446	0.88587	0.0057	0.00049	0.00663	0.9431	0.0007
F4	CL	LAG4	8	2.0342	0.99049	0.0791	0.00959	0.0075	0.2418	0.1893
F4	CL	LAG5	8	2.59978	1.09743	0.0497	0.00517	0.00897	0.5825	0.0453
F4	CL	LAG6	9	3.14766	1.05524	0.0175	0.00109	0.00698	0.8793	0.0031
F4	DOC	LAG0	8	2.716	1.20633	0.0591	0.01728	0.03166	0.6021	0.0408
F4	DOC	LAG1	8	3.28645	1.41388	0.053	-0.0009	0.03514	0.9808	0.0001
F4	DOC	LAG2	9	4.06839	1.09073	0.0058	-0.0241	0.02983	0.4417	0.0757
F4	DOC	LAG3	9	3.30365	1.15077	0.0208	0.00208	0.03171	0.9494	0.0005
F4	DOC	LAG4	8	2.23746	1.08136	0.0773	0.02755	0.02819	0.3609	0.1201
F4	DOC	LAG5	8	1.60432	0.89785	0.1171	0.04455	0.0242	0.1082	0.3262
F4	DOC	LAG6	9	2.61424	1.10937	0.0462	0.01818	0.02838	0.5397	0.0488
F4	K	LAG0	8	0.73468	1.10363	0.5269	0.36403	0.15067	0.0464	0.4547
F4	K	LAG1	8	3.56491	1.0333	0.0107	-0.0442	0.14187	0.7646	0.0137
F4	K	LAG2	9	4.24341	0.85036	0.0011	-0.1546	0.12279	0.2434	0.1654
F4	K	LAG3	9	3.25269	0.9976	0.0115	0.01738	0.13533	0.901	0.0021
F4	K	LAG4	8	2.46554	0.87827	0.0262	0.10974	0.11572	0.3745	0.1139
F4	K	LAG5	8	2.52974	0.98116	0.0366	0.09001	0.1248	0.4941	0.0692
F4	K	LAG6	9	2.78489	1.55094	0.1103	0.06832	0.19985	0.7413	0.0144
F4	MG	LAG0	8	2.03133	1.30188	0.1627	0.05176	0.04984	0.3335	0.1335
F4	MG	LAG1	8	3.36779	1.02127	0.0132	-0.0042	0.03609	0.9102	0.0019
F4	MG	LAG2	9	3.65504	1.02942	0.0075	-0.0191	0.04246	0.6646	0.0247
F4	MG	LAG3	9	2.97808	1.02484	0.0197	0.01644	0.04119	0.7002	0.0195
F4	MG	LAG4	8	2.30543	0.86377	0.032	0.03667	0.03177	0.2863	0.1599
F4	MG	LAG5	8	2.00188	0.82511	0.0457	0.04952	0.03254	0.1719	0.2486
F4	MG	LAG6	9	3.34679	1.21996	0.0253	-0.0013	0.04218	0.9754	0.0001
F4	NA	LAG0	8	1.88868	1.0668	0.12	0.01545	0.01094	0.2007	0.2218
F4	NA	LAG1	8	3.40694	1.21965	0.0268	-0.0016	0.01243	0.9004	0.0024

F4	NA	LAG2	9	3.76325	0.96543	0.0046	-0.0063	0.01057	0.5677	0.0425
F4	NA	LAG3	9	3.50382	0.94079	0.0058	-0.0014	0.01024	0.8936	0.0024
F4	NA	LAG4	8	1.97326	1.02371	0.0953	0.01431	0.01104	0.2361	0.1935
F4	NA	LAG5	8	2.75245	1.05895	0.0355	0.00539	0.01197	0.6659	0.0282
F4	NA	LAG6	9	3.04318	1.1453	0.0289	0.00259	0.01092	0.8185	0.007
F4	NH4	LAG0	8	2.40583	1.11354	0.0676	33.1339	37.7068	0.4087	0.0993
F4	NH4	LAG1	8	3.54674	0.36788	<.0001	-10.061	10.0332	0.3494	0.1256
F4	NH4	LAG2	9	3.5419	0.7313	0.0013	-13.713	28.2106	0.6399	0.0287
F4	NH4	LAG3	9	2.95984	0.70302	0.003	16.1913	25.9135	0.5495	0.0465
F4	NH4	LAG4	8	1.62634	1.09404	0.1807	74.1991	48.4872	0.1698	0.2507
F4	NH4	LAG5	8	3.46184	1.03605	0.0124	-10.358	42.8231	0.8158	0.0083
F4	NH4	LAG6	9	2.02858	0.93599	0.0621	43.6896	31.0774	0.1974	0.1981
F4	NOX	LAG0	3	3.36212	0.84084	0.0572	-5.6193	20.741	0.8118	0.0354
F4	NOX	LAG2	5	3.16875	0.56262	0.0049	-8.0434	31.6582	0.812	0.0159
F4	NOX	LAG3	3	2.85275	0.89513	0.086	64.844	69.1122	0.4472	0.3056
F4	NOX	LAG4	2	0.9811	2.76666	0.7831	492.017	546.099	0.5331	0.448
F4	NOX	LAG5	4	3.54187	0.63028	0.0111	-27.199	35.9368	0.5041	0.1603
F4	NOX	LAG6	3	2.95969	0.59158	0.0377	22.789	24.3344	0.4479	0.3048
F4	OPO4	LAG0	5	3.00292	0.34513	0.001	8.93324	6.01176	0.2115	0.3557
F4	OPO4	LAG1	3	3.68255	0.46563	0.0156	-39.448	28.0533	0.2949	0.4971
F4	OPO4	LAG2	4	3.33764	0.381	0.0031	-6.2299	6.03416	0.3778	0.2622
F4	OPO4	LAG3	6	3.36824	0.50749	0.0012	12.5834	60.047	0.8423	0.0087
F4	OPO4	LAG4	3	2.02092	1.58049	0.3293	188.679	220.235	0.4819	0.2685
F4	OPO4	LAG5	4	3.23104	0.42217	0.0046	-0.8094	6.69083	0.9114	0.0049
F4	OPO4	LAG6	6	4.14461	0.61875	0.0011	-107.2	83.2062	0.254	0.2492
F4	SIO2	LAG0	7	3.31343	1.24791	0.0378	0.00813	0.0668	0.9071	0.0025
F4	SIO2	LAG1	8	3.22806	0.73577	0.0032	0.00128	0.03774	0.974	0.0002
F4	SIO2	LAG2	9	3.19409	0.82123	0.0046	0.00048	0.04906	0.9925	0
F4	SIO2	LAG3	9	2.82981	0.67084	0.0029	0.03417	0.03968	0.4143	0.0848
F4	SIO2	LAG4	8	2.66299	0.61253	0.0034	0.03395	0.03204	0.3245	0.1382
F4	SIO2	LAG5	8	2.65508	0.67981	0.0059	0.03415	0.03892	0.4094	0.0991
F4	SIO2	LAG6	9	2.57836	1.00131	0.0329	0.03879	0.05171	0.4747	0.0657
F4	SO4	LAG0	8	1.6001	0.58967	0.03	0.03192	0.01024	0.0169	0.5812
F4	SO4	LAG1	8	3.28683	0.64367	0.0014	-0.0006	0.01089	0.9548	0.0005
F4	SO4	LAG2	9	3.5827	0.56941	0.0002	-0.008	0.01105	0.4924	0.0607
F4	SO4	LAG3	9	2.75138	0.69259	0.0041	0.0126	0.01327	0.3703	0.1012
F4	SO4	LAG4	8	2.43868	0.55704	0.0032	0.01562	0.00979	0.1548	0.2665
F4	SO4	LAG5	8	2.83478	0.6181	0.0025	0.00761	0.0114	0.5257	0.0599
F4	SO4	LAG6	9	3.63415	0.89068	0.0035	-0.0059	0.01554	0.7142	0.0177
F4	TDKN	LAG0	6	-0.1624	1.04433	0.8825	1.5371	0.46784	0.0218	0.6834
F4	TDKN	LAG1	8	3.7761	1.10975	0.0114	-0.228	0.47182	0.6436	0.0323
F4	TDKN	LAG2	8	3.90439	1.28034	0.0186	-0.3042	0.61696	0.637	0.0336
F4	TDKN	LAG3	7	4.32439	1.00663	0.0051	-0.5167	0.50237	0.3434	0.1499
F4	TDKN	LAG4	8	2.45066	0.98212	0.0413	0.39058	0.45463	0.4187	0.0954
F4	TDKN	LAG5	7	2.08701	1.19903	0.1324	0.54161	0.55814	0.3693	0.1357
F4	TDKN	LAG6	7	2.15114	1.61468	0.2311	0.54549	0.65728	0.4384	0.103
F4	TDPO4	LAG0	8	3.20447	0.26623	<.0001	5.95729	4.65539	0.2414	0.1896
F4	TDPO4	LAG1	8	3.55978	0.3202	<.0001	-26.165	20.3508	0.2395	0.191
F4	TDPO4	LAG2	9	3.31928	0.2214	<.0001	-4.9145	4.08071	0.2629	0.1535
F4	TDPO4	LAG3	9	4.56917	0.95701	0.0014	-147.11	115.462	0.2384	0.1687
F4	TDPO4	LAG4	8	3.4076	1.08911	0.0166	-16.322	131.538	0.9047	0.0022
F4	TDPO4	LAG5	8	3.22475	0.26508	<.0001	-0.2711	4.64245	0.9551	0.0005

F4	TDPO4	LAG6	9	4.02942	0.97169	0.0032	-96.098	125.76	0.4667	0.068
F4	TDSCU	LAG0	7	2.45087	0.55519	0.0045	1.21224	0.61452	0.096	0.3934
F4	TDSCU	LAG1	7	3.02194	0.52566	0.0012	0.1392	0.67481	0.8434	0.007
F4	TDSCU	LAG2	9	3.31471	0.28186	<.0001	-0.075	0.12398	0.5619	0.0438
F4	TDSCU	LAG3	9	2.79877	0.35182	<.0001	0.69989	0.36268	0.0898	0.3176
F4	TDSCU	LAG4	7	3.94919	0.5937	0.0006	-0.8805	0.78893	0.3071	0.1719
F4	TDSCU	LAG5	8	3.18623	0.32975	<.0001	0.01878	0.13618	0.8942	0.0027
F4	TDSCU	LAG6	8	3.20315	0.54756	0.0006	0.12776	0.55004	0.823	0.0076
F4	TDSFE	LAG0	4	6.29843	0.48065	0.001	-0.4494	0.06788	0.007	0.9359
F4	TDSFE	LAG1	6	2.93986	1.09887	0.0441	0.05252	0.14878	0.7385	0.0243
F4	TDSFE	LAG2	2	2.89694	2.47492	0.4501	0.00259	0.27046	0.9939	0.0001
F4	TDSFE	LAG3	4	1.91982	0.96809	0.1416	0.21657	0.1251	0.1819	0.4997
F4	TDSFE	LAG4	5	3.43462	0.45884	0.0017	-0.0204	0.03193	0.5571	0.0928
F4	TDSFE	LAG5	3	3.67376	2.24488	0.2434	-0.0284	0.26644	0.9249	0.0056
F4	TDSFE	LAG6	2	0.03846	10.4038	0.9976	0.46516	1.4288	0.7996	0.0958
F4	TDSZN	LAG0	7	3.0886	0.39839	0.0002	0.10206	0.08999	0.3	0.1765
F4	TDSZN	LAG1	3	3.35504	0.8097	0.0536	0.1623	0.35438	0.6919	0.0949
F4	TDSZN	LAG2	7	3.55996	0.46265	0.0003	-0.0724	0.08765	0.4405	0.1021
F4	TDSZN	LAG3	6	3.78918	0.39629	0.0002	-0.0841	0.08958	0.391	0.1498
F4	TDSZN	LAG4	4	3.53566	0.57735	0.0088	-0.1206	0.17086	0.5312	0.1424
F4	TDSZN	LAG5	7	3.63414	0.38741	<.0001	-0.112	0.0813	0.2176	0.2402
F4	TDSZN	LAG6	6	3.21074	0.45694	0.0009	0.0731	0.10169	0.5044	0.0937
F4	TKN	LAG0	7	-0.9381	1.16923	0.453	1.83318	0.48321	0.009	0.7058
F4	TKN	LAG1	6	3.54378	1.16636	0.0288	-0.0889	0.47431	0.8587	0.007
F4	TKN	LAG2	8	4.24986	0.91088	0.0023	-0.5345	0.4084	0.232	0.1966
F4	TKN	LAG3	8	3.7669	1.03519	0.0083	-0.1704	0.49482	0.7406	0.0167
F4	TKN	LAG4	6	3.07794	1.07388	0.0352	0.03543	0.50226	0.9465	0.001
F4	TKN	LAG5	8	1.76025	0.97071	0.1127	0.64943	0.42271	0.1683	0.2522
F4	TKN	LAG6	8	2.54347	1.62207	0.1609	0.32929	0.63776	0.6215	0.0367
F4	TPO4	LAG0	8	3.18382	0.27205	<.0001	4.35214	3.3415	0.234	0.1951
F4	TPO4	LAG1	9	3.58313	0.29295	<.0001	-19.258	11.4448	0.1309	0.2614
F4	TPO4	LAG2	9	3.45392	0.2491	<.0001	-4.0911	3.24019	0.2423	0.1662
F4	TPO4	LAG3	9	4.33516	0.82507	0.0008	-63.839	53.2801	0.2651	0.1521
F4	TPO4	LAG4	10	2.96016	0.31593	<.0001	18.1803	13.3236	0.2055	0.1714
F4	TPO4	LAG5	8	3.32778	0.30905	<.0001	-0.435	3.79848	0.912	0.0019
F4	TPO4	LAG6	9	3.09464	1.12343	0.0249	15.0739	77.2668	0.8502	0.0047

station	independent	month	df	intercept	se_int	pvalue_int	slope	se_slope	p value	r_square
		lag							slope	
F5	ALK	LAG0	5	1.54678	1.13498	0.2446	0.00845	0.0044	0.1271	0.4799
F5	ALK	LAG1	5	3.51185	1.20473	0.0435	0.00075	0.00498	0.8874	0.0057
F5	ALK	LAG2	6	4.07833	0.93922	0.0074	-0.0019	0.004	0.6593	0.042
F5	ALK	LAG3	5	3.33751	1.54449	0.0968	0.00115	0.00599	0.8578	0.009
F5	ALK	LAG4	5	2.71029	0.98071	0.0507	0.00398	0.00409	0.3861	0.191
F5	ALK	LAG5	5	3.28221	1.11437	0.0422	0.0018	0.00459	0.7152	0.037
F5	ALK	LAG6	5	4.15167	1.35312	0.0374	-0.0024	0.00538	0.6732	0.0491
F5	CA	LAG0	5	1.42638	1.03965	0.242	0.02984	0.01346	0.091	0.5512
F5	CA	LAG1	5	3.76329	1.1011	0.0268	-0.001	0.01453	0.9469	0.0013
F5	CA	LAG2	6	4.03303	0.94819	0.0081	-0.0054	0.01304	0.6959	0.0332
F5	CA	LAG3	5	3.35552	1.66288	0.1138	0.00356	0.02143	0.8762	0.0068
F5	CA	LAG4	5	2.72141	0.85883	0.0339	0.01271	0.01148	0.3304	0.2345
F5	CA	LAG5	5	2.81016	1.13173	0.068	0.01214	0.01492	0.4616	0.142
F5	CA	LAG6	5	4.02251	1.45141	0.0503	-0.0064	0.01926	0.7565	0.0268
F5	CL	LAG0	5	2.41181	1.0489	0.083	0.00868	0.00693	0.2783	0.282
F5	CL	LAG1	5	5.16265	1.72782	0.0404	-0.0116	0.01338	0.4362	0.1573
F5	CL	LAG2	5	5.0992	1.45617	0.0249	-0.0118	0.01096	0.3413	0.2255
F5	CL	LAG3	5	4.01667	1.30646	0.0371	-0.0026	0.00858	0.7748	0.0229
F5	CL	LAG4	5	3.15925	1.06495	0.0413	0.00405	0.00887	0.6716	0.0495
F5	CL	LAG5	4	5.01361	2.08272	0.0953	-0.0104	0.01612	0.5659	0.1212
F5	CL	LAG6	5	5.12136	0.9887	0.0066	-0.0108	0.00667	0.1791	0.3982
F5	DOC	LAG0	5	1.25403	1.17791	0.347	0.06188	0.02949	0.1038	0.524
F5	DOC	LAG1	5	3.90341	1.82972	0.0998	-0.0056	0.0469	0.9108	0.0035
F5	DOC	LAG2	6	4.87326	1.58478	0.0276	-0.0351	0.04515	0.4717	0.108
F5	DOC	LAG3	5	3.65998	1.80917	0.1131	-0.0008	0.04518	0.9862	0.0001
F5	DOC	LAG4	5	3.21912	1.11263	0.0444	0.01128	0.02968	0.7232	0.0349
F5	DOC	LAG5	5	2.64231	1.74982	0.2055	0.03078	0.05007	0.572	0.0863
F5	DOC	LAG6	5	3.60633	1.63659	0.0923	-0.0015	0.04213	0.9731	0.0003
F5	K	LAG0	5	1.84894	0.88064	0.1037	0.23864	0.11121	0.0984	0.5351
F5	K	LAG1	5	4.10155	1.19121	0.0262	-0.0602	0.16826	0.7384	0.0311
F5	K	LAG2	6	4.24477	1.16773	0.015	-0.0837	0.16174	0.6269	0.0508
F5	K	LAG3	5	3.11261	1.15015	0.0537	0.0675	0.14601	0.6679	0.0507
F5	K	LAG4	5	3.19274	0.87116	0.0215	0.06771	0.12815	0.6252	0.0652
F5	K	LAG5	5	3.95026	1.34604	0.0426	-0.0343	0.18319	0.8605	0.0087
F5	K	LAG6	5	3.70324	0.95038	0.0176	-0.0216	0.12717	0.8735	0.0071
F5	MG	LAG0	5	2.14741	1.16679	0.1395	0.05575	0.04128	0.2481	0.3133
F5	MG	LAG1	5	4.25115	1.15624	0.0213	-0.0234	0.04659	0.6415	0.0594
F5	MG	LAG2	6	4.59482	0.98742	0.0056	-0.0407	0.04159	0.3723	0.161
F5	MG	LAG3	5	3.48404	1.35544	0.062	0.0052	0.04808	0.9191	0.0029
F5	MG	LAG4	5	2.97914	0.87467	0.0271	0.02854	0.03654	0.4783	0.1324
F5	MG	LAG5	5	3.41651	1.18678	0.0451	0.01233	0.04935	0.815	0.0154
F5	MG	LAG6	5	4.25425	1.1607	0.0215	-0.0263	0.04223	0.5669	0.0885
F5	NA	LAG0	5	2.27972	1.07576	0.1014	0.01437	0.01068	0.2499	0.3114
F5	NA	LAG1	5	5.07249	1.46693	0.0259	-0.0159	0.0166	0.3915	0.1872
F5	NA	LAG2	6	5.08102	0.85439	0.0019	-0.0166	0.00966	0.1466	0.3709
F5	NA	LAG3	5	4.10529	1.44893	0.0472	-0.0048	0.01423	0.753	0.0276
F5	NA	LAG4	5	3.15075	1.06586	0.0417	0.00601	0.01293	0.6665	0.0512
F5	NA	LAG5	5	4.07982	1.17206	0.0253	-0.0045	0.01353	0.7574	0.0266
F5	NA	LAG6	5	5.43794	1.03743	0.0063	-0.0193	0.01041	0.1373	0.4623

F5	NH4	LAG0	5	1.18249	1.20068	0.3805	68.3342	32.2706	0.1016	0.5285
F5	NH4	LAG1	5	4.66736	1.3776	0.0276	-35.184	48.4687	0.5081	0.1164
F5	NH4	LAG2	6	3.09154	0.65243	0.0052	17.8032	19.339	0.3995	0.1449
F5	NH4	LAG3	5	1.38478	1.59054	0.4331	60.6026	42.4836	0.2269	0.3372
F5	NH4	LAG4	5	4.09538	1.89245	0.0964	-18.732	74.7667	0.8145	0.0155
F5	NH4	LAG5	5	4.67912	0.60708	0.0015	-30.157	17.4788	0.1596	0.4267
F5	NH4	LAG6	5	3.20781	1.31413	0.0711	9.59367	36.2643	0.8044	0.0172
F5	NOX	LAG0	3	4.23832	0.15574	0.0013	-13.476	2.40679	0.0304	0.94
F5	NOX	LAG2	4	3.21529	0.7268	0.0214	16.3413	28.7201	0.6092	0.0974
F5	NOX	LAG3	2	3.8929	0.29554	0.0482	10.5789	10.5639	0.4995	0.5007
F5	NOX	LAG4	2	2.98758	0.57659	0.1214	59.051	38.1301	0.365	0.7057
F5	NOX	LAG5	3	4.9735	0.29758	0.0036	-55.428	11.8416	0.0427	0.9164
F5	NOX	LAG6	2	4.47513	0.15931	0.0227	-41.602	5.69462	0.0866	0.9816
F5	OPO4	LAG0	4	5.62496	0.69191	0.0039	-485.44	148.191	0.0466	0.7815
F5	OPO4	LAG2	2	4.71965	1.32816	0.1746	-76.905	96.5245	0.5717	0.3883
F5	OPO4	LAG3	4	4.44051	0.46168	0.0024	-110.23	78.4873	0.2548	0.3967
F5	OPO4	LAG5	2	3.41967	0.60005	0.1106	19.047	43.6088	0.7378	0.1602
F5	OPO4	LAG6	5	3.50842	0.6669	0.0063	6.25991	118.824	0.9605	0.0007
F5	SIO2	LAG0	4	3.44407	1.57709	0.1169	0.02253	0.0759	0.786	0.0285
F5	SIO2	LAG1	5	4.49471	1.32688	0.0276	-0.0407	0.06536	0.5675	0.0883
F5	SIO2	LAG2	5	3.75671	0.68104	0.0053	-0.0128	0.03847	0.7569	0.0267
F5	SIO2	LAG3	5	3.81247	1.16725	0.0309	-0.0099	0.06036	0.8775	0.0067
F5	SIO2	LAG4	5	2.52725	0.80769	0.0352	0.05966	0.04179	0.2266	0.3376
F5	SIO2	LAG5	4	3.5816	0.93583	0.0314	0.00653	0.05059	0.9054	0.0055
F5	SIO2	LAG6	5	2.76373	0.96295	0.0455	0.04196	0.0498	0.4469	0.1507
F5	SO4	LAG0	5	2.45814	0.70963	0.0257	0.02203	0.01209	0.1425	0.4537
F5	SO4	LAG1	5	4.04857	0.6222	0.0029	-0.0079	0.0121	0.5511	0.0956
F5	SO4	LAG2	5	3.14084	1.0198	0.0369	0.00737	0.01782	0.7005	0.041
F5	SO4	LAG3	5	3.6703	0.98267	0.0202	-0.0008	0.01672	0.9654	0.0005
F5	SO4	LAG4	5	3.25251	0.54523	0.004	0.00868	0.01088	0.4698	0.1372
F5	SO4	LAG5	4	0.99817	0.68953	0.2435	0.04551	0.01138	0.028	0.8421
F5	SO4	LAG6	5	3.75148	0.81851	0.0102	-0.004	0.01509	0.8062	0.0169
F5	TDKN	LAG0	4	0.86193	0.85684	0.3886	1.19132	0.35566	0.0441	0.789
F5	TDKN	LAG1	5	5.18442	1.26106	0.0147	-0.6235	0.51468	0.2924	0.2684
F5	TDKN	LAG2	5	5.19041	1.32348	0.0172	-0.7504	0.62332	0.295	0.266
F5	TDKN	LAG3	4	2.93103	2.12132	0.261	0.22947	0.86675	0.8084	0.0228
F5	TDKN	LAG4	5	3.27226	0.97021	0.028	0.16251	0.42364	0.7208	0.0355
F5	TDKN	LAG5	4	3.49018	1.56952	0.1127	0.04742	0.74469	0.9532	0.0013
F5	TDKN	LAG6	4	2.79068	1.17547	0.0981	0.38928	0.47609	0.4735	0.1822
F5	TDPO4	LAG0	5	5.45708	2.01221	0.0534	-294.83	332.306	0.4251	0.1644
F5	TDPO4	LAG1	5	2.39265	0.88106	0.0532	152.403	99.8672	0.2017	0.368
F5	TDPO4	LAG2	5	3.76864	0.56408	0.0026	8.34863	70.9731	0.912	0.0034
F5	TDPO4	LAG3	5	6.78824	1.53227	0.0114	-526.86	253.046	0.1058	0.5201
F5	TDPO4	LAG4	5	3.72799	1.01413	0.0213	-12.11	116.328	0.9221	0.0027
F5	TDPO4	LAG5	5	3.26972	0.85439	0.0187	57.9111	107.501	0.6187	0.0676
F5	TDPO4	LAG6	5	4.25026	1.51016	0.0481	-127.61	270.507	0.6617	0.0527
F5	TDSCU	LAG0	4	4.07101	0.38895	0.0019	-0.1387	0.28306	0.6577	0.0741
F5	TDSCU	LAG1	5	2.34124	0.73904	0.0339	1.95053	1.02403	0.1295	0.4756
F5	TDSCU	LAG2	6	3.36255	0.2761	<.0001	0.21133	0.13522	0.1789	0.3282
F5	TDSCU	LAG3	5	2.81524	0.37698	0.0017	0.70902	0.28579	0.0681	0.6061
F5	TDSCU	LAG4	5	4.91985	1.07541	0.0102	-1.8068	1.46061	0.2837	0.2767
F5	TDSCU	LAG5	5	4.1793	0.23041	<.0001	-0.3086	0.10476	0.0422	0.6844

F5	TDSCU	LAG6	5	4.20174	0.39932	0.0005	-0.564	0.3012	0.1344	0.4672
F5	TDSFE	LAG0	4	0.56513	3.04187	0.8645	0.37358	0.35433	0.3691	0.2704
F5	TDSFE	LAG1	4	3.01179	1.16396	0.0812	0.07829	0.11722	0.552	0.1294
F5	TDSFE	LAG2	3	4.21226	1.46123	0.1022	-0.0608	0.17795	0.7652	0.0551
F5	TDSFE	LAG3	3	8.1647	3.20212	0.1255	-0.5129	0.36898	0.299	0.4914
F5	TDSFE	LAG4	4	3.76051	0.43729	0.0033	-0.0024	0.00606	0.7145	0.0512
F5	TDSFE	LAG5	2	1.75586	0.11978	0.0434	0.23129	0.01425	0.0392	0.9962
F5	TDSFE	LAG6	3	-2.4582	1.05248	0.1446	0.71878	0.12613	0.0294	0.942
F5	TDSZN	LAG0	4	4.00536	0.62778	0.0078	-0.0796	0.12127	0.5585	0.1256
F5	TDSZN	LAG1	3	3.24741	1.02362	0.0866	0.06017	0.21366	0.8047	0.0381
F5	TDSZN	LAG2	5	3.46528	0.78657	0.0116	0.0577	0.24657	0.8265	0.0135
F5	TDSZN	LAG3	4	2.93633	0.34815	0.0035	0.15113	0.07443	0.1353	0.5788
F5	TDSZN	LAG4	2	4.41177	0.92354	0.1314	-0.2453	0.20574	0.4443	0.587
F5	TDSZN	LAG5	4	3.28044	0.95622	0.0415	0.09252	0.27956	0.7625	0.0352
F5	TDSZN	LAG6	3	4.3237	0.33587	0.006	-0.1877	0.06531	0.1027	0.8051
F5	TKN	LAG0	4	2.56813	1.56	0.1983	0.53601	0.61946	0.4505	0.1997
F5	TKN	LAG1	4	5.0916	1.91055	0.076	-0.6377	0.83912	0.5025	0.1614
F5	TKN	LAG2	5	5.69321	1.18626	0.0087	-0.9536	0.53773	0.1508	0.4402
F5	TKN	LAG3	4	6.76415	2.48556	0.0725	-1.2327	0.98699	0.3002	0.3421
F5	TKN	LAG4	4	2.91772	1.07622	0.0731	0.28322	0.50487	0.614	0.0949
F5	TKN	LAG5	4	3.62209	1.63324	0.1133	-0.0161	0.75432	0.9843	0.0002
F5	TKN	LAG6	4	10.3963	2.1752	0.0174	-2.8448	0.90383	0.0514	0.7676
F5	TPO4	LAG0	6	2.58836	1.01485	0.0512	108.069	100.415	0.331	0.1881
F5	TPO4	LAG1	6	3.98411	0.85438	0.0055	-28.919	71.6262	0.7031	0.0316
F5	TPO4	LAG2	5	2.86378	0.52042	0.0053	58.6805	40.5968	0.2219	0.3431
F5	TPO4	LAG3	6	3.82714	1.36259	0.0376	-16.871	130.256	0.902	0.0033
F5	TPO4	LAG4	6	2.86089	0.67535	0.0082	72.0657	58.1251	0.27	0.2351
F5	TPO4	LAG5	5	3.77674	0.7302	0.0066	-9.7285	45.9831	0.8428	0.0111
F5	TPO4	LAG6	6	5.85072	0.8159	0.0008	-226.17	82.4184	0.0406	0.601

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
U3	AGP	LAG0	3	3.60888	0.83891	0.05	3.00464	3.29763	0.4584	0.2933
U3	AGP	LAG2	3	4.51819	0.1484	0.0011	-0.2197	0.08866	0.1315	0.7544
U3	AGP	LAG4	4	4.39847	0.40746	0.0017	-0.4132	0.77992	0.6329	0.0856
U3	AGP	LAG5	3	4.69743	0.14118	0.0009	-0.2082	0.0845	0.1328	0.7521
U3	AGP	LAG6	3	4.04445	0.216	0.0028	0.21888	0.12469	0.2213	0.6064
U3	ALK	LAG0	9	3.38644	0.96515	0.008	0.00458	0.00412	0.299	0.1336
U3	ALK	LAG1	8	4.85776	1.00887	0.0019	-0.0021	0.00451	0.662	0.0289
U3	ALK	LAG2	9	4.6382	0.88442	0.0008	-0.0012	0.00397	0.7625	0.0121
U3	ALK	LAG3	9	4.01786	1.17694	0.0092	0.00192	0.00505	0.7136	0.0178
U3	ALK	LAG4	9	3.3848	0.72446	0.0016	0.0048	0.00315	0.1656	0.2253
U3	ALK	LAG5	9	3.80392	0.76866	0.0011	0.00291	0.00331	0.405	0.0881
U3	ALK	LAG6	9	3.52872	1.40683	0.0365	0.00364	0.00598	0.5598	0.0442
U3	CA	LAG0	9	2.21773	1.01186	0.0598	0.0326	0.01468	0.0571	0.3815
U3	CA	LAG1	8	5.26207	0.83931	0.0004	-0.0133	0.01266	0.329	0.1359
U3	CA	LAG2	9	5.48316	0.86371	0.0002	-0.017	0.01289	0.2234	0.1788
U3	CA	LAG3	9	4.10544	1.08189	0.0053	0.00536	0.01611	0.748	0.0136
U3	CA	LAG4	9	3.60925	0.67814	0.0007	0.01341	0.01034	0.2306	0.1738
U3	CA	LAG5	9	3.68448	0.75563	0.0012	0.01168	0.01105	0.3215	0.1225
U3	CA	LAG6	9	2.53616	1.13434	0.0558	0.02722	0.01658	0.1393	0.252
U3	CL	LAG0	9	3.7785	0.69437	0.0006	0.00465	0.00471	0.3525	0.1086
U3	CL	LAG1	8	4.12352	0.79834	0.0013	0.00226	0.0061	0.7217	0.0193
U3	CL	LAG2	9	4.5984	0.90715	0.001	-0.0018	0.00697	0.8018	0.0083
U3	CL	LAG3	9	4.45603	0.824	0.0006	0.00003	0.00594	0.9964	0
U3	CL	LAG4	9	3.66783	0.5128	<.0001	0.00592	0.00363	0.1414	0.2497
U3	CL	LAG5	9	3.80551	0.71659	0.0007	0.0052	0.0055	0.3726	0.1003
U3	CL	LAG6	9	5.28112	0.81707	0.0002	-0.0064	0.00564	0.2881	0.1393
U3	DOC	LAG0	9	2.52213	0.91807	0.0252	0.04708	0.02222	0.0669	0.3596
U3	DOC	LAG1	8	4.29246	1.13345	0.0068	0.00322	0.03088	0.9199	0.0015
U3	DOC	LAG2	9	5.44871	1.16339	0.0016	-0.0298	0.03162	0.3743	0.0996
U3	DOC	LAG3	9	4.74003	0.91013	0.0008	-0.0074	0.02355	0.7609	0.0122
U3	DOC	LAG4	9	3.28145	0.73047	0.002	0.03093	0.01868	0.1363	0.2552
U3	DOC	LAG5	9	2.3809	0.74692	0.0128	0.05516	0.01949	0.0221	0.5004
U3	DOC	LAG6	9	4.336	1.38412	0.014	0.00099	0.03364	0.9773	0.0001
U3	K	LAG0	9	3.34224	0.86768	0.0049	0.14948	0.11573	0.2325	0.1726
U3	K	LAG1	8	4.1696	1.07664	0.0061	0.03616	0.15968	0.8273	0.0073
U3	K	LAG2	9	4.33624	0.81762	0.0007	0.00484	0.1181	0.9683	0.0002
U3	K	LAG3	9	3.81842	0.72798	0.0008	0.0876	0.09628	0.3895	0.0938
U3	K	LAG4	9	3.35846	0.66639	0.001	0.15882	0.09316	0.1266	0.2665
U3	K	LAG5	9	4.02657	0.76776	0.0008	0.06313	0.10839	0.5763	0.0407
U3	K	LAG6	9	4.04483	0.80111	0.001	0.04623	0.10824	0.6805	0.0223
U3	MG	LAG0	9	3.06996	0.84799	0.0068	0.0511	0.03101	0.138	0.2534
U3	MG	LAG1	8	4.48897	0.85353	0.0012	-0.0034	0.03484	0.9248	0.0014
U3	MG	LAG2	9	4.89515	0.93455	0.0008	-0.0221	0.03832	0.5803	0.0398
U3	MG	LAG3	9	4.23175	1.02813	0.0034	0.00874	0.03872	0.8271	0.0063
U3	MG	LAG4	9	3.51811	0.59158	0.0003	0.03803	0.02294	0.136	0.2556
U3	MG	LAG5	9	3.47178	0.79296	0.0024	0.04002	0.03132	0.2372	0.1695
U3	MG	LAG6	9	4.66691	1.04202	0.0021	-0.0108	0.03783	0.7834	0.01
U3	NA	LAG0	9	3.53952	0.75558	0.0016	0.00911	0.00743	0.2551	0.1581
U3	NA	LAG1	8	4.20643	0.85088	0.0017	0.00235	0.00955	0.813	0.0085

U3	NA	LAG2	9	4.84884	0.92124	0.0008	-0.0055	0.01028	0.6082	0.0344
U3	NA	LAG3	9	4.43371	0.94414	0.0015	0.00028	0.00996	0.9782	0.0001
U3	NA	LAG4	9	3.54868	0.63767	0.0005	0.01022	0.00689	0.1766	0.2154
U3	NA	LAG5	9	3.66956	0.84308	0.0024	0.00904	0.00941	0.3651	0.1033
U3	NA	LAG6	9	5.42806	0.94933	0.0004	-0.0107	0.00947	0.2911	0.1377
U3	NH4	LAG0	9	4.38609	0.22213	<.0001	0.529	1.06341	0.6322	0.03
U3	NH4	LAG1	8	3.44936	0.92809	0.0075	32.0832	30.2835	0.3246	0.1382
U3	NH4	LAG2	8	4.50239	0.24605	<.0001	-1.0138	1.11162	0.3921	0.1062
U3	NH4	LAG3	9	4.76385	0.42678	<.0001	-7.4	9.36697	0.4523	0.0724
U3	NH4	LAG4	8	4.32857	0.26517	<.0001	2.13417	2.88416	0.4834	0.0725
U3	NH4	LAG5	9	4.39349	0.22428	<.0001	0.55586	1.02356	0.6019	0.0356
U3	NH4	LAG6	9	3.96891	0.48848	<.0001	7.59898	8.37783	0.3909	0.0932
U3	NOX	LAG0	4	4.42705	0.36527	0.0012	-5.5729	9.83624	0.6106	0.0967
U3	NOX	LAG1	2	8.91463	1.69936	0.1199	-571.64	241.13	0.2541	0.8489
U3	NOX	LAG2	6	4.65857	0.54619	0.0004	-9.8063	22.4349	0.6803	0.0368
U3	NOX	LAG3	6	4.49365	0.47781	0.0002	8.50939	28.2324	0.7752	0.0178
U3	NOX	LAG4	3	4.84717	0.94092	0.0357	-40.363	72.2719	0.6327	0.1349
U3	NOX	LAG5	5	4.98946	0.58996	0.0011	-22.957	22.7103	0.3693	0.2035
U3	NOX	LAG6	3	5.47444	0.54814	0.0099	-82.993	38.4009	0.1632	0.7002
U3	OPO4	LAG0	5	1.11177	1.08877	0.3649	480.645	170.733	0.0481	0.6646
U3	OPO4	LAG1	3	4.99776	0.67371	0.0177	-128.46	126.197	0.4158	0.3413
U3	OPO4	LAG2	4	4.59763	0.44106	0.0019	-33.055	41.4916	0.4839	0.1746
U3	OPO4	LAG3	6	4.40986	0.33008	<.0001	-1.5545	34.3068	0.9656	0.0004
U3	OPO4	LAG4	5	4.626	0.60077	0.0015	-46.055	97.672	0.6618	0.0527
U3	OPO4	LAG5	6	4.94356	0.20137	<.0001	-69.053	18.4454	0.0134	0.737
U3	OPO4	LAG6	7	4.59546	0.42967	<.0001	-42.529	58.4034	0.4939	0.0812
U3	SIO2	LAG0	8	5.59779	1.36418	0.0046	-0.0533	0.06678	0.4506	0.0836
U3	SIO2	LAG1	8	4.9718	0.74541	0.0003	-0.031	0.03927	0.4563	0.0816
U3	SIO2	LAG2	9	5.21302	0.84311	0.0003	-0.0497	0.04834	0.3343	0.1166
U3	SIO2	LAG3	9	4.63713	0.69796	0.0002	-0.0095	0.036	0.7983	0.0087
U3	SIO2	LAG4	9	4.34395	0.62432	0.0001	0.00642	0.03297	0.8504	0.0047
U3	SIO2	LAG5	9	4.05548	0.6108	0.0002	0.02399	0.0345	0.5064	0.057
U3	SIO2	LAG6	9	4.49548	1.49639	0.017	-0.0059	0.0734	0.9379	0.0008
U3	SO4	LAG0	9	3.79024	0.6188	0.0003	0.01045	0.00952	0.3042	0.1309
U3	SO4	LAG1	8	4.65327	0.52786	<.0001	-0.0055	0.01072	0.6263	0.0357
U3	SO4	LAG2	9	4.81767	0.46098	<.0001	-0.0087	0.00816	0.3175	0.1244
U3	SO4	LAG3	9	4.24586	0.64613	0.0002	0.00395	0.01142	0.7381	0.0148
U3	SO4	LAG4	9	4.07334	0.38978	<.0001	0.00851	0.00764	0.2976	0.1343
U3	SO4	LAG5	9	4.01606	0.42692	<.0001	0.00883	0.00772	0.2859	0.1405
U3	SO4	LAG6	9	4.59777	0.65939	0.0001	-0.0042	0.0119	0.7334	0.0153
U3	TDKN	LAG0	7	2.39947	1.31227	0.1172	0.78422	0.50773	0.1734	0.2845
U3	TDKN	LAG1	8	4.27777	1.16148	0.0078	0.05903	0.51572	0.9121	0.0019
U3	TDKN	LAG2	8	6.0223	0.81488	0.0002	-0.6688	0.33516	0.0862	0.3626
U3	TDKN	LAG3	7	5.62832	0.55697	<.0001	-0.5295	0.23473	0.0649	0.4588
U3	TDKN	LAG4	9	3.77351	0.85348	0.0022	0.30229	0.36718	0.4342	0.0781
U3	TDKN	LAG5	8	4.0741	1.03993	0.0058	0.14671	0.40723	0.7293	0.0182
U3	TDKN	LAG6	7	6.14742	2.5292	0.0511	-0.5947	0.91198	0.5385	0.0662
U3	TDPO4	LAG0	6	4.77406	0.40115	<.0001	-69.695	59.2378	0.2923	0.2168
U3	TDPO4	LAG1	4	5.16919	2.31563	0.1118	-134.36	495.954	0.804	0.0239
U3	TDPO4	LAG2	5	4.12442	1.20255	0.0265	20.6011	187.048	0.9176	0.003
U3	TDPO4	LAG3	6	4.73522	0.33192	<.0001	-19.679	22.1702	0.4154	0.1361
U3	TDPO4	LAG4	5	3.72352	0.35996	0.0005	85.8458	55.4326	0.1964	0.3748

U3	TDPO4	LAG5	6	4.61329	0.33912	<.0001	-1.007	23.1971	0.9671	0.0004
U3	TDPO4	LAG6	5	4.89238	0.68347	0.002	-94.541	105.253	0.4198	0.1678
U3	TDSCU	LAG0	8	4.41086	0.87791	0.0015	0.14391	1.13749	0.9029	0.0023
U3	TDSCU	LAG1	8	3.82485	0.9633	0.0054	1.05313	1.69491	0.5541	0.0523
U3	TDSCU	LAG2	9	4.40065	0.26449	<.0001	-0.0218	0.11816	0.8582	0.0042
U3	TDSCU	LAG3	9	4.76913	0.50536	<.0001	-0.3962	0.60151	0.5286	0.0514
U3	TDSCU	LAG4	7	4.79255	1.51852	0.0197	-0.6189	2.62306	0.8213	0.0092
U3	TDSCU	LAG5	9	4.17871	0.19371	<.0001	0.19771	0.087	0.0527	0.3923
U3	TDSCU	LAG6	8	4.31864	0.4016	<.0001	0.04168	0.35008	0.9086	0.002
U3	TDSFE	LAG0	7	4.5912	0.54579	0.0002	-0.0086	0.03996	0.8366	0.0077
U3	TDSFE	LAG1	7	4.37606	0.73648	0.001	0.00544	0.06274	0.9337	0.0013
U3	TDSFE	LAG2	5	4.82001	0.6136	0.0014	-0.0134	0.04265	0.7699	0.0239
U3	TDSFE	LAG3	5	5.25206	1.13765	0.0099	-0.0592	0.0985	0.5804	0.0828
U3	TDSFE	LAG4	5	4.69798	0.87626	0.0058	-0.0128	0.07706	0.876	0.0069
U3	TDSFE	LAG5	6	3.35302	0.6021	0.0026	0.13078	0.06065	0.0836	0.4818
U3	TDSFE	LAG6	5	3.90004	1.31839	0.0416	0.05624	0.13064	0.689	0.0443
U3	TDSZN	LAG0	7	4.99608	0.49203	<.0001	-0.2278	0.20564	0.3104	0.1698
U3	TDSZN	LAG1	6	5.15072	0.64913	0.0005	-0.3191	0.26076	0.2756	0.2304
U3	TDSZN	LAG2	6	5.01212	0.57851	0.0003	-0.2272	0.21414	0.3372	0.1838
U3	TDSZN	LAG3	6	4.72795	0.44177	0.0001	-0.1097	0.1422	0.4752	0.1064
U3	TDSZN	LAG4	6	4.67499	0.94157	0.0042	-0.0853	0.34384	0.8138	0.0122
U3	TDSZN	LAG5	7	4.17284	0.18995	<.0001	0.04714	0.03072	0.1758	0.2819
U3	TDSZN	LAG6	4	4.71553	0.56178	0.0035	-0.1201	0.16844	0.5274	0.1448
U3	TKN	LAG0	7	0.96934	2.42228	0.7029	1.32424	0.90675	0.1945	0.2622
U3	TKN	LAG1	7	4.23584	1.07959	0.0078	0.10864	0.46071	0.8214	0.0092
U3	TKN	LAG2	8	5.91733	1.16399	0.0014	-0.6489	0.50162	0.2368	0.193
U3	TKN	LAG3	8	5.663	1.14148	0.0016	-0.4706	0.46941	0.3495	0.1255
U3	TKN	LAG4	8	3.55023	0.92554	0.0064	0.38144	0.38721	0.3574	0.1218
U3	TKN	LAG5	8	3.20397	1.26223	0.0388	0.51537	0.51926	0.354	0.1234
U3	TKN	LAG6	8	10.1254	2.39215	0.0039	-2.1771	0.91009	0.048	0.4498
U3	TPO4	LAG0	8	4.82228	0.7623	0.0004	-53.228	93.9913	0.5889	0.0438
U3	TPO4	LAG1	9	4.99693	1.08404	0.0017	-81.583	138.457	0.572	0.0416
U3	TPO4	LAG2	7	4.96634	0.89762	0.0015	-63.307	126.784	0.6353	0.0399
U3	TPO4	LAG3	9	5.0545	0.57715	<.0001	-69.975	64.5678	0.3101	0.128
U3	TPO4	LAG4	10	4.20949	0.32057	<.0001	17.8851	25.0533	0.4934	0.0536
U3	TPO4	LAG5	8	4.49877	0.25561	<.0001	-9.7378	10.1909	0.3711	0.1154
U3	TPO4	LAG6	9	4.53547	0.59821	<.0001	-17.31	61.2465	0.7846	0.0099

UNIVARIATE LAG 0-6
SURFACE WATER
LOG MOSQUITOFISH vs LOG Y
BY STATION

station	independent	month	df	intercept	se_int	p value	slope	se_slope	p value	r_square
		lag				intercept			slope	
F1	LAGP	LAG2	5	1.8712	0.17167	0.0004	0.14549	0.14891	0.3839	0.1927
F1	LAGP	LAG4	3	2.79861	0.81111	0.0747	-0.386	0.32465	0.3564	0.4142
F1	LAGP	LAG5	3	3.18206	0.60973	0.0348	-0.4965	0.34907	0.2908	0.5029
F1	LAGP	LAG6	3	1.82546	0.21945	0.0141	0.04021	0.10429	0.7369	0.0692
F1	LALK	LAG0	6	7.53525	14.4401	0.6241	-0.9003	2.53285	0.7367	0.0246
F1	LALK	LAG1	9	-2.6094	7.29262	0.7297	0.80777	1.28628	0.5475	0.047
F1	LALK	LAG2	10	6.23874	8.2776	0.4703	-0.7224	1.46418	0.6336	0.0263
F1	LALK	LAG3	7	-37.228	13.7045	0.0348	6.84719	2.36752	0.0276	0.5823
F1	LALK	LAG4	8	0.89591	8.06259	0.9146	0.24593	1.41242	0.8667	0.0043
F1	LALK	LAG5	8	5.65151	7.63048	0.483	-0.6315	1.33041	0.6495	0.0312
F1	LALK	LAG6	8	-0.1196	13.6367	0.9932	0.40418	2.38436	0.8702	0.0041
F1	LCA	LAG0	6	-0.3813	12.1047	0.9761	0.61818	2.68339	0.8269	0.0105
F1	LCA	LAG1	9	-0.8949	5.519	0.8752	0.64076	1.23408	0.6177	0.0326
F1	LCA	LAG2	10	8.10513	6.74326	0.26	-1.3346	1.51164	0.4003	0.0797
F1	LCA	LAG3	7	-15.001	15.5775	0.3727	3.79304	3.39455	0.3066	0.1722
F1	LCA	LAG4	8	-0.2301	7.68966	0.977	0.56653	1.721	0.7516	0.0152
F1	LCA	LAG5	8	6.7264	6.41365	0.3291	-1.0391	1.41832	0.4876	0.0712
F1	LCA	LAG6	8	-8.6817	11.031	0.4571	2.41913	2.453	0.3569	0.122
F1	LCL	LAG0	6	2.26443	9.43181	0.8198	0.0278	1.86184	0.9887	0
F1	LCL	LAG1	9	-9.4423	5.63638	0.1324	2.26313	1.11714	0.0774	0.3391
F1	LCL	LAG2	10	11.8389	9.25703	0.2329	-1.904	1.81957	0.3227	0.1085
F1	LCL	LAG3	7	-14.243	9.61512	0.189	3.24605	1.87419	0.134	0.3333
F1	LCL	LAG4	8	4.15423	6.96855	0.5698	-0.3644	1.36617	0.7974	0.0101
F1	LCL	LAG5	8	3.42806	5.03562	0.5179	-0.2731	0.98368	0.7893	0.0109
F1	LCL	LAG6	8	12.2024	8.47245	0.193	-1.9758	1.67066	0.2755	0.1665
F1	LDOC	LAG0	8	-10.412	8.39711	0.2549	3.34331	2.21046	0.1742	0.2463
F1	LDOC	LAG1	9	-1.427	6.96114	0.8427	0.90419	1.853	0.6387	0.0289
F1	LDOC	LAG2	10	17.6297	8.16449	0.0591	-4.0812	2.15246	0.0905	0.2854
F1	LDOC	LAG3	8	-5.0021	4.04961	0.2566	1.96272	1.08715	0.114	0.3177
F1	LDOC	LAG4	10	6.44439	4.17441	0.157	-1.1462	1.11326	0.3301	0.1054
F1	LDOC	LAG5	10	9.76296	5.85952	0.13	-1.9812	1.52456	0.2261	0.158
F1	LDOC	LAG6	8	-1.2463	6.9913	0.8636	0.92247	1.87349	0.6375	0.0335
F1	LK	LAG0	6	3.99014	4.39585	0.4057	-0.811	2.23576	0.7316	0.0256
F1	LK	LAG1	9	2.89305	1.9721	0.1806	-0.4794	1.01184	0.6483	0.0273
F1	LK	LAG2	10	3.82182	1.71501	0.0528	-0.8766	0.88937	0.3501	0.0974
F1	LK	LAG3	7	7.39071	3.8833	0.1057	-2.4562	1.9029	0.2443	0.2173
F1	LK	LAG4	8	-2.1895	2.7031	0.4446	2.26148	1.35276	0.1385	0.2853
F1	LK	LAG5	8	1.85946	1.83006	0.3434	0.08451	0.88267	0.9264	0.0013
F1	LK	LAG6	8	1.40204	3.76079	0.7203	0.37095	1.75887	0.839	0.0063
F1	LMG	LAG0	6	2.48385	8.62594	0.7849	-0.0231	2.52733	0.9931	0
F1	LMG	LAG1	9	-0.7254	3.67406	0.8484	0.80399	1.09422	0.4835	0.0632
F1	LMG	LAG2	10	5.92117	5.56153	0.3148	-1.1271	1.66297	0.515	0.0486
F1	LMG	LAG3	7	-11.323	9.68143	0.2865	3.9625	2.79348	0.2058	0.2511
F1	LMG	LAG4	8	0.2259	5.6593	0.9693	0.61968	1.68862	0.7245	0.0189
F1	LMG	LAG5	8	4.17366	4.03527	0.3354	-0.6295	1.18324	0.6112	0.0389

F1	LMG	LAG6	8	-2.6921	8.25264	0.7538	1.43804	2.42777	0.5723	0.0477
F1	LNA	LAG0	6	5.02171	9.51219	0.6201	-0.5602	2.03392	0.794	0.0149
F1	LNA	LAG1	9	-8.3101	5.40921	0.163	2.19946	1.15662	0.0937	0.3113
F1	LNA	LAG2	10	8.25913	7.92823	0.3247	-1.3053	1.69485	0.4609	0.0618
F1	LNA	LAG3	7	-12.903	8.2319	0.1681	3.22413	1.73298	0.1122	0.3658
F1	LNA	LAG4	8	3.7205	6.37525	0.5778	-0.3021	1.35173	0.8295	0.0071
F1	LNA	LAG5	8	3.72173	4.67951	0.4525	-0.3587	0.99164	0.7282	0.0183
F1	LNA	LAG6	8	13.0887	8.92508	0.1859	-2.322	1.90022	0.2613	0.1758
F1	LNH4	LAG0	8	2.87575	1.78718	0.1516	0.21657	0.63322	0.7424	0.0164
F1	LNH4	LAG1	9	0.88605	2.71485	0.7525	-0.3309	0.82675	0.6995	0.0196
F1	LNH4	LAG2	9	-0.0501	2.35211	0.9835	-0.739	0.77149	0.3662	0.1029
F1	LNH4	LAG3	8	3.17459	1.77811	0.1174	0.30434	0.59621	0.6254	0.0359
F1	LNH4	LAG4	9	1.52504	1.06226	0.189	-0.2307	0.37439	0.5549	0.0453
F1	LNH4	LAG5	10	2.43096	1.416	0.1202	0.10934	0.55205	0.8474	0.0043
F1	LNH4	LAG6	8	1.58869	1.01155	0.1603	-0.233	0.3631	0.5415	0.0556
F1	LNOX	LAG0	6	2.93896	1.59309	0.1244	0.19472	0.37104	0.6221	0.0522
F1	LNOX	LAG1	3	2.34881	4.14509	0.6281	-0.0104	0.89875	0.9918	0.0001
F1	LNOX	LAG2	4	2.85133	2.3374	0.3097	0.13213	0.57953	0.8343	0.017
F1	LNOX	LAG3	6	4.95698	2.37939	0.0917	0.65564	0.54454	0.2825	0.2248
F1	LNOX	LAG4	3	-0.7287	8.05572	0.9362	-0.5756	1.64895	0.7604	0.0574
F1	LNOX	LAG5	6	-3.0676	2.96272	0.3479	-1.1998	0.65552	0.1267	0.4012
F1	LNOX	LAG6	3	9.88317	15.2107	0.5825	1.60805	3.14912	0.6604	0.1153
F1	LOPO4	LAG0	8	2.79779	1.45661	0.0962	0.14201	0.36294	0.7072	0.0214
F1	LOPO4	LAG1	10	2.04858	1.50333	0.2061	-0.0291	0.39282	0.9425	0.0006
F1	LOPO4	LAG2	7	2.2783	1.34911	0.1422	0.08107	0.36714	0.8326	0.0081
F1	LOPO4	LAG3	10	1.99374	1.31875	0.1649	-0.0456	0.35613	0.901	0.0018
F1	LOPO4	LAG4	8	2.22014	1.2553	0.1203	-0.0358	0.33824	0.9186	0.0016
F1	LOPO4	LAG5	8	0.80872	0.69018	0.2796	-0.3723	0.19538	0.0984	0.3415
F1	LOPO4	LAG6	9	2.14307	1.11174	0.09	-0.0202	0.33621	0.9536	0.0005
F1	LSIO2	LAG0	5	-6.4605	13.3328	0.6533	2.91702	4.28856	0.5337	0.1037
F1	LSIO2	LAG1	9	1.37431	3.19392	0.6783	0.19795	1.06238	0.8568	0.0043
F1	LSIO2	LAG2	10	11.8563	1.85728	0.0001	-3.269	0.62376	0.0005	0.7532
F1	LSIO2	LAG3	7	-2.4221	8.81162	0.7926	1.5828	2.88917	0.6036	0.0476
F1	LSIO2	LAG4	8	0.28401	3.77596	0.9421	0.68532	1.27863	0.6086	0.0394
F1	LSIO2	LAG5	8	2.59761	4.10184	0.5467	-0.189	1.36794	0.894	0.0027
F1	LSIO2	LAG6	8	-6.2341	7.70426	0.445	2.74854	2.51067	0.3099	0.1462
F1	LSO4	LAG0	6	0.31595	3.08834	0.9225	0.54141	0.79127	0.5243	0.0856
F1	LSO4	LAG1	9	0.47036	2.3469	0.8462	0.37972	0.59153	0.5389	0.049
F1	LSO4	LAG2	10	2.92716	3.03315	0.3597	-0.2006	0.78628	0.8044	0.0072
F1	LSO4	LAG3	7	6.61312	3.99576	0.149	-1.0369	0.9791	0.3303	0.1575
F1	LSO4	LAG4	8	-3.3619	3.84402	0.4108	1.50408	1.01776	0.183	0.2378
F1	LSO4	LAG5	8	3.44582	2.65418	0.2353	-0.3741	0.69827	0.6087	0.0394
F1	LSO4	LAG6	8	-1.4496	4.68068	0.7658	0.91974	1.17875	0.4608	0.08
F1	LTDKN	LAG0	6	1.49251	1.83997	0.4541	0.49538	1.74533	0.7879	0.0159
F1	LTDKN	LAG1	9	2.03739	1.46003	0.2004	-0.0718	1.46868	0.9622	0.0003
F1	LTDKN	LAG2	9	5.90904	1.80962	0.0114	-3.7882	1.8348	0.0728	0.3476
F1	LTDKN	LAG3	7	-0.4655	1.13456	0.6959	2.74616	1.19716	0.0616	0.4672
F1	LTDKN	LAG4	10	2.37889	1.31101	0.103	-0.2338	1.34426	0.8658	0.0034
F1	LTDKN	LAG5	8	5.12087	1.24779	0.0046	-2.7442	1.19406	0.0551	0.43
F1	LTDKN	LAG6	8	2.20924	2.52811	0.4112	-0.0175	2.40242	0.9944	0
F1	LTDPO4	LAG0	6	5.12838	2.42358	0.0879	0.80263	0.70284	0.3052	0.2069
F1	LTDPO4	LAG1	9	0.0098	1.43458	0.9947	-0.6023	0.43497	0.2035	0.1933

F1	LTDP04	LAG2	8	1.65413	1.51052	0.3097	-0.1206	0.46459	0.8027	0.0095
F1	LTDP04	LAG3	8	3.33754	1.34499	0.0421	0.31626	0.38994	0.444	0.0859
F1	LTDP04	LAG4	7	1.59809	1.23973	0.2448	-0.3001	0.42427	0.5058	0.077
F1	LTDP04	LAG5	8	0.71702	0.85898	0.4314	-0.4799	0.29948	0.1531	0.2684
F1	LTDP04	LAG6	7	2.86262	1.43175	0.0925	0.2107	0.47464	0.6727	0.0318
F1	LTDS04	LAG0	5	2.59761	0.5165	0.0073	-0.4484	1.22443	0.7327	0.0324
F1	LTDS04	LAG1	8	2.14404	0.19624	<.0001	1.56191	0.47897	0.0138	0.603
F1	LTDS04	LAG2	9	1.96191	0.36756	0.0007	-0.0215	0.99463	0.9833	0.0001
F1	LTDS04	LAG3	7	2.42107	0.36594	0.0006	-0.7543	0.59493	0.2518	0.2113
F1	LTDS04	LAG4	6	1.9515	0.64714	0.0296	-1.774	1.68951	0.3418	0.1807
F1	LTDS04	LAG5	8	2.03937	0.49425	0.0044	0.01673	0.94585	0.9864	0
F1	LTDS04	LAG6	7	2.47561	0.4506	0.0015	1.06509	0.80487	0.2339	0.2259
F1	LTDSFE	LAG0	5	3.62549	2.01108	0.1458	-0.6273	0.82377	0.4888	0.1266
F1	LTDSFE	LAG1	8	3.36291	1.8903	0.1185	-0.5075	0.69567	0.4894	0.0707
F1	LTDSFE	LAG2	7	2.69778	1.75273	0.1747	-0.2579	0.69083	0.7217	0.0227
F1	LTDSFE	LAG3	6	3.51825	1.91125	0.125	-0.523	0.72447	0.5027	0.0944
F1	LTDSFE	LAG4	7	1.39762	2.12334	0.5348	0.38095	0.79958	0.6506	0.0365
F1	LTDSFE	LAG5	6	0.28357	1.39764	0.8472	0.72685	0.52604	0.2256	0.2763
F1	LTDSFE	LAG6	8	-1.4116	1.6299	0.4151	1.37774	0.61298	0.0594	0.4192
F1	LTDSZN	LAG0	4	2.55453	1.47185	0.181	-0.3245	1.1434	0.795	0.0262
F1	LTDSZN	LAG1	7	1.07254	0.21055	0.0022	1.18244	0.21076	0.0014	0.8399
F1	LTDSZN	LAG2	3	2.84372	1.78962	0.253	-0.5438	1.50742	0.7528	0.0611
F1	LTDSZN	LAG3	4	3.27801	1.20915	0.0731	-0.8316	0.96213	0.451	0.1994
F1	LTDSZN	LAG4	4	1.91955	1.74123	0.3508	0.79418	1.72469	0.6765	0.066
F1	LTDSZN	LAG5	4	3.19556	0.99107	0.0484	-1.419	1.12232	0.2954	0.3476
F1	LTDSZN	LAG6	6	3.84975	1.10055	0.0173	-1.6225	1.0631	0.1875	0.3178
F1	LTKN	LAG0	8	1.32402	1.83578	0.4941	0.94955	1.78832	0.6119	0.0387
F1	LTKN	LAG1	8	3.17974	1.47906	0.0686	-1.16	1.44165	0.4475	0.0847
F1	LTKN	LAG2	9	8.31133	2.64789	0.0138	-5.9949	2.58974	0.0493	0.4011
F1	LTKN	LAG3	8	-1.0749	1.12297	0.3703	3.41291	1.11193	0.0181	0.5737
F1	LTKN	LAG4	9	2.79675	1.32232	0.0673	-0.5881	1.29035	0.6606	0.0253
F1	LTKN	LAG5	10	4.71463	1.16545	0.0029	-2.4054	1.0702	0.0512	0.3595
F1	LTKN	LAG6	8	1.37721	1.97903	0.5089	0.75683	1.80567	0.6877	0.0245
F1	LTPO4	LAG0	9	3.21794	1.18487	0.0264	0.35169	0.37253	0.3728	0.1002
F1	LTPO4	LAG1	10	1.92027	1.55847	0.2491	-0.0856	0.55042	0.8799	0.0027
F1	LTPO4	LAG2	8	2.75428	1.5811	0.125	0.16166	0.55545	0.7795	0.012
F1	LTPO4	LAG3	10	1.83442	1.19859	0.1603	-0.1096	0.39246	0.7863	0.0086
F1	LTPO4	LAG4	9	1.7731	0.99241	0.1118	-0.1801	0.3641	0.6342	0.0297
F1	LTPO4	LAG5	8	0.10438	0.76947	0.8959	-0.7855	0.27005	0.0227	0.5472
F1	LTPO4	LAG6	9	1.57038	0.94314	0.1345	-0.2457	0.34036	0.4909	0.0612

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F2	LAGP	LAG1	2	2.47686	0.61465	0.1549	-1.6001	0.53977	0.2071	0.8978
F2	LAGP	LAG2	2	2.44133	0.16401	0.0427	-0.446	0.14344	0.1981	0.9063
F2	LAGP	LAG4	2	2.04285	0.58882	0.1787	0.39035	0.43605	0.5352	0.4449
F2	LAGP	LAG6	2	2.31375	0.62962	0.1691	-0.0928	0.47364	0.8768	0.037
F2	LALK	LAG0	7	0.60182	12.8385	0.9641	0.33346	2.28314	0.8887	0.0035
F2	LALK	LAG1	7	-4.2038	12.0854	0.7398	1.18268	2.13802	0.6001	0.0485
F2	LALK	LAG2	7	28.0905	13.0856	0.0755	-4.6441	2.37126	0.0979	0.39
F2	LALK	LAG3	7	16.8124	10.0642	0.1459	-2.564	1.79805	0.2038	0.2531
F2	LALK	LAG4	7	-11.625	11.6538	0.357	2.54207	2.0993	0.2715	0.1964
F2	LALK	LAG5	6	-10.11	14.9366	0.5286	2.27848	2.68592	0.435	0.1258
F2	LALK	LAG6	7	-3.8798	12.5571	0.7678	1.1219	2.21486	0.6306	0.041
F2	LCA	LAG0	7	-11.565	13.7682	0.4331	3.17815	3.11464	0.3469	0.1479
F2	LCA	LAG1	7	5.75469	10.309	0.5969	-0.7429	2.33248	0.7609	0.0166
F2	LCA	LAG2	7	21.7445	8.12494	0.0367	-4.482	1.88781	0.0552	0.4844
F2	LCA	LAG3	7	8.71807	12.8691	0.5234	-1.4154	2.91552	0.6446	0.0378
F2	LCA	LAG4	7	-11.302	8.61388	0.2374	3.17398	1.98177	0.1604	0.2995
F2	LCA	LAG5	6	-2.7235	10.2669	0.8014	1.21175	2.3543	0.6287	0.0503
F2	LCA	LAG6	7	-2.5481	14.0469	0.862	1.1198	3.12911	0.7327	0.0209
F2	LCL	LAG0	7	1.5644	12.7824	0.9066	0.18085	2.53536	0.9455	0.0008
F2	LCL	LAG1	7	-1.8291	10.9215	0.8725	0.86842	2.20087	0.7068	0.0253
F2	LCL	LAG2	7	13.6567	8.20796	0.1472	-2.2671	1.66164	0.2214	0.2368
F2	LCL	LAG3	7	6.84831	10.6922	0.5455	-0.8736	2.13346	0.6964	0.0272
F2	LCL	LAG4	7	-7.5263	8.16187	0.392	2.05778	1.67645	0.2656	0.2007
F2	LCL	LAG5	6	-6.2132	11.7356	0.6192	1.79861	2.40521	0.4882	0.1006
F2	LCL	LAG6	7	10.8086	11.8654	0.3974	-1.6372	2.32904	0.5084	0.0761
F2	LDOC	LAG0	7	-3.5325	16.4075	0.8367	1.58236	4.31927	0.7267	0.0219
F2	LDOC	LAG1	7	1.28434	11.0909	0.9116	0.32	2.97644	0.9179	0.0019
F2	LDOC	LAG2	7	20.7316	7.87571	0.0389	-4.9542	2.13473	0.0594	0.473
F2	LDOC	LAG3	7	4.53828	10.8981	0.6916	-0.5556	2.93179	0.8559	0.006
F2	LDOC	LAG4	7	-3.6341	8.95032	0.6988	1.68761	2.46837	0.5197	0.0723
F2	LDOC	LAG5	6	-16.319	10.3676	0.1763	5.05436	2.77388	0.1281	0.399
F2	LDOC	LAG6	7	-11.151	10.1384	0.3136	3.6308	2.69871	0.2271	0.2318
F2	LK	LAG0	7	-7.9369	4.77893	0.1478	5.33599	2.44076	0.0714	0.4434
F2	LK	LAG1	7	6.2719	2.3083	0.0348	-2.0215	1.20706	0.145	0.3186
F2	LK	LAG2	7	7.57411	1.92522	0.0077	-2.6498	0.9834	0.0358	0.5475
F2	LK	LAG3	7	3.92372	5.86768	0.5286	-0.7518	3.03371	0.8125	0.0101
F2	LK	LAG4	7	-1.9181	2.17708	0.4122	2.37044	1.15422	0.0858	0.4128
F2	LK	LAG5	6	1.01128	3.26416	0.7692	0.79576	1.6575	0.6514	0.0441
F2	LK	LAG6	7	1.53005	5.32852	0.7837	0.46527	2.60978	0.8644	0.0053
F2	LMG	LAG0	7	-3.0397	8.62877	0.7367	1.66267	2.59684	0.5457	0.064
F2	LMG	LAG1	7	3.49152	6.24116	0.5961	-0.3088	1.89013	0.8756	0.0044
F2	LMG	LAG2	7	13.964	5.28497	0.0384	-3.6193	1.66033	0.0721	0.442
F2	LMG	LAG3	7	4.30716	7.55877	0.5895	-0.5585	2.29893	0.8162	0.0097
F2	LMG	LAG4	7	-5.9007	4.83471	0.2681	2.61599	1.50397	0.1326	0.3352
F2	LMG	LAG5	6	-2.7823	6.30133	0.6773	1.64799	1.93876	0.4341	0.1263
F2	LMG	LAG6	7	0.41444	9.4305	0.9664	0.60416	2.76026	0.834	0.0079
F2	LNA	LAG0	7	2.03381	11.0182	0.8596	0.0952	2.37275	0.9693	0.0003
F2	LNA	LAG1	7	-2.0464	10.1708	0.8472	0.98442	2.21135	0.6718	0.032
F2	LNA	LAG2	7	12.0984	7.46248	0.1561	-2.1182	1.63944	0.2439	0.2177

F2	LNA	LAG3	7	7.23271	10.2138	0.5054	-1.0281	2.20437	0.6574	0.035
F2	LNA	LAG4	7	-9.8626	8.3947	0.2846	2.74672	1.86614	0.1915	0.2653
F2	LNA	LAG5	6	-5.2127	10.8919	0.6524	1.73138	2.42522	0.5072	0.0925
F2	LNA	LAG6	7	8.17329	10.6307	0.4712	-1.2033	2.24238	0.6108	0.0458
F2	LNH4	LAG0	7	2.89139	1.60653	0.122	0.15144	0.55288	0.7933	0.0124
F2	LNH4	LAG1	7	5.08034	1.72185	0.0256	0.80663	0.51514	0.1684	0.2901
F2	LNH4	LAG2	7	-1.2547	1.81891	0.5161	-1.2033	0.57242	0.0802	0.4241
F2	LNH4	LAG3	7	0.36187	1.8079	0.848	-0.6761	0.55824	0.2714	0.1964
F2	LNH4	LAG4	7	-5.1784	7.00719	0.4878	-2.1583	1.97134	0.3156	0.1665
F2	LNH4	LAG5	6	3.27639	2.51667	0.2497	0.23153	0.78088	0.7788	0.0173
F2	LNH4	LAG6	7	3.61752	1.95232	0.1133	0.37079	0.61166	0.5666	0.0577
F2	LNOX	LAG0	3	0.75032	1.2078	0.5978	-0.3595	0.28099	0.3291	0.45
F2	LNOX	LAG1	4	5.20912	11.0577	0.6697	0.48292	2.26367	0.8447	0.0149
F2	LNOX	LAG2	2	12.0998	11.7211	0.4899	1.8552	2.51747	0.5957	0.3519
F2	LNOX	LAG3	3	7.75073	5.54254	0.2969	1.03868	1.15363	0.463	0.2884
F2	LNOX	LAG4	3	38.0158	12.4185	0.0922	7.66939	2.64199	0.101	0.8082
F2	LNOX	LAG5	1	6.61033			1.25735			1
F2	LNOX	LAG6	2	-2.6362	1.08946	0.2495	-1.2013	0.22932	0.1201	0.9648
F2	LOPO4	LAG0	5	4.45317	1.55304	0.0456	0.60237	0.37257	0.1812	0.3952
F2	LOPO4	LAG1	4	4.41774	4.07795	0.358	0.53661	1.04155	0.642	0.0813
F2	LOPO4	LAG2	5	-1.7714	0.82564	0.0985	-1.153	0.2055	0.005	0.8873
F2	LOPO4	LAG3	5	-1.3485	2.91529	0.6677	-1.067	0.75951	0.2328	0.3304
F2	LOPO4	LAG4	5	6.96124	2.71403	0.0623	1.12235	0.65218	0.1604	0.4254
F2	LOPO4	LAG5	6	2.14611	1.80221	0.2872	-0.0203	0.4478	0.9656	0.0004
F2	LOPO4	LAG6	5	3.94442	2.82691	0.2354	0.46111	0.76101	0.5773	0.0841
F2	LSIO2	LAG0	6	7.32136	12.6149	0.5868	-1.5645	4.20011	0.7248	0.027
F2	LSIO2	LAG1	7	4.87217	3.12806	0.1703	-0.8691	1.1195	0.4671	0.0913
F2	LSIO2	LAG2	7	9.18011	2.12928	0.005	-2.4853	0.78025	0.0189	0.6284
F2	LSIO2	LAG3	7	2.59315	6.58209	0.7072	-0.0413	2.30069	0.9863	0.0001
F2	LSIO2	LAG4	7	-2.7012	2.19229	0.264	1.86698	0.7789	0.0535	0.4892
F2	LSIO2	LAG5	6	-4.5119	3.24404	0.223	2.50389	1.13951	0.0794	0.4913
F2	LSIO2	LAG6	7	5.38706	11.4399	0.6543	-0.952	3.73649	0.8074	0.0107
F2	LSO4	LAG0	7	-3.0704	3.15364	0.3679	1.48667	0.83763	0.1263	0.3443
F2	LSO4	LAG1	7	6.53198	2.84565	0.0615	-1.1118	0.76993	0.1988	0.2579
F2	LSO4	LAG2	7	7.10107	2.8309	0.046	-1.2928	0.78173	0.1493	0.3131
F2	LSO4	LAG3	7	0.12825	4.54099	0.9784	0.63371	1.21811	0.6215	0.0432
F2	LSO4	LAG4	7	-3.9204	2.59899	0.1822	1.68719	0.67863	0.0474	0.5074
F2	LSO4	LAG5	6	-0.2682	3.37416	0.9397	0.75006	0.88447	0.4351	0.1257
F2	LSO4	LAG6	7	3.74768	6.4496	0.5823	-0.323	1.63208	0.8496	0.0065
F2	LTDKN	LAG0	4	3.43039	2.69534	0.2928	-0.8729	2.57263	0.7568	0.037
F2	LTDKN	LAG1	7	1.40274	1.76599	0.4573	1.16026	1.82877	0.5492	0.0629
F2	LTDKN	LAG2	6	5.69931	1.09055	0.0034	-3.6561	1.3098	0.0384	0.6091
F2	LTDKN	LAG3	5	4.93534	1.79595	0.0515	-3.081	1.85852	0.1727	0.4072
F2	LTDKN	LAG4	7	1.04686	1.45476	0.4988	1.93079	1.85372	0.3377	0.1531
F2	LTDKN	LAG5	5	0.64763	2.43176	0.8032	2.10268	2.7398	0.4856	0.1283
F2	LTDKN	LAG6	5	-1.0683	2.77275	0.7196	3.5199	2.55559	0.2405	0.3217
F2	LTDPO4	LAG0	6	3.80758	2.02016	0.1181	0.4492	0.60507	0.4912	0.0993
F2	LTDPO4	LAG1	7	4.21412	2.92189	0.1993	0.49571	0.82015	0.5677	0.0574
F2	LTDPO4	LAG2	6	-0.2657	1.57598	0.8727	-0.7707	0.46964	0.1617	0.3501
F2	LTDPO4	LAG3	6	-0.018	3.14611	0.9957	-0.7763	0.95851	0.4548	0.116
F2	LTDPO4	LAG4	7	4.0966	3.48735	0.2846	0.46066	0.97994	0.6549	0.0355
F2	LTDPO4	LAG5	5	1.35348	2.22363	0.5756	-0.4554	0.69651	0.5489	0.0965

F2	LTDP04	LAG6	6	3.79666	2.55472	0.1974	0.49983	0.79571	0.5575	0.0731
F2	LTDS04	LAG0	6	2.67719	0.56417	0.0051	0.61509	0.8774	0.5146	0.0895
F2	LTDS04	LAG1	6	2.39022	1.2675	0.118	-0.3155	2.0751	0.8851	0.0046
F2	LTDS04	LAG2	6	2.15106	0.57013	0.013	-0.2145	0.92193	0.8253	0.0107
F2	LTDS04	LAG3	7	2.4075	0.57544	0.0058	-0.2261	0.79531	0.7857	0.0133
F2	LTDS04	LAG4	6	2.59207	0.72231	0.0157	-0.4403	1.29112	0.7469	0.0227
F2	LTDS04	LAG5	6	3.36838	0.67126	0.004	2.1771	1.2492	0.1418	0.3779
F2	LTDS04	LAG6	7	2.53696	0.51258	0.0026	0.49769	0.68738	0.4963	0.0804
F2	LTDSFE	LAG0	4	4.41951	5.24861	0.4616	-0.9026	2.23979	0.714	0.0513
F2	LTDSFE	LAG1	4	4.65516	3.98336	0.327	-1.0297	1.66535	0.5801	0.113
F2	LTDSFE	LAG2	3	6.98899	4.7325	0.2778	-1.921	2.15934	0.4675	0.2835
F2	LTDSFE	LAG3	4	2.98049	3.85599	0.4959	-0.1527	1.66052	0.9325	0.0028
F2	LTDSFE	LAG4	3	1.03695	6.89575	0.8943	0.79248	3.00811	0.8169	0.0335
F2	LTDSFE	LAG5	3	1.94149	3.93459	0.6706	0.22833	1.62985	0.9014	0.0097
F2	LTDSFE	LAG6	5	-5.6792	1.8322	0.0362	3.34073	0.74333	0.0109	0.8347
F2	LTDSZN	LAG0	6	2.2448	1.22331	0.126	0.23528	1.03023	0.8284	0.0103
F2	LTDSZN	LAG1	4	1.79802	1.49973	0.3166	0.47612	1.35509	0.7485	0.0395
F2	LTDSZN	LAG2	5	3.52724	2.1653	0.1786	-0.7652	1.34837	0.6007	0.0745
F2	LTDSZN	LAG3	6	2.22008	0.90955	0.0586	0.00543	0.99042	0.9958	0
F2	LTDSZN	LAG4	5	3.76201	1.00273	0.0199	-1.427	0.89595	0.1864	0.3881
F2	LTDSZN	LAG5	3	2.25076	3.48111	0.5842	0.08059	3.11413	0.9817	0.0003
F2	LTDSZN	LAG6	4	2.21636	1.49168	0.234	0.16988	1.06782	0.8837	0.0084
F2	LTKN	LAG0	6	3.96694	3.25803	0.2777	-1.231	2.94682	0.6935	0.0337
F2	LTKN	LAG1	6	1.67857	1.27509	0.2451	1.24559	1.35431	0.3999	0.1447
F2	LTKN	LAG2	7	6.11564	0.88118	0.0004	-4.3197	0.99917	0.005	0.757
F2	LTKN	LAG3	6	5.32595	2.52835	0.089	-2.7386	2.43759	0.3123	0.2016
F2	LTKN	LAG4	6	0.00302	1.73948	0.9987	3.23652	2.27546	0.2142	0.2881
F2	LTKN	LAG5	6	1.02235	2.25228	0.6689	1.69991	2.41804	0.5134	0.09
F2	LTKN	LAG6	7	0.99567	2.79668	0.734	1.36788	2.54114	0.6097	0.0461
F2	LTPO4	LAG0	6	4.61489	2.2065	0.0907	0.78687	0.74914	0.3416	0.1808
F2	LTPO4	LAG1	7	3.58517	2.84958	0.2551	0.3541	0.89391	0.7057	0.0255
F2	LTPO4	LAG2	6	-0.7656	1.95198	0.7111	-1.0293	0.62093	0.1583	0.3547
F2	LTPO4	LAG3	6	-2.8572	3.37428	0.4358	-1.8066	1.12812	0.1702	0.339
F2	LTPO4	LAG4	7	3.90342	2.75031	0.2056	0.46163	0.87332	0.6161	0.0445
F2	LTPO4	LAG5	6	1.90536	2.23372	0.4326	-0.2064	0.76293	0.7976	0.0144
F2	LTPO4	LAG6	6	3.65579	3.10429	0.2919	0.50527	1.08023	0.6596	0.0419

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F3	LAGP	LAG2	2	3.54759	0.63158	0.1122	0.28099	0.46088	0.6514	0.271
F3	LAGP	LAG4	2	2.73048	0.96246	0.2157	-0.1958	0.68067	0.8216	0.0765
F3	LALK	LAG0	6	-7.2304	12.7762	0.5959	1.86633	2.32048	0.4578	0.1146
F3	LALK	LAG1	6	16.5706	12.4985	0.2422	-2.4442	2.22659	0.3223	0.1942
F3	LALK	LAG2	7	5.74649	8.96087	0.545	-0.5022	1.63691	0.7694	0.0154
F3	LALK	LAG3	6	9.37045	10.1956	0.4002	-1.1043	1.83824	0.5742	0.0673
F3	LALK	LAG4	7	-5.0945	7.95799	0.5457	1.4545	1.42879	0.348	0.1473
F3	LALK	LAG5	6	1.4319	9.02639	0.8802	0.28634	1.64181	0.8684	0.006
F3	LALK	LAG6	6	-2.5045	16.4995	0.8853	0.96474	2.93916	0.756	0.0211
F3	LCA	LAG0	6	-11.352	10.6615	0.3357	3.29233	2.43745	0.2347	0.2673
F3	LCA	LAG1	6	10.605	7.13163	0.1972	-1.7513	1.60983	0.3263	0.1914
F3	LCA	LAG2	7	11.2445	6.37023	0.128	-1.9309	1.49	0.2426	0.2187
F3	LCA	LAG3	6	3.21309	8.9607	0.7346	0.00781	2.02923	0.9971	0
F3	LCA	LAG4	7	-5.7718	5.41937	0.3278	2.00991	1.23989	0.1561	0.3046
F3	LCA	LAG5	6	0.47788	6.66661	0.9456	0.58496	1.54044	0.7197	0.028
F3	LCA	LAG6	6	1.05067	12.6881	0.9372	0.41337	2.81993	0.8892	0.0043
F3	LCL	LAG0	6	-2.0757	8.97209	0.8262	1.03654	1.81594	0.5928	0.0612
F3	LCL	LAG1	6	-4.7446	16.8782	0.7899	1.53061	3.39826	0.6713	0.039
F3	LCL	LAG2	7	6.31882	6.48753	0.3677	-0.6793	1.3257	0.6267	0.0419
F3	LCL	LAG3	6	-1.6004	6.50066	0.8153	0.97751	1.30961	0.489	0.1003
F3	LCL	LAG4	7	-1.6785	8.15976	0.8438	0.95739	1.66834	0.5869	0.052
F3	LCL	LAG5	6	1.85006	7.93594	0.8249	0.23786	1.63284	0.8899	0.0042
F3	LCL	LAG6	6	6.20173	10.3591	0.5755	-0.6535	2.05479	0.7633	0.0198
F3	LDOC	LAG0	6	0.71537	4.42785	0.878	0.59694	1.13201	0.6205	0.0527
F3	LDOC	LAG1	6	8.25829	7.92509	0.3451	-1.4497	2.12429	0.5253	0.0852
F3	LDOC	LAG2	7	15.1337	3.96284	0.0088	-3.3467	1.09121	0.022	0.6105
F3	LDOC	LAG3	6	2.7778	8.23791	0.7497	0.12678	2.2219	0.9567	0.0007
F3	LDOC	LAG4	7	1.3659	3.36336	0.6987	0.43283	0.88611	0.6426	0.0382
F3	LDOC	LAG5	6	-2.5379	3.1459	0.4565	1.44531	0.81579	0.1367	0.3857
F3	LDOC	LAG6	6	-11.954	10.0536	0.2878	3.98145	2.69149	0.1991	0.3044
F3	LK	LAG0	6	-0.7763	4.97922	0.8822	1.96006	2.54896	0.4766	0.1058
F3	LK	LAG1	6	5.1241	2.71932	0.1182	-1.1421	1.35718	0.4384	0.1241
F3	LK	LAG2	7	4.57865	2.46315	0.1124	-0.8412	1.29893	0.5412	0.0653
F3	LK	LAG3	6	2.70577	3.30707	0.4505	0.27323	1.66165	0.8758	0.0054
F3	LK	LAG4	7	-0.9483	1.78339	0.614	2.05238	0.91667	0.0664	0.4552
F3	LK	LAG5	6	2.02144	2.81287	0.5045	0.50726	1.43538	0.7382	0.0244
F3	LK	LAG6	6	5.32127	6.84808	0.4723	-1.1473	3.25232	0.7386	0.0243
F3	LMG	LAG0	6	-1.0298	6.24388	0.8755	1.2587	1.9269	0.5425	0.0786
F3	LMG	LAG1	6	7.33886	5.3038	0.225	-1.3521	1.59589	0.4355	0.1255
F3	LMG	LAG2	7	5.62254	4.26857	0.2358	-0.8393	1.36129	0.5602	0.0596
F3	LMG	LAG3	6	1.14605	4.92077	0.8251	0.64297	1.50312	0.6866	0.0353
F3	LMG	LAG4	7	-2.9095	3.89484	0.4833	1.82308	1.19788	0.1789	0.2785
F3	LMG	LAG5	6	1.6659	4.05752	0.6984	0.419	1.26332	0.7536	0.0215
F3	LMG	LAG6	6	0.15675	8.22795	0.9855	0.81446	2.43139	0.7512	0.0219
F3	LNA	LAG0	6	-2.485	8.29915	0.7767	1.2155	1.82355	0.5346	0.0816
F3	LNA	LAG1	6	6.08758	15.0068	0.7018	-0.7016	3.25692	0.8379	0.0092
F3	LNA	LAG2	7	6.23676	5.95978	0.3357	-0.7189	1.32129	0.606	0.047
F3	LNA	LAG3	6	-0.6317	6.68666	0.9284	0.8462	1.45734	0.5867	0.0632
F3	LNA	LAG4	7	-6.0037	8.11099	0.4871	1.98577	1.78749	0.3091	0.1706

F3	LNA	LAG5	6	1.99893	7.33991	0.7963	0.22476	1.63789	0.8962	0.0038
F3	LNA	LAG6	6	6.6017	10.5414	0.5586	-0.7909	2.25656	0.7402	0.024
F3	LNH4	LAG0	6	2.57744	4.52806	0.5938	-0.1271	1.23769	0.9222	0.0021
F3	LNH4	LAG1	6	-28.891	7.03737	0.0093	-8.7155	1.9314	0.0063	0.8029
F3	LNH4	LAG2	7	-1.1556	4.75793	0.8162	-1.1915	1.36086	0.4149	0.1133
F3	LNH4	LAG3	6	11.1671	2.1	0.0031	2.21756	0.58662	0.0129	0.7408
F3	LNH4	LAG4	7	5.18423	5.64567	0.3939	0.57679	1.48762	0.7116	0.0244
F3	LNH4	LAG5	6	-3.674	2.74305	0.2381	-1.8363	0.75014	0.0581	0.5452
F3	LNH4	LAG6	6	2.63375	6.508	0.7024	-0.0774	1.82191	0.9678	0.0004
F3	LNOX	LAG0	2	2.25945	0.33872	0.0947	0.15002	0.08053	0.3136	0.7763
F3	LNOX	LAG1	2	2.36801	4.85011	0.7109	-0.0654	1.05721	0.9606	0.0038
F3	LNOX	LAG2	4	4.01806	3.64395	0.3507	0.19223	0.88031	0.8412	0.0156
F3	LNOX	LAG3	2	3.95235	0.15594	0.0251	0.03312	0.03435	0.5116	0.4818
F3	LNOX	LAG4	2	-11.328	10.3601	0.4716	-3.201	2.34436	0.4024	0.6509
F3	LNOX	LAG5	2	-4.3839	5.43288	0.5678	-1.6548	1.28286	0.4198	0.6246
F3	LNOX	LAG6	2	2.65947	0.04626	0.0111	-0.0675	0.00933	0.0875	0.9812
F3	LOPO4	LAG0	5	4.41444	1.03873	0.0132	0.38676	0.22432	0.1598	0.4263
F3	LOPO4	LAG1	4	1.64175	5.95551	0.8007	-0.2114	1.24564	0.876	0.0095
F3	LOPO4	LAG2	5	0.85249	1.25922	0.5355	-0.5048	0.28138	0.1473	0.4459
F3	LOPO4	LAG3	5	-1.2404	5.8553	0.8426	-0.9446	1.26507	0.4968	0.1223
F3	LOPO4	LAG4	4	10.9112	6.93051	0.2135	1.72686	1.49375	0.3314	0.3082
F3	LOPO4	LAG5	6	3.50265	1.32222	0.0455	0.15653	0.29977	0.6239	0.0517
F3	LOPO4	LAG6	4	0.97947	8.49872	0.9155	-0.3907	1.78267	0.8406	0.0158
F3	LSIO2	LAG0	5	5.00936	5.65218	0.4255	-0.6505	1.98651	0.7597	0.0261
F3	LSIO2	LAG1	6	3.68395	1.9292	0.1144	-0.3055	0.69797	0.6799	0.0369
F3	LSIO2	LAG2	7	4.60665	2.05652	0.0663	-0.6559	0.82759	0.4582	0.0948
F3	LSIO2	LAG3	6	5.4024	2.11002	0.0506	-0.7937	0.77129	0.3507	0.1748
F3	LSIO2	LAG4	7	0.8287	1.26579	0.5369	0.82859	0.46995	0.1283	0.3413
F3	LSIO2	LAG5	6	-0.2995	2.16693	0.8955	1.2447	0.80573	0.183	0.3231
F3	LSIO2	LAG6	6	-1.9941	5.72038	0.7416	1.65555	1.92697	0.4295	0.1286
F3	LSO4	LAG0	6	-0.9664	2.85865	0.749	1.04846	0.74223	0.2169	0.2852
F3	LSO4	LAG1	6	4.90245	2.46846	0.1038	-0.537	0.64075	0.4402	0.1232
F3	LSO4	LAG2	7	5.67102	2.29538	0.0484	-0.7346	0.62478	0.2842	0.1873
F3	LSO4	LAG3	6	3.90273	3.26553	0.2856	-0.1674	0.83138	0.8483	0.008
F3	LSO4	LAG4	7	-2.0763	2.08058	0.3568	1.3081	0.53213	0.0492	0.5018
F3	LSO4	LAG5	6	1.60036	2.63489	0.5701	0.36912	0.68418	0.6127	0.055
F3	LSO4	LAG6	6	3.23378	7.57102	0.6871	-0.0798	1.86133	0.9675	0.0004
F3	LTDKN	LAG0	3	0.92745	0.88114	0.4029	3.15985	1.15725	0.112	0.7885
F3	LTDKN	LAG1	6	3.31991	1.65859	0.1017	-0.5221	1.81571	0.7852	0.0163
F3	LTDKN	LAG2	6	4.49489	0.69359	0.0013	-1.7427	0.9203	0.1168	0.4176
F3	LTDKN	LAG3	4	3.11973	1.66896	0.1584	-0.1602	2.10561	0.9441	0.0019
F3	LTDKN	LAG4	7	1.42356	1.08571	0.2377	2.04822	1.35313	0.1809	0.2763
F3	LTDKN	LAG5	5	2.67982	1.4146	0.1311	0.28064	1.68911	0.8761	0.0069
F3	LTDKN	LAG6	4	-1.4051	3.7726	0.7343	4.59375	3.88627	0.3223	0.3178
F3	LTDPO4	LAG0	6	4.01498	1.34271	0.0304	0.26806	0.35269	0.4815	0.1036
F3	LTDPO4	LAG1	6	-0.2883	5.18548	0.9578	-0.7649	1.25844	0.5698	0.0688
F3	LTDPO4	LAG2	6	0.77045	0.76586	0.3606	-0.5624	0.19866	0.0366	0.6159
F3	LTDPO4	LAG3	6	7.78937	4.02463	0.1107	1.15426	1.02079	0.3095	0.2036
F3	LTDPO4	LAG4	7	8.46303	3.85141	0.0704	1.34132	0.94244	0.2045	0.2524
F3	LTDPO4	LAG5	5	3.3322	1.51815	0.0932	0.05927	0.40778	0.8915	0.0053
F3	LTDPO4	LAG6	6	-4.7739	4.10473	0.2973	-1.89	1.00676	0.1193	0.4134
F3	LTDSCU	LAG0	5	3.17049	0.48441	0.0028	0.10289	1.24972	0.9383	0.0017

F3	LTDSUCU	LAG1	5	2.88552	0.70695	0.0151	0.0144	1.21401	0.9911	0
F3	LTDSUCU	LAG2	6	2.54669	0.44003	0.0022	-0.7681	0.68801	0.315	0.1996
F3	LTDSUCU	LAG3	6	3.00883	0.28025	0.0001	-0.9398	0.60697	0.1822	0.3241
F3	LTDSUCU	LAG4	6	3.25427	0.28881	<.0001	0.07271	0.55838	0.9015	0.0034
F3	LTDSUCU	LAG5	6	3.38332	0.31428	0.0001	1.24335	0.48295	0.0498	0.57
F3	LTDSUCU	LAG6	6	2.6538	0.32688	0.0005	-1.911	0.93924	0.0975	0.4529
F3	LTDSFE	LAG0	3	2.38329	2.43501	0.4309	0.52775	1.43604	0.7485	0.0633
F3	LTDSFE	LAG1	5	3.43153	2.37574	0.2221	-0.2399	1.01246	0.8243	0.0138
F3	LTDSFE	LAG2	3	1.43555	4.75881	0.7914	0.9196	2.38529	0.737	0.0692
F3	LTDSFE	LAG3	3	3.48235	2.03491	0.2292	-0.2311	1.01681	0.8413	0.0252
F3	LTDSFE	LAG4	4	-1.1435	3.56055	0.7692	1.88356	1.46683	0.2893	0.3547
F3	LTDSFE	LAG5	3	2.65354	3.11211	0.4837	0.16747	1.35888	0.9132	0.0075
F3	LTDSFE	LAG6	4	1.99524	2.91134	0.5423	0.4269	1.29819	0.7639	0.0348
F3	LTDSZN	LAG0	5	4.31217	0.55656	0.0015	-1.4458	0.74923	0.1259	0.4821
F3	LTDSZN	LAG1	4	3.53856	0.59464	0.0095	-0.5688	0.34994	0.2025	0.4683
F3	LTDSZN	LAG2	5	2.6513	0.61984	0.0129	0.23974	0.54869	0.6847	0.0456
F3	LTDSZN	LAG3	5	3.41029	0.60064	0.0047	-0.2791	0.62241	0.6771	0.0479
F3	LTDSZN	LAG4	6	3.10408	0.44432	0.0009	0.10884	0.26181	0.6949	0.0334
F3	LTDSZN	LAG5	5	3.26266	0.62107	0.0063	-0.3541	0.64522	0.6123	0.07
F3	LTDSZN	LAG6	2	4.92636	0.59406	0.0764	-2.4728	0.55811	0.1413	0.9515
F3	LTKN	LAG0	4	-3.1526	4.73326	0.553	7.219	5.35236	0.2702	0.3775
F3	LTKN	LAG1	5	3.30245	1.15861	0.0464	-0.2205	1.35936	0.879	0.0065
F3	LTKN	LAG2	7	4.8957	0.95117	0.0021	-2.4001	1.15239	0.0824	0.4196
F3	LTKN	LAG3	4	6.27771	4.20821	0.2326	-3.6075	4.80516	0.5073	0.1582
F3	LTKN	LAG4	6	0.73218	1.20419	0.5697	3.12319	1.66794	0.12	0.4122
F3	LTKN	LAG5	6	2.79827	1.48878	0.1189	0.24697	1.7099	0.8908	0.0042
F3	LTKN	LAG6	5	-0.9589	2.92006	0.7591	4.22102	3.07577	0.2419	0.3201
F3	LTPO4	LAG0	7	3.84204	1.27287	0.0234	0.25677	0.37318	0.5171	0.0731
F3	LTPO4	LAG1	7	1.4788	2.94744	0.6337	-0.4213	0.81063	0.6219	0.0431
F3	LTPO4	LAG2	6	0.98437	1.07606	0.4023	-0.5693	0.30445	0.1204	0.4115
F3	LTPO4	LAG3	7	-3.1126	3.40822	0.3963	-1.7186	0.95479	0.122	0.3506
F3	LTPO4	LAG4	7	6.00729	3.21936	0.1113	0.81323	0.86567	0.3838	0.1282
F3	LTPO4	LAG5	6	3.36306	1.44887	0.068	0.11114	0.42463	0.804	0.0135
F3	LTPO4	LAG6	7	3.5736	3.68796	0.37	0.15916	1.01776	0.8809	0.0041

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F4	LAGP	LAG0	2	6.59102	0.34708	0.0335	2.15652	0.22045	0.0649	0.9897
F4	LAGP	LAG1	1	-14.264			-8.7314			1
F4	LAGP	LAG2	4	2.64092	0.39849	0.007	-0.6455	0.31746	0.1349	0.5795
F4	LAGP	LAG3	1	2.93017			0.10293			1
F4	LAGP	LAG4	5	3.10847	0.48507	0.003	-0.0507	0.34473	0.8903	0.0054
F4	LAGP	LAG5	3	3.39256	1.62295	0.1717	-0.0344	1.33809	0.9818	0.0003
F4	LAGP	LAG6	4	3.13465	1.39338	0.11	-0.2233	1.05036	0.8453	0.0148
F4	LALK	LAG0	8	-0.0985	8.97115	0.9915	0.63372	1.64344	0.7112	0.0208
F4	LALK	LAG1	8	1.80037	6.9787	0.8038	0.25997	1.24943	0.8411	0.0061
F4	LALK	LAG2	9	5.37522	5.78003	0.3796	-0.3982	1.05835	0.7165	0.0174
F4	LALK	LAG3	9	4.65136	8.32367	0.5916	-0.2347	1.53342	0.8821	0.0029
F4	LALK	LAG4	8	0.53574	5.15931	0.9202	0.4973	0.93577	0.6116	0.0388
F4	LALK	LAG5	8	-2.5735	5.46319	0.6519	1.06235	1.00134	0.3239	0.1385
F4	LALK	LAG6	9	-3.3154	6.05137	0.5987	1.19165	1.08786	0.3052	0.1304
F4	LCA	LAG0	8	-5.7769	7.34038	0.4571	2.10507	1.69039	0.2531	0.1814
F4	LCA	LAG1	8	5.57151	5.36353	0.3335	-0.5247	1.21204	0.6781	0.0261
F4	LCA	LAG2	9	8.18274	4.03716	0.0772	-1.1585	0.93788	0.2518	0.1602
F4	LCA	LAG3	9	0.8128	5.44671	0.8851	0.59636	1.26544	0.65	0.027
F4	LCA	LAG4	8	0.00832	3.40202	0.9981	0.751	0.78064	0.3681	0.1168
F4	LCA	LAG5	8	-1.2568	3.77431	0.7489	1.04083	0.87648	0.2738	0.1677
F4	LCA	LAG6	9	1.87532	5.79074	0.7544	0.3255	1.31385	0.8106	0.0076
F4	LCL	LAG0	8	-2.1592	5.11799	0.6858	1.12483	1.04199	0.3162	0.1427
F4	LCL	LAG1	8	2.45745	5.71806	0.6803	0.16134	1.16068	0.8934	0.0028
F4	LCL	LAG2	9	4.67579	3.95435	0.271	-0.3059	0.81948	0.7186	0.0171
F4	LCL	LAG3	9	2.88874	4.40859	0.5307	0.10118	0.91137	0.9143	0.0015
F4	LCL	LAG4	8	-0.7655	3.94075	0.8515	0.83552	0.81376	0.3387	0.1309
F4	LCL	LAG5	8	1.3988	4.54276	0.7671	0.38246	0.95386	0.7004	0.0225
F4	LCL	LAG6	9	2.40947	4.97253	0.641	0.18118	1.00069	0.8608	0.0041
F4	LDOC	LAG0	8	2.18323	3.89419	0.5925	0.32765	1.0824	0.7709	0.0129
F4	LDOC	LAG1	8	2.79034	4.41161	0.5472	0.12593	1.20261	0.9195	0.0016
F4	LDOC	LAG2	9	6.31043	3.81796	0.137	-0.8727	1.07028	0.4384	0.0767
F4	LDOC	LAG3	9	2.9363	3.89918	0.473	0.12423	1.0959	0.9125	0.0016
F4	LDOC	LAG4	8	0.1458	3.42113	0.9672	0.86763	0.94677	0.3899	0.1071
F4	LDOC	LAG5	8	-1.9104	3.2686	0.5772	1.43856	0.9151	0.1599	0.2609
F4	LDOC	LAG6	9	0.87401	3.61263	0.8149	0.6732	0.99678	0.5185	0.0539
F4	LK	LAG0	8	-1.4679	1.96588	0.4796	2.46563	0.99928	0.043	0.4652
F4	LK	LAG1	8	3.88751	1.93289	0.0842	-0.3292	0.99328	0.75	0.0154
F4	LK	LAG2	9	4.89726	1.46274	0.0101	-0.9038	0.77245	0.2757	0.1461
F4	LK	LAG3	9	3.24023	1.79922	0.1094	0.07065	0.91847	0.9406	0.0007
F4	LK	LAG4	8	1.78606	1.4702	0.2638	0.75828	0.74138	0.3404	0.13
F4	LK	LAG5	8	2.37455	1.62647	0.1877	0.42224	0.80598	0.6165	0.0377
F4	LK	LAG6	9	2.14394	2.69438	0.4492	0.57599	1.32717	0.6758	0.023
F4	LMG	LAG0	8	-0.8532	4.01106	0.8376	1.30595	1.24116	0.3277	0.1366
F4	LMG	LAG1	8	3.41616	3.11112	0.3085	-0.0501	0.94424	0.9592	0.0004
F4	LMG	LAG2	9	4.69269	2.94155	0.1493	-0.4745	0.93384	0.6251	0.0313
F4	LMG	LAG3	9	2.3948	3.12685	0.4657	0.31045	0.98528	0.7608	0.0123
F4	LMG	LAG4	8	0.78179	2.35552	0.7497	0.76957	0.7243	0.3233	0.1389
F4	LMG	LAG5	8	0.166	2.5346	0.9496	0.96406	0.79775	0.2661	0.1726
F4	LMG	LAG6	9	3.19173	3.77397	0.4223	0.0352	1.13348	0.976	0.0001

F4	LNA	LAG0	8	-3.2854	4.76739	0.5129	1.46641	1.05084	0.2055	0.2176
F4	LNA	LAG1	8	3.58568	5.2796	0.5189	-0.0735	1.15988	0.9513	0.0006
F4	LNA	LAG2	9	5.00538	3.65135	0.2077	-0.4044	0.81731	0.6341	0.0297
F4	LNA	LAG3	9	4.05529	4.28861	0.372	-0.1518	0.95937	0.8782	0.0031
F4	LNA	LAG4	8	-0.9775	3.98671	0.8133	0.94771	0.88728	0.3209	0.1401
F4	LNA	LAG5	8	1.87008	4.04423	0.6578	0.30444	0.91197	0.7483	0.0157
F4	LNA	LAG6	9	2.19924	4.95062	0.6686	0.2409	1.07369	0.8281	0.0063
F4	LNH4	LAG0	8	6.60476	3.40274	0.0934	0.90674	0.94818	0.3708	0.1155
F4	LNH4	LAG1	8	2.26963	1.59231	0.1971	-0.265	0.42528	0.5529	0.0526
F4	LNH4	LAG2	9	2.39899	2.68158	0.3971	-0.2145	0.71426	0.7716	0.0112
F4	LNH4	LAG3	9	4.18842	2.1573	0.0881	0.21785	0.57657	0.7154	0.0175
F4	LNH4	LAG4	8	9.1703	4.0888	0.0598	1.54216	1.06845	0.1921	0.2294
F4	LNH4	LAG5	8	3.09272	3.81607	0.4444	-0.0331	1.00867	0.9747	0.0002
F4	LNH4	LAG6	9	7.11117	3.2161	0.058	1.06816	0.90126	0.27	0.1494
F4	LNO2	LAG0	0	3.16548			0			
F4	LNO2	LAG2	0	2.75366			0			
F4	LNO2	LAG3	1	3.84992	0.38419	0.0633	0			0
F4	LNO2	LAG5	0	2.47654			0			
F4	LNO2	LAG6	0	4.2485			0			
F4	LNOX	LAG0	3	3.66506	2.32118	0.2551	0.12981	0.6056	0.8501	0.0225
F4	LNOX	LAG1	0	3.46574			0			
F4	LNOX	LAG2	5	2.76553	1.75814	0.1908	-0.0631	0.38472	0.8776	0.0067
F4	LNOX	LAG3	3	7.44511	4.23259	0.2206	0.8446	0.9295	0.4594	0.2922
F4	LNOX	LAG4	2	15.4605	15.0146	0.4907	2.26271	2.82522	0.5701	0.3908
F4	LNOX	LAG5	4	0.6956	1.87775	0.7357	-0.5502	0.41758	0.2792	0.3666
F4	LNOX	LAG6	3	4.49333	2.12378	0.1686	0.25493	0.48244	0.65	0.1225
F4	LOPO4	LAG0	5	5.16549	1.10683	0.0095	0.41206	0.23093	0.1489	0.4432
F4	LOPO4	LAG1	3	0.23858	1.06943	0.8442	-0.6006	0.21058	0.1041	0.8026
F4	LOPO4	LAG2	4	1.97477	1.18554	0.1944	-0.2687	0.26766	0.3893	0.2515
F4	LOPO4	LAG3	6	3.258	2.3154	0.2184	-0.0404	0.45637	0.9329	0.0016
F4	LOPO4	LAG4	3	9.12416	7.75161	0.3603	1.15921	1.55228	0.5331	0.218
F4	LOPO4	LAG5	4	2.74142	1.26767	0.1193	-0.1068	0.28212	0.7301	0.0456
F4	LOPO4	LAG6	6	-0.579	3.34824	0.8695	-0.7898	0.66215	0.2865	0.2215
F4	LSIO2	LAG0	7	3.75664	3.01155	0.2587	-0.1027	1.04431	0.9248	0.0016
F4	LSIO2	LAG1	8	3.15901	1.67892	0.1019	0.03257	0.58459	0.9571	0.0004
F4	LSIO2	LAG2	9	3.27016	2.02604	0.1452	-0.0249	0.73498	0.9738	0.0001
F4	LSIO2	LAG3	9	2.05355	1.44952	0.1943	0.48973	0.5304	0.3828	0.0963
F4	LSIO2	LAG4	8	2.01229	1.20163	0.1379	0.45107	0.423	0.3217	0.1397
F4	LSIO2	LAG5	8	1.90513	1.67553	0.2929	0.48005	0.60705	0.455	0.082
F4	LSIO2	LAG6	9	1.69124	2.07506	0.4386	0.55924	0.71291	0.4554	0.0714
F4	LSO4	LAG0	8	-1.1545	1.79023	0.5396	1.14594	0.45192	0.0389	0.4788
F4	LSO4	LAG1	8	3.24638	2.00357	0.1492	0.00134	0.50879	0.998	0
F4	LSO4	LAG2	9	3.96708	1.52753	0.0318	-0.2038	0.40279	0.6266	0.031
F4	LSO4	LAG3	9	1.15907	2.30022	0.6279	0.57663	0.59535	0.3611	0.105
F4	LSO4	LAG4	8	0.82193	1.62966	0.6295	0.63024	0.4158	0.1734	0.2471
F4	LSO4	LAG5	8	2.56586	1.63801	0.1612	0.17168	0.42687	0.6995	0.0226
F4	LSO4	LAG6	9	3.66917	3.01303	0.258	-0.0909	0.7575	0.9074	0.0018
F4	LTDKN	LAG0	6	0.89538	0.8322	0.3311	3.00898	1.04815	0.035	0.6224
F4	LTDKN	LAG1	8	3.43775	0.78153	0.0032	-0.2314	0.92664	0.81	0.0088
F4	LTDKN	LAG2	8	3.56657	0.79384	0.0028	-0.4079	1.09424	0.7204	0.0195
F4	LTDKN	LAG3	7	3.89317	0.61217	0.0007	-0.9061	0.89066	0.3482	0.1471
F4	LTDKN	LAG4	8	2.77121	0.62741	0.0031	0.70139	0.82354	0.4226	0.0939

F4	LTDKN	LAG5	7	2.71042	0.82172	0.0164	0.71871	1.08884	0.5337	0.0677
F4	LTDKN	LAG6	7	2.36166	1.45166	0.1549	1.274	1.63585	0.4657	0.0918
F4	LTDP04	LAG0	8	4.5493	1.14027	0.0053	0.26391	0.24703	0.3208	0.1402
F4	LTDP04	LAG1	8	0.69651	1.78943	0.7087	-0.5497	0.38238	0.1937	0.2279
F4	LTDP04	LAG2	9	2.12377	0.99921	0.0663	-0.236	0.21426	0.3027	0.1317
F4	LTDP04	LAG3	9	-1.9457	4.54938	0.6802	-1.0999	0.93905	0.2752	0.1464
F4	LTDP04	LAG4	8	3.32269	4.90237	0.5197	0.00982	1.01252	0.9925	0
F4	LTDP04	LAG5	8	3.28173	1.11279	0.0214	0.01398	0.23794	0.9548	0.0005
F4	LTDP04	LAG6	9	0.082	4.81164	0.9868	-0.6555	0.97633	0.5209	0.0533
F4	LTDSCU	LAG0	7	3.77003	0.23353	<.0001	1.16033	0.48041	0.0522	0.493
F4	LTDSCU	LAG1	7	3.22565	0.30252	<.0001	0.23857	0.48709	0.6417	0.0384
F4	LTDSCU	LAG2	9	3.19634	0.19392	<.0001	-0.3184	0.22907	0.202	0.1945
F4	LTDSCU	LAG3	9	3.59457	0.22626	<.0001	0.6436	0.36766	0.1181	0.277
F4	LTDSCU	LAG4	7	3.01308	0.36313	0.0002	-0.7716	0.69752	0.311	0.1694
F4	LTDSCU	LAG5	8	3.21591	0.2394	<.0001	0.01679	0.27362	0.9528	0.0005
F4	LTDSCU	LAG6	8	3.26976	0.30845	<.0001	-0.1502	0.50535	0.7749	0.0125
F4	LTDSFE	LAG0	4	8.35998	0.95282	0.0031	-2.7078	0.4945	0.012	0.9091
F4	LTDSFE	LAG1	6	2.73698	1.97603	0.2246	0.30038	1.01858	0.7799	0.0171
F4	LTDSFE	LAG2	2	2.60635	5.46324	0.7166	0.14349	2.49018	0.9634	0.0033
F4	LTDSFE	LAG3	4	0.30977	1.70612	0.8675	1.63962	0.8588	0.1522	0.5485
F4	LTDSFE	LAG4	5	4.28053	1.11902	0.0187	-0.473	0.47526	0.376	0.1985
F4	LTDSFE	LAG5	3	3.14128	4.15374	0.5284	0.14622	1.99764	0.9483	0.0027
F4	LTDSFE	LAG6	2	-3.714	20.7508	0.8873	3.59996	10.4681	0.7891	0.1058
F4	LTDSZN	LAG0	7	3.05407	0.40015	0.0003	0.41928	0.3419	0.266	0.2004
F4	LTDSZN	LAG1	3	3.54488	0.52636	0.0213	0.2632	0.66318	0.7298	0.073
F4	LTDSZN	LAG2	7	3.74371	0.49035	0.0003	-0.4041	0.34248	0.2827	0.1883
F4	LTDSZN	LAG3	6	3.63062	0.40261	0.0003	-0.1388	0.36386	0.7184	0.0283
F4	LTDSZN	LAG4	4	3.41896	0.47373	0.0055	-0.2849	0.44217	0.5653	0.1215
F4	LTDSZN	LAG5	7	3.86285	0.35688	<.0001	-0.6119	0.27677	0.069	0.449
F4	LTDSZN	LAG6	6	3.2937	0.47492	0.001	0.18878	0.43204	0.6804	0.0368
F4	LTKN	LAG0	7	-0.2742	0.96457	0.7857	4.30944	1.09994	0.0078	0.719
F4	LTKN	LAG1	6	3.32506	0.83102	0.0103	0.00808	0.94156	0.9935	0
F4	LTKN	LAG2	8	3.97531	0.65741	0.0005	-1.1738	0.83179	0.2011	0.2215
F4	LTKN	LAG3	8	3.6858	0.67678	0.001	-0.3918	0.93248	0.687	0.0246
F4	LTKN	LAG4	6	3.03387	0.71075	0.0079	0.16699	0.94916	0.8672	0.0062
F4	LTKN	LAG5	8	2.22379	0.75321	0.0213	1.269	0.92317	0.2116	0.2126
F4	LTKN	LAG6	8	2.67704	1.4298	0.1033	0.76425	1.55021	0.6371	0.0336
F4	LTPO4	LAG0	8	4.61107	1.04372	0.0031	0.32034	0.26002	0.2577	0.1782
F4	LTPO4	LAG1	9	0.45274	1.27979	0.7327	-0.667	0.30771	0.062	0.37
F4	LTPO4	LAG2	9	2.03535	1.03286	0.0843	-0.3124	0.24755	0.2425	0.166
F4	LTPO4	LAG3	9	-0.5168	3.62862	0.8903	-0.9206	0.85638	0.3137	0.1262
F4	LTPO4	LAG4	10	4.84615	1.66864	0.0175	0.37129	0.39647	0.3735	0.0888
F4	LTPO4	LAG5	8	3.4238	1.17933	0.0229	0.02879	0.29159	0.9241	0.0014
F4	LTPO4	LAG6	9	4.63929	5.12399	0.3917	0.31119	1.19702	0.8015	0.0084

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F5	LALK	LAG0	5	-7.7281	5.3547	0.2224	2.07038	0.9704	0.0998	0.5323
F5	LALK	LAG1	5	1.66044	6.179	0.8014	0.37373	1.13762	0.759	0.0263
F5	LALK	LAG2	6	6.05401	4.91795	0.2731	-0.4455	0.91166	0.6457	0.0456
F5	LALK	LAG3	5	2.3557	7.63466	0.7731	0.23069	1.38428	0.8757	0.0069
F5	LALK	LAG4	5	-0.9966	4.73302	0.8435	0.8569	0.87575	0.3832	0.1931
F5	LALK	LAG5	5	1.99589	5.70449	0.7441	0.31519	1.05123	0.7792	0.022
F5	LALK	LAG6	5	5.84377	6.92214	0.4461	-0.4182	1.26027	0.7567	0.0268
F5	LCA	LAG0	5	-5.5877	3.82757	0.2181	2.15377	0.88765	0.0723	0.5954
F5	LCA	LAG1	5	3.48462	4.49345	0.4813	0.04786	1.05473	0.966	0.0005
F5	LCA	LAG2	6	5.09806	3.80183	0.2376	-0.3426	0.89995	0.719	0.0282
F5	LCA	LAG3	5	2.7463	6.62163	0.6996	0.20402	1.53227	0.9005	0.0044
F5	LCA	LAG4	5	-0.0746	3.19759	0.9825	0.8791	0.75691	0.31	0.2522
F5	LCA	LAG5	5	-0.1043	4.37938	0.9821	0.89267	1.02458	0.4328	0.1595
F5	LCA	LAG6	5	5.06751	5.98931	0.4451	-0.3542	1.3953	0.8121	0.0159
F5	LCL	LAG0	5	-2.7987	4.62157	0.5775	1.30843	0.93092	0.2326	0.3306
F5	LCL	LAG1	5	10.1898	7.17333	0.2285	-1.3453	1.48321	0.4157	0.1706
F5	LCL	LAG2	5	9.55005	6.27962	0.203	-1.2347	1.29099	0.393	0.1861
F5	LCL	LAG3	5	5.12822	6.17731	0.4531	-0.3019	1.2411	0.8197	0.0146
F5	LCL	LAG4	5	1.89361	4.06222	0.6654	0.36895	0.86236	0.6908	0.0438
F5	LCL	LAG5	4	9.73622	8.74392	0.3467	-1.2511	1.80869	0.5388	0.1376
F5	LCL	LAG6	5	10.3445	4.93787	0.1042	-1.3721	0.99596	0.2404	0.3218
F5	LDOC	LAG0	5	-4.2967	3.47854	0.2843	2.18577	0.95073	0.083	0.5692
F5	LDOC	LAG1	5	4.22455	6.55744	0.5545	-0.1475	1.80106	0.9387	0.0017
F5	LDOC	LAG2	6	8.14784	5.18472	0.1769	-1.2713	1.46517	0.4252	0.1309
F5	LDOC	LAG3	5	3.33076	5.71679	0.5914	0.08097	1.56001	0.9611	0.0007
F5	LDOC	LAG4	5	2.32961	3.19237	0.506	0.36638	0.8977	0.7041	0.04
F5	LDOC	LAG5	5	0.70061	5.90895	0.9113	0.85155	1.67339	0.6376	0.0608
F5	LDOC	LAG6	5	3.5218	5.28514	0.5416	0.00732	1.45382	0.9962	0
F5	LK	LAG0	5	0.44072	1.33192	0.7573	1.61849	0.65724	0.0695	0.6025
F5	LK	LAG1	5	4.52485	1.96636	0.0828	-0.4429	1.02936	0.6892	0.0442
F5	LK	LAG2	6	4.8887	2.03131	0.0611	-0.64	1.04518	0.5671	0.0698
F5	LK	LAG3	5	2.88282	1.77032	0.1788	0.37507	0.87998	0.6919	0.0434
F5	LK	LAG4	5	3.03064	1.29636	0.0796	0.33452	0.70863	0.6615	0.0528
F5	LK	LAG5	5	4.26742	2.31527	0.1391	-0.2901	1.18268	0.8183	0.0148
F5	LK	LAG6	5	3.58994	1.5377	0.0798	-0.0216	0.78897	0.9794	0.0002
F5	LMG	LAG0	5	-1.4493	3.21645	0.6756	1.5603	0.97434	0.1845	0.3907
F5	LMG	LAG1	5	5.62313	3.50641	0.1841	-0.615	1.11072	0.6093	0.0712
F5	LMG	LAG2	6	6.69322	2.80995	0.063	-0.9774	0.90067	0.3274	0.1906
F5	LMG	LAG3	5	3.19335	3.88273	0.457	0.13204	1.17859	0.9162	0.0031
F5	LMG	LAG4	5	1.82344	2.40119	0.4899	0.58919	0.77908	0.4916	0.1251
F5	LMG	LAG5	5	3.15177	3.40395	0.4069	0.17732	1.08887	0.8785	0.0066
F5	LMG	LAG6	5	5.10789	3.46921	0.2149	-0.4782	1.06091	0.6755	0.0483
F5	LNA	LAG0	5	-2.9611	4.38778	0.5368	1.45948	0.96171	0.2037	0.3654
F5	LNA	LAG1	5	9.23031	5.52821	0.1703	-1.2472	1.24258	0.3723	0.2012
F5	LNA	LAG2	6	9.02497	3.21823	0.0378	-1.2151	0.7266	0.1553	0.3587
F5	LNA	LAG3	5	5.66224	6.51317	0.4337	-0.4443	1.42038	0.7701	0.0239
F5	LNA	LAG4	5	1.98486	3.95133	0.6418	0.37962	0.91092	0.6983	0.0416
F5	LNA	LAG5	5	5.15176	4.44023	0.3105	-0.3296	1.00873	0.7603	0.026
F5	LNA	LAG6	5	11.5534	4.93241	0.0792	-1.7534	1.07943	0.1796	0.3975

F5	LNH4	LAG0	5	11.6252	3.45658	0.0282	2.38893	1.03871	0.0829	0.5694
F5	LNH4	LAG1	5	0.88254	5.15288	0.8723	-0.7789	1.42834	0.6145	0.0692
F5	LNH4	LAG2	6	5.2762	2.27967	0.0685	0.46053	0.64352	0.5062	0.0929
F5	LNH4	LAG3	5	10.3984	5.02479	0.1073	2.04594	1.51639	0.2486	0.3128
F5	LNH4	LAG4	5	1.94929	7.16577	0.7991	-0.4533	1.93459	0.8262	0.0135
F5	LNH4	LAG5	5	0.98419	2.22622	0.6813	-0.7752	0.63051	0.2863	0.2743
F5	LNH4	LAG6	5	4.72684	4.08825	0.312	0.35064	1.21389	0.787	0.0204
F5	LNOX	LAG0	3	1.79323	0.61739	0.1009	-0.4988	0.16162	0.0909	0.8264
F5	LNOX	LAG1	1	1.52466			-0.586			1
F5	LNOX	LAG2	4	4.58963	2.98172	0.2214	0.25819	0.76389	0.7576	0.0367
F5	LNOX	LAG3	2	5.22237	0.6827	0.0828	0.26398	0.1611	0.3488	0.7286
F5	LNOX	LAG4	2	7.45604	2.75402	0.2253	0.83801	0.63129	0.411	0.638
F5	LNOX	LAG5	3	-2.0082	1.26791	0.2541	-1.4634	0.31984	0.0446	0.9128
F5	LNOX	LAG6	2	-0.0304	0.37009	0.9478	-0.8642	0.08733	0.0641	0.9899
F5	LOPO4	LAG0	4	-9.1352	4.12143	0.1134	-2.3217	0.76348	0.0558	0.755
F5	LOPO4	LAG1	0	3.35096			0			
F5	LOPO4	LAG2	2	-1.3023	5.50271	0.8521	-1.149	1.26342	0.5302	0.4527
F5	LOPO4	LAG3	4	-0.023	2.72101	0.9938	-0.7307	0.51287	0.2494	0.4036
F5	LOPO4	LAG4	1	3.39888	0.04793	0.009	0			0
F5	LOPO4	LAG5	2	4.64615	2.69751	0.3349	0.22365	0.61935	0.7794	0.1154
F5	LOPO4	LAG6	5	4.17435	4.14413	0.3708	0.11884	0.77575	0.8857	0.0058
F5	LSIO2	LAG0	4	2.49524	4.64116	0.6282	0.46842	1.53715	0.7805	0.03
F5	LSIO2	LAG1	5	6.06571	3.4344	0.1521	-0.8032	1.15638	0.5255	0.1076
F5	LSIO2	LAG2	5	4.08182	1.303	0.0351	-0.1998	0.47813	0.6975	0.0418
F5	LSIO2	LAG3	5	3.71122	2.69143	0.24	-0.0292	0.92765	0.9764	0.0002
F5	LSIO2	LAG4	5	0.74008	1.90415	0.7173	1.0111	0.6617	0.2012	0.3686
F5	LSIO2	LAG5	4	3.95789	1.7081	0.1034	-0.0986	0.61974	0.8837	0.0084
F5	LSIO2	LAG6	5	2.08132	2.28537	0.414	0.50878	0.78769	0.5535	0.0945
F5	LSO4	LAG0	5	-0.3485	1.80202	0.8561	1.0232	0.45404	0.0873	0.5594
F5	LSO4	LAG1	5	4.94783	1.54159	0.0326	-0.3455	0.41605	0.453	0.147
F5	LSO4	LAG2	5	2.04762	3.65125	0.6049	0.37757	0.91626	0.7014	0.0407
F5	LSO4	LAG3	5	3.43557	2.83513	0.2923	0.04845	0.71327	0.9491	0.0012
F5	LSO4	LAG4	5	2.73466	1.40928	0.1243	0.2524	0.39042	0.5532	0.0946
F5	LSO4	LAG5	4	-6.1444	2.2431	0.0714	2.42707	0.55242	0.0218	0.8655
F5	LSO4	LAG6	5	3.7931	2.55538	0.2119	-0.0633	0.6574	0.9279	0.0023
F5	LTDKN	LAG0	4	1.76999	0.62922	0.0671	2.28945	0.72508	0.051	0.7687
F5	LTDKN	LAG1	5	5.20095	1.132	0.0101	-1.7663	1.29034	0.2429	0.319
F5	LTDKN	LAG2	5	4.53482	0.79548	0.0047	-1.2809	1.06302	0.2946	0.2663
F5	LTDKN	LAG3	4	3.07559	1.63942	0.1573	0.472	1.8483	0.8149	0.0213
F5	LTDKN	LAG4	5	3.33153	0.68433	0.0082	0.40682	0.85315	0.6584	0.0538
F5	LTDKN	LAG5	4	3.60049	0.94349	0.0317	-0.0182	1.27492	0.9895	0.0001
F5	LTDKN	LAG6	4	3.0056	0.91383	0.0461	0.83723	1.02077	0.4722	0.1832
F5	LTDPO4	LAG0	5	-5.4412	10.0804	0.618	-1.7812	1.96604	0.4162	0.1703
F5	LTDPO4	LAG1	5	10.2718	3.96938	0.0608	1.36984	0.82452	0.172	0.4083
F5	LTDPO4	LAG2	5	4.14875	3.02783	0.2425	0.06422	0.61127	0.9214	0.0028
F5	LTDPO4	LAG3	5	-12.054	7.88197	0.2009	-3.0594	1.53728	0.1174	0.4975
F5	LTDPO4	LAG4	5	3.10152	4.56079	0.5338	-0.1087	0.94097	0.9136	0.0033
F5	LTDPO4	LAG5	5	5.59562	4.65247	0.2954	0.38261	0.93927	0.7046	0.0398
F5	LTDPO4	LAG6	5	0.35727	7.6138	0.9648	-0.6115	1.4581	0.6965	0.0421
F5	LTDSCU	LAG0	4	3.90442	0.20241	0.0003	-0.1645	0.33942	0.6612	0.0726
F5	LTDSCU	LAG1	5	4.23604	0.31182	0.0002	1.28962	0.56975	0.0863	0.5616
F5	LTDSCU	LAG2	6	3.67161	0.17176	<.0001	0.5511	0.23495	0.0659	0.5239

F5	LTDSUCU	LAG3	5	3.6428	0.19419	<.0001	0.83252	0.3567	0.0799	0.5766
F5	LTDSUCU	LAG4	5	3.18717	0.45657	0.0022	-1.2037	1.03149	0.308	0.254
F5	LTDSUCU	LAG5	5	3.78028	0.18619	<.0001	-0.665	0.26775	0.068	0.6066
F5	LTDSUCU	LAG6	5	3.54929	0.19688	<.0001	-0.6772	0.37242	0.1431	0.4526
F5	LTDSFE	LAG0	4	-2.6208	6.48693	0.7133	2.98043	3.02855	0.3976	0.244
F5	LTDSFE	LAG1	4	2.19991	2.70049	0.4749	0.7042	1.21251	0.6021	0.1011
F5	LTDSFE	LAG2	3	4.80204	2.3162	0.1739	-0.5379	1.14972	0.6859	0.0986
F5	LTDSFE	LAG3	3	12.8744	6.68567	0.194	-4.2516	3.10777	0.3047	0.4834
F5	LTDSFE	LAG4	4	3.8914	0.96961	0.0278	-0.0811	0.31832	0.8154	0.0212
F5	LTDSFE	LAG5	2	0.56404	0.20638	0.2233	1.53336	0.10267	0.0426	0.9955
F5	LTDSFE	LAG6	3	-9.3171	1.89224	0.0389	6.07525	0.89533	0.021	0.9584
F5	LTDSZN	LAG0	4	4.3261	0.72165	0.0093	-0.5292	0.51571	0.3803	0.2598
F5	LTDSZN	LAG1	3	3.29193	1.21832	0.114	0.16159	0.84954	0.8667	0.0178
F5	LTDSZN	LAG2	5	3.16111	0.85293	0.0207	0.46857	0.79301	0.5864	0.0803
F5	LTDSZN	LAG3	4	2.64972	0.43189	0.0087	0.7694	0.34722	0.1135	0.6207
F5	LTDSZN	LAG4	2	4.51929	1.26637	0.1739	-0.8826	0.9565	0.5256	0.4599
F5	LTDSZN	LAG5	4	3.20004	1.26119	0.0849	0.3377	1.08787	0.7766	0.0311
F5	LTDSZN	LAG6	3	4.73753	0.38416	0.0065	-0.983	0.2839	0.0742	0.857
F5	LTKN	LAG0	4	2.68608	1.47461	0.1661	1.34407	1.60842	0.4647	0.1888
F5	LTKN	LAG1	4	4.90692	1.54491	0.0502	-1.5734	1.90711	0.4698	0.1849
F5	LTKN	LAG2	5	4.88099	0.79376	0.0035	-1.6715	1.01268	0.1742	0.4051
F5	LTKN	LAG3	4	6.49088	2.36736	0.0712	-3.089	2.58219	0.3175	0.323
F5	LTKN	LAG4	4	3.16929	0.69875	0.0201	0.49336	0.94396	0.6374	0.0835
F5	LTKN	LAG5	4	3.65073	1.05117	0.0403	-0.0867	1.37558	0.9537	0.0013
F5	LTKN	LAG6	4	9.58407	2.00285	0.0174	-6.8923	2.28683	0.057	0.7517
F5	LTPO4	LAG0	6	9.25139	4.65184	0.1034	1.20538	1.00058	0.2822	0.225
F5	LTPO4	LAG1	6	1.65959	3.99065	0.6948	-0.442	0.88298	0.6379	0.0477
F5	LTPO4	LAG2	5	7.52536	2.22572	0.0278	0.87598	0.4883	0.1473	0.4458
F5	LTPO4	LAG3	6	2.09455	6.44808	0.7585	-0.3394	1.40285	0.8184	0.0116
F5	LTPO4	LAG4	6	8.40871	2.88102	0.0331	1.0423	0.62999	0.1589	0.3538
F5	LTPO4	LAG5	5	2.65234	2.85912	0.4061	-0.2269	0.65608	0.7469	0.029
F5	LTPO4	LAG6	6	-7.3243	4.29241	0.1487	-2.3604	0.92224	0.0507	0.5671

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
U3	LAGP	LAG0	3	5.36296	0.92934	0.0287	0.68964	0.6022	0.3707	0.396
U3	LAGP	LAG2	3	4.11403	0.12596	0.0009	-0.2771	0.10234	0.1137	0.7856
U3	LAGP	LAG4	4	3.97313	0.40975	0.0023	-0.2075	0.27305	0.5025	0.1615
U3	LAGP	LAG5	3	4.30403	0.12025	0.0008	-0.2555	0.09185	0.1086	0.7946
U3	LAGP	LAG6	3	4.41338	0.13884	0.001	0.28445	0.12464	0.15	0.7226
U3	LALK	LAG0	9	0.01923	4.67659	0.9968	0.81608	0.86292	0.372	0.1006
U3	LALK	LAG1	8	6.63064	5.23892	0.2461	-0.4145	0.97634	0.6839	0.0251
U3	LALK	LAG2	9	5.50323	4.50123	0.2563	-0.2119	0.83996	0.8072	0.0079
U3	LALK	LAG3	9	1.79477	6.27549	0.7821	0.4913	1.1564	0.6821	0.0221
U3	LALK	LAG4	9	-1.2283	3.41084	0.7281	1.05746	0.63337	0.1336	0.2584
U3	LALK	LAG5	9	1.39744	3.89407	0.729	0.56858	0.72208	0.4537	0.0719
U3	LALK	LAG6	9	0.19393	7.46936	0.9799	0.76869	1.37237	0.5907	0.0377
U3	LCA	LAG0	9	-4.3605	3.92269	0.2986	2.09109	0.93151	0.055	0.3865
U3	LCA	LAG1	8	7.77689	3.34935	0.0532	-0.8155	0.80929	0.3472	0.1267
U3	LCA	LAG2	9	9.31779	3.30755	0.0226	-1.1902	0.79431	0.1724	0.2192
U3	LCA	LAG3	9	2.65818	4.54955	0.5751	0.43141	1.08852	0.7022	0.0193
U3	LCA	LAG4	9	0.70114	2.411	0.7786	0.91426	0.58505	0.1567	0.2339
U3	LCA	LAG5	9	1.13169	3.00067	0.7159	0.79897	0.719	0.2987	0.1337
U3	LCA	LAG6	9	-3.5524	5.04627	0.5014	1.88663	1.20004	0.1546	0.236
U3	LCL	LAG0	9	1.81434	3.14201	0.5795	0.53416	0.63841	0.427	0.0805
U3	LCL	LAG1	8	3.27211	3.49708	0.3806	0.2371	0.72834	0.7543	0.0149
U3	LCL	LAG2	9	4.90453	3.90197	0.2442	-0.1113	0.80923	0.894	0.0024
U3	LCL	LAG3	9	3.26795	3.82432	0.4177	0.24443	0.7834	0.763	0.012
U3	LCL	LAG4	9	0.93909	2.23104	0.6849	0.72841	0.4603	0.1522	0.2384
U3	LCL	LAG5	9	1.93642	3.40281	0.5849	0.52553	0.7075	0.4789	0.0645
U3	LCL	LAG6	9	7.8115	3.75304	0.071	-0.6985	0.76214	0.3862	0.095
U3	LDOC	LAG0	9	-1.5621	3.02899	0.62	1.62695	0.82008	0.0825	0.3297
U3	LDOC	LAG1	8	3.94696	3.77003	0.3299	0.1295	1.05646	0.9059	0.0021
U3	LDOC	LAG2	9	8.18261	4.10033	0.0811	-1.0659	1.14474	0.379	0.0978
U3	LDOC	LAG3	9	4.74776	3.1816	0.174	-0.0798	0.87996	0.93	0.001
U3	LDOC	LAG4	9	0.71851	2.25798	0.7585	1.03684	0.62411	0.1352	0.2565
U3	LDOC	LAG5	9	-2.6971	2.714	0.3494	1.98126	0.75028	0.0297	0.4657
U3	LDOC	LAG6	9	3.80694	4.3052	0.4023	0.15416	1.16456	0.898	0.0022
U3	LK	LAG0	9	2.59765	1.5067	0.123	0.93632	0.76078	0.2534	0.1592
U3	LK	LAG1	8	3.96691	1.81635	0.0653	0.23695	0.96794	0.8136	0.0085
U3	LK	LAG2	9	4.17389	1.4271	0.0192	0.1042	0.75566	0.8937	0.0024
U3	LK	LAG3	9	3.31486	1.13154	0.019	0.58773	0.57351	0.3354	0.116
U3	LK	LAG4	9	2.87696	1.03194	0.0236	0.83559	0.53756	0.1587	0.232
U3	LK	LAG5	9	3.69001	1.34016	0.0249	0.4069	0.70104	0.5776	0.0404
U3	LK	LAG6	9	3.88667	1.2224	0.013	0.25422	0.62624	0.6954	0.0202
U3	LMG	LAG0	9	0.63376	2.49408	0.8058	1.16592	0.76243	0.1647	0.2262
U3	LMG	LAG1	8	4.67995	2.42609	0.0951	-0.0869	0.77312	0.9136	0.0018
U3	LMG	LAG2	9	5.96774	2.79059	0.0649	-0.5081	0.88447	0.5815	0.0396
U3	LMG	LAG3	9	3.12936	3.09486	0.3415	0.41027	0.95265	0.6781	0.0227
U3	LMG	LAG4	9	1.96258	1.54116	0.2386	0.791	0.48535	0.1418	0.2493
U3	LMG	LAG5	9	1.76523	2.40972	0.4847	0.84748	0.7557	0.2946	0.1358
U3	LMG	LAG6	9	5.02539	3.07691	0.1411	-0.1982	0.93742	0.8378	0.0056
U3	LNA	LAG0	9	0.97211	3.1906	0.7684	0.76048	0.69881	0.3082	0.1289
U3	LNA	LAG1	8	3.75765	3.46702	0.3144	0.14731	0.78337	0.8562	0.005

U3	LNA	LAG2	9	6.14602	3.75491	0.1403	-0.3997	0.84339	0.6482	0.0273
U3	LNA	LAG3	9	3.30285	4.18006	0.4522	0.25654	0.92596	0.7888	0.0095
U3	LNA	LAG4	9	1.07829	2.43864	0.6701	0.76062	0.54719	0.202	0.1945
U3	LNA	LAG5	9	1.66071	3.63194	0.6597	0.62959	0.81574	0.4624	0.0693
U3	LNA	LAG6	9	8.27588	4.06436	0.0761	-0.8542	0.88927	0.3649	0.1034
U3	LNH4	LAG0	9	4.84952	0.66932	<.0001	0.13542	0.21104	0.539	0.049
U3	LNH4	LAG1	8	7.17721	3.13047	0.0556	0.78274	0.88296	0.4048	0.1009
U3	LNH4	LAG2	8	4.03467	0.68263	0.0006	-0.1219	0.22222	0.6004	0.0412
U3	LNH4	LAG3	9	3.56502	1.38941	0.0333	-0.2717	0.41806	0.534	0.0501
U3	LNH4	LAG4	8	5.07262	0.9967	0.0014	0.19265	0.30197	0.5438	0.0549
U3	LNH4	LAG5	9	4.92971	0.54177	<.0001	0.16954	0.18433	0.3846	0.0956
U3	LNH4	LAG6	9	5.84176	1.41261	0.0033	0.48668	0.46487	0.3257	0.1205
U3	LNOX	LAG0	4	4.06021	0.97427	0.0251	-0.0517	0.23505	0.8401	0.0159
U3	LNOX	LAG1	2	-15.143	7.50153	0.2928	-4.0366	1.50933	0.2278	0.8773
U3	LNOX	LAG2	6	3.6775	1.60814	0.0709	-0.1899	0.38814	0.6454	0.0457
U3	LNOX	LAG3	6	4.85349	1.58208	0.0279	0.05304	0.35361	0.8866	0.0045
U3	LNOX	LAG4	3	2.49818	4.62173	0.643	-0.408	0.98348	0.7185	0.0792
U3	LNOX	LAG5	5	2.94338	1.57425	0.1349	-0.3809	0.38764	0.3814	0.1945
U3	LNOX	LAG6	3	-0.1996	1.77991	0.921	-1.0132	0.38361	0.1184	0.7772
U3	LOPO4	LAG0	5	18.5369	5.45129	0.0273	2.83688	1.07503	0.0576	0.6352
U3	LOPO4	LAG1	3	1.35986	2.44539	0.6341	-0.555	0.45122	0.3438	0.4307
U3	LOPO4	LAG2	4	2.5612	2.20925	0.3302	-0.3611	0.46024	0.49	0.1703
U3	LOPO4	LAG3	6	3.48324	1.27911	0.0416	-0.1838	0.25533	0.5038	0.0939
U3	LOPO4	LAG4	5	2.49778	3.42684	0.5065	-0.3583	0.65932	0.6157	0.0688
U3	LOPO4	LAG5	6	0.99934	0.68418	0.2039	-0.685	0.14205	0.0048	0.8231
U3	LOPO4	LAG6	7	2.96206	1.05746	0.0311	-0.2611	0.20403	0.2479	0.2144
U3	LSIO2	LAG0	8	7.24913	3.79636	0.0978	-0.9114	1.26568	0.4948	0.069
U3	LSIO2	LAG1	8	5.44041	1.74544	0.0169	-0.3626	0.60854	0.57	0.0483
U3	LSIO2	LAG2	9	7.17051	2.32467	0.015	-0.9978	0.82532	0.2612	0.1545
U3	LSIO2	LAG3	9	4.66939	1.50802	0.0147	-0.0731	0.52133	0.892	0.0024
U3	LSIO2	LAG4	9	4.4426	1.36683	0.0117	0.00606	0.47916	0.9902	0
U3	LSIO2	LAG5	9	3.40612	1.67462	0.0764	0.37966	0.59939	0.5441	0.0478
U3	LSIO2	LAG6	9	4.75992	4.33359	0.304	-0.1281	1.44483	0.9315	0.001
U3	LSO4	LAG0	9	1.8831	1.93758	0.3596	0.62852	0.47452	0.2219	0.1799
U3	LSO4	LAG1	8	5.0788	1.3409	0.0068	-0.1834	0.36195	0.6279	0.0354
U3	LSO4	LAG2	9	5.73386	1.54947	0.006	-0.3558	0.40078	0.4005	0.0897
U3	LSO4	LAG3	9	3.00053	2.05175	0.1818	0.37094	0.51945	0.4955	0.0599
U3	LSO4	LAG4	9	3.32098	1.04302	0.0129	0.31257	0.2821	0.3	0.133
U3	LSO4	LAG5	9	2.89115	1.42048	0.0762	0.41201	0.37005	0.2979	0.1342
U3	LSO4	LAG6	9	4.80266	2.10411	0.0519	-0.1092	0.5365	0.8437	0.0052
U3	LTDKN	LAG0	7	2.84762	1.06381	0.0367	1.6873	1.13272	0.1869	0.27
U3	LTDKN	LAG1	8	4.25953	0.93097	0.0026	0.19187	1.16655	0.874	0.0038
U3	LTDKN	LAG2	8	5.64409	0.69341	<.0001	-1.4388	0.79617	0.1137	0.3181
U3	LTDKN	LAG3	7	5.29381	0.42174	<.0001	-1.0934	0.49581	0.0696	0.4477
U3	LTDKN	LAG4	9	3.89179	0.61414	0.0002	0.71705	0.74098	0.3615	0.1048
U3	LTDKN	LAG5	8	4.13972	0.87104	0.0021	0.33741	0.94656	0.732	0.0178
U3	LTDKN	LAG6	7	6.45028	2.62811	0.0495	-1.922	2.58673	0.4855	0.0843
U3	LTDPO4	LAG0	6	2.14639	2.1727	0.3686	-0.4242	0.41765	0.3564	0.171
U3	LTDPO4	LAG1	4	1.94581	13.099	0.8913	-0.4829	2.42653	0.855	0.013
U3	LTDPO4	LAG2	5	4.58336	5.94429	0.4837	0.06469	1.17002	0.9586	0.0008
U3	LTDPO4	LAG3	6	2.60429	1.50506	0.1441	-0.3928	0.30362	0.2523	0.2508
U3	LTDPO4	LAG4	5	7.54116	2.09518	0.0228	0.63377	0.39921	0.1876	0.3865

U3	LTDP04	LAG5	6	4.68957	1.80905	0.0487	0.01753	0.3638	0.9634	0.0005
U3	LTDP04	LAG6	5	0.68567	4.00277	0.8723	-0.6984	0.76268	0.4116	0.1733
U3	LTDS04	LAG0	8	4.53759	0.32381	<.0001	0.05884	0.79875	0.9433	0.0008
U3	LTDS04	LAG1	8	4.76434	0.55208	<.0001	0.5727	0.81884	0.5069	0.0653
U3	LTDS04	LAG2	9	4.36447	0.19602	<.0001	-0.1503	0.24353	0.5543	0.0455
U3	LTDS04	LAG3	9	4.38786	0.25777	<.0001	-0.2324	0.56596	0.6921	0.0206
U3	LTDS04	LAG4	7	4.29016	0.8198	0.002	-0.2593	1.37274	0.8564	0.0059
U3	LTDS04	LAG5	9	4.48916	0.16742	<.0001	0.31676	0.19887	0.1499	0.2408
U3	LTDS04	LAG6	8	4.35159	0.24498	<.0001	-0.0282	0.4016	0.946	0.0007
U3	LTDSFE	LAG0	7	4.62765	1.43111	0.0178	-0.0589	0.58276	0.9228	0.0017
U3	LTDSFE	LAG1	7	3.92256	1.78722	0.0706	0.21914	0.75519	0.7814	0.0138
U3	LTDSFE	LAG2	5	5.17733	1.52366	0.0273	-0.2167	0.61447	0.7422	0.0302
U3	LTDSFE	LAG3	5	5.73324	2.61839	0.0937	-0.4802	1.09339	0.6832	0.046
U3	LTDSFE	LAG4	5	5.0917	2.19543	0.0812	-0.2298	0.94202	0.8193	0.0147
U3	LTDSFE	LAG5	6	1.68091	1.48475	0.3089	1.3188	0.66704	0.105	0.4388
U3	LTDSFE	LAG6	5	2.70893	3.20856	0.446	0.77277	1.41687	0.6145	0.0692
U3	LTDSZN	LAG0	7	4.77286	0.37982	<.0001	-0.4088	0.47129	0.419	0.1114
U3	LTDSZN	LAG1	6	4.96571	0.52736	0.0002	-0.7358	0.62098	0.2893	0.2192
U3	LTDSZN	LAG2	6	4.8193	0.54321	0.0003	-0.4578	0.6044	0.4829	0.103
U3	LTDSZN	LAG3	6	4.62562	0.42635	0.0001	-0.2373	0.45238	0.6224	0.0521
U3	LTDSZN	LAG4	6	4.78891	0.97039	0.0043	-0.3664	1.01057	0.7318	0.0256
U3	LTDSZN	LAG5	7	4.04315	0.24371	<.0001	0.30134	0.18534	0.1551	0.3058
U3	LTDSZN	LAG6	4	4.64457	0.49882	0.0026	-0.35	0.5103	0.542	0.1356
U3	LTKN	LAG0	7	1.09016	2.42155	0.6684	3.48872	2.47272	0.208	0.2491
U3	LTKN	LAG1	7	4.31572	0.88872	0.0028	0.20996	1.06728	0.8505	0.0064
U3	LTKN	LAG2	8	5.51819	0.92382	0.0006	-1.3355	1.11057	0.2682	0.1712
U3	LTKN	LAG3	8	5.42688	0.94235	0.0007	-1.0372	1.07302	0.3659	0.1178
U3	LTKN	LAG4	8	3.75738	0.68568	0.0009	0.83421	0.80142	0.3325	0.134
U3	LTKN	LAG5	8	3.54149	1.01335	0.0101	1.04461	1.15325	0.3952	0.1049
U3	LTKN	LAG6	8	10.1234	2.30492	0.0032	-5.9341	2.39079	0.0421	0.4681
U3	LTPO4	LAG0	8	2.70556	4.46914	0.564	-0.3482	0.91295	0.7142	0.0204
U3	LTPO4	LAG1	9	1.50014	5.5149	0.7925	-0.5876	1.12885	0.6168	0.0328
U3	LTPO4	LAG2	7	0.73588	4.82844	0.8839	-0.7583	0.96378	0.4614	0.0935
U3	LTPO4	LAG3	9	1.70075	2.95086	0.5802	-0.5731	0.61175	0.3763	0.0988
U3	LTPO4	LAG4	10	5.12722	1.86063	0.0223	0.15553	0.39587	0.7036	0.0169
U3	LTPO4	LAG5	8	3.08866	1.31894	0.0517	-0.2661	0.27143	0.3596	0.1207
U3	LTPO4	LAG6	9	3.53325	2.86763	0.2529	-0.1776	0.60264	0.7757	0.0107

UNIVARIATE LAG AVE 0-6
SURFACE WATER
MOSQUITOFISH THg vs Y
BY STATION

station	independ	month_lag	df	intercept	se_int	p value	slope	se_slope	p value	r_square
ent										
				intercept			slope			
F1	ALK	avg_0_1	5	24.7442	55.579	0.6792	-0.0345	0.1829	0.8596	0.0088
F1	ALK	avg_0_1_2	5	52.2637	54.87	0.39478	-0.1297	0.1856	0.5232	0.1088
F1	ALK	avg_0_1_2_3	4	53.8213	95.986	0.61414	-0.1227	0.3118	0.7203	0.0491
F1	ALK	avg_0_1_2_3_4	4	38.8567	83.533	0.6735	-0.073	0.2678	0.803	0.0241
F1	ALK	avg_0_1_2_3_4_5	4	46.7119	100.39	0.6734	-0.0975	0.32	0.7805	0.03
F1	ALK	avg_0_1_2_3_4_5_6	3	49.2168	130.56	0.74245	-0.1008	0.413	0.8299	0.0289
F1	CA	avg_0_1	5	23.0468	53.864	0.69077	-0.0971	0.5967	0.8786	0.0066
F1	CA	avg_0_1_2	5	50.2979	56.21	0.42146	-0.4112	0.6361	0.5533	0.0946
F1	CA	avg_0_1_2_3	4	65.9158	94.351	0.53508	-0.5427	1.0255	0.6333	0.0854
F1	CA	avg_0_1_2_3_4	4	46.2024	90.021	0.64319	-0.3293	0.984	0.7599	0.036
F1	CA	avg_0_1_2_3_4_5	4	52.3526	107.3	0.65905	-0.3963	1.1735	0.7578	0.0366
F1	CA	avg_0_1_2_3_4_5_6	3	45.0752	153.19	0.7963	-0.3005	1.6651	0.8734	0.016
F1	CL	avg_0_1	5	-40.911	50.165	0.46055	0.33955	0.304	0.3266	0.2378
F1	CL	avg_0_1_2	5	-6.9156	79.416	0.93479	0.13121	0.4855	0.8003	0.0179
F1	CL	avg_0_1_2_3	4	-135.41	133.47	0.38505	0.89905	0.789	0.3372	0.3021
F1	CL	avg_0_1_2_3_4	4	-159.5	189.45	0.46165	1.02097	1.0987	0.4213	0.2235
F1	CL	avg_0_1_2_3_4_5	4	-21.015	139.1	0.8895	0.21389	0.7946	0.8052	0.0236
F1	CL	avg_0_1_2_3_4_5_6	3	28.6504	145.92	0.86248	-0.0638	0.8352	0.946	0.0029
F1	DOC	avg_0_1	7	-36.111	72.874	0.63786	1.10873	1.6545	0.5277	0.0696
F1	DOC	avg_0_1_2	7	43.545	84.302	0.62396	-0.7061	1.9138	0.7248	0.0222
F1	DOC	avg_0_1_2_3	6	-20.523	79.183	0.80582	0.77547	1.79	0.6829	0.0362
F1	DOC	avg_0_1_2_3_4	6	-8.8908	81.976	0.91785	0.50227	1.8208	0.7937	0.015
F1	DOC	avg_0_1_2_3_4_5	6	-10.179	83.547	0.90777	0.52291	1.8276	0.7863	0.0161
F1	DOC	avg_0_1_2_3_4_5_6	5	-3.3901	93.85	0.97292	0.3851	2.0668	0.8613	0.0086
F1	K	avg_0_1	5	87.0231	43.844	0.11815	-10.169	6.0607	0.1687	0.4131
F1	K	avg_0_1_2	5	79.6703	52.024	0.20043	-9.5221	7.5061	0.2734	0.2869
F1	K	avg_0_1_2_3	4	82.1638	54.089	0.22606	-9.3565	7.5732	0.3046	0.3372
F1	K	avg_0_1_2_3_4	4	71.0575	64.687	0.35225	-7.6206	8.8933	0.4545	0.1966
F1	K	avg_0_1_2_3_4_5	4	53.2179	71.044	0.50819	-5.1009	9.7042	0.6355	0.0843
F1	K	avg_0_1_2_3_4_5_6	3	67.0616	94.58	0.5518	-6.641	12.542	0.6494	0.123
F1	MG	avg_0_1	5	18.5719	49.498	0.72655	-0.1402	1.6374	0.9359	0.0018
F1	MG	avg_0_1_2	5	39.8882	55.047	0.5088	-0.8793	1.8745	0.6634	0.0521
F1	MG	avg_0_1_2_3	4	34.5073	95.766	0.74248	-0.5964	3.1168	0.8605	0.0121
F1	MG	avg_0_1_2_3_4	4	17.6655	94.94	0.86426	-0.0446	3.096	0.9894	0.0001
F1	MG	avg_0_1_2_3_4_5	4	18.5375	118.35	0.88548	-0.073	3.8567	0.9861	0.0001
F1	MG	avg_0_1_2_3_4_5_6	3	14.8372	156.71	0.9332	0.08889	5.0914	0.9877	0.0002
F1	NA	avg_0_1	5	-26.174	54.946	0.65867	0.36059	0.4822	0.4962	0.1226
F1	NA	avg_0_1_2	5	6.4689	73.734	0.93431	0.07213	0.6649	0.9188	0.0029
F1	NA	avg_0_1_2_3	4	-90.605	129.75	0.53525	0.93374	1.1297	0.4691	0.1855
F1	NA	avg_0_1_2_3_4	4	-105.56	168.24	0.57489	1.04089	1.4342	0.5205	0.1493
F1	NA	avg_0_1_2_3_4_5	4	-24.454	156.43	0.8857	0.34486	1.3201	0.8108	0.0222
F1	NA	avg_0_1_2_3_4_5_6	3	33.2561	177.71	0.86882	-0.1331	1.501	0.9374	0.0039
F1	NH4	avg_0_1	7	18.9514	14.977	0.25267	-115.62	242.97	0.651	0.0364
F1	NH4	avg_0_1_2	6	29.4542	21.868	0.23583	-297.84	381.21	0.47	0.1088

F1	NH4	avg_0_1_2_3	5	23.3551	25.562	0.41258	-152.54	424.23	0.7374	0.0313
F1	NH4	avg_0_1_2_3_4	4	42.9883	33.954	0.29487	-400.18	474.96	0.4613	0.1914
F1	NH4	avg_0_1_2_3_4_5	4	40.7626	29.493	0.26087	-351.77	389.09	0.4326	0.2141
F1	NH4	avg_0_1_2_3_4_5_6	3	30.0258	24.944	0.35184	-132.05	205.38	0.5861	0.1713
F1	NOX	avg_0_1	2	6.97453	4.5982	0.37107	6.46696	96.857	0.9576	0.0044
F1	OPO4	avg_0_1	8	12.1505	13.081	0.38388	143.115	294.89	0.6423	0.0326
F1	OPO4	avg_0_1_2	5	0.37944	19.047	0.98506	316.991	385.89	0.4575	0.1443
F1	OPO4	avg_0_1_2_3	5	-5.0746	26.349	0.85666	402.611	517.93	0.4804	0.1312
F1	OPO4	avg_0_1_2_3_4	5	-34.105	29.333	0.3096	1005.66	591.33	0.1642	0.4196
F1	OPO4	avg_0_1_2_3_4_5	5	14.6444	48.059	0.77578	-9.181	845.14	0.9919	0
F1	OPO4	avg_0_1_2_3_4_5_6	4	11.7416	36.399	0.76819	66.3678	547.71	0.9112	0.0049
F1	SIO2	avg_0_1	4	-122.67	269.29	0.67969	6.19	11.959	0.6405	0.082
F1	SIO2	avg_0_1_2	4	283.938	70.84	0.02786	-12.376	3.2725	0.0324	0.8266
F1	SIO2	avg_0_1_2_3	3	439.764	156.03	0.10621	-19.377	7.1877	0.1145	0.7842
F1	SIO2	avg_0_1_2_3_4	3	196.089	153.97	0.33083	-8.0803	7.0279	0.3692	0.3979
F1	SIO2	avg_0_1_2_3_4_5	3	100.289	165.35	0.60585	-3.7706	7.6939	0.6726	0.1072
F1	SIO2	avg_0_1_2_3_4_5_6	2	81.304	212.52	0.76739	-2.7302	9.776	0.8266	0.0724
F1	SO4	avg_0_1	5	18.7634	22.95	0.45949	-0.0831	0.4018	0.8462	0.0106
F1	SO4	avg_0_1_2	5	19.632	28.254	0.5254	-0.1054	0.5396	0.8546	0.0095
F1	SO4	avg_0_1_2_3	4	34.2851	42.959	0.48315	-0.3376	0.7802	0.6944	0.0588
F1	SO4	avg_0_1_2_3_4	4	25.812	57.489	0.68389	-0.1887	1.1196	0.8769	0.0094
F1	SO4	avg_0_1_2_3_4_5	4	19.5792	68.337	0.79314	-0.067	1.3812	0.9643	0.0008
F1	SO4	avg_0_1_2_3_4_5_6	3	3.19686	104.42	0.97836	0.28624	2.0588	0.9022	0.0096
F1	TDKN	avg_0_1	6	50.8935	59.921	0.43446	-13.499	21.019	0.549	0.0762
F1	TDKN	avg_0_1_2	6	98.8091	63.706	0.1816	-31.12	22.901	0.2323	0.2697
F1	TDKN	avg_0_1_2_3	4	-14.095	2.3171	0.00892	7.12364	0.8235	0.0033	0.9615
F1	TDKN	avg_0_1_2_3_4	4	-15.72	8.6696	0.16745	7.62594	3.0578	0.0882	0.6746
F1	TDKN	avg_0_1_2_3_4_5	3	-3.0083	27.405	0.92261	3.20487	9.3016	0.7633	0.056
F1	TDKN	avg_0_1_2_3_4_5_6	3	8.59492	22.974	0.74426	-0.7384	7.7786	0.933	0.0045
F1	TDPO4	avg_0_1	5	50.8879	45.564	0.32662	-1302.9	1598.8	0.4609	0.1424
F1	TDPO4	avg_0_1_2	4	9.92179	6.0549	0.19981	-116.72	188.51	0.5797	0.1133
F1	TDPO4	avg_0_1_2_3	3	7.35658	7.2021	0.41448	-21.46	204.98	0.9262	0.0055
F1	TDPO4	avg_0_1_2_3_4	2	12.1039	2.4448	0.12688	-73.832	36.128	0.2897	0.8068
F1	TDPO4	avg_0_1_2_3_4_5	2	11.0675	2.6688	0.15064	-49.165	32.661	0.3733	0.6938
F1	TDSCU	avg_0_1	4	-5.9829	27.788	0.84333	20.063	23.034	0.4478	0.2018
F1	TDSCU	avg_0_1_2	4	-6.8726	32.388	0.84555	23.2481	30.431	0.5005	0.1629
F1	TDSCU	avg_0_1_2_3	3	-76.401	65.321	0.36268	95.6964	64.384	0.2755	0.5249
F1	TDSCU	avg_0_1_2_3_4	2	-171.94	321.24	0.68714	186.852	306.19	0.6512	0.2714
F1	TDSCU	avg_0_1_2_3_4_5	2	-29.288	245.02	0.92426	53.1597	244.59	0.8638	0.0451
F1	TDSFE	avg_0_1	5	22.965	25.066	0.41141	-0.6824	1.8649	0.733	0.0324
F1	TDSFE	avg_0_1_2	5	25.3119	23.605	0.34397	-0.8101	1.6245	0.6442	0.0585
F1	TDSFE	avg_0_1_2_3	4	31.0872	41.515	0.50833	-1.2337	3.3409	0.7365	0.0435
F1	TDSFE	avg_0_1_2_3_4	4	27.8421	44.431	0.57534	-0.9862	3.6775	0.806	0.0234
F1	TDSFE	avg_0_1_2_3_4_5	4	9.91435	39.209	0.81671	0.51715	3.0388	0.8757	0.0096
F1	TDSFE	avg_0_1_2_3_4_5_6	3	-88.718	21.984	0.05627	9.47397	1.9232	0.0388	0.9239
F1	TDSZN	avg_0_1	4	-12.849	18.728	0.54191	8.24107	4.8354	0.1869	0.4919
F1	TDSZN	avg_0_1_2	2	-39.242	77.326	0.70103	15.5326	18.728	0.5592	0.4075
F1	TDSZN	avg_0_1_2_3	2	16.9019	87.121	0.87801	1.52259	20.232	0.9522	0.0056
F1	TDSZN	avg_0_1_2_3_4	2	8.29532	82.462	0.93617	3.83026	20.356	0.8816	0.0342
F1	TKN	avg_0_1	7	48.9314	72.181	0.5231	-12.855	25.391	0.6307	0.041
F1	TKN	avg_0_1_2	6	133.876	89.861	0.19646	-42.588	31.738	0.2374	0.2648
F1	TKN	avg_0_1_2_3	5	-11.882	113.02	0.92133	9.5124	39.765	0.8227	0.0141

F1	TKN	avg_0_1_2_3_4	5	-27.801	142.59	0.85491	15.1309	50.225	0.7782	0.0222
F1	TKN	avg_0_1_2_3_4_5	5	-6.0205	233.93	0.9807	7.37846	81.779	0.9324	0.002
F1	TKN	avg_0_1_2_3_4_5_6	4	-65.263	436.45	0.89062	28.6669	154.25	0.8644	0.0114
F1	TPO4	avg_0_1	9	5.01368	15.105	0.74848	154.776	191.59	0.4425	0.0754
F1	TPO4	avg_0_1_2	7	1.73558	23.162	0.94271	228.734	290.36	0.4608	0.0937
F1	TPO4	avg_0_1_2_3	7	10.6658	22.085	0.64625	109.822	276.62	0.7051	0.0256
F1	TPO4	avg_0_1_2_3_4	7	20.0826	26.513	0.47745	-16.98	306.46	0.9576	0.0005
F1	TPO4	avg_0_1_2_3_4_5	6	43.0559	29.073	0.1987	-257.44	302.73	0.4339	0.1264
F1	TPO4	avg_0_1_2_3_4_5_6	5	35.0215	28.535	0.28699	-140.53	284.01	0.6467	0.0577

station	independent	month_lag	df	intercept	se_int	p value	slope	se_slope	p value	r_square	
						intercept	slope				
F2	ALK	avg_0_1	7	-11.1232	63.363	0.866425	0.1259	0.21638	0.582	0.0534	
F2	ALK	avg_0_1_2	7	24.1864	78.362	0.768023	0.0034	0.28065	0.9906	0	
F2	ALK	avg_0_1_2_3	7	47.2769	81.903	0.584778	-0.08	0.29322	0.794	0.0123	
F2	ALK	avg_0_1_2_3_4	7	14.0426	94.779	0.887069	0.0405	0.34368	0.91	0.0023	
F2	ALK	avg_0_1_2_3_4_5	6	4.12549	107.87	0.970974	0.0857	0.38847	0.8342	0.0096	
F2	ALK	avg_0_1_2_3_4_5_6	6	-10.9736	119.5	0.930397	0.1393	0.42735	0.7577	0.0208	
F2	CA	avg_0_1	7	7.76965	85.929	0.930897	0.206	1.00993	0.8451	0.0069	
F2	CA	avg_0_1_2	7	68.2689	87.611	0.46546	-0.531	1.06951	0.6372	0.0395	
F2	CA	avg_0_1_2_3	7	59.259	101.9	0.582061	-0.417	1.23758	0.7476	0.0186	
F2	CA	avg_0_1_2_3_4	7	-7.93383	125.04	0.951469	0.4074	1.53384	0.7994	0.0116	
F2	CA	avg_0_1_2_3_4_5	6	-7.23683	130.18	0.95782	0.4284	1.58645	0.7979	0.0144	
F2	CA	avg_0_1_2_3_4_5_6	6	-39.747	145.61	0.795789	0.816	1.75375	0.6613	0.0415	
F2	CL	avg_0_1	7	-4.50879	79.427	0.956574	0.1952	0.51747	0.719	0.0232	
F2	CL	avg_0_1_2	7	64.965	84.551	0.471425	-0.267	0.56163	0.6513	0.0363	
F2	CL	avg_0_1_2_3	7	64.9422	124.34	0.620165	-0.265	0.82361	0.7587	0.0169	
F2	CL	avg_0_1_2_3_4	7	-23.0794	135.06	0.869934	0.328	0.91544	0.7324	0.0209	
F2	CL	avg_0_1_2_3_4_5	6	-94.5396	173.36	0.608965	0.8323	1.17699	0.511	0.0909	
F2	CL	avg_0_1_2_3_4_5_6	6	-56.2091	309.29	0.862929	0.5642	2.07704	0.7967	0.0145	
F2	DOC	avg_0_1	7	-17.109	97.815	0.866901	0.9726	2.23637	0.6788	0.0306	
F2	DOC	avg_0_1_2	7	92.5088	118.02	0.462943	-1.587	2.76683	0.5871	0.052	
F2	DOC	avg_0_1_2_3	7	80.649	146.64	0.602189	-1.314	3.46009	0.7172	0.0235	
F2	DOC	avg_0_1_2_3_4	7	50.8603	187.38	0.79516	-0.621	4.51469	0.8951	0.0031	
F2	DOC	avg_0_1_2_3_4_5	6	-73.3444	301.69	0.817577	2.4012	7.16008	0.751	0.022	
F2	DOC	avg_0_1_2_3_4_5_6	6	-339.88	393.99	0.427758	8.7146	9.3355	0.3934	0.1484	
F2	K	avg_0_1	7	49.0439	74.195	0.533147	-3.403	10.4324	0.7554	0.0174	
F2	K	avg_0_1_2	7	130.884	64.189	0.08756	-14.89	8.93344	0.1467	0.3163	
F2	K	avg_0_1_2_3	7	202.429	78.664	0.042146	-25.08	11.0603	0.0639	0.4614	
F2	K	avg_0_1_2_3_4	7	152.029	137.23	0.31036	-18.12	19.5366	0.3894	0.1254	
F2	K	avg_0_1_2_3_4_5	6	81.3971	201.25	0.702599	-7.674	28.7193	0.8	0.0141	
F2	K	avg_0_1_2_3_4_5_6	6	13.5786	169.91	0.939403	1.9896	23.8064	0.9366	0.0014	
F2	MG	avg_0_1	7	26.7871	65.673	0.697512	-0.059	2.30891	0.9805	0.0001	
F2	MG	avg_0_1_2	7	70.7646	70.123	0.351851	-1.7	2.57834	0.5342	0.0675	
F2	MG	avg_0_1_2_3	7	70.1478	97.543	0.49909	-1.67	3.5945	0.6586	0.0347	
F2	MG	avg_0_1_2_3_4	7	-7.7669	122.26	0.951411	1.234	4.56458	0.796	0.012	
F2	MG	avg_0_1_2_3_4_5	6	-42.2114	132.6	0.763089	2.6049	4.91466	0.6188	0.0532	
F2	MG	avg_0_1_2_3_4_5_6	6	-116.882	173.74	0.53094	5.2938	6.34354	0.442	0.1223	
F2	NA	avg_0_1	7	5.22673	75.715	0.947208	0.1917	0.72044	0.7991	0.0117	
F2	NA	avg_0_1_2	7	68.575	79.731	0.422773	-0.427	0.77527	0.6019	0.0481	
F2	NA	avg_0_1_2_3	7	77.0101	123.08	0.554542	-0.505	1.19381	0.6868	0.029	
F2	NA	avg_0_1_2_3_4	7	-13.6706	146.22	0.928555	0.3863	1.45083	0.799	0.0117	
F2	NA	avg_0_1_2_3_4_5	6	-84.0446	172.28	0.646298	1.1204	1.72202	0.544	0.0781	
F2	NA	avg_0_1_2_3_4_5_6	6	-50.6183	302.5	0.873665	0.771	2.97385	0.8058	0.0133	
F2	NH4	avg_0_1	7	13.38	13.643	0.364606	129.29	98.8937	0.2389	0.2217	
F2	NH4	avg_0_1_2	7	13.0716	16.943	0.469698	147.22	158.536	0.3889	0.1257	
F2	NH4	avg_0_1_2_3	7	19.1477	18.737	0.34624	74.321	183.795	0.7	0.0265	
F2	NH4	avg_0_1_2_3_4	7	19.208	19.761	0.368589	84.196	228.196	0.7248	0.0222	
F2	NH4	avg_0_1_2_3_4_5	6	23.563	27.002	0.422786	56.189	317.389	0.8664	0.0062	
F2	NH4	avg_0_1_2_3_4_5_6	6	24.5522	29.007	0.435945	42.206	342.464	0.9067	0.003	

F2	NOX	avg_0_1	2	9.12473	5.0483	0.32171	-75.66	172.784	0.7373	0.1609
F2	NOX	avg_0_1_2	0	6.6			0			
F2	OPO4	avg_0_1	3	-14.2068	2.1693	0.022531	769.13	34.3654	0.002	0.996
F2	OPO4	avg_0_1_2	3	-18.8264	41.891	0.697141	776.96	707.402	0.3866	0.3762
F2	OPO4	avg_0_1_2_3	3	-22.0803	51.506	0.7099	900.48	960.773	0.4476	0.3052
F2	OPO4	avg_0_1_2_3_4	3	-35.2223	43.973	0.507168	1285.3	907.443	0.2924	0.5008
F2	OPO4	avg_0_1_2_3_4_5	3	-37.6694	58.101	0.583261	1433.1	1308.93	0.3878	0.3748
F2	OPO4	avg_0_1_2_3_4_5_6	2	-64.2948	132.56	0.71251	1933.9	2704.62	0.6048	0.3383
F2	SIO2	avg_0_1	6	82.9566	49.917	0.157426	-2.86	2.53248	0.31	0.2033
F2	SIO2	avg_0_1_2	6	96.6565	40.607	0.063142	-3.858	2.21185	0.1415	0.3783
F2	SIO2	avg_0_1_2_3	6	141.517	53.05	0.044476	-6.401	2.94816	0.082	0.4853
F2	SIO2	avg_0_1_2_3_4	6	180.938	86.498	0.090689	-8.495	4.77547	0.1354	0.3876
F2	SIO2	avg_0_1_2_3_4_5	5	193.661	178.51	0.338993	-8.949	9.83328	0.4142	0.1716
F2	SIO2	avg_0_1_2_3_4_5_6	5	238.237	263.85	0.41763	-11.19	14.2678	0.4769	0.1332
F2	SO4	avg_0_1	7	31.5773	33.303	0.379644	-0.14	0.67965	0.8434	0.007
F2	SO4	avg_0_1_2	7	46.474	33.994	0.220596	-0.482	0.72448	0.5308	0.0686
F2	SO4	avg_0_1_2_3	7	61.4579	49.505	0.26077	-0.821	1.09019	0.48	0.0863
F2	SO4	avg_0_1_2_3_4	7	17.8176	61.105	0.780419	0.1608	1.31776	0.9069	0.0025
F2	SO4	avg_0_1_2_3_4_5	6	-8.56164	68.962	0.906033	0.7842	1.46382	0.6151	0.0543
F2	SO4	avg_0_1_2_3_4_5_6	6	-31.4701	76.098	0.696345	1.251	1.58622	0.466	0.1106
F2	TDKN	avg_0_1	4	109.768	79.858	0.262954	-33.63	30.3706	0.349	0.2901
F2	TDKN	avg_0_1_2	4	205.349	63.767	0.048574	-73.4	25.4083	0.0631	0.7356
F2	TDKN	avg_0_1_2_3	2	-45.4143	11.509	0.158009	19.857	4.45384	0.1405	0.9521
F2	TDKN	avg_0_1_2_3_4	2	-4.23269	23.255	0.885383	4.1346	9.49297	0.7385	0.1595
F2	TDPO4	avg_0_1	6	7.55155	15.293	0.642372	324.31	196.51	0.1598	0.3526
F2	TDPO4	avg_0_1_2	5	-5.70313	18.328	0.77121	365.16	233.157	0.1924	0.3801
F2	TDPO4	avg_0_1_2_3	4	-10.8769	29.707	0.738562	433.05	377.476	0.3345	0.3049
F2	TDPO4	avg_0_1_2_3_4	4	-17.5329	28.544	0.582497	577.15	400.259	0.245	0.4094
F2	TDPO4	avg_0_1_2_3_4_5	2	-77.0813	145.39	0.689651	1333.6	1805.33	0.595	0.353
F2	TDPO4	avg_0_1_2_3_4_5_6	2	-65.8201	153.02	0.741391	1221.5	1948.31	0.6435	0.2822
F2	TDSCU	avg_0_1	5	37.9846	27.312	0.236674	-6.396	23.4036	0.7982	0.0183
F2	TDSCU	avg_0_1_2	4	32.72	30.787	0.365847	-9.581	26.2597	0.7394	0.0425
F2	TDSCU	avg_0_1_2_3	4	51.9403	39.251	0.277558	-26.35	33.4029	0.4878	0.1718
F2	TDSCU	avg_0_1_2_3_4	3	95.2	38.65	0.132776	-60.83	33.6097	0.212	0.6209
F2	TDSCU	avg_0_1_2_3_4_5	2	107.851	27.184	0.157187	-68.38	24.3032	0.2174	0.8878
F2	TDSCU	avg_0_1_2_3_4_5_6	2	327.784	226.02	0.38431	-255.1	196.525	0.4178	0.6276
F2	TDSFE	avg_0_1	3	67.1125	65.9	0.415635	-3.979	5.99152	0.575	0.1807
F2	TDSFE	avg_0_1_2	2	69.6733	100.89	0.615229	-3.985	10.5266	0.7696	0.1254
F2	TDSFE	avg_0_1_2_3	2	66.9719	98.113	0.618694	-3.705	10.2441	0.7791	0.1157
F2	TDSZN	avg_0_1	4	2.60212	44.737	0.957275	5.8294	12.067	0.6621	0.0722
F2	TDSZN	avg_0_1_2	3	-65.9778	78.842	0.490747	21.705	18.9109	0.3698	0.3971
F2	TDSZN	avg_0_1_2_3	3	-128.327	76.182	0.234127	40.366	20.1228	0.1827	0.668
F2	TDSZN	avg_0_1_2_3_4	2	-501.748	38	0.048123	139.01	9.94419	0.0455	0.9949
F2	TKN	avg_0_1	5	1.32237	81.552	0.987839	10.908	28.0024	0.7167	0.0365
F2	TKN	avg_0_1_2	5	55.2972	103.14	0.620276	-8.641	38.8549	0.8349	0.0122
F2	TKN	avg_0_1_2_3	4	-63.2063	202.83	0.775733	39.579	79.2827	0.6519	0.0767
F2	TKN	avg_0_1_2_3_4	3	68.1905	431.06	0.888835	-10.52	165.881	0.9552	0.002
F2	TKN	avg_0_1_2_3_4_5	3	21.5834	314.57	0.951541	7.4654	121.253	0.9565	0.0019
F2	TKN	avg_0_1_2_3_4_5_6	3	31.8125	291.95	0.923178	3.4714	111.182	0.9779	0.0005
F2	TPO4	avg_0_1	6	1.60813	17.549	0.930546	374.22	219.447	0.1489	0.3677
F2	TPO4	avg_0_1_2	6	13.3197	24.557	0.61084	179.62	314.262	0.5924	0.0613
F2	TPO4	avg_0_1_2_3	5	23.6902	37.734	0.564185	55.356	493.552	0.9161	0.0031

F2	TPO4	avg_0_1_2_3_4	5	17.7985	38.188	0.665414	149.43	533.249	0.7932	0.0193
F2	TPO4	avg_0_1_2_3_4_5	5	25.2996	43.202	0.589587	35.13	634.972	0.9585	0.0008
F2	TPO4	avg_0_1_2_3_4_5_6	4	-27.7129	44.314	0.576068	679.62	608.591	0.3455	0.2936

station	independent	month	df	intercept	se_int	p value	slope	se_slope	p value	r_square
		lag				intercept			slope	
F4	ALK	avg_0_1	7	-155.83	119.54	0.24016	0.7487	0.47401	0.1653	0.2937
F4	ALK	avg_0_1_2	7	-12.855	110.1	0.91086	0.1856	0.44819	0.6933	0.0278
F4	ALK	avg_0_1_2_3	6	86.3704	141.3	0.56774	-0.209	0.57835	0.7329	0.0254
F4	ALK	avg_0_1_2_3_4	5	-67.158	149.54	0.67663	0.393	0.60899	0.5539	0.0943
F4	ALK	avg_0_1_2_3_4_5	4	-217.09	149	0.24116	1.0218	0.61264	0.1939	0.4811
F4	ALK	avg_0_1_2_3_4_5_6	3	-527.19	152.55	0.07449	2.2696	0.61778	0.0668	0.8709
F4	CA	avg_0_1	7	34.8215	78.627	0.67338	-0.028	0.97842	0.9778	0.0001
F4	CA	avg_0_1_2	7	68.4097	72.679	0.38291	-0.463	0.93009	0.6366	0.0396
F4	CA	avg_0_1_2_3	6	70.0157	95.592	0.49677	-0.45	1.23915	0.7314	0.0257
F4	CA	avg_0_1_2_3_4	5	-72.047	107.13	0.53812	1.3113	1.38347	0.3969	0.1834
F4	CA	avg_0_1_2_3_4_5	4	-169.52	96.829	0.1783	2.6494	1.27539	0.1293	0.5899
F4	CA	avg_0_1_2_3_4_5_6	3	-323.13	128.24	0.12796	4.6381	1.66825	0.1087	0.7944
F4	CL	avg_0_1	7	-44.988	58.24	0.46916	0.5587	0.41518	0.2271	0.2318
F4	CL	avg_0_1_2	7	-8.1233	65.262	0.90501	0.3035	0.48194	0.5521	0.062
F4	CL	avg_0_1_2_3	6	1.37469	80.13	0.98698	0.2509	0.58407	0.6853	0.0356
F4	CL	avg_0_1_2_3_4	5	-49.244	62.024	0.47167	0.5831	0.4573	0.2713	0.289
F4	CL	avg_0_1_2_3_4_5	4	-78.898	77.782	0.38511	0.8278	0.58176	0.2499	0.4029
F4	CL	avg_0_1_2_3_4_5_6	3	-139.92	210.93	0.57534	1.238	1.5084	0.498	0.252
F4	DOC	avg_0_1	7	42.8156	61.11	0.50978	-0.273	1.60689	0.8707	0.0048
F4	DOC	avg_0_1_2	7	63.7634	67.976	0.38444	-0.836	1.80326	0.6593	0.0346
F4	DOC	avg_0_1_2_3	6	34.7743	80.808	0.68487	0.0201	2.18633	0.993	0
F4	DOC	avg_0_1_2_3_4	5	-58.3	76.765	0.48987	2.3616	2.06057	0.3157	0.2472
F4	DOC	avg_0_1_2_3_4_5	4	-120.25	86.529	0.25878	4.0587	2.31106	0.1773	0.5069
F4	DOC	avg_0_1_2_3_4_5_6	3	-85.095	104.68	0.50164	3.1841	2.80618	0.3742	0.3916
F4	K	avg_0_1	7	15.0508	50.339	0.77504	2.4755	6.98974	0.7353	0.0205
F4	K	avg_0_1_2	7	40.8779	55.502	0.4892	-1.202	7.89787	0.8841	0.0038
F4	K	avg_0_1_2_3	6	49.304	86.656	0.59399	-1.981	12.3542	0.8789	0.0051
F4	K	avg_0_1_2_3_4	5	-46.153	80.702	0.598	10.75	11.4524	0.401	0.1805
F4	K	avg_0_1_2_3_4_5	4	-99.318	95.282	0.37385	18.805	13.6827	0.263	0.3863
F4	K	avg_0_1_2_3_4_5_6	3	-161.18	175.76	0.45593	27.243	24.6169	0.3837	0.3798
F4	MG	avg_0_1	7	5.18252	56.733	0.93019	1.0387	2.12285	0.642	0.0384
F4	MG	avg_0_1_2	7	23.6411	58.366	0.69948	0.3529	2.27806	0.882	0.004
F4	MG	avg_0_1_2_3	6	20.5451	82.299	0.8128	0.5921	3.22887	0.8617	0.0067
F4	MG	avg_0_1_2_3_4	5	-68.27	78.055	0.43114	3.8581	3.07399	0.2778	0.2825
F4	MG	avg_0_1_2_3_4_5	4	-129.47	70.039	0.16167	6.4802	2.8136	0.1047	0.6388
F4	MG	avg_0_1_2_3_4_5_6	3	-315.65	91.291	0.07443	13.575	3.54955	0.0621	0.8797
F4	NA	avg_0_1	7	-36.524	58.969	0.55845	0.725	0.61225	0.2811	0.1895
F4	NA	avg_0_1_2	7	4.81995	64.329	0.94271	0.2988	0.6854	0.6781	0.0307
F4	NA	avg_0_1_2_3	6	18.9952	82.267	0.82654	0.1755	0.86693	0.8476	0.0081
F4	NA	avg_0_1_2_3_4	5	-54.336	69.332	0.47702	0.8919	0.73534	0.2919	0.2689
F4	NA	avg_0_1_2_3_4_5	4	-83.55	83.297	0.38975	1.2443	0.89915	0.2604	0.3896
F4	NA	avg_0_1_2_3_4_5_6	3	-186.14	254.13	0.54009	2.2663	2.62635	0.4791	0.2713
F4	NH4	avg_0_1	7	43.989	23.884	0.11509	-392.4	754.359	0.6216	0.0432
F4	NH4	avg_0_1_2	7	47.2586	28.23	0.14515	-516.5	936.101	0.601	0.0483
F4	NH4	avg_0_1_2_3	6	45.3331	38.258	0.2893	-341.6	1279.64	0.8002	0.0141
F4	NH4	avg_0_1_2_3_4	5	29.3328	36.718	0.46912	-6.246	1280.86	0.9963	0
F4	NH4	avg_0_1_2_3_4_5	4	37.0678	46.348	0.48231	-218.1	1611.83	0.9009	0.0061
F4	NH4	avg_0_1_2_3_4_5_6	3	35.4924	64.951	0.63957	-92.84	2194.97	0.9701	0.0009

F4	OPO4	avg_0_1	2	65.4183	39.158	0.34338	-3110	3343.45	0.523	0.464
F4	SIO2	avg_0_1	6	31.1064	50.671	0.56614	0.224	2.58631	0.9344	0.0015
F4	SIO2	avg_0_1_2	6	34.4905	54.686	0.55594	0.0503	2.97473	0.9872	0.0001
F4	SIO2	avg_0_1_2_3	5	22.392	71.873	0.77095	0.9601	4.02395	0.8231	0.014
F4	SIO2	avg_0_1_2_3_4	4	34.1094	69.782	0.65849	-0.096	3.99208	0.9823	0.0002
F4	SIO2	avg_0_1_2_3_4_5	3	15.8194	122.78	0.90927	1.1525	7.11094	0.8861	0.013
F4	SIO2	avg_0_1_2_3_4_5_6	2	-29.261	249.21	0.92559	3.9508	14.2568	0.8279	0.0713
F4	SO4	avg_0_1	7	12.6486	32.851	0.71349	0.3806	0.60245	0.5508	0.0624
F4	SO4	avg_0_1_2	7	24.2466	34.284	0.50595	0.1663	0.65868	0.8091	0.0105
F4	SO4	avg_0_1_2_3	6	-3.9582	46.064	0.93486	0.815	0.9292	0.4206	0.1333
F4	SO4	avg_0_1_2_3_4	5	-16.272	42.374	0.72051	0.9605	0.87791	0.3354	0.2303
F4	SO4	avg_0_1_2_3_4_5	4	-34.783	50.108	0.53751	1.3938	1.04275	0.2737	0.3733
F4	SO4	avg_0_1_2_3_4_5_6	3	-77.49	69.53	0.38104	2.3086	1.4381	0.2496	0.563
F4	TDKN	avg_0_1	6	-32.049	85.193	0.72221	29.309	38.2984	0.4787	0.1048
F4	TDKN	avg_0_1_2	5	-10.023	115.31	0.93491	21.618	53.735	0.708	0.0389
F4	TDKN	avg_0_1_2_3	3	32.92	171.98	0.86587	-0.622	84.4963	0.9948	0
F4	TDKN	avg_0_1_2_3_4	2	31.3577	47.072	0.62589	-6.774	23.2025	0.8192	0.0786
F4	TDPO4	avg_0_1	7	47.8423	18.355	0.04031	-1509	1584.17	0.3775	0.1314
F4	TDPO4	avg_0_1_2	7	40.6489	11.663	0.01306	-505.6	478.874	0.3317	0.1567
F4	TDPO4	avg_0_1_2_3	6	64.499	29.523	0.08063	-3247	3127.18	0.3468	0.1773
F4	TDPO4	avg_0_1_2_3_4	5	51.3172	30.685	0.16976	-2453	3247.59	0.4921	0.1248
F4	TDPO4	avg_0_1_2_3_4_5	4	37.7963	18.832	0.13839	-476.1	1045.88	0.6799	0.0646
F4	TDPO4	avg_0_1_2_3_4_5_6	3	64.7632	57.271	0.37549	-3695	6400.68	0.6221	0.1428
F4	TDSCU	avg_0_1	5	4.90976	36.41	0.89925	32.278	47.1661	0.5313	0.1048
F4	TDSCU	avg_0_1_2	5	35.4557	18.045	0.12088	-5.753	13.7452	0.6971	0.042
F4	TDSCU	avg_0_1_2_3	4	38.5881	24.717	0.21639	-5.806	20.8998	0.7992	0.0251
F4	TDSCU	avg_0_1_2_3_4	3	63.9007	34.519	0.20536	-25.25	29.7159	0.4849	0.2653
F4	TDSCU	avg_0_1_2_3_4_5	2	103.514	9.8269	0.06026	-44.68	6.78026	0.0959	0.9775
F4	TDSFE	avg_0_1	4	21.2939	121.94	0.87249	1.2277	16.9913	0.9469	0.0017
F4	TDSZN	avg_0_1	3	30.7788	22.563	0.30575	5.6967	6.06216	0.4466	0.3063
F4	TDSZN	avg_0_1_2	3	45.3901	39.348	0.36792	0.3925	9.67889	0.9713	0.0008
F4	TDSZN	avg_0_1_2_3	2	47.4242	42.381	0.46428	2.7122	11.7386	0.8554	0.0507
F4	TKN	avg_0_1	4	-39.546	87.011	0.68034	35.229	37.7383	0.4194	0.2251
F4	TKN	avg_0_1_2	3	60.5143	120.35	0.665	-13.15	56.1835	0.8367	0.0267
F4	TKN	avg_0_1_2_3	2	-283.33	105.95	0.22781	156.78	51.7649	0.203	0.9017
F4	TPO4	avg_0_1	7	48.6645	18.163	0.03657	-882.4	869.236	0.3492	0.1466
F4	TPO4	avg_0_1_2	6	44.0137	13.843	0.02455	-367	344.117	0.335	0.1853
F4	TPO4	avg_0_1_2_3	5	59.0193	30.051	0.121	-1339	1722.31	0.4802	0.1313
F4	TPO4	avg_0_1_2_3_4	5	33.9806	39.629	0.43952	203.45	2186.62	0.9303	0.0022
F4	TPO4	avg_0_1_2_3_4_5	3	46.5456	72.275	0.58557	-175.4	3675.95	0.9663	0.0011
F4	TPO4	avg_0_1_2_3_4_5_6	3	47.8534	80.251	0.61148	-256.6	4314.41	0.958	0.0018

station	independent	month	df	intercept	se_int	p value	slope	se_slope	p value	r_square
		lag		intercept			slope			
F5	ALK	avg_0_1	5	23.7093	57.49	0.70116	0.09321	0.23129	0.708	0.039
F5	ALK	avg_0_1_2	5	45.5959	55.35	0.45633	0.00365	0.2315	0.988	0.0001
F5	ALK	avg_0_1_2_3	4	33.0808	95.37	0.75159	0.05614	0.38921	0.894	0.0069
F5	ALK	avg_0_1_2_3_4	4	-35.083	107.8	0.76622	0.34595	0.4528	0.5	0.1629
F5	ALK	avg_0_1_2_3_4_5	3	-45.21	121	0.74453	0.41582	0.51732	0.506	0.2442
F5	ALK	avg_0_1_2_3_4_5_6	2	-211.36	89.21	0.25425	1.04963	0.3649	0.213	0.8922
F5	CA	avg_0_1	5	30.6556	58.62	0.62866	0.21231	0.77382	0.797	0.0185
F5	CA	avg_0_1_2	5	52.5227	54.46	0.38943	-0.08448	0.74179	0.915	0.0032
F5	CA	avg_0_1_2_3	4	47.4888	90.42	0.6358	-0.01099	1.22225	0.993	0
F5	CA	avg_0_1_2_3_4	4	-31.044	108.8	0.79402	1.08865	1.51331	0.524	0.1471
F5	CA	avg_0_1_2_3_4_5	3	-84.785	110.8	0.52426	1.94683	1.5748	0.342	0.4332
F5	CA	avg_0_1_2_3_4_5_6	2	-191.16	95.77	0.29568	3.26226	1.32134	0.245	0.8591
F5	CL	avg_0_1	5	35.301	62.42	0.60194	0.08124	0.44755	0.865	0.0082
F5	CL	avg_0_1_2	4	-17.186	93.65	0.86611	0.4174	0.66438	0.574	0.1163
F5	CL	avg_0_1_2_3	3	-319.37	100.9	0.08696	2.4461	0.68504	0.07	0.8644
F5	CL	avg_0_1_2_3_4	3	-145.48	117.7	0.34196	1.33829	0.84471	0.254	0.5565
F5	DOC	avg_0_1	5	16.5027	73.3	0.8329	0.76957	1.86241	0.701	0.0409
F5	DOC	avg_0_1_2	5	52.8082	87.18	0.57739	-0.16851	2.2922	0.945	0.0013
F5	DOC	avg_0_1_2_3	4	33.6582	151.8	0.83876	0.3442	3.99312	0.937	0.0025
F5	DOC	avg_0_1_2_3_4	4	-92.926	182.8	0.6462	3.77331	4.92766	0.5	0.1635
F5	DOC	avg_0_1_2_3_4_5	3	-152.98	232.8	0.57857	5.51284	6.2706	0.472	0.2787
F5	DOC	avg_0_1_2_3_4_5_6	2	-434.3	110.3	0.15831	12.5423	2.88735	0.144	0.9497
F5	K	avg_0_1	5	30.7603	56.09	0.61256	2.15393	7.54811	0.79	0.02
F5	K	avg_0_1_2	5	45.4873	59.73	0.48872	0.13566	8.25343	0.988	0.0001
F5	K	avg_0_1_2_3	4	18.8246	89.52	0.84692	3.82921	12.1543	0.773	0.032
F5	K	avg_0_1_2_3_4	4	-40.6	98.55	0.70804	12.4601	13.9542	0.438	0.21
F5	K	avg_0_1_2_3_4_5	3	-26.515	140.5	0.8677	10.999	19.734	0.633	0.1344
F5	K	avg_0_1_2_3_4_5_6	2	-274.73	72.61	0.16449	42.2964	9.60311	0.142	0.951
F5	MG	avg_0_1	5	49.5325	54.98	0.41858	-0.11926	2.084	0.957	0.0008
F5	MG	avg_0_1_2	5	67.2893	53.84	0.27949	-0.84744	2.14377	0.713	0.0376
F5	MG	avg_0_1_2_3	4	66.4405	96.94	0.54232	-0.77317	3.75429	0.85	0.0139
F5	MG	avg_0_1_2_3_4	4	-1.1232	121.9	0.99323	1.94536	4.92802	0.719	0.0494
F5	MG	avg_0_1_2_3_4_5	3	-11.452	138.4	0.94161	2.61473	5.73135	0.693	0.0943
F5	MG	avg_0_1_2_3_4_5_6	2	-334.76	31.6	0.05992	14.7884	1.23075	0.053	0.9931
F5	NA	avg_0_1	5	41.2354	62.52	0.54556	0.05642	0.66538	0.936	0.0018
F5	NA	avg_0_1_2	5	77.391	59.08	0.26039	-0.34371	0.64531	0.623	0.0662
F5	NA	avg_0_1_2_3	4	87.4037	93.89	0.42056	-0.43411	0.9903	0.691	0.0602
F5	NA	avg_0_1_2_3_4	4	52.9991	112.5	0.66974	-0.07003	1.23823	0.958	0.0011
F5	NA	avg_0_1_2_3_4_5	3	61.7927	130	0.6814	-0.1196	1.45723	0.942	0.0034
F5	NA	avg_0_1_2_3_4_5_6	2	-84.317	342.5	0.84632	1.35346	3.60072	0.771	0.1238
F5	NH4	avg_0_1	5	-84.006	106.2	0.47304	4045.21	3278.64	0.285	0.2757
F5	NH4	avg_0_1_2	5	-125.42	76.93	0.17836	5225.97	2328.17	0.088	0.5575
F5	NH4	avg_0_1_2_3	4	-120.85	83.81	0.24498	4884.51	2428.62	0.138	0.5742
F5	NH4	avg_0_1_2_3_4	4	-113.02	108	0.37225	4898.9	3296.71	0.234	0.424
F5	NH4	avg_0_1_2_3_4_5	3	60.3915	334.4	0.87333	-268.944	9797.34	0.981	0.0004
F5	NH4	avg_0_1_2_3_4_5_6	2	-274.48	515.5	0.6885	8884.62	14362.7	0.647	0.2768
F5	SIO2	avg_0_1	4	131.78	65.79	0.13892	-3.85774	3.19703	0.314	0.3268
F5	SIO2	avg_0_1_2	3	115.427	39.36	0.09926	-3.63376	2.08637	0.224	0.6027

F5	SIO2	avg_0_1_2_3	2	188.735	78.83	0.25189	-7.33872	4.11388	0.325	0.7609
F5	SIO2	avg_0_1_2_3_4	2	149.996	173.6	0.54635	-5.44381	9.32757	0.664	0.2541
F5	SO4	avg_0_1	5	51.245	35.17	0.21882	-0.0943	0.65628	0.893	0.0051
F5	SO4	avg_0_1_2	4	28.7148	46.08	0.57731	0.23363	0.83162	0.797	0.0256
F5	SO4	avg_0_1_2_3	3	-12.926	89.9	0.89885	0.99782	1.66427	0.61	0.1523
F5	SO4	avg_0_1_2_3_4	3	-99.062	63.83	0.26083	2.85681	1.29659	0.158	0.7082
F5	TDKN	avg_0_1	4	41.9146	100	0.7033	2.20563	41.7718	0.961	0.0009
F5	TDKN	avg_0_1_2	3	97.9478	127.9	0.52381	-22.5404	56.6604	0.729	0.0733
F5	TDKN	avg_0_1_2_3	2	158.637	295.1	0.68602	-53.5526	130.764	0.753	0.1436
F5	TDKN	avg_0_1_2_3_4	2	348.654	1106	0.80561	-144.2	513.553	0.826	0.0731
F5	TDPO4	avg_0_1	5	-9.0938	55.82	0.87848	7661.45	7575.1	0.369	0.2037
F5	TDPO4	avg_0_1_2	4	22.62	78.06	0.79085	4043.63	10270.8	0.72	0.0491
F5	TDPO4	avg_0_1_2_3	3	25.2545	124	0.8575	4254	17607.8	0.832	0.0284
F5	TDPO4	avg_0_1_2_3_4	3	12.3832	83.56	0.89578	5923.51	11457.8	0.657	0.1179
F5	TDPO4	avg_0_1_2_3_4_5	2	-28.375	168.4	0.89371	12031.6	21896.8	0.68	0.2319
F5	TDSCU	avg_0_1	4	78.4392	34.66	0.10864	-26.2416	34.4503	0.502	0.1621
F5	TDSCU	avg_0_1_2	4	30.9007	22.94	0.27067	18.2773	17.3781	0.37	0.2694
F5	TDSCU	avg_0_1_2_3	3	23.085	26.5	0.47556	25.0643	19.1372	0.321	0.4617
F5	TDSCU	avg_0_1_2_3_4	3	19.4404	29.74	0.58044	31.0753	24.3022	0.329	0.4498
F5	TDSCU	avg_0_1_2_3_4_5	2	35.1244	45.43	0.58099	23.7234	36.0752	0.63	0.3019
F5	TDSFE	avg_0_1	4	-8.1017	62.67	0.90532	6.44542	6.82845	0.415	0.229
F5	TDSFE	avg_0_1_2	3	26.3477	99.42	0.81581	2.92962	11.5218	0.823	0.0313
F5	TDSFE	avg_0_1_2_3	3	50.1906	125.2	0.72727	0.12134	14.534	0.994	0
F5	TDSFE	avg_0_1_2_3_4	3	41.1751	111.7	0.74772	1.14073	12.5118	0.936	0.0041
F5	TDSFE	avg_0_1_2_3_4_5	2	20.3554	191.1	0.93246	2.89176	23.0713	0.921	0.0155
F5	TDSFE	avg_0_1_2_3_4_5_6	2	-13.718	211.2	0.95871	7.02248	25.4763	0.829	0.0706
F5	TDSZN	avg_0_1	3	40.2388	52.66	0.52461	-0.00682	10.9079	1	0
F5	TDSZN	avg_0_1_2	2	31.673	119.9	0.8356	2.17247	33.4031	0.959	0.0042
F5	TDSZN	avg_0_1_2_3	2	-29.277	59.21	0.70764	18.1198	14.9884	0.44	0.5937
F5	TKN	avg_0_1	3	208.403	107.2	0.19146	-63.2457	44.0374	0.287	0.5077
F5	TKN	avg_0_1_2	3	166.815	70.72	0.14233	-48.4256	30.3664	0.252	0.5598
F5	TKN	avg_0_1_2_3	2	123.647	118.4	0.48622	-26.4708	52.1037	0.701	0.2052
F5	TPO4	avg_0_1	6	56.0882	57.99	0.37788	-1107.48	5375.33	0.845	0.0084
F5	TPO4	avg_0_1_2	5	-13.178	47.78	0.79636	4772.54	4253.78	0.325	0.2394
F5	TPO4	avg_0_1_2_3	5	-57.085	58.18	0.38202	8855.28	5285.51	0.169	0.4124
F5	TPO4	avg_0_1_2_3_4	5	-29.188	47.53	0.57234	6290.25	4288.03	0.216	0.3498
F5	TPO4	avg_0_1_2_3_4_5	4	-42.722	108.1	0.71918	7202.16	9489.48	0.503	0.1611
F5	TPO4	avg_0_1_2_3_4_5_6	4	-19.087	149.7	0.90658	5204.18	13388.4	0.723	0.0479

station	independent	month	df	intercept	se_int	p value	slope	se_slope	p value	r_square
		lag		intercept			slope			
U3	ALK	avg_0_1	8	44.4248	200.37	0.83086	0.2389	0.86707	0.7909	0.0107
U3	ALK	avg_0_1_2	8	101.483	189.65	0.60914	-0.01	0.8442	0.9905	0
U3	ALK	avg_0_1_2_3	7	157.829	325.05	0.64451	-0.229	1.43221	0.878	0.0043
U3	ALK	avg_0_1_2_3_4	7	-114.72	336.88	0.74505	0.9873	1.50191	0.5353	0.0672
U3	ALK	avg_0_1_2_3_4_5	6	-168.05	312.2	0.61348	1.2682	1.39366	0.4046	0.1421
U3	ALK	avg_0_1_2_3_4_5_6	5	-455.23	484.65	0.40076	2.4775	2.09441	0.3024	0.2592
U3	CA	avg_0_1	8	123.256	204.97	0.56658	-0.364	3.07127	0.909	0.002
U3	CA	avg_0_1_2	8	233.379	188.6	0.25583	-2.059	2.86706	0.4959	0.0686
U3	CA	avg_0_1_2_3	7	271.632	284.97	0.37729	-2.559	4.38037	0.5804	0.0538
U3	CA	avg_0_1_2_3_4	7	-22.292	379.23	0.95503	2.0122	5.93261	0.746	0.0188
U3	CA	avg_0_1_2_3_4_5	6	-378.8	388.89	0.37477	7.7997	6.12995	0.2592	0.2446
U3	CA	avg_0_1_2_3_4_5_6	5	-583.5	410.13	0.2279	10.858	6.34332	0.1621	0.4228
U3	CL	avg_0_1	8	16.3874	109.2	0.88494	0.603	0.77394	0.4615	0.0798
U3	CL	avg_0_1_2	8	23.7203	133.27	0.86378	0.5641	0.97782	0.5821	0.0454
U3	CL	avg_0_1_2_3	7	-22.445	209.33	0.91811	0.9471	1.52989	0.5587	0.06
U3	CL	avg_0_1_2_3_4	7	-94.936	186.65	0.62917	1.4976	1.37734	0.3186	0.1646
U3	CL	avg_0_1_2_3_4_5	6	-59.252	195.49	0.77402	1.2915	1.43407	0.4091	0.1396
U3	CL	avg_0_1_2_3_4_5_6	5	-160.86	379.19	0.69323	1.9693	2.67794	0.5029	0.1191
U3	DOC	avg_0_1	8	-45.963	153.84	0.77379	3.7694	3.94391	0.371	0.1154
U3	DOC	avg_0_1_2	8	8.57416	238.32	0.9723	2.3792	6.22193	0.7135	0.0205
U3	DOC	avg_0_1_2_3	7	-223.75	420.12	0.61346	8.6767	11.0319	0.4615	0.0935
U3	DOC	avg_0_1_2_3_4	7	-514.83	353	0.19499	16.478	9.34886	0.1284	0.3411
U3	DOC	avg_0_1_2_3_4_5	6	-571.19	347.78	0.16143	17.95	9.07904	0.105	0.4388
U3	DOC	avg_0_1_2_3_4_5_6	5	-797.94	523.13	0.20187	23.254	13.2793	0.1548	0.4339
U3	K	avg_0_1	8	-49.31	151.85	0.75488	20.923	21.1167	0.3548	0.123
U3	K	avg_0_1_2	8	-105.9	184.32	0.58359	29.845	26.5951	0.2988	0.1525
U3	K	avg_0_1_2_3	7	-151.97	194.35	0.46398	37.136	27.7413	0.2292	0.23
U3	K	avg_0_1_2_3_4	7	-317.61	179.28	0.12684	61.547	25.874	0.0549	0.4853
U3	K	avg_0_1_2_3_4_5	6	-517.63	221.45	0.06659	90.102	31.4274	0.0351	0.6218
U3	K	avg_0_1_2_3_4_5_6	5	-932.72	173.87	0.00583	143.64	23.7406	0.0038	0.9015
U3	MG	avg_0_1	8	20.6896	134.24	0.88186	3.058	5.13492	0.5702	0.0482
U3	MG	avg_0_1_2	8	59.3555	160.64	0.72268	1.6007	6.37376	0.8089	0.0089
U3	MG	avg_0_1_2_3	7	10.038	265.26	0.97104	3.7978	10.4401	0.7285	0.0216
U3	MG	avg_0_1_2_3_4	7	-127.27	234.33	0.60663	9.3734	9.35566	0.3551	0.1433
U3	MG	avg_0_1_2_3_4_5	6	-137.8	249.26	0.60419	10.07	9.87037	0.3544	0.1723
U3	MG	avg_0_1_2_3_4_5_6	5	-316.06	435.21	0.50792	16.46	16.5003	0.375	0.1992
U3	NA	avg_0_1	8	11.5407	117.61	0.92458	0.9286	1.2174	0.4705	0.0767
U3	NA	avg_0_1_2	8	42.1516	139.62	0.7715	0.6194	1.49048	0.6902	0.0241
U3	NA	avg_0_1_2_3	7	8.08082	221.02	0.97202	1.0486	2.34791	0.6708	0.0322
U3	NA	avg_0_1_2_3_4	7	-55.313	201.48	0.79288	1.7558	2.17298	0.4499	0.0981
U3	NA	avg_0_1_2_3_4_5	6	-34.191	220.59	0.88289	1.6127	2.36538	0.5257	0.0851
U3	NA	avg_0_1_2_3_4_5_6	5	-75.205	449.53	0.87525	1.9828	4.62788	0.6904	0.0439
U3	NH4	avg_0_1	8	-7.3503	122.58	0.95386	3153.3	3553.21	0.4043	0.1011
U3	NH4	avg_0_1_2	7	122.918	40.289	0.02249	-301.8	438.004	0.5165	0.0733
U3	NH4	avg_0_1_2_3	6	80.9395	138.55	0.58446	739.68	3234.69	0.8282	0.0104
U3	NH4	avg_0_1_2_3_4	5	84.037	121.25	0.52639	623.59	2329.01	0.8021	0.0176
U3	NH4	avg_0_1_2_3_4_5	4	141.444	99.603	0.25067	-169.6	1184.49	0.8952	0.0068
U3	NH4	avg_0_1_2_3_4_5_6	3	116.194	155.47	0.53276	322.51	2412.43	0.9059	0.0089

U3	OPO4	avg_0_1	3	195.196	124.96	0.25869	-18823	20992	0.4645	0.2867
U3	OPO4	avg_0_1_2	3	401.003	156.97	0.12511	-50623	25019.9	0.1804	0.6718
U3	OPO4	avg_0_1_2_3	3	266.691	52.358	0.03645	-28561	8094.13	0.0718	0.8616
U3	OPO4	avg_0_1_2_3_4	3	241.939	63.428	0.06237	-24972	9896.11	0.1277	0.761
U3	OPO4	avg_0_1_2_3_4_5	3	232.979	24.186	0.01061	-22186	3530.76	0.0244	0.9518
U3	OPO4	avg_0_1_2_3_4_5_6	3	208.666	38.119	0.03179	-18725	5581.09	0.0785	0.8491
U3	SIO2	avg_0_1	7	296.363	163.32	0.11951	-9.593	8.144	0.2834	0.1878
U3	SIO2	avg_0_1_2	7	366.947	178.51	0.08558	-14.06	9.53978	0.1911	0.2657
U3	SIO2	avg_0_1_2_3	6	286.011	202.91	0.21772	-9.425	11.0785	0.4338	0.1264
U3	SIO2	avg_0_1_2_3_4	6	270.584	247.98	0.32498	-8.718	13.812	0.5556	0.0738
U3	SIO2	avg_0_1_2_3_4_5	5	-28.001	354.62	0.94086	9.1162	20.7523	0.6831	0.046
U3	SIO2	avg_0_1_2_3_4_5_6	4	-209.15	464.58	0.68312	19.751	26.8059	0.5146	0.1532
U3	SO4	avg_0_1	8	103.674	94.09	0.30696	-0.088	1.76	0.9615	0.0004
U3	SO4	avg_0_1_2	8	153.256	98.577	0.16397	-1.058	1.862	0.5875	0.0441
U3	SO4	avg_0_1_2_3	7	91.9552	174.45	0.61703	0.2845	3.49316	0.9377	0.0011
U3	SO4	avg_0_1_2_3_4	7	-23.896	178.9	0.89811	2.7601	3.75642	0.4902	0.0826
U3	SO4	avg_0_1_2_3_4_5	6	-170.57	225.9	0.48421	5.9385	4.66571	0.2591	0.2447
U3	SO4	avg_0_1_2_3_4_5_6	5	-284.5	301.98	0.39949	8.1642	6.11027	0.2524	0.3086
U3	TDKN	avg_0_1	7	-13.75	184.34	0.94297	48.113	76.6412	0.5533	0.0616
U3	TDKN	avg_0_1_2	6	144.175	251.06	0.59066	-14.99	104.493	0.8916	0.0041
U3	TDKN	avg_0_1_2_3	4	291.636	509.76	0.60731	-90.28	225.417	0.7156	0.0508
U3	TDKN	avg_0_1_2_3_4	4	35.7473	334.48	0.92163	22.742	146.478	0.8865	0.008
U3	TDKN	avg_0_1_2_3_4_5	3	-742.53	287.6	0.12296	349.75	121.648	0.1027	0.8052
U3	TDKN	avg_0_1_2_3_4_5_6	2	-2757.6	2641.6	0.48633	1166.7	1079.24	0.4752	0.5389
U3	TDPO4	avg_0_1	2	193.23	38.8	0.12615	-18598	6858.92	0.2249	0.8803
U3	TDSCU	avg_0_1	7	64.3773	226.49	0.78578	64.166	342.804	0.8577	0.0058
U3	TDSCU	avg_0_1_2	7	134.296	52.087	0.04186	-27.95	44.1543	0.55	0.0626
U3	TDSCU	avg_0_1_2_3	6	156.59	64.407	0.05929	-42.55	58.5352	0.4999	0.0956
U3	TDSCU	avg_0_1_2_3_4	4	206.197	107.35	0.15052	-84.15	98.0497	0.4539	0.1971
U3	TDSCU	avg_0_1_2_3_4_5	3	48.6999	130.99	0.74575	77.738	102.814	0.5285	0.2223
U3	TDSFE	avg_0_1	6	70.1122	120.31	0.58536	3.8025	10.5752	0.7339	0.0252
U3	TDSFE	avg_0_1_2	5	-27.228	251.94	0.91914	13.783	22.8945	0.5796	0.0831
U3	TDSFE	avg_0_1_2_3	4	-243.87	786.7	0.77685	34.538	72.7929	0.6676	0.0698
U3	TDSFE	avg_0_1_2_3_4	4	206.12	416.66	0.65478	-7.107	38.0628	0.8638	0.0115
U3	TDSFE	avg_0_1_2_3_4_5	3	-669.69	698.68	0.43895	77.058	66.7255	0.3675	0.4001
U3	TDSFE	avg_0_1_2_3_4_5_6	3	-254.53	719.94	0.75747	37.122	68.3403	0.6414	0.1286
U3	TDSZN	avg_0_1	5	278.02	102.13	0.05286	-76.52	45.6922	0.1693	0.4122
U3	TDSZN	avg_0_1_2	4	258.366	118.1	0.1165	-59.99	48.1452	0.3012	0.341
U3	TDSZN	avg_0_1_2_3	2	290.672	338.72	0.54851	-65.89	143.029	0.7252	0.1751
U3	TDSZN	avg_0_1_2_3_4	2	640.298	449.33	0.38955	-210.2	186.828	0.4626	0.5586
U3	TKN	avg_0_1	6	66.3536	259.57	0.80842	19.447	102.466	0.8569	0.0072
U3	TKN	avg_0_1_2	6	167.522	306.72	0.60843	-21.52	125.623	0.8707	0.0058
U3	TKN	avg_0_1_2_3	5	3.77383	509.63	0.99445	51.544	212.59	0.8203	0.0145
U3	TKN	avg_0_1_2_3_4	4	395.697	1079.6	0.73831	-107.1	437.806	0.8226	0.0195
U3	TKN	avg_0_1_2_3_4_5	4	166.964	720.82	0.83173	-14.23	291.685	0.9642	0.0008
U3	TKN	avg_0_1_2_3_4_5_6	4	314.75	803.62	0.72147	-73.66	323.195	0.8344	0.017
U3	TPO4	avg_0_1	8	125.603	157.13	0.45036	-3500	20505.4	0.8693	0.0041
U3	TPO4	avg_0_1_2	5	267.894	238.68	0.32452	-20853	32660.5	0.5579	0.0925
U3	TPO4	avg_0_1_2_3	5	215.899	202.6	0.34664	-13148	26555.5	0.6465	0.0577
U3	TPO4	avg_0_1_2_3_4	5	142.029	150.02	0.39738	-3004	17622.2	0.8729	0.0072
U3	TPO4	avg_0_1_2_3_4_5	4	197.075	93.104	0.12457	-7160	8020.37	0.4378	0.2099
U3	TPO4	avg_0_1_2_3_4_5_6	4	207.321	104.7	0.14204	-8328	9458.64	0.4434	0.2053

UNIVARIATE LAG AVE 0-6
SURFACE WATER
Mosquitofish THg vs Y
POOLED STATIONS

independent	month	df	intercept	se_int	p value	slope	se_slope	p value	r_square
	lag		intercept		intercept		slope	slope	
AGP	LAG0	13	40.4503	12.8415	0.00838	-8.9352	10.5163	0.41215	0.0567
AGP	LAG1	10	72.1986	25.7508	0.02059	-7.2037	7.33708	0.35185	0.0967
AGP	LAG2	25	32.4609	6.39263	3.4E-05	-3.2928	3.18412	0.31138	0.0427
AGP	LAG3	8	37.8343	10.8372	0.01011	-4.1423	3.92233	0.32601	0.1374
AGP	LAG4	22	39.9908	7.3722	2.2E-05	-2.1284	1.1555	0.07965	0.1391
AGP	LAG5	20	44.1811	8.48896	5E-05	-2.5231	2.10755	0.24596	0.0701
AGP	LAG6	18	38.9319	8.67547	0.00032	-1.9852	1.69175	0.25679	0.0749
ALK	avg_0_1	42	100.663	42.5082	0.02268	-0.2181	0.1598	0.17976	0.0435
ALK	avg_0_1_2	42	128.736	42.2396	0.00402	-0.3368	0.16454	0.0471	0.0927
ALK	avg_0_1_2_3	37	171.732	51.4832	0.00198	-0.4883	0.19823	0.01868	0.1442
ALK	avg_0_1_2_3_4	36	145.948	55.1787	0.01215	-0.3921	0.21326	0.07446	0.0881
ALK	avg_0_1_2_3_4_5	31	143.155	60.6924	0.02505	-0.3675	0.2341	0.1269	0.0759
ALK	avg_0_1_2_3_4_5_6	26	140.084	79.211	0.08918	-0.3485	0.29984	0.25603	0.0513
ALK	LAG0	46	67.9552	31.6056	0.03696	-0.0851	0.11978	0.481	0.0111
ALK	LAG1	48	99.0138	27.8665	0.00088	-0.2237	0.10194	0.03317	0.093
ALK	LAG2	53	114.258	25.3349	3.7E-05	-0.3019	0.10016	0.00397	0.1488
ALK	LAG3	48	83.5373	30.1705	0.00803	-0.1472	0.11289	0.19856	0.0349
ALK	LAG4	49	47.825	26.4029	0.07635	-0.0189	0.09873	0.84938	0.0008
ALK	LAG5	47	51.4909	27.8537	0.07095	-0.0322	0.10558	0.76206	0.002
ALK	LAG6	49	67.1947	31.3152	0.03698	-0.0945	0.113	0.4069	0.0144
CA	avg_0_1	42	135.697	40.5881	0.00178	-1.1664	0.50573	0.02622	0.1148
CA	avg_0_1_2	42	163.263	38.9493	0.00014	-1.5625	0.50052	0.00329	0.192
CA	avg_0_1_2_3	37	197.951	47.2058	0.00017	-1.9629	0.60374	0.0025	0.227
CA	avg_0_1_2_3_4	36	179.497	53.7373	0.002	-1.7467	0.69349	0.0165	0.1534
CA	avg_0_1_2_3_4_5	31	170.773	60.8207	0.00869	-1.5964	0.78833	0.05184	0.1203
CA	avg_0_1_2_3_4_5_6	26	172.357	76.9223	0.03417	-1.5925	0.98251	0.11759	0.0951
CA	LAG0	46	69.221	38.3055	0.07744	-0.2935	0.47708	0.54155	0.0083
CA	LAG1	48	120.783	25.5721	2.1E-05	-1.0093	0.30838	0.002	0.1856
CA	LAG2	53	139.141	24.0913	#####	-1.3235	0.31314	9.6E-05	0.2557
CA	LAG3	48	100.155	32.927	0.00384	-0.6889	0.40418	0.09489	0.0582
CA	LAG4	49	46.7625	26.5082	0.08408	-0.0494	0.33253	0.88243	0.0005
CA	LAG5	47	55.5418	28.1491	0.05451	-0.1576	0.35042	0.65503	0.0044
CA	LAG6	49	71.5667	34.818	0.0453	-0.3639	0.41484	0.38481	0.0158
CL	avg_0_1	42	30.7924	41.1345	0.45839	0.08767	0.27835	0.7544	0.0024
CL	avg_0_1_2	41	67.2464	47.1605	0.16165	-0.1707	0.32542	0.60277	0.0068
CL	avg_0_1_2_3	36	95.9352	65.9783	0.15484	-0.3438	0.44727	0.44725	0.0166
CL	avg_0_1_2_3_4	35	54.0715	64.418	0.40712	-0.0637	0.44186	0.88616	0.0006
CL	avg_0_1_2_3_4_5	29	69.1904	73.2321	0.35284	-0.1424	0.4971	0.77669	0.0029
CL	avg_0_1_2_3_4_5_6	25	114.799	112.172	0.31632	-0.4388	0.74543	0.56158	0.0142
CL	LAG0	46	29.0147	28.5076	0.31422	0.11524	0.1868	0.54039	0.0084
CL	LAG1	48	75.3113	31.2137	0.01979	-0.2536	0.21606	0.24642	0.0285
CL	LAG2	52	99.322	26.4969	0.00045	-0.4316	0.18544	0.02395	0.096
CL	LAG3	48	45.424	28.2406	0.11443	-0.0018	0.1878	0.99259	0
CL	LAG4	49	25.2703	22.7537	0.27227	0.12854	0.15813	0.42029	0.0136

CL	LAG5	46	44.4676	25.8121	0.0918	-0.0087	0.18218	0.96219	0.0001
CL	LAG6	49	108.12	28.2489	0.00037	-0.4354	0.18023	0.01955	0.1084
DOC	avg_0_1	44	60.1198	37.6836	0.11795	-0.4379	0.88883	0.62472	0.0056
DOC	avg_0_1_2	44	116.917	47.1514	0.01715	-1.8403	1.1436	0.11489	0.0568
DOC	avg_0_1_2_3	39	123.32	61.0461	0.05046	-1.9476	1.49351	0.20006	0.0428
DOC	avg_0_1_2_3_4	38	106.57	71.2118	0.143	-1.5583	1.75152	0.37939	0.0209
DOC	avg_0_1_2_3_4_5	33	101.297	87.4477	0.25529	-1.3447	2.13536	0.53334	0.0122
DOC	avg_0_1_2_3_4_5_6	28	61.7602	107.575	0.57064	-0.3831	2.60238	0.88406	0.0008
DOC	LAG0	48	36.3036	25.3003	0.15794	0.18915	0.56476	0.73917	0.0024
DOC	LAG1	48	105.766	37.6579	0.00723	-1.6442	0.92041	0.08049	0.0636
DOC	LAG2	53	136.057	29.8967	3.2E-05	-2.4891	0.75967	0.00188	0.1711
DOC	LAG3	49	47.6216	33.2851	0.15899	-0.083	0.82578	0.92035	0.0002
DOC	LAG4	51	42.0977	20.3735	0.044	-0.0153	0.47634	0.97445	0
DOC	LAG5	49	30.2394	22.5128	0.18552	0.30121	0.51555	0.56179	0.0071
DOC	LAG6	49	22.9814	37.9533	0.54769	0.45566	0.91546	0.62094	0.0051
K	avg_0_1	42	30.1312	43.7342	0.49473	1.86938	6.01124	0.75739	0.0024
K	avg_0_1_2	42	57.8107	47.0395	0.22609	-2.0361	6.61931	0.75995	0.0023
K	avg_0_1_2_3	37	47.6737	62.0744	0.44749	-0.1868	8.69754	0.98299	0
K	avg_0_1_2_3_4	36	-14.993	71.601	0.83536	8.62221	10.1142	0.39974	0.0203
K	avg_0_1_2_3_4_5	31	-60.853	90.4778	0.50636	15.5755	12.7551	0.23155	0.0474
K	avg_0_1_2_3_4_5_6	26	-128.96	114.606	0.27115	-24.451	15.6854	0.1316	0.0886
K	LAG0	46	-36.127	34.6362	0.3025	11.305	4.67587	0.01973	0.115
K	LAG1	48	80.3181	27.3874	0.00518	-5.8141	3.78762	0.13148	0.0477
K	LAG2	53	75.4243	23.2427	0.00206	-5.1411	3.24384	0.11905	0.0461
K	LAG3	48	27.1421	31.549	0.39398	2.45196	4.19139	0.56135	0.0072
K	LAG4	49	-6.37	25.1184	0.80089	7.00155	3.44592	0.04773	0.0792
K	LAG5	47	36.608	27.4816	0.18939	0.90087	3.58866	0.80291	0.0014
K	LAG6	49	42.8841	31.6851	0.18225	-0.1676	3.98632	0.96664	0
MG	avg_0_1	42	58.985	40.015	0.1481	-0.5692	1.44734	0.69614	0.0038
MG	avg_0_1_2	42	87.355	41.9053	0.04338	-1.6814	1.58212	0.29412	0.0268
MG	avg_0_1_2_3	37	109.073	59.6899	0.07595	-2.3642	2.22836	0.29578	0.0303
MG	avg_0_1_2_3_4	36	65.6335	66.5747	0.33097	-0.7622	2.51391	0.76354	0.0026
MG	avg_0_1_2_3_4_5	31	52.5205	74.6093	0.4869	-0.1336	2.81918	0.96252	0.0001
MG	avg_0_1_2_3_4_5_6	26	11.044	116.65	0.92533	1.39752	4.28656	0.74712	0.0042
MG	LAG0	46	19.1904	34.0685	0.57604	0.98179	1.21825	0.42454	0.0142
MG	LAG1	48	90.2714	26.5755	0.0014	-1.8865	0.95772	0.05477	0.0763
MG	LAG2	53	103.722	26.273	0.00024	-2.5793	1.03438	0.01587	0.1068
MG	LAG3	48	38.2223	32.5404	0.24607	0.25561	1.17112	0.82817	0.001
MG	LAG4	49	11.6749	25.2692	0.64615	1.2042	0.93897	0.20584	0.0331
MG	LAG5	47	28.7777	26.5377	0.28383	0.55623	0.98207	0.57388	0.0069
MG	LAG6	49	62.9731	35.0604	0.07877	-0.742	1.19421	0.53733	0.008
NA	avg_0_1	42	38.5168	41.7935	0.36213	0.05033	0.41282	0.90356	0.0004
NA	avg_0_1_2	42	81.4768	44.0979	0.07188	-0.3905	0.4472	0.38765	0.0183
NA	avg_0_1_2_3	37	112.297	61.4607	0.07598	-0.6639	0.61317	0.28613	0.0315
NA	avg_0_1_2_3_4	36	81.1738	63.1853	0.20734	-0.3617	0.6369	0.57369	0.0091
NA	avg_0_1_2_3_4_5	31	86.3863	68.7795	0.21881	-0.3805	0.69319	0.58717	0.0099
NA	avg_0_1_2_3_4_5_6	26	132.506	114.561	0.25835	-0.8224	1.12143	0.47019	0.0211
NA	LAG0	46	23.6774	29.8016	0.43107	0.22261	0.28809	0.44373	0.0131
NA	LAG1	48	83.7316	30.8462	0.00925	-0.4541	0.30943	0.14891	0.0438
NA	LAG2	53	103.289	25.1573	0.00014	-0.6724	0.25943	0.01236	0.1144
NA	LAG3	48	47.1849	29.5814	0.1174	-0.0202	0.28806	0.94445	0.0001
NA	LAG4	49	31.5327	24.3229	0.20103	0.12096	0.24767	0.62749	0.0049

NA	LAG5	47	45.1457	26.0662	0.08998	-0.02	0.26968	0.94107	0.0001
NA	LAG6	49	111.895	30.4044	0.00059	-0.665	0.28132	0.02218	0.1043
NH4	avg_0_1	44	42.0474	9.78711	9.7E-05	-3.1914	142.602	0.98225	0
NH4	avg_0_1_2	42	42.2634	11.0891	0.00046	-2.0452	162.323	0.99001	0
NH4	avg_0_1_2_3	37	48.7987	13.754	0.0011	-85.011	231.792	0.71595	0.0037
NH4	avg_0_1_2_3_4	34	44.1178	15.9002	0.00903	-11.149	276.42	0.96807	0
NH4	avg_0_1_2_3_4_5	29	40.4721	18.9316	0.0414	117.402	291.284	0.68997	0.0058
NH4	avg_0_1_2_3_4_5_6	24	52.2781	20.0237	0.01563	-101.21	271.82	0.71306	0.006
NH4	LAG0	48	40.9344	8.03519	#####	53.6559	64.7863	0.41174	0.0144
NH4	LAG1	48	36.3461	8.45057	8.5E-05	83.5619	132.966	0.53275	0.0083
NH4	LAG2	51	40.1302	7.40879	#####	-2.5584	70.3437	0.97113	0
NH4	LAG3	49	49.0519	8.78502	#####	-102.56	124.735	0.415	0.0139
NH4	LAG4	49	41.7117	8.21718	#####	-13.565	100.059	0.89273	0.0004
NH4	LAG5	49	37.5949	8.04954	2.5E-05	77.8992	67.3934	0.25345	0.0271
NH4	LAG6	49	44.1165	7.49598	#####	-38.465	53.4972	0.47562	0.0107
NO2	LAG0	3	42.2362	17.7594	0.14048	-1509.1	1419.62	0.39914	0.361
NO2	LAG2	4	32.3086	14.9711	0.11979	-1035.5	1332.67	0.4938	0.1675
NO2	LAG3	6	91.738	152.199	0.57297	-6229	31067.5	0.84899	0.008
NO2	LAG4	1	165			-22000			1
NO2	LAG5	4	61.7643	66.0363	0.41863	-8212.1	13593.4	0.58839	0.1085
NO2	LAG6	4	-3.155	119.742	0.98063	4225	23759	0.87019	0.0104
NOX	avg_0_1	12	32.679	10.3758	0.00925	-0.1211	0.35628	0.74041	0.0104
NOX	avg_0_1_2	7	42.021	14.7965	0.02957	-0.3147	0.59783	0.61745	0.0442
NOX	avg_0_1_2_3	3	110.222	50.6495	0.1615	-3737.6	3541.16	0.40189	0.3577
NOX	avg_0_1_2_3_4	1	142.866			-5147.7			1
NOX	avg_0_1_2_3_4_5	0	88.3			0			
NOX	avg_0_1_2_3_4_5_6	0	88.3			0			
NOX	LAG0	26	32.5503	6.43428	3.2E-05	-0.0599	0.15921	0.7099	0.0056
NOX	LAG1	17	68.4107	25.0807	0.0149	-1699	1850.65	0.37222	0.05
NOX	LAG2	30	49.016	13.8057	0.00133	-12.663	471.78	0.97877	0
NOX	LAG3	27	57.096	11.061	2.2E-05	0.02343	0.27871	0.93366	0.0003
NOX	LAG4	20	47.5496	28.8573	0.11584	-252.82	2541.69	0.92181	0.0005
NOX	LAG5	26	55.9815	20.8422	0.01266	-620.89	1019.65	0.54807	0.0146
NOX	LAG6	20	47.2311	13.4775	0.00237	-0.1778	0.2941	0.55255	0.0189
OPO4	avg_0_1	25	28.7011	8.96214	0.00382	99.6919	198.978	0.62092	0.0104
OPO4	avg_0_1_2	20	41.5503	12.0656	0.00272	-214.58	256.27	0.41283	0.0356
OPO4	avg_0_1_2_3	19	50.8355	13.4349	0.00136	-448.88	307.793	0.16197	0.1057
OPO4	avg_0_1_2_3_4	19	51.8872	14.0363	0.00165	-511.12	351.409	0.16302	0.1052
OPO4	avg_0_1_2_3_4_5	18	62.5248	14.4515	0.00046	-774.98	346.381	0.03894	0.2275
OPO4	avg_0_1_2_3_4_5_6	15	67.4843	15.0841	0.00052	-727.52	328.066	0.04364	0.26
OPO4	LAG0	37	26.6579	5.46364	2.2E-05	148.938	87.3398	0.09676	0.0747
OPO4	LAG1	29	35.4353	7.78209	9.4E-05	-284.08	237.105	0.24092	0.0488
OPO4	LAG2	32	42.5348	6.251	#####	-225.29	91.8479	0.02	0.1625
OPO4	LAG3	41	51.8969	6.63127	#####	-636.67	233.919	0.00957	0.1563
OPO4	LAG4	31	39.4932	7.76411	1.8E-05	-215.43	232.745	0.36203	0.0278
OPO4	LAG5	37	37.0285	6.12352	#####	-118.04	78.9739	0.14371	0.0584
OPO4	LAG6	41	41.1829	5.76478	#####	-173.13	110.64	0.1255	0.0577
SIO2	avg_0_1	36	113.413	44.2192	0.01477	-3.2591	2.17484	0.14296	0.0603
SIO2	avg_0_1_2	35	130.982	42.8786	0.00436	-4.473	2.25817	0.05575	0.1035
SIO2	avg_0_1_2_3	30	156.389	58.198	0.01181	-5.6841	3.12071	0.07887	0.1027
SIO2	avg_0_1_2_3_4	29	162.855	66.6032	0.02103	-6.0946	3.59141	0.10079	0.0933
SIO2	avg_0_1_2_3_4_5	23	190.82	95.7361	0.05879	-7.3899	5.2468	0.17297	0.0827

SIO2	avg_0_1_2_3_4_5_6	19	183.371	125.333	0.16069	-6.741	6.78498	0.33363	0.052
SIO2	LAG0	40	60.6055	43.4337	0.1708	-0.4977	2.15525	0.81859	0.0014
SIO2	LAG1	48	67.4753	21.3937	0.00281	-1.4994	1.09075	0.17576	0.0387
SIO2	LAG2	52	79.2766	18.8718	0.00011	-2.4127	1.07834	0.02966	0.0894
SIO2	LAG3	48	45.3475	25.5218	0.08207	-0.01	1.36605	0.99421	0
SIO2	LAG4	49	24.9439	19.4878	0.20671	0.99781	1.01479	0.33041	0.0197
SIO2	LAG5	46	21.9488	21.6732	0.31661	1.22249	1.17384	0.30323	0.0235
SIO2	LAG6	49	11.499	34.7797	0.74237	1.49294	1.6947	0.38274	0.0159
SO4	avg_0_1	42	43.4114	23.1108	0.06745	0.00231	0.43079	0.99576	0
SO4	avg_0_1_2	41	49.7098	25.9403	0.06249	-0.1392	0.50164	0.78287	0.0019
SO4	avg_0_1_2_3	36	42.259	38.6323	0.28148	0.06937	0.77206	0.92892	0.0002
SO4	avg_0_1_2_3_4	35	13.0258	45.5551	0.77666	0.66837	0.93859	0.48126	0.0147
SO4	avg_0_1_2_3_4_5	29	-31.833	56.8154	0.57974	1.68739	1.17561	0.16227	0.0685
SO4	avg_0_1_2_3_4_5_6	25	-72.081	73.2754	0.33508	2.49878	1.49321	0.10723	0.1045
SO4	LAG0	46	-5.8649	18.9656	0.75857	0.95551	0.32801	0.00555	0.1587
SO4	LAG1	48	68.0026	15.595	7E-05	-0.5663	0.28173	0.0502	0.0791
SO4	LAG2	52	57.9291	16.0288	0.00069	-0.3888	0.30758	0.212	0.0304
SO4	LAG3	48	39.9237	20.4513	0.05689	0.09899	0.36412	0.78692	0.0016
SO4	LAG4	49	17.0313	16.0481	0.29388	0.53178	0.30084	0.08348	0.0611
SO4	LAG5	46	13.6739	18.3045	0.45894	0.58134	0.33265	0.08736	0.0636
SO4	LAG6	49	34.3274	24.213	0.16273	0.13301	0.42691	0.75672	0.002
TDKN	avg_0_1	35	75.0269	53.156	0.1672	-12.449	21.3067	0.56288	0.0099
TDKN	avg_0_1_2	32	127.768	61.9355	0.04758	-34.332	25.5064	0.18806	0.0552
TDKN	avg_0_1_2_3	21	133.627	55.5434	0.02593	-41.693	23.0893	0.08604	0.1402
TDKN	avg_0_1_2_3_4	20	104.396	60.3571	0.09991	-30.411	25.2721	0.24362	0.0708
TDKN	avg_0_1_2_3_4_5	13	68.5987	74.0431	0.37246	-15.573	29.7525	0.61022	0.0223
TDKN	avg_0_1_2_3_4_5_6	8	181.753	119.116	0.17088	-54.323	44.6542	0.26321	0.1745
TDKN	LAG0	35	14.6111	37.887	0.70216	11.8449	14.6714	0.42508	0.0188
TDKN	LAG1	48	77.4296	29.5793	0.01187	-15.425	11.7278	0.19481	0.0355
TDKN	LAG2	47	110.032	30.0954	0.00066	-29.516	12.8503	0.02622	0.1029
TDKN	LAG3	39	66.7266	23.4786	0.00717	-12.678	9.74373	0.20104	0.0427
TDKN	LAG4	51	32.5012	25.9691	0.21656	3.92213	10.9819	0.72249	0.0025
TDKN	LAG5	42	34.0542	30.5497	0.27146	3.91442	12.3061	0.75203	0.0025
TDKN	LAG6	40	37.7848	44.1001	0.39679	3.13944	16.1007	0.84641	0.001
TDPO4	avg_0_1	35	34.5156	6.8353	1.5E-05	-7.7434	182.131	0.96634	0.0001
TDPO4	avg_0_1_2	30	35.8847	7.15704	2.4E-05	-190.85	149.661	0.21236	0.0531
TDPO4	avg_0_1_2_3	25	38.6588	8.48661	0.00013	-227.4	222.317	0.31658	0.0418
TDPO4	avg_0_1_2_3_4	22	32.1083	6.99964	0.00016	-141.66	165.482	0.40164	0.0337
TDPO4	avg_0_1_2_3_4_5	15	39.8279	9.90971	0.00127	-195.41	179.51	0.29473	0.078
TDPO4	avg_0_1_2_3_4_5_6	11	38.0888	11.4413	0.00763	-183.81	191.317	0.35934	0.0845
TDPO4	LAG0	42	38.2169	5.78759	#####	50.4504	68.8387	0.4678	0.0129
TDPO4	LAG1	44	47.3544	9.31461	#####	-452.8	261.847	0.09094	0.065
TDPO4	LAG2	44	38.0125	4.87802	#####	-141.48	58.5041	0.0199	0.1197
TDPO4	LAG3	45	54.9739	9.13959	#####	-504.65	254.592	0.05372	0.082
TDPO4	LAG4	44	37.7252	4.85451	#####	-90.363	70.3719	0.20599	0.0369
TDPO4	LAG5	42	50.4027	8.61453	#####	-140.42	88.312	0.11951	0.0581
TDPO4	LAG6	43	42.847	8.14204	#####	-184.63	148.384	0.22031	0.0356
TDSCU	avg_0_1	34	71.3297	21.2637	0.00201	-26.001	22.3684	0.25341	0.0393
TDSCU	avg_0_1_2	33	58.3758	19.6387	0.00557	-10.025	16.7494	0.55372	0.0111
TDSCU	avg_0_1_2_3	28	69.553	25.7437	0.01177	-16.544	22.773	0.47379	0.0192
TDSCU	avg_0_1_2_3_4	23	89.5601	34.642	0.01689	-34.417	31.6258	0.28826	0.0511
TDSCU	avg_0_1_2_3_4_5	18	34.1855	41.7899	0.42466	25.0285	35.631	0.49191	0.0282

TDSCU	avg_0_1_2_3_4_5_6	12	-31.049	71.1149	0.67084	83.3884	60.1816	0.19332	0.1486
TDSCU	LAG0	40	60.3502	14.3244	0.00014	-9.751	12.2241	0.42988	0.0161
TDSCU	LAG1	44	48.3113	16.7412	0.00608	-10.471	21.055	0.62148	0.0057
TDSCU	LAG2	50	36.2235	8.77223	0.00014	1.94361	5.08789	0.70411	0.003
TDSCU	LAG3	48	51.2023	11.7956	7.5E-05	-6.3247	10.1251	0.53522	0.0082
TDSCU	LAG4	42	73.0803	17.7439	0.00018	-38.258	21.8294	0.08715	0.0697
TDSCU	LAG5	47	27.0831	8.68715	0.00314	13.8433	4.95032	0.00752	0.1453
TDSCU	LAG6	46	38.9615	11.9969	0.0022	2.54436	9.88847	0.79812	0.0015
TDSFE	avg_0_1	30	37.2513	28.7742	0.20567	1.13302	2.76023	0.68447	0.0058
TDSFE	avg_0_1_2	24	49.4328	33.7459	0.1565	0.2615	3.14393	0.93443	0.0003
TDSFE	avg_0_1_2_3	21	32.5113	46.5911	0.49334	2.16337	4.71909	0.65159	0.0104
TDSFE	avg_0_1_2_3_4	20	30.3216	53.5376	0.57778	2.24564	5.30174	0.67664	0.0094
TDSFE	avg_0_1_2_3_4_5	15	33.3746	61.7616	0.59743	2.01287	6.00052	0.74226	0.008
TDSFE	avg_0_1_2_3_4_5_6	13	-34.567	84.8954	0.69105	9.87149	8.7584	0.28174	0.0957
TDSFE	LAG0	32	42.6399	19.2699	0.03441	0.51078	1.68639	0.764	0.003
TDSFE	LAG1	39	54.6574	17.0755	0.00277	-1.1016	1.32487	0.41088	0.0179
TDSFE	LAG2	28	55.055	22.4256	0.02082	-0.8194	1.83689	0.65909	0.0073
TDSFE	LAG3	30	61.7833	21.4482	0.00739	-1.4377	1.7891	0.42817	0.0218
TDSFE	LAG4	33	48.9429	10.6971	6.8E-05	-0.1816	0.34909	0.60645	0.0084
TDSFE	LAG5	28	49.4497	22.704	0.03831	-0.0888	1.79896	0.96102	0.0001
TDSFE	LAG6	32	32.7445	20.5171	0.12064	0.84339	1.59858	0.60154	0.0089
TDSMN	avg_0_1	2	5.17009	62.6434	0.94758	10.3845	24.4986	0.74477	0.1523
TDSMN	avg_0_1_2	2	43.8531	46.9881	0.52196	-2.1739	6.19708	0.78521	0.1096
TDSMN	avg_0_1_2_3	2	63.9404	54.9713	0.45207	-4.9259	7.29732	0.622	0.313
TDSMN	avg_0_1_2_3_4	2	114.202	30.7207	0.16729	-10.959	3.83063	0.21408	0.8911
TDSMN	LAG0	2	37.7267	44.084	0.54937	-3.42	15.5151	0.86188	0.0463
TDSMN	LAG1	2	-24.455	10.7954	0.26465	22.5841	4.07444	0.11363	0.9685
TDSMN	LAG2	5	46.1933	20.1119	0.08323	-1.139	1.5571	0.50503	0.118
TDSMN	LAG3	5	49.5807	27.0062	0.14026	-2.4499	4.1446	0.58624	0.0803
TDSMN	LAG4	5	54.1178	25.2916	0.09911	-1.3838	1.61026	0.43858	0.1559
TDSMN	LAG5	2	133.147	47.02	0.21612	-10.837	5.3275	0.29088	0.8054
TDSMN	LAG6	2	74.0631	53.5631	0.39861	-2.8664	4.13491	0.6141	0.3246
TDSZN	avg_0_1	27	63.8458	22.3692	0.00836	-5.0007	6.42027	0.44307	0.0228
TDSZN	avg_0_1_2	22	92.4635	33.0101	0.0107	-12.332	9.3059	0.19935	0.0772
TDSZN	avg_0_1_2_3	18	75.4137	40.5451	0.08028	-7.5603	11.3996	0.51609	0.0252
TDSZN	avg_0_1_2_3_4	13	124.724	65.9009	0.08278	-21.021	18.7673	0.28458	0.0947
TDSZN	avg_0_1_2_3_4_5	9	84.6184	43.8375	0.08968	-13.807	12.7425	0.31013	0.128
TDSZN	avg_0_1_2_3_4_5_6	6	96.5236	42.2093	0.07093	-19.255	11.3863	0.15162	0.3638
TDSZN	LAG0	38	60.2575	13.83	0.0001	-3.8885	3.659	0.2948	0.0296
TDSZN	LAG1	32	47.2231	11.2237	0.0002	-1.1166	1.64832	0.50317	0.0146
TDSZN	LAG2	36	59.7531	14.8235	0.00029	-4.1225	3.40899	0.23465	0.0401
TDSZN	LAG3	36	47.8613	13.5287	0.00116	-1.4081	3.63864	0.70111	0.0043
TDSZN	LAG4	32	48.0441	11.3011	0.00018	-0.7112	1.64559	0.66859	0.006
TDSZN	LAG5	35	35.0778	8.80461	0.00034	2.06471	1.9764	0.30354	0.0311
TDSZN	LAG6	30	53.9039	14.964	0.00116	-3.6003	3.58655	0.32376	0.0336
TKN	avg_0_1	32	98.2057	62.2177	0.12462	-18.558	23.6143	0.4379	0.0195
TKN	avg_0_1_2	30	148.308	66.7204	0.03418	-39.237	26.5005	0.14949	0.0703
TKN	avg_0_1_2_3	23	133.838	92.8779	0.16367	-30.958	37.3556	0.41615	0.0303
TKN	avg_0_1_2_3_4	17	220.083	150.838	0.1639	-62.825	58.2447	0.29674	0.0678
TKN	avg_0_1_2_3_4_5	17	210.19	144.339	0.16467	-58.975	55.698	0.3054	0.0655
TKN	avg_0_1_2_3_4_5_6	16	225.545	166.715	0.19614	-64.059	64.5981	0.33709	0.0615
TKN	LAG0	41	26.4954	43.6412	0.5472	7.66383	16.1999	0.63873	0.0056

TKN	LAG1	41	68.7668	30.609	0.03025	-10.61	12.0585	0.38419	0.019
TKN	LAG2	49	131.129	30.0153	6.7E-05	-38.621	12.4157	0.00314	0.1678
TKN	LAG3	43	67.2603	33.368	0.05026	-8.4804	13.1379	0.52212	0.0098
TKN	LAG4	44	28.7342	27.36	0.29948	5.12008	11.5295	0.65921	0.0046
TKN	LAG5	47	52.1772	29.3051	0.0816	-4.5286	11.4501	0.69429	0.0034
TKN	LAG6	45	75.3114	37.7243	0.0521	-12	13.6555	0.38432	0.0172
TPO4	avg_0_1	48	47.2578	8.78727	#####	-160.53	151.717	0.29542	0.0233
TPO4	avg_0_1_2	40	53.9352	10.6363	1E-05	-292.04	171.815	0.09715	0.069
TPO4	avg_0_1_2_3	38	58.11	11.1979	#####	-380.06	198.916	0.06382	0.0898
TPO4	avg_0_1_2_3_4	38	59.9922	11.4489	#####	-423.89	207.295	0.04803	0.1015
TPO4	avg_0_1_2_3_4_5	32	67.5627	13.4982	2.1E-05	-525.59	229.092	0.02871	0.1451
TPO4	avg_0_1_2_3_4_5_6	30	64.4117	13.8989	7E-05	-463.73	237.907	0.061	0.1158
TPO4	LAG0	49	41.9851	7.87701	#####	-4.3386	91.4595	0.96236	0
TPO4	LAG1	53	52.1859	8.0926	#####	-364.6	163.251	0.02985	0.0875
TPO4	LAG2	46	50.91	7.92428	#####	-189.14	89.1768	0.03947	0.0909
TPO4	LAG3	52	60.5975	8.23528	#####	-557.7	179.579	0.0031	0.159
TPO4	LAG4	54	48.4339	7.11965	#####	-152.6	93.8468	0.10987	0.0475
TPO4	LAG5	46	51.2706	8.05431	#####	-155.17	79.3585	0.05678	0.0783
TPO4	LAG6	51	51.1591	7.83069	#####	-256.92	122.169	0.04052	0.0813
TSS	LAG0	1	9.65	3.05	0.19489	0			0
TSS	LAG1	2	64.7633	10.1167	0.02354	0			0
TSS	LAG2	1	12.8	2.9	0.14184	0			0
TSS	LAG3	2	38.2847	72.9219	0.69222	0.00242	10.6367	0.99986	0
TSS	LAG4	3	-257.52	166.832	0.26267	65.62	34.9775	0.20147	0.6377
TSS	LAG5	1	8.43	3.47	0.24859	0			0
TSS	LAG6	2	63.28	83.993	0.58895	-0.798	11.8784	0.9573	0.0045

UNIVARIATE LAG AVE 0-6
 SURFACE WATER
 Mosquitofish THg vs LOG Y
 POOLED STATIONS

independent	month	df	intercept	se_int	p value	slope	se_slope	p value	r_square
	lag				intercept			slope	
AGP	LAG0	13	3.08491	0.37895	3.14E-06	-0.36284	0.31034	0.26503	0.1023
AGP	LAG1	10	3.64035	0.48933	3.9E-05	-0.24413	0.13942	0.11386	0.2541
AGP	LAG2	25	3.05401	0.2172	4.40E-13	-0.13175	0.10818	0.23513	0.0582
AGP	LAG3	8	3.02227	0.53282	0.00076	-0.15411	0.19284	0.45046	0.0836
AGP	LAG4	22	3.34911	0.20016	1.29E-13	-0.0961	0.03137	0.0059	0.3088
AGP	LAG5	20	3.29739	0.28839	5.84E-10	-0.09214	0.0716	0.21361	0.0802
AGP	LAG6	18	3.28833	0.25702	3.75E-10	-0.09226	0.05012	0.08316	0.1662
ALK	LAG0	46	4.11126	0.76511	2.63E-06	-0.00319	0.0029	0.27724	0.0262
ALK	LAG1	48	4.36135	0.70911	1.59E-07	-0.00485	0.00259	0.06783	0.0692
ALK	LAG2	53	5.12524	0.63884	1.17E-10	-0.00811	0.00253	0.00226	0.1656
ALK	LAG3	48	5.19193	0.66855	5.71E-10	-0.00725	0.0025	0.00571	0.1515
ALK	LAG4	49	3.50382	0.64632	1.89E-06	-0.00115	0.00242	0.63633	0.0047
ALK	LAG5	47	4.09479	0.67538	2.33E-07	-0.00356	0.00256	0.17161	0.0402
ALK	LAG6	49	4.16631	0.77746	2.35E-06	-0.00371	0.00281	0.19198	0.0352
ALK	avg_0_1	42	4.56438	1.02675	6.5E-05	-0.0052	0.00386	0.18506	0.0424
ALK	avg_0_1_2	42	5.42692	1.01079	3.40E-06	-0.0088	0.00394	0.03097	0.1086
ALK	avg_0_1_2_3	37	6.98369	1.11569	3.13E-07	-0.01442	0.0043	0.00188	0.2383
ALK	avg_0_1_2_3_4	36	6.42679	1.20187	5.60E-06	-0.0124	0.00465	0.01145	0.1691
ALK	avg_0_1_2_3_4_5	31	6.475	1.30849	2.7E-05	-0.01242	0.00505	0.0198	0.168
ALK	avg_0_1_2_3_4_5_6	26	6.36134	1.71737	0.00105	-0.01197	0.0065	0.07757	0.1193
CA	LAG0	46	3.73395	0.93596	0.00024	-0.00561	0.01166	0.63238	0.0051
CA	LAG1	48	4.91112	0.656	1.50E-09	-0.02284	0.00791	0.00585	0.1507
CA	LAG2	53	5.71322	0.60863	8.82E-13	-0.03449	0.00791	6.2E-05	0.2676
CA	LAG3	48	5.16521	0.75239	1.31E-08	-0.02333	0.00924	0.01498	0.1195
CA	LAG4	49	3.20062	0.65033	1.1E-05	7.5E-05	0.00816	0.9927	0
CA	LAG5	47	4.05996	0.68475	3.70E-07	-0.01122	0.00852	0.19466	0.0363
CA	LAG6	49	4.57709	0.8557	2.43E-06	-0.01719	0.0102	0.0983	0.0559
CA	avg_0_1	42	5.15729	0.99419	6.13E-06	-0.02475	0.01239	0.05236	0.0887
CA	avg_0_1_2	42	6.00992	0.94651	1.38E-07	-0.03665	0.01216	0.00442	0.1813
CA	avg_0_1_2_3	37	6.97255	1.06452	1.29E-07	-0.04779	0.01361	0.00122	0.255
CA	avg_0_1_2_3_4	36	6.5447	1.20832	4.54E-06	-0.04293	0.01559	0.0093	0.178
CA	avg_0_1_2_3_4_5	31	6.53398	1.34629	3.5E-05	-0.04249	0.01745	0.02104	0.1651
CA	avg_0_1_2_3_4_5_6	26	6.67785	1.68123	0.00053	-0.04446	0.02147	0.04888	0.1464
CL	LAG0	46	3.15701	0.69806	4.4E-05	0.0009	0.00457	0.8441	0.0009
CL	LAG1	48	3.68048	0.79029	2.7E-05	-0.00431	0.00547	0.43455	0.013
CL	LAG2	52	5.28647	0.63294	4.10E-11	-0.01568	0.00443	0.00087	0.1971
CL	LAG3	48	3.91557	0.66101	3.51E-07	-0.00419	0.0044	0.345	0.019
CL	LAG4	49	3.19757	0.56192	7.42E-07	6.4E-05	0.00391	0.98693	0
CL	LAG5	46	3.93596	0.62555	1.15E-07	-0.00559	0.00442	0.21185	0.0344
CL	LAG6	49	4.95408	0.7022	6.05E-09	-0.01174	0.00448	0.01175	0.1251
CL	avg_0_1	42	2.87692	0.99291	0.00601	0.00223	0.00672	0.74133	0.0027
CL	avg_0_1_2	41	4.15743	1.12457	0.00065	-0.00687	0.00776	0.38149	0.0192
CL	avg_0_1_2_3	36	5.64532	1.4625	0.00047	-0.01634	0.00991	0.10825	0.072
CL	avg_0_1_2_3_4	35	4.78382	1.43473	0.00208	-0.01079	0.00984	0.28072	0.0341

CL	avg_0_1_2_3_4_5	29	5.1016	1.61063	0.0037	-0.01274	0.01093	0.25385	0.0462
CL	avg_0_1_2_3_4_5_6	25	6.48536	2.44362	0.01389	-0.02188	0.01624	0.19041	0.0703
DOC	LAG0	48	3.10226	0.6305	1.1E-05	0.00299	0.01407	0.83245	0.001
DOC	LAG1	48	4.74507	0.94561	7.92E-06	-0.04153	0.02311	0.0788	0.0643
DOC	LAG2	53	6.66069	0.67109	1.35E-13	-0.09145	0.01705	1.91E-06	0.3561
DOC	LAG3	49	3.52634	0.80311	6.2E-05	-0.00662	0.01992	0.74126	0.0023
DOC	LAG4	51	3.28708	0.51315	5.10E-08	-0.00359	0.012	0.76607	0.0018
DOC	LAG5	49	3.11101	0.57061	1.70E-06	0.00138	0.01307	0.91659	0.0002
DOC	LAG6	49	2.62251	0.95157	0.00825	0.01318	0.02295	0.56845	0.0068
DOC	avg_0_1	44	3.72294	0.92654	0.00023	-0.014	0.02185	0.5252	0.0095
DOC	avg_0_1_2	44	5.59959	1.1343	1.2E-05	-0.06032	0.02751	0.03378	0.1006
DOC	avg_0_1_2_3	39	5.81321	1.40854	0.00019	-0.06424	0.03446	0.07005	0.0838
DOC	avg_0_1_2_3_4	38	5.82701	1.62805	0.00098	-0.0655	0.04004	0.1104	0.0674
DOC	avg_0_1_2_3_4_5	33	6.11454	1.98702	0.00426	-0.0714	0.04852	0.15092	0.0634
DOC	avg_0_1_2_3_4_5_6	28	5.01624	2.45761	0.05113	-0.04575	0.05945	0.44831	0.0215
K	LAG0	46	1.2208	0.84131	0.1537	0.28474	0.11358	0.01585	0.1226
K	LAG1	48	4.28473	0.68103	9.73E-08	-0.17285	0.09418	0.07281	0.0669
K	LAG2	53	4.57807	0.56908	1.08E-10	-0.20987	0.07942	0.01085	0.1184
K	LAG3	48	3.40339	0.74812	3.8E-05	-0.01358	0.09939	0.89189	0.0004
K	LAG4	49	1.72121	0.6025	0.00631	0.21084	0.08266	0.01399	0.1194
K	LAG5	47	3.26948	0.67984	1.7E-05	-0.01114	0.08878	0.90067	0.0003
K	LAG6	49	3.96065	0.78628	7.10E-06	-0.10295	0.09892	0.30321	0.0221
K	avg_0_1	42	3.11313	1.05695	0.0053	0.0123	0.14528	0.93292	0.0002
K	avg_0_1_2	42	4.19616	1.12596	0.00059	-0.14182	0.15844	0.37595	0.0192
K	avg_0_1_2_3	37	4.40605	1.41327	0.00358	-0.15896	0.19802	0.4274	0.0176
K	avg_0_1_2_3_4	36	2.92148	1.64975	0.08529	0.04737	0.23304	0.8401	0.0012
K	avg_0_1_2_3_4_5	31	2.03563	2.09357	0.33867	0.17823	0.29514	0.55045	0.012
K	avg_0_1_2_3_4_5_6	26	0.9318	2.66166	0.72921	0.31605	0.36428	0.39386	0.0292
MG	LAG0	46	2.8225	0.83402	0.00149	0.01711	0.02982	0.56896	0.0073
MG	LAG1	48	4.20244	0.67343	1.16E-07	-0.04202	0.02427	0.08991	0.06
MG	LAG2	53	5.02964	0.65419	3.97E-10	-0.07687	0.02576	0.00432	0.1463
MG	LAG3	48	3.78735	0.76599	1E-05	-0.0178	0.02757	0.52152	0.0088
MG	LAG4	49	2.49131	0.62118	0.00021	0.02753	0.02308	0.2388	0.0288
MG	LAG5	47	3.44343	0.65727	3.93E-06	-0.00984	0.02432	0.68777	0.0035
MG	LAG6	49	3.91333	0.87635	4.8E-05	-0.02611	0.02985	0.38609	0.0157
MG	avg_0_1	42	3.4964	0.9667	0.00081	-0.01087	0.03497	0.75753	0.0024
MG	avg_0_1_2	42	4.40641	1.0075	8.2E-05	-0.04623	0.03804	0.23115	0.0348
MG	avg_0_1_2_3	37	5.37825	1.34692	0.00031	-0.07902	0.05028	0.12483	0.0642
MG	avg_0_1_2_3_4	36	4.46627	1.50706	0.00544	-0.04614	0.05691	0.42295	0.0184
MG	avg_0_1_2_3_4_5	31	4.4403	1.68207	0.01304	-0.04373	0.06356	0.4967	0.0155
MG	avg_0_1_2_3_4_5_6	26	3.63307	2.62932	0.17927	-0.01485	0.09662	0.87908	0.0009
NA	LAG0	46	3.05972	0.73095	0.00013	0.0023	0.00707	0.74647	0.0023
NA	LAG1	48	3.94152	0.78169	7.29E-06	-0.00893	0.00784	0.2605	0.0269
NA	LAG2	53	5.18048	0.61465	2.70E-11	-0.02178	0.00634	0.00117	0.185
NA	LAG3	48	4.00477	0.69116	5.50E-07	-0.00702	0.00673	0.30253	0.0226
NA	LAG4	49	3.25384	0.59802	1.77E-06	-0.0005	0.00609	0.93458	0.0001
NA	LAG5	47	3.92578	0.63454	1.52E-07	-0.00794	0.00656	0.23293	0.0308
NA	LAG6	49	5.07885	0.75482	1.92E-08	-0.01814	0.00698	0.01243	0.1233
NA	avg_0_1	42	3.11047	1.00903	0.00366	0.00091	0.00997	0.92751	0.0002
NA	avg_0_1_2	42	4.43296	1.05656	0.00014	-0.01267	0.01071	0.24369	0.033
NA	avg_0_1_2_3	37	5.85539	1.36771	0.00013	-0.02591	0.01365	0.06564	0.091
NA	avg_0_1_2_3_4	36	5.2304	1.40867	0.00071	-0.0201	0.0142	0.16571	0.0542

NA	avg_0_1_2_3_4_5	31	5.48392	1.51772	0.00109	-0.02231	0.0153	0.15516	0.0662
NA	avg_0_1_2_3_4_5_6	26	6.88764	2.4998	0.01078	-0.03597	0.02447	0.15408	0.0795
NH4	LAG0	48	3.18751	0.20119	1.78E-20	0.66748	1.62218	0.6826	0.0036
NH4	LAG1	48	2.99011	0.21223	1.72E-18	2.15311	3.33935	0.52221	0.0088
NH4	LAG2	51	3.17798	0.18624	1.71E-22	-0.91983	1.76825	0.60522	0.0054
NH4	LAG3	49	3.61903	0.19878	3.44E-23	-7.7109	2.82239	0.00878	0.1346
NH4	LAG4	49	3.26925	0.2038	6.46E-21	-2.91241	2.48165	0.24635	0.0279
NH4	LAG5	49	3.08507	0.20501	8.42E-20	1.24899	1.7164	0.47034	0.0109
NH4	LAG6	49	3.26609	0.18632	1.68E-22	-1.60109	1.3297	0.23445	0.0293
NH4	avg_0_1	44	3.19342	0.2408	8.58E-17	-1.15439	3.50859	0.74374	0.0025
NH4	avg_0_1_2	42	3.23019	0.26926	5.42E-15	-1.71798	3.94149	0.66522	0.0046
NH4	avg_0_1_2_3	37	3.66748	0.30592	3.95E-14	-9.57853	5.15554	0.07138	0.0875
NH4	avg_0_1_2_3_4	34	3.65887	0.34974	5.17E-12	-10.1666	6.08011	0.10396	0.0781
NH4	avg_0_1_2_3_4_5	29	3.49895	0.42771	6.63E-09	-5.41889	6.58081	0.41722	0.0236
NH4	avg_0_1_2_3_4_5_6	24	3.59263	0.43412	2.39E-08	-8.05441	5.89319	0.18492	0.0751
NO2	LAG0	3	3.87739	0.49237	0.01575	-83.9825	39.3577	0.16645	0.6948
NO2	LAG2	4	3.18507	0.71776	0.02127	-43.3406	63.8921	0.54619	0.133
NO2	LAG3	6	1.92271	3.39287	0.59542	370.066	692.567	0.616	0.054
NO2	LAG4	1	5.68969			-336.472			1
NO2	LAG5	4	4.66009	3.53219	0.27872	-417.528	727.09	0.60603	0.099
NO2	LAG6	4	-2.8468	5.30126	0.62854	960.486	1051.87	0.42851	0.2175
NOX	LAG0	26	2.91813	0.22402	1.21E-12	0.00037	0.00554	0.9479	0.0002
NOX	LAG1	17	3.54292	0.48568	1.80E-06	-29.4783	35.837	0.42285	0.0406
NOX	LAG2	30	3.47976	0.26675	1.16E-13	-3.4327	9.11551	0.70923	0.0049
NOX	LAG3	27	3.44465	0.25286	2.40E-13	0.00325	0.00637	0.61406	0.0099
NOX	LAG4	20	2.94915	0.67304	0.00032	9.66585	59.2796	0.8722	0.0014
NOX	LAG5	26	3.17361	0.50583	1.45E-06	-5.4691	24.7464	0.82688	0.0019
NOX	LAG6	20	3.27044	0.26085	1.23E-10	-0.00466	0.00569	0.42334	0.034
NOX	avg_0_1	12	2.84947	0.35149	5.76E-06	0.00138	0.01207	0.91081	0.0012
NOX	avg_0_1_2	7	3.27821	0.41384	0.00021	-0.00404	0.01672	0.8172	0.0096
NOX	avg_0_1_2_3	3	4.53992	1.41122	0.08455	-54.7026	98.6653	0.63501	0.1332
NOX	avg_0_1_2_3_4	1	5.34746			-81.7659			1
NOX	avg_0_1_2_3_4_5	0	4.48074			0			
NOX	avg_0_1_2_3_4_5_6	0	4.48074			0			
OPO4	LAG0	37	2.75438	0.20276	9.73E-16	5.01516	3.24124	0.13054	0.0624
OPO4	LAG1	29	3.0221	0.27788	1.46E-11	-13.0953	8.46633	0.13315	0.0787
OPO4	LAG2	32	3.3912	0.20333	4.92E-17	-11.7178	2.98752	0.00045	0.3317
OPO4	LAG3	41	3.70695	0.21476	3.88E-20	-28.7377	7.57557	0.00049	0.2646
OPO4	LAG4	31	3.18272	0.26204	4.12E-13	-8.54071	7.85504	0.28557	0.0379
OPO4	LAG5	37	3.05721	0.21828	3.84E-16	-3.47355	2.81511	0.22524	0.0406
OPO4	LAG6	41	3.29024	0.19871	1.67E-19	-8.04312	3.81365	0.04125	0.1001
OPO4	avg_0_1	25	2.67325	0.31874	1.35E-08	3.95674	7.07668	0.58126	0.0129
OPO4	avg_0_1_2	20	3.19972	0.41596	2.99E-07	-11.1919	8.83495	0.22055	0.0779
OPO4	avg_0_1_2_3	19	3.53137	0.46026	4.42E-07	-20.0582	10.5445	0.07326	0.1674
OPO4	avg_0_1_2_3_4	19	3.55714	0.48367	7.95E-07	-22.1825	12.1091	0.08357	0.1571
OPO4	avg_0_1_2_3_4_5	18	3.87816	0.49154	4.41E-07	-30.7938	11.7816	0.01816	0.2867
OPO4	avg_0_1_2_3_4_5_6	15	3.9406	0.53432	3.48E-06	-27.0366	11.6211	0.03552	0.2788
SIO2	LAG0	40	3.82618	1.00055	0.00046	-0.01966	0.04965	0.69435	0.004
SIO2	LAG1	48	3.68934	0.53986	1.46E-08	-0.03312	0.02752	0.23495	0.0299
SIO2	LAG2	52	4.41641	0.4623	5.99E-13	-0.07907	0.02642	0.00425	0.1494
SIO2	LAG3	48	3.46293	0.60265	6.50E-07	-0.00885	0.03226	0.78499	0.0016
SIO2	LAG4	49	2.35608	0.46478	6.36E-06	0.04712	0.0242	0.05741	0.0732

SIO2	LAG5	46	2.74097	0.53657	6.41E-06	0.02485	0.02906	0.39696	0.016
SIO2	LAG6	49	2.96638	0.8793	0.00148	0.00964	0.04285	0.82299	0.0011
SIO2	avg_0_1	36	4.82763	1.01003	3.1E-05	-0.07405	0.04968	0.145	0.0597
SIO2	avg_0_1_2	35	5.41213	0.96069	2.58E-06	-0.11215	0.05059	0.03343	0.1263
SIO2	avg_0_1_2_3	30	6.05523	1.20131	2.3E-05	-0.14204	0.06442	0.03554	0.1436
SIO2	avg_0_1_2_3_4	29	6.04927	1.37834	0.00015	-0.14373	0.07432	0.0633	0.1178
SIO2	avg_0_1_2_3_4_5	23	7.03392	1.93562	0.00147	-0.19621	0.10608	0.07785	0.1346
SIO2	avg_0_1_2_3_4_5_6	19	7.32694	2.51772	0.00934	-0.20931	0.1363	0.14201	0.1158
SO4	LAG0	46	1.68374	0.43525	0.00035	0.02957	0.00753	0.00029	0.2554
SO4	LAG1	48	3.75576	0.3932	1.38E-12	-0.0136	0.0071	0.06172	0.0723
SO4	LAG2	52	3.54122	0.40723	1.21E-11	-0.00909	0.00781	0.25026	0.0258
SO4	LAG3	48	3.34841	0.48363	1.07E-08	-0.00085	0.00861	0.92207	0.0002
SO4	LAG4	49	2.28275	0.37912	2.33E-07	0.01895	0.00711	0.01042	0.129
SO4	LAG5	46	2.47351	0.45263	1.93E-06	0.01377	0.00823	0.10114	0.0586
SO4	LAG6	49	3.26895	0.60798	2.21E-06	-0.00199	0.01072	0.85373	0.0007
SO4	avg_0_1	42	2.97299	0.55665	3.72E-06	0.0045	0.01038	0.66661	0.0046
SO4	avg_0_1_2	41	3.09493	0.62291	1.3E-05	0.00163	0.01205	0.89294	0.0005
SO4	avg_0_1_2_3	36	3.0146	0.88066	0.00159	0.00492	0.0176	0.7813	0.0022
SO4	avg_0_1_2_3_4	35	2.11029	1.0213	0.04649	0.02342	0.02104	0.27358	0.0351
SO4	avg_0_1_2_3_4_5	29	0.97994	1.25037	0.43978	0.0476	0.02587	0.07641	0.1079
SO4	avg_0_1_2_3_4_5_6	25	0.17424	1.61987	0.91523	0.06259	0.03301	0.07003	0.1303
TDKN	LAG0	35	3.18775	0.84948	0.00065	0.01173	0.32895	0.97177	0
TDKN	LAG1	48	4.01589	0.74327	2.13E-06	-0.3841	0.2947	0.1988	0.0349
TDKN	LAG2	47	5.69429	0.63124	9.71E-12	-1.07283	0.26953	0.00024	0.2562
TDKN	LAG3	39	4.3907	0.75189	9.45E-07	-0.56116	0.31204	0.08007	0.0784
TDKN	LAG4	51	3.01061	0.65522	3E-05	0.05729	0.27708	0.83702	0.0009
TDKN	LAG5	42	3.65774	0.74048	1.4E-05	-0.19936	0.29828	0.50765	0.0108
TDKN	LAG6	40	2.79348	1.08539	0.01398	0.17004	0.39627	0.6702	0.0047
TDKN	avg_0_1	35	4.79458	1.15438	0.00021	-0.64091	0.46271	0.17504	0.0534
TDKN	avg_0_1_2	32	6.55187	1.26561	1.3E-05	-1.39437	0.5212	0.01182	0.1876
TDKN	avg_0_1_2_3	21	6.83179	1.6039	0.00038	-1.64819	0.66674	0.02254	0.234
TDKN	avg_0_1_2_3_4	20	6.40068	1.709	0.00137	-1.50521	0.71558	0.04897	0.1889
TDKN	avg_0_1_2_3_4_5	13	5.25907	2.04329	0.02437	-1.0321	0.82105	0.23265	0.1164
TDKN	avg_0_1_2_3_4_5_6	8	8.37527	3.00725	0.0271	-2.09466	1.12736	0.10552	0.3303
TDPO4	LAG0	42	3.12693	0.19597	3.44E-19	1.88341	2.33084	0.42373	0.0157
TDPO4	LAG1	44	3.39491	0.21672	2.22E-19	-17.9707	6.09221	0.00513	0.1683
TDPO4	LAG2	44	3.2999	0.15587	2.29E-24	-8.07819	1.86941	9E-05	0.3028
TDPO4	LAG3	45	3.67183	0.20564	8.86E-22	-18.8598	5.72831	0.00196	0.1977
TDPO4	LAG4	44	3.24835	0.17199	1.94E-22	-4.59386	2.49319	0.07229	0.0732
TDPO4	LAG5	42	3.36407	0.20549	1.38E-19	-3.64681	2.10662	0.09095	0.0681
TDPO4	LAG6	43	3.28541	0.1962	3.37E-20	-7.7584	3.5756	0.03573	0.1008
TDPO4	avg_0_1	35	3.0716	0.23925	1.36E-14	-3.1247	6.37485	0.62717	0.007
TDPO4	avg_0_1_2	30	3.25834	0.23995	4.25E-14	-13.3834	5.01756	0.01238	0.197
TDPO4	avg_0_1_2_3	25	3.37751	0.27557	8.06E-12	-16.7148	7.21881	0.02945	0.1826
TDPO4	avg_0_1_2_3_4	22	3.32419	0.27016	4.58E-11	-15.1569	6.38701	0.02726	0.2115
TDPO4	avg_0_1_2_3_4_5	15	3.52713	0.38135	2.43E-07	-13.5393	6.90801	0.07022	0.2153
TDPO4	avg_0_1_2_3_4_5_6	11	3.43741	0.44119	1.5E-05	-14.242	7.3774	0.08237	0.2715
TDSCU	LAG0	40	3.52396	0.33269	4.89E-13	-0.08871	0.28391	0.75636	0.0025
TDSCU	LAG1	44	3.18912	0.41329	1.20E-09	-0.10994	0.51979	0.83349	0.001
TDSCU	LAG2	50	2.92632	0.21845	5.30E-18	0.12114	0.1267	0.34372	0.0183
TDSCU	LAG3	48	3.52167	0.2772	8.25E-17	-0.22863	0.23794	0.34154	0.0193
TDSCU	LAG4	42	3.97175	0.38794	7.33E-13	-0.85597	0.47727	0.08027	0.0727

TDSCU	LAG5	47	2.9361	0.22561	5.00E-17	0.21442	0.12856	0.10214	0.057
TDSCU	LAG6	46	2.9694	0.29904	6.48E-13	0.18016	0.24649	0.46862	0.0117
TDSCU	avg_0_1	34	3.69097	0.48183	8.08E-09	-0.37823	0.50686	0.46081	0.0166
TDSCU	avg_0_1_2	33	3.30229	0.4394	1.48E-08	0.03048	0.37475	0.93568	0.0002
TDSCU	avg_0_1_2_3	28	3.48023	0.53409	5.49E-07	-0.01706	0.47246	0.97146	0
TDSCU	avg_0_1_2_3_4	23	4.06386	0.58984	6.42E-07	-0.45559	0.53849	0.40664	0.0315
TDSCU	avg_0_1_2_3_4_5	18	3.64536	0.67017	4.4E-05	0.09095	0.5714	0.87541	0.0015
TDSCU	avg_0_1_2_3_4_5_6	12	2.28069	1.04	0.05071	1.27044	0.88011	0.17675	0.1593
TDSFE	LAG0	32	3.51274	0.44008	5.18E-09	-0.02406	0.03851	0.53671	0.0124
TDSFE	LAG1	39	3.83652	0.40105	1.15E-11	-0.06492	0.03112	0.04372	0.1028
TDSFE	LAG2	28	3.49934	0.47486	6.30E-08	-0.0293	0.0389	0.45783	0.0206
TDSFE	LAG3	30	3.78832	0.44554	2.28E-09	-0.05114	0.03716	0.17935	0.0613
TDSFE	LAG4	33	3.32387	0.22478	7.43E-16	-0.0011	0.00734	0.88212	0.0007
TDSFE	LAG5	28	3.43998	0.47975	1.04E-07	-0.01852	0.03801	0.63002	0.0087
TDSFE	LAG6	32	2.61316	0.50085	1.2E-05	0.03671	0.03902	0.35407	0.0278
TDSFE	avg_0_1	30	3.78198	0.64938	2.58E-06	-0.05216	0.06229	0.40923	0.0236
TDSFE	avg_0_1_2	24	3.83353	0.68511	1.1E-05	-0.04907	0.06383	0.44984	0.0251
TDSFE	avg_0_1_2_3	21	3.39039	0.92192	0.00149	-0.00382	0.09338	0.96773	0.0001
TDSFE	avg_0_1_2_3_4	20	3.07264	1.0452	0.00841	0.02461	0.1035	0.81462	0.003
TDSFE	avg_0_1_2_3_4_5	15	3.03746	1.17729	0.02181	0.01788	0.11438	0.87803	0.0017
TDSFE	avg_0_1_2_3_4_5_6	13	1.45939	1.6227	0.38615	0.19358	0.16741	0.27004	0.1003
TDSMN	LAG0	2	2.93999	1.62702	0.32178	0.015	0.57262	0.98333	0.0007
TDSMN	LAG1	2	0.99337	0.14163	0.09016	0.82567	0.05346	0.04116	0.9958
TDSMN	LAG2	5	3.3694	0.61119	0.00528	-0.02344	0.04732	0.64637	0.0578
TDSMN	LAG3	5	3.71549	0.75829	0.00805	-0.10207	0.11637	0.42995	0.1613
TDSMN	LAG4	5	3.60486	0.76365	0.00917	-0.03415	0.04862	0.52112	0.1098
TDSMN	LAG5	2	5.86431	0.52354	0.05668	-0.30126	0.05932	0.12377	0.9627
TDSMN	LAG6	2	4.41543	1.0703	0.1514	-0.09767	0.08262	0.44699	0.5829
TDSMN	avg_0_1	2	1.61167	1.96164	0.56215	0.57605	0.76716	0.58997	0.3605
TDSMN	avg_0_1_2	2	3.11956	1.78737	0.33123	-0.02228	0.23573	0.94	0.0089
TDSMN	avg_0_1_2_3	2	3.73184	2.24575	0.34487	-0.10903	0.29812	0.77679	0.118
TDSMN	avg_0_1_2_3_4	2	5.67413	1.83791	0.19942	-0.35024	0.22917	0.36887	0.7002
TDSZN	LAG0	38	3.56773	0.32412	3.15E-13	-0.07599	0.08575	0.38123	0.0208
TDSZN	LAG1	32	3.20732	0.27017	4.58E-13	-0.0406	0.03968	0.31411	0.0327
TDSZN	LAG2	36	3.59202	0.3475	3.54E-12	-0.10288	0.07991	0.20642	0.0452
TDSZN	LAG3	36	3.4045	0.30867	6.14E-13	-0.05846	0.08302	0.48599	0.014
TDSZN	LAG4	32	3.28026	0.24597	2.21E-14	-0.00414	0.03582	0.90865	0.0004
TDSZN	LAG5	35	3.15534	0.29749	2.53E-12	0.02546	0.06678	0.70535	0.0043
TDSZN	LAG6	30	3.37645	0.36297	3.32E-10	-0.08438	0.087	0.3401	0.0314
TDSZN	avg_0_1	27	3.29707	0.50957	7.40E-07	-0.01523	0.14625	0.91788	0.0004
TDSZN	avg_0_1_2	22	3.87935	0.72093	2.5E-05	-0.17003	0.20324	0.41223	0.0323
TDSZN	avg_0_1_2_3	18	3.52697	0.87947	0.00091	-0.09488	0.24727	0.70596	0.0086
TDSZN	avg_0_1_2_3_4	13	4.30953	1.36266	0.00818	-0.33511	0.38806	0.40477	0.0585
TDSZN	avg_0_1_2_3_4_5	9	5.19817	1.73823	0.01732	-0.65068	0.50526	0.23381	0.1717
TDSZN	avg_0_1_2_3_4_5_6	6	5.48783	2.69794	0.0976	-0.7901	0.72779	0.32719	0.1907
TKN	LAG0	41	3.56586	1.07594	0.00196	-0.10485	0.3994	0.79426	0.0017
TKN	LAG1	41	3.91439	0.69158	1.42E-06	-0.29673	0.27245	0.28262	0.0288
TKN	LAG2	49	6.58757	0.63822	8.89E-14	-1.47025	0.264	1.13E-06	0.3925
TKN	LAG3	43	4.39703	0.78332	1.43E-06	-0.45348	0.30841	0.14892	0.049
TKN	LAG4	44	3.02895	0.67653	5.5E-05	0.02231	0.28509	0.938	0.0001
TKN	LAG5	47	4.15365	0.72143	6.68E-07	-0.41774	0.28188	0.14516	0.0456
TKN	LAG6	45	3.87318	0.94536	0.00018	-0.26156	0.3422	0.44874	0.0131

TKN	avg_0_1	32	5.31074	1.32073	0.00034	-0.75231	0.50128	0.14353	0.0677
TKN	avg_0_1_2	30	6.98384	1.28991	8.03E-06	-1.44764	0.51234	0.00846	0.2159
TKN	avg_0_1_2_3	23	6.40521	1.78825	0.00166	-1.1799	0.71924	0.11512	0.109
TKN	avg_0_1_2_3_4	17	7.50966	2.91142	0.02017	-1.60531	1.12422	0.17254	0.113
TKN	avg_0_1_2_3_4_5	17	7.95011	2.72126	0.00999	-1.77607	1.05009	0.11015	0.1517
TKN	avg_0_1_2_3_4_5_6	16	8.56992	3.1308	0.01527	-2.00109	1.21311	0.11981	0.1535
TPO4	LAG0	49	3.13492	0.2013	2.14E-20	0.33164	2.33726	0.88776	0.0004
TPO4	LAG1	53	3.58213	0.19484	2.09E-24	-13.4837	3.9305	0.00119	0.1846
TPO4	LAG2	46	3.53984	0.17289	1.95E-24	-8.17802	1.94568	0.00012	0.2819
TPO4	LAG3	52	3.86441	0.18379	8.75E-27	-21.0427	4.00775	2.98E-06	0.3509
TPO4	LAG4	54	3.43512	0.17268	3.01E-26	-5.70943	2.27611	0.01522	0.1061
TPO4	LAG5	46	3.40401	0.20097	3.78E-21	-4.07484	1.9801	0.04542	0.086
TPO4	LAG6	51	3.54189	0.18552	1.30E-24	-9.77303	2.89437	0.00143	0.1857
TPO4	avg_0_1	48	3.33284	0.22135	1.32E-19	-5.45274	3.82178	0.16026	0.0415
TPO4	avg_0_1_2	40	3.58335	0.24542	2.14E-17	-11.0858	3.96435	0.00798	0.167
TPO4	avg_0_1_2_3	38	3.7266	0.25273	4.53E-17	-14.642	4.4895	0.00239	0.2233
TPO4	avg_0_1_2_3_4	38	3.79699	0.25542	3.50E-17	-16.2785	4.62473	0.00116	0.2509
TPO4	avg_0_1_2_3_4_5	32	3.91155	0.29858	3.54E-14	-18.2324	5.06751	0.0011	0.2946
TPO4	avg_0_1_2_3_4_5_6	30	3.79442	0.30689	4.37E-13	-16.0462	5.25294	0.0048	0.2434
TSS	LAG0	1	2.21434	0.32727	0.09341	0			0
TSS	LAG1	2	4.14284	0.17238	0.00173	0			0
TSS	LAG2	1	2.5231	0.23056	0.05801	0			0
TSS	LAG3	2	1.71589	4.35434	0.76103	0.17118	0.63515	0.83241	0.0677
TSS	LAG4	3	-8.76849	2.40583	0.06772	2.59247	0.5044	0.03583	0.9296
TSS	LAG5	1	2.03897	0.43757	0.13458	0			0
TSS	LAG6	2	3.74492	1.61659	0.25943	0.02679	0.22862	0.92575	0.0135

UNIVARIATE LAG AVE 0-6
 SURFACE WATER
 LOG Mosquitofish THg vs Y
 POOLED STATIONS

independent	month	df	intercept	se_int	p value	slope	se_slope	p value	r_square
	lag		intercept			slope			
LALGP	LAG0	13	28.3125	17.7731	0.13714	-5.7152	11.6315	0.63204	0.0197
LALGP	LAG1	10	42.4064	28.4515	0.17029	-18.503	16.2393	0.28394	0.1261
LALGP	LAG2	22	25.3012	6.93496	0.0015	-9.9165	5.48145	0.08478	0.1348
LALGP	LAG3	5	15.5995	12.014	0.26393	-4.0773	8.33776	0.65043	0.0564
LALGP	LAG4	22	29.783	6.24667	0.0001	-10.206	3.70264	0.01183	0.2657
LALGP	LAG5	17	40.4507	8.6937	0.00027	-9.9762	6.03742	0.11794	0.1458
LALGP	LAG6	18	32.9756	7.77667	0.00055	-2.943	5.04633	0.56742	0.0196
LALK	LAG0	46	145.722	176.32	0.4129	-18.037	31.8846	0.57441	0.0071
LALK	LAG1	48	402.549	146.531	0.0085	-65.359	26.3566	0.01679	0.1157
LALK	LAG2	53	430.713	129.844	0.00166	-71.34	23.6763	0.00399	0.1486
LALK	LAG3	48	252.234	171.072	0.14703	-37.383	30.8609	0.23183	0.0303
LALK	LAG4	49	31.4695	134.926	0.81657	2.08018	24.4167	0.93246	0.0002
LALK	LAG5	47	75.7041	144.177	0.60205	-5.8871	26.1463	0.82285	0.0011
LALK	LAG6	49	176.105	176.601	0.32367	-24.11	31.6288	0.44963	0.012
LALK	avg_0_1	42	359.239	235.585	0.13497	-56.955	42.4794	0.18738	0.042
LALK	avg_0_1_2	42	520.781	229.228	0.02841	-86.681	41.613	0.04353	0.0957
LALK	avg_0_1_2_3	37	774.09	287.235	0.01063	-131.78	51.996	0.01575	0.1514
LALK	avg_0_1_2_3_4	36	595.636	311.751	0.06427	-99.74	56.5127	0.0863	0.0817
LALK	avg_0_1_2_3_4_5	31	573.484	345.818	0.10767	-95.096	62.6801	0.13969	0.0713
LALK	avg_0_1_2_3_4_5_6	26	546.028	466.609	0.25295	-89.75	84.2156	0.29674	0.0435
LCA	LAG0	46	105.213	160.051	0.51429	-13.597	36.7532	0.71315	0.003
LCA	LAG1	48	394.113	101.281	0.00031	-81.408	23.211	0.00101	0.2074
LCA	LAG2	53	460.753	94.1123	9.91E-06	-98.112	21.9035	4.1E-05	0.2784
LCA	LAG3	48	276.343	137.267	0.04984	-53.045	31.4604	0.09841	0.057
LCA	LAG4	49	38.8815	100.941	0.7018	0.94477	23.3864	0.96794	0
LCA	LAG5	47	71.1224	111.941	0.52834	-6.4465	25.8668	0.8043	0.0013
LCA	LAG6	49	166.643	145.057	0.25633	-28.474	32.9919	0.3924	0.0153
LCA	avg_0_1	42	424.855	167.271	0.01497	-87.797	38.4779	0.02777	0.1127
LCA	avg_0_1_2	42	558.522	158.483	0.00106	-119.46	36.7305	0.00229	0.2051
LCA	avg_0_1_2_3	37	699.848	193.396	0.0009	-151.3	44.7442	0.00175	0.2411
LCA	avg_0_1_2_3_4	36	605.802	222.91	0.01015	-130.05	51.717	0.01666	0.153
LCA	avg_0_1_2_3_4_5	31	567.743	257.89	0.03553	-120.54	59.8916	0.0532	0.119
LCA	avg_0_1_2_3_4_5_6	26	564.081	325.52	0.09544	-119.23	75.2926	0.12587	0.0912
LCL	LAG0	46	-27.177	135.54	0.84199	14.7543	27.27	0.59114	0.0065
LCL	LAG1	48	234.258	140.475	0.10204	-39.551	28.4992	0.17175	0.0394
LCL	LAG2	52	268.052	115.445	0.02427	-46.646	23.5023	0.05257	0.0717
LCL	LAG3	48	29.8068	135.494	0.82683	3.10164	27.3237	0.91011	0.0003
LCL	LAG4	49	-52.306	104.416	0.6187	19.5306	21.3649	0.36521	0.0171
LCL	LAG5	46	34.0524	123.205	0.78352	1.89441	25.2369	0.9405	0.0001
LCL	LAG6	49	352.466	134.182	0.01154	-62.149	26.7944	0.02467	0.1008
LCL	avg_0_1	42	16.0185	193.349	0.93438	5.55781	39.0326	0.88747	0.0005
LCL	avg_0_1_2	41	166.792	214.599	0.4416	-25.132	43.4827	0.56651	0.0083
LCL	avg_0_1_2_3	36	266.185	301.041	0.38261	-44.52	60.7455	0.46851	0.0151
LCL	avg_0_1_2_3_4	35	64.5101	292.91	0.827	-3.9813	59.3393	0.9469	0.0001

LCL	avg_0_1_2_3_4_5	29	117.005	349.878	0.74056	-13.87	70.7367	0.84596	0.0014
LCL	avg_0_1_2_3_4_5_6	25	283.318	583.91	0.63193	-47.076	117.349	0.69185	0.0067
LDOC	LAG0	48	-21.708	105.122	0.83729	17.7262	28.102	0.53124	0.0084
LDOC	LAG1	48	258.799	126.952	0.04714	-59.606	34.4636	0.09028	0.0598
LDOC	LAG2	53	379.609	105.986	0.00075	-93.446	29.1092	0.00228	0.1654
LDOC	LAG3	49	34.6832	111.505	0.75711	2.6449	30.4714	0.93119	0.0002
LDOC	LAG4	51	15.8543	81.573	0.84668	7.00915	22.2427	0.75398	0.002
LDOC	LAG5	49	-24.408	94.364	0.79701	18.2027	25.4972	0.47874	0.0105
LDOC	LAG6	49	-38.716	125.279	0.75863	21.7527	33.891	0.52403	0.0085
LDOC	avg_0_1	44	109.183	146.688	0.46073	-18.174	39.5748	0.64838	0.0049
LDOC	avg_0_1_2	44	340.515	178.738	0.06347	-81.057	48.4798	0.10179	0.061
LDOC	avg_0_1_2_3	39	317.427	227.561	0.17114	-74.252	61.8453	0.23734	0.0365
LDOC	avg_0_1_2_3_4	38	214.302	260.29	0.4156	-46.482	70.8546	0.51587	0.0115
LDOC	avg_0_1_2_3_4_5	33	208.626	319.31	0.51819	-43.978	86.5994	0.61506	0.008
LDOC	avg_0_1_2_3_4_5_6	28	35.7891	386.99	0.927	2.76247	104.64	0.97913	0
LK	LAG0	46	-91.377	62.5327	0.15089	70.028	31.6788	0.03219	0.098
LK	LAG1	48	105.368	46.4629	0.02798	-34.422	24.0416	0.15882	0.0418
LK	LAG2	53	91.6815	39.8388	0.02541	-27.366	20.7896	0.19383	0.0322
LK	LAG3	48	16.2784	54.0632	0.76467	14.6892	27.2722	0.59269	0.0061
LK	LAG4	49	-31.154	39.6384	0.43576	38.8426	20.4964	0.06411	0.0696
LK	LAG5	47	25.074	45.4479	0.58382	9.28729	22.909	0.68706	0.0036
LK	LAG6	49	42.1691	53.6331	0.43558	-0.2905	26.3185	0.99124	0
LK	avg_0_1	42	27.2327	76.9318	0.72516	8.39339	39.4343	0.8325	0.0011
LK	avg_0_1_2	42	66.1295	83.9431	0.43535	-11.799	43.6465	0.78826	0.0018
LK	avg_0_1_2_3	37	45.8904	110.612	0.6807	0.24053	57.3578	0.99668	0
LK	avg_0_1_2_3_4	36	-63.913	123.847	0.60905	57.256	64.589	0.38142	0.022
LK	avg_0_1_2_3_4_5	31	-173.4	165.77	0.30391	115.897	86.2393	0.18906	0.0568
LK	avg_0_1_2_3_4_5_6	26	-306.75	206.879	0.15064	182.081	105.775	0.09753	0.106
LMG	LAG0	46	-51.049	105.176	0.62977	29.5515	31.936	0.35973	0.0187
LMG	LAG1	48	195.78	78.6921	0.01645	-47.973	24.0774	0.05215	0.0779
LMG	LAG2	53	225.587	77.4334	0.00526	-58.384	24.2707	0.01974	0.1001
LMG	LAG3	48	12.8066	99.0628	0.89769	9.87264	30.1505	0.74479	0.0023
LMG	LAG4	49	-48.276	70.4504	0.49648	28.3768	21.8175	0.19959	0.034
LMG	LAG5	47	-10.921	78.3401	0.88974	16.8266	24.2245	0.49079	0.0104
LMG	LAG6	49	100.874	107.292	0.35183	-17.746	32.0511	0.58236	0.0063
LMG	avg_0_1	42	87.0063	121.984	0.47973	-13.287	37.2081	0.72285	0.0031
LMG	avg_0_1_2	42	181.779	129.229	0.16707	-42.812	39.9519	0.29018	0.0272
LMG	avg_0_1_2_3	37	233.579	183.263	0.21063	-57.652	56.3745	0.31329	0.0282
LMG	avg_0_1_2_3_4	36	87.4818	203.907	0.67053	-12.952	63.0261	0.83837	0.0012
LMG	avg_0_1_2_3_4_5	31	37.0233	236.556	0.87668	3.70999	73.1176	0.95987	0.0001
LMG	avg_0_1_2_3_4_5_6	26	-147.79	370.237	0.69316	60.1739	113.22	0.59978	0.0112
LNA	LAG0	46	-57.708	132.827	0.66603	22.6501	28.953	0.43813	0.0134
LNA	LAG1	48	255.601	128.383	0.05232	-47.466	28.1651	0.09857	0.057
LNA	LAG2	53	273.431	101.124	0.00924	-51.738	22.3614	0.02467	0.0933
LNA	LAG3	48	41.8704	134.77	0.75742	0.72038	29.4035	0.98056	0
LNA	LAG4	49	-27.409	105.54	0.7962	15.6092	23.3667	0.50733	0.0092
LNA	LAG5	47	30.342	112.021	0.78771	2.87812	24.8723	0.90838	0.0003
LNA	LAG6	49	349.815	135.447	0.01291	-66.459	29.1722	0.02721	0.0976
LNA	avg_0_1	42	46.9864	182.23	0.79782	-0.7561	39.8137	0.98494	0
LNA	avg_0_1_2	42	216.267	184.198	0.24713	-38.002	40.4899	0.35345	0.021
LNA	avg_0_1_2_3	37	316.532	254.674	0.22194	-59.16	55.7361	0.29556	0.0303
LNA	avg_0_1_2_3_4	36	176.143	267.785	0.51498	-28.677	58.8023	0.62882	0.0067

LNA	avg_0_1_2_3_4_5	31	177.484	300.223	0.55883	-28.239	65.9578	0.67161	0.0061
LNA	avg_0_1_2_3_4_5_6	26	301.269	528.892	0.57402	-54.991	115.217	0.63731	0.009
LNH4	LAG0	48	60.5129	30.0246	0.0496	5.08102	9.25346	0.58554	0.0064
LNH4	LAG1	48	56.8667	47.9835	0.24192	4.97405	13.6272	0.71674	0.0028
LNH4	LAG2	51	49.317	32.8977	0.14014	2.83292	9.80619	0.77386	0.0017
LNH4	LAG3	49	43.2528	38.7258	0.2696	-0.3282	11.4697	0.97729	0
LNH4	LAG4	49	44.7692	34.5115	0.20075	1.08138	9.88892	0.91338	0.0002
LNH4	LAG5	49	62.8512	27.3634	0.02603	6.36576	8.41507	0.45306	0.0118
LNH4	LAG6	49	48.2265	30.9136	0.12532	2.09299	9.50939	0.82673	0.001
LNH4	avg_0_1	44	42.6219	48.7875	0.38718	0.21456	14.3623	0.98815	0
LNH4	avg_0_1_2	42	56.4026	60.0755	0.3533	4.30337	18.0087	0.81233	0.0014
LNH4	avg_0_1_2_3	37	61.0139	71.452	0.3988	4.89659	21.4361	0.82061	0.0014
LNH4	avg_0_1_2_3_4	34	92.9103	81.0518	0.25991	14.8546	24.2629	0.54458	0.0112
LNH4	avg_0_1_2_3_4_5	29	103.771	88.7224	0.25201	17.4986	27.1047	0.5238	0.0147
LNH4	avg_0_1_2_3_4_5_6	24	85.9458	97.8351	0.38877	12.3498	30.2596	0.68695	0.0072
LNO2	LAG0	3	-58.345	86.7121	0.57037	-17.716	17.8259	0.42504	0.3306
LNO2	LAG2	4	-42.213	75.6733	0.61588	-13.12	15.013	0.44649	0.2029
LNO2	LAG3	6	-111.9	799.094	0.8941	-32.492	149.708	0.83676	0.0093
LNO2	LAG4	1	-467.37			-98.591			
LNO2	LAG5	4	-176.54	355.933	0.65397	-37.166	66.4882	0.61518	0.0943
LNO2	LAG6	4	160.095	618.02	0.81236	26.7832	116.431	0.83286	0.0173
LNOX	LAG0	26	25.2024	12.6862	0.05803	-1.9206	3.07662	0.53812	0.0153
LNOX	LAG1	17	-88.771	141.567	0.53946	-29.507	29.8608	0.33778	0.0575
LNOX	LAG2	30	75.4576	56.8724	0.19493	6.41286	13.457	0.63726	0.0078
LNOX	LAG3	27	67.9432	25.1863	0.0121	2.63106	5.60807	0.64287	0.0084
LNOX	LAG4	20	45.3874	134.062	0.73866	0.08011	28.26	0.99777	0
LNOX	LAG5	26	-6.9962	71.2321	0.92254	-12.257	16.5292	0.46529	0.0215
LNOX	LAG6	20	22.3249	26.9573	0.41786	-5.6822	5.8086	0.34025	0.048
LNOX	avg_0_1	12	7.73695	28.706	0.79252	-6.1372	6.92183	0.39425	0.0667
LNOX	avg_0_1_2	7	-3.421	51.1286	0.94883	-10.438	12.0699	0.42037	0.1108
LNOX	avg_0_1_2_3	3	-239.13	211.744	0.37599	-65.573	46.0307	0.29032	0.5036
LNOX	avg_0_1_2_3_4	1	-341.22			-91.52			1
LNOX	avg_0_1_2_3_4_5	0	88.3			0			
LNOX	avg_0_1_2_3_4_5_6	0	88.3			0			
LOPO4	LAG0	37	47.2988	19.9308	0.0231	3.63098	4.30184	0.40421	0.0194
LOPO4	LAG1	29	-33.737	25.59	0.19806	-14.511	5.73494	0.0173	0.1861
LOPO4	LAG2	32	-25.425	19.5544	0.20312	-14.598	4.60419	0.00342	0.2449
LOPO4	LAG3	41	-36.435	22.6021	0.11482	-17.169	4.98226	0.00135	0.2289
LOPO4	LAG4	31	-8.6426	28.9028	0.76698	-9.9256	6.42993	0.13315	0.0736
LOPO4	LAG5	37	-17.044	17.0347	0.32372	-12.109	4.02061	0.00473	0.2012
LOPO4	LAG6	41	-16.982	18.9513	0.37556	-12.158	4.16183	0.00571	0.1758
LOPO4	avg_0_1	25	-2.1161	33.1129	0.94957	-7.8266	7.53527	0.30932	0.043
LOPO4	avg_0_1_2	20	-30.755	36.3888	0.40853	-15.587	8.53667	0.08362	0.1493
LOPO4	avg_0_1_2_3	19	-55.296	34.529	0.12669	-22.246	8.27538	0.01502	0.2865
LOPO4	avg_0_1_2_3_4	19	-57.608	37.5491	0.14237	-22.595	8.93953	0.02107	0.2619
LOPO4	avg_0_1_2_3_4_5	18	-83.511	36.6445	0.03586	-29.266	8.81881	0.00406	0.3931
LOPO4	avg_0_1_2_3_4_5_6	15	-73.831	36.9307	0.06538	-28.078	8.83461	0.00671	0.4191
LSIO2	LAG0	40	74.685	112.975	0.51245	-8.0691	37.979	0.83285	0.0012
LSIO2	LAG1	48	91.359	48.7659	0.06724	-18.145	16.9099	0.28872	0.0239
LSIO2	LAG2	52	126.543	43.3048	0.00517	-31.839	15.6388	0.04697	0.0752
LSIO2	LAG3	48	40.2184	57.657	0.4889	1.74203	20.151	0.93148	0.0002
LSIO2	LAG4	49	-4.3678	40.8786	0.91535	16.879	14.3885	0.24655	0.0279

LSIO2	LAG5	46	-2.6052	50.5953	0.95916	16.4546	17.9626	0.36452	0.0183
LSIO2	LAG6	49	-32.893	84.0422	0.69725	24.9958	28.12	0.37849	0.0162
LSIO2	avg_0_1	36	185.125	107.336	0.0934	-46.263	36.1854	0.20949	0.0446
LSIO2	avg_0_1_2	35	225.144	103.07	0.03593	-61.805	35.7685	0.09308	0.0807
LSIO2	avg_0_1_2_3	30	265.501	142.902	0.07336	-74.716	49.8423	0.14467	0.0719
LSIO2	avg_0_1_2_3_4	29	246.088	160.685	0.13687	-68.481	56.3052	0.23404	0.0502
LSIO2	avg_0_1_2_3_4_5	23	350.391	243.856	0.16482	-103.16	85.6425	0.24119	0.0619
LSIO2	avg_0_1_2_3_4_5_6	19	348.889	326.896	0.29995	-101.13	114.187	0.38748	0.0418
LSO4	LAG0	46	-103.42	53.304	0.05864	38.3101	13.5593	0.00702	0.1507
LSO4	LAG1	48	128.105	44.1995	0.00568	-23.427	11.5624	0.04844	0.0803
LSO4	LAG2	52	87.2704	48.1379	0.07573	-12.748	12.6692	0.31906	0.0195
LSO4	LAG3	48	-4.9954	67.2808	0.94113	12.8657	17.1686	0.45737	0.0118
LSO4	LAG4	49	-24.789	45.7655	0.59056	18.0238	12.0506	0.14129	0.0445
LSO4	LAG5	46	-39.927	51.6739	0.44376	21.7903	13.4085	0.11112	0.0554
LSO4	LAG6	49	14.634	78.4886	0.85288	6.82396	19.8044	0.73192	0.0025
LSO4	avg_0_1	42	37.6848	65.1026	0.56586	1.53523	16.9887	0.92843	0.0002
LSO4	avg_0_1_2	41	49.5347	76.8377	0.52282	-1.77	20.2011	0.93062	0.0002
LSO4	avg_0_1_2_3	36	0.8716	116.734	0.99409	11.8449	30.8002	0.70288	0.0042
LSO4	avg_0_1_2_3_4	35	-80.569	137.434	0.56159	33.4947	36.6253	0.36688	0.024
LSO4	avg_0_1_2_3_4_5	29	-241.76	177.215	0.18336	77.4906	47.2472	0.11217	0.0876
LSO4	avg_0_1_2_3_4_5_6	25	-368.14	217.847	0.104	110.411	57.5713	0.06711	0.1329
LTDKN	LAG0	35	7.19326	33.3487	0.83051	41.5997	36.0417	0.25646	0.0377
LTDKN	LAG1	48	73.3629	25.8873	0.00676	-38.786	28.6752	0.18265	0.0375
LTDKN	LAG2	47	88.7886	23.0726	0.00037	-57.757	27.6266	0.04211	0.0868
LTDKN	LAG3	39	61.656	19.2377	0.00274	-29.96	22.4275	0.18954	0.0449
LTDKN	LAG4	51	28.2658	20.2112	0.16813	16.6605	24.126	0.49304	0.0094
LTDKN	LAG5	42	31.6387	24.6883	0.20721	14.0429	27.8963	0.61738	0.0061
LTDKN	LAG6	40	30.2361	44.3121	0.49905	16.4067	44.6918	0.71552	0.0034
LTDKN	avg_0_1	35	56.6589	45.5822	0.22237	-14.068	51.2877	0.78552	0.0022
LTDKN	avg_0_1_2	32	100.017	51.6103	0.06179	-64.759	60.1131	0.28967	0.0361
LTDKN	avg_0_1_2_3	21	115.934	46.1367	0.02066	-98.117	54.6704	0.08783	0.1387
LTDKN	avg_0_1_2_3_4	20	86.3139	51.2063	0.10822	-65.487	61.4261	0.29973	0.0564
LTDKN	avg_0_1_2_3_4_5	13	56.41	66.7835	0.41482	-30.144	75.9633	0.69847	0.013
LTDKN	avg_0_1_2_3_4_5_6	8	153.87	112.437	0.21346	-123.07	118.305	0.33281	0.1339
LTDPO	LAG0	42	14.5581	19.5894	0.46162	-6.1281	4.53693	0.1842	0.0426
4									
LTDPO	LAG1	44	-63.767	31.3666	0.04826	-24.162	7.38849	0.00212	0.1992
4									
LTDPO	LAG2	44	-26.191	14.8979	0.08586	-14.444	3.53872	0.00019	0.2792
4									
LTDPO	LAG3	45	-38.918	29.3241	0.1913	-19.427	6.7988	0.0065	0.1565
4									
LTDPO	LAG4	44	-6.1526	18.0499	0.73486	-9.8964	4.22725	0.02393	0.113
4									
LTDPO	LAG5	42	-17.522	23.0462	0.45144	-15.477	5.57233	0.00822	0.1584
4									
LTDPO	LAG6	43	-25.203	26.1783	0.34118	-14.845	6.0163	0.01777	0.1266
4									
LTDPO	avg_0_1	35	-37.167	27.758	0.18947	-16.799	6.41213	0.01305	0.168
4									
LTDPO	avg_0_1_2	30	-51.028	25.1983	0.05215	-19.506	5.94163	0.00268	0.2709
4									
LTDPO	avg_0_1_2_3	25	-48.17	29.4331	0.11476	-19.188	6.82826	0.0097	0.2476

4									
4	LTDP0 avg_0_1_2_3_4	22	-16.925	25.2145	0.50939	-10.811	5.942	0.08313	0.1362
4	LTDP0 avg_0_1_2_3_4_5	15	-17.488	30.5531	0.57613	-12.378	7.46129	0.11934	0.1643
4	LTDP0 avg_0_1_2_3_4_5_6	11	-9.6989	34.4929	0.7843	-10.119	8.41394	0.2568	0.1264
4	LTDS0 LAG0	40	49.5056	8.15594	4.14E-07	-8.3785	16.5056	0.61458	0.0066
U									
4	LTDS0 LAG1	44	36.8696	10.5054	0.00107	-9.3744	18.1168	0.6075	0.0062
U									
4	LTDS0 LAG2	50	38.0354	6.66696	6.64E-07	-2.8588	9.65998	0.76853	0.0018
U									
4	LTDS0 LAG3	48	44.304	7.31539	2.21E-07	-4.0185	12.6653	0.75243	0.0021
U									
4	LTDS0 LAG4	42	31.6638	9.92563	0.00273	-35.284	19.3729	0.07586	0.0749
U									
4	LTDS0 LAG5	47	46.8188	6.80656	1.39E-08	22.0409	9.56209	0.02573	0.1035
U									
4	LTDS0 LAG6	46	41.0121	7.33874	1.27E-06	-2.4697	12.5067	0.84435	0.0009
U									
4	LTDS0 avg_0_1	34	39.7031	11.3257	0.00133	-34.495	27.7075	0.22191	0.0449
U									
4	LTDS0 avg_0_1_2	33	40.9817	10.0895	0.00029	-39.04	27.4256	0.16427	0.0596
U									
4	LTDS0 avg_0_1_2_3	28	44.831	12.3265	0.00115	-40.29	37.111	0.28723	0.0418
U									
4	LTDS0 avg_0_1_2_3_4	23	34.7731	14.5167	0.02555	-106.45	54.313	0.06279	0.1487
U									
4	LTDS0 avg_0_1_2_3_4_5	18	59.5657	17.9903	0.00413	-14.118	68.5885	0.83936	0.0025
U									
4	LTDS0 avg_0_1_2_3_4_5_6	12	73.4524	27.3106	0.02105	61.3483	123.182	0.62827	0.0221
U									
4	LTDSF LAG0	32	19.4441	47.2693	0.68365	12.9278	21.1739	0.54595	0.0119
E									
4	LTDSF LAG1	39	60.3377	42.4327	0.16319	-7.8404	17.9293	0.66437	0.005
E									
4	LTDSF LAG2	28	76.311	55.8352	0.18299	-13.274	24.2142	0.58806	0.011
E									
4	LTDSF LAG3	30	69.2277	52.9565	0.2014	-10.052	22.9991	0.6653	0.0065
E									
4	LTDSF LAG4	33	72.488	37.2005	0.06016	-10.768	14.653	0.46779	0.0166
E									
4	LTDSF LAG5	28	25.3901	52.4187	0.63203	10.1102	22.4713	0.65636	0.0074
E									
4	LTDSF LAG6	32	4.84418	52.1639	0.92661	16.0811	21.9924	0.47014	0.017
E									
4	LTDSF avg_0_1	30	-3.2241	66.6513	0.96175	23.4155	29.9363	0.44045	0.0207
E									
4	LTDSF avg_0_1_2	24	15.2205	85.6239	0.86047	16.6683	38.3617	0.66797	0.0081
E									
4	LTDSF avg_0_1_2_3	21	-23.336	101.876	0.82115	35.1174	46.488	0.45881	0.0277
E									
4	LTDSF avg_0_1_2_3_4	20	-26.909	118.847	0.8233	35.8191	53.4391	0.51075	0.0231
E									
4	LTDSF avg_0_1_2_3_4_5	15	-50.091	152.773	0.74785	46.8412	68.8168	0.50718	0.032

E									
LTDSF	avg_0_1_2_3_4_5_6	13	-174.02	185.217	0.36597	106.764	84.5637	0.23074	0.1173
E									
LTDSM	LAG0	2	31.0704	34.4856	0.53314	-2.1747	37.7443	0.96336	0.0033
N									
LTDSM	LAG1	2	-8.6887	16.0587	0.68427	50.457	17.8211	0.21614	0.8891
N									
LTDSM	LAG2	5	49.5916	25.5897	0.12467	-8.5704	13.3959	0.55712	0.0928
N									
LTDSM	LAG3	5	37.6778	33.3109	0.32124	-0.8569	20.7665	0.96907	0.0004
N									
LTDSM	LAG4	5	83.0208	52.6177	0.18975	-20.161	21.895	0.40927	0.1749
N									
LTDSM	LAG5	2	231.906	65.2052	0.17449	-92.129	31.3208	0.20863	0.8964
N									
LTDSM	LAG6	2	102.854	113.437	0.53112	-27.552	50.2937	0.68095	0.2308
N									
LTDSM	avg_0_1	2	13.0811	40.9217	0.80303	24.321	49.2936	0.70821	0.1958
N									
LTDSM	avg_0_1_2	2	27.0803	74.5776	0.77826	2.09243	54.9277	0.97576	0.0014
N									
LTDSM	avg_0_1_2_3	2	55.8429	115.375	0.71303	-17.779	76.7224	0.85503	0.051
N									
LTDSM	avg_0_1_2_3_4	2	172.345	175.37	0.50554	-88.721	108.404	0.56336	0.4011
N									
LTDSZ	LAG0	38	64.3746	14.484	7.7E-05	-17.472	13.1366	0.19166	0.0456
N									
LTDSZ	LAG1	32	47.0277	14.7463	0.00326	-4.39	12.7216	0.73236	0.0038
N									
LTDSZ	LAG2	36	60.5052	16.1695	0.00065	-14.56	12.9412	0.26821	0.0349
N									
LTDSZ	LAG3	36	45.9958	13.948	0.00224	-2.6562	13.1052	0.84056	0.0012
N									
LTDSZ	LAG4	32	53.8079	16.5251	0.00273	-8.3647	13.3949	0.53689	0.0124
N									
LTDSZ	LAG5	35	40.3609	10.582	0.00055	1.66341	9.13477	0.85659	0.001
N									
LTDSZ	LAG6	30	60.308	16.0228	0.00076	-19.209	13.8956	0.1774	0.0618
N									
LTDSZ	avg_0_1	27	64.1607	21.6484	0.00643	-17.475	21.0668	0.41436	0.0258
N									
LTDSZ	avg_0_1_2	22	88.4223	31.0614	0.00966	-37.803	29.4826	0.21374	0.0726
N									
LTDSZ	avg_0_1_2_3	18	73.4287	39.8823	0.08312	-23.138	37.1669	0.54185	0.0223
N									
LTDSZ	avg_0_1_2_3_4	13	117.659	68.8071	0.11297	-61.565	63.9353	0.35459	0.0717
N									
LTDSZ	avg_0_1_2_3_4_5	9	69.6924	40.9915	0.12752	-30.824	39.089	0.4531	0.0721
N									
LTDSZ	avg_0_1_2_3_4_5_6	6	104.564	39.9107	0.0471	-71.133	35.6883	0.10283	0.4428
N									
LTKN	LAG0	41	13.5014	43.6383	0.75863	34.6835	44.7283	0.44265	0.0148
LTKN	LAG1	41	65.3756	26.6	0.01841	-26.205	29.4271	0.37852	0.0194
LTKN	LAG2	49	105.492	23.6698	5E-05	-78.503	27.2725	0.00595	0.1472
LTKN	LAG3	43	62.07	29.4497	0.04107	-17.955	32.365	0.582	0.0073

LTKN	LAG4	44	24.669	21.9722	0.26778	19.9838	26.2643	0.45089	0.0133
LTKN	LAG5	47	43.9579	24.994	0.08527	-3.4594	27.2827	0.89965	0.0003
LTKN	LAG6	45	74.4351	40.291	0.07141	-32.268	40.3942	0.42868	0.0143
LTKN	avg_0_1	32	86.3282	57.0716	0.1405	-39.191	60.5072	0.52194	0.0134
LTKN	avg_0_1_2	30	125.9	56.8742	0.03487	-85.334	63.4728	0.18923	0.0587
LTKN	avg_0_1_2_3	23	109.078	79.7132	0.18501	-59.182	90.4333	0.51962	0.0191
LTKN	avg_0_1_2_3_4	17	175.439	135.136	0.21261	-127.34	145.849	0.39552	0.0455
LTKN	avg_0_1_2_3_4_5	17	162.715	128.976	0.22518	-113.63	139.239	0.42644	0.04
LTKN	avg_0_1_2_3_4_5_6	16	175.643	152.259	0.26672	-124.77	164.757	0.4606	0.0368
LTPO4	LAG0	49	0.51509	23.6471	0.98271	-10.951	6.03786	0.07597	0.0641
LTPO4	LAG1	53	-48.678	23.9356	0.0471	-23.201	6.10568	0.00038	0.2173
LTPO4	LAG2	46	-35.358	22.6041	0.12477	-20.443	5.73917	0.00088	0.2199
LTPO4	LAG3	52	-59.625	24.9479	0.02058	-26.57	6.31467	0.0001	0.2577
LTPO4	LAG4	54	-21.041	23.4079	0.37279	-16.652	5.95956	0.00723	0.1284
LTPO4	LAG5	46	-30.443	19.937	0.13376	-20.022	5.20995	0.00038	0.2471
LTPO4	LAG6	51	-35.352	22.6349	0.12463	-20.114	5.76739	0.00103	0.1957
LTPO4	avg_0_1	48	-40.213	27.3607	0.1483	-21.277	6.96309	0.00369	0.1657
LTPO4	avg_0_1_2	40	-50.028	29.5989	0.09897	-24.461	7.71424	0.00296	0.205
LTPO4	avg_0_1_2_3	38	-54.461	31.4052	0.09122	-25.844	8.12851	0.00298	0.2146
LTPO4	avg_0_1_2_3_4	38	-57.996	32.8543	0.08578	-26.755	8.51364	0.00329	0.2107
LTPO4	avg_0_1_2_3_4_5	32	-76.403	36.0126	0.04197	-32.79	9.56085	0.00173	0.2751
LTPO4	avg_0_1_2_3_4_5_6	30	-73.932	38.7371	0.06626	-31.771	10.1382	0.00393	0.253
LTSS	LAG0	1	9.65	3.05	0.19489	0			0
LTSS	LAG1	2	64.7633	10.1167	0.02354	0			0
LTSS	LAG2	1	12.8	2.9	0.14184	0			0
LTSS	LAG3	2	48.3087	129.023	0.77192	-5.6671	71.3353	0.94953	0.0063
LTSS	LAG4	3	-402.71	244.004	0.24065	294.071	156.749	0.20147	0.6377
LTSS	LAG5	1	8.43	3.47	0.24859	0			0
LTSS	LAG6	2	68.5545	160.167	0.74254	-5.7564	85.6846	0.9573	0.0045

UNIVARIATE LAG AVE 0-6
 SURFACE WATER
 LOG Mosquitofish THg vs LOG Y
 POOLED STATIONS

independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
LALG	LAG0	13	2.5616	0.53094	0.000416	-0.258	0.34747	0.47212	0.0439
LALG	LAG1	10	2.62149	0.51679	0.000669	-0.636	0.29497	0.05944	0.3406
LALG	LAG2	22	2.78553	0.22537	4.22E-11	-0.375	0.17813	0.04748	0.1743
LALG	LAG3	5	2.08532	0.67508	0.036609	-0.1919	0.46851	0.70313	0.0402
LALG	LAG4	22	2.92432	0.17387	1.16E-13	-0.3701	0.10306	0.00172	0.3804
LALG	LAG5	17	3.28772	0.2081	3.50E-11	-0.358	0.14452	0.02477	0.2773
LALG	LAG6	18	2.99942	0.23518	3.94E-10	-0.1846	0.15261	0.24289	0.0793
LALK	LAG0	46	7.1534	4.27789	0.101429	-0.699	0.77359	0.371	0.0178
LALK	LAG1	48	10.7626	3.74974	0.00613	-1.3846	0.67446	0.04567	0.0823
LALK	LAG2	53	13.7209	3.26838	0.000106	-1.9338	0.59597	0.00206	0.1684
LALK	LAG3	48	13.5451	3.82348	0.000907	-1.849	0.68975	0.0101	0.1326
LALK	LAG4	49	4.01253	3.30762	0.231022	-0.1461	0.59856	0.80826	0.0012
LALK	LAG5	47	7.66507	3.505	0.033873	-0.8131	0.63563	0.20726	0.0343
LALK	LAG6	49	9.23315	4.3711	0.039888	-1.0883	0.78285	0.17087	0.0387
LALK	avg_0_1	42	10.0976	5.7099	0.084429	-1.2441	1.02958	0.23383	0.0344
LALK	avg_0_1_2	42	15.4237	5.49702	0.007642	-2.2199	0.99791	0.03168	0.1077
LALK	avg_0_1_2_3	37	23.9372	6.28006	0.00052	-3.7404	1.13683	0.00225	0.2312
LALK	avg_0_1_2_3_4	36	20.422	6.8325	0.005093	-3.1131	1.23856	0.01671	0.1529
LALK	avg_0_1_2_3_4_5	31	20.8012	7.5001	0.009446	-3.1746	1.35941	0.02641	0.1538
LALK	avg_0_1_2_3_4_5_6	26	20.5541	10.1613	0.053915	-3.1275	1.83396	0.10054	0.1042
LCA	LAG0	46	4.26751	3.9076	0.280599	-0.2245	0.89732	0.80358	0.0014
LCA	LAG1	48	10.6459	2.63476	0.000196	-1.7388	0.60382	0.00598	0.15
LCA	LAG2	53	13.7741	2.40306	5.09E-07	-2.482	0.55928	4.7E-05	0.2747
LCA	LAG3	48	11.1535	3.13769	0.000875	-1.8012	0.71913	0.01578	0.1178
LCA	LAG5	47	6.18993	2.73389	0.028324	-0.6953	0.63173	0.27681	0.0257
LCA	LAG6	49	9.51085	3.55149	0.01011	-1.4458	0.80775	0.07978	0.0626
LCA	avg_0_1	42	10.7261	4.12236	0.012841	-1.7325	0.94828	0.07499	0.0753
LCA	avg_0_1_2	42	14.8045	3.88914	0.000462	-2.6916	0.90136	0.00475	0.1786
LCA	avg_0_1_2_3	37	18.7117	4.40222	0.000144	-3.5724	1.0185	0.00123	0.2547
LCA	avg_0_1_2_3_4	36	16.9791	5.01585	0.001769	-3.1862	1.16372	0.00965	0.1764
LCA	avg_0_1_2_3_4_5	31	16.9164	5.72513	0.006037	-3.1659	1.32959	0.02381	0.1589
LCA	avg_0_1_2_3_4_5_6	26	17.5699	7.12796	0.020923	-3.3184	1.64869	0.05503	0.1395
LCL	LAG0	46	2.74392	3.3162	0.412359	0.11018	0.6672	0.86958	0.0006
LCL	LAG1	48	6.85565	3.55764	0.060034	-0.7685	0.72177	0.29245	0.0236
LCL	LAG2	52	11.7628	2.78384	9.86E-05	-1.7651	0.56673	0.00302	0.1598
LCL	LAG3	48	6.15693	3.17519	0.058509	-0.5761	0.64031	0.37282	0.0169
LCL	LAG4	49	2.83682	2.58273	0.277517	0.07578	0.52846	0.88658	0.0004
LCL	LAG5	46	6.42576	2.9997	0.03763	-0.6671	0.61445	0.28343	0.0255
LCL	LAG6	49	11.5333	3.33827	0.001161	-1.6738	0.66661	0.01546	0.1161
LCL	avg_0_1	42	2.39727	4.66717	0.610257	0.16244	0.94219	0.86397	0.0007
LCL	avg_0_1_2	41	8.16669	5.11021	0.117889	-1.012	1.03545	0.33428	0.0233
LCL	avg_0_1_2_3	36	14.0706	6.67589	0.042292	-2.1833	1.34709	0.11404	0.0698
LCL	avg_0_1_2_3_4	35	9.89486	6.53703	0.139352	-1.3517	1.32431	0.31463	0.0297
LCL	avg_0_1_2_3_4_5	29	11.5847	7.71371	0.144335	-1.687	1.55952	0.2886	0.0401
LCL	avg_0_1_2_3_4_5_6	25	18.4061	12.7709	0.162434	-3.0545	2.56657	0.24564	0.0557

LDOC	LAG0	48	2.32718	2.62558	0.379941	0.24223	0.70189	0.73155	0.0025
LDOC	LAG1	48	8.51526	3.19139	0.010431	-1.4796	0.86637	0.09426	0.0584
LDOC	LAG2	53	15.5986	2.39379	2.92E-08	-3.4304	0.65746	#####	0.3436
LDOC	LAG3	49	3.52885	2.69316	0.19633	-0.0722	0.73597	0.92225	0.0002
LDOC	LAG4	51	3.4094	2.05809	0.103867	-0.0732	0.56118	0.89671	0.0003
LDOC	LAG5	49	3.37824	2.396	0.165001	-0.0569	0.6474	0.93037	0.0002
LDOC	LAG6	49	1.00434	3.14171	0.750598	0.58413	0.84991	0.49521	0.0097
LDOC	avg_0_1	44	5.65501	3.6021	0.123764	-0.6792	0.97181	0.48837	0.0112
LDOC	avg_0_1_2	44	13.311	4.27076	0.003254	-2.7607	1.15837	0.02165	0.1167
LDOC	avg_0_1_2_3	39	12.8498	5.23877	0.018876	-2.6216	1.42376	0.0734	0.0819
LDOC	avg_0_1_2_3_4	38	11.9693	5.95987	0.05195	-2.3933	1.62236	0.14862	0.0555
LDOC	avg_0_1_2_3_4_5	33	12.7956	7.28619	0.088633	-2.6016	1.97607	0.19735	0.0514
LDOC	avg_0_1_2_3_4_5_6	28	8.10749	8.88255	0.369456	-1.3452	2.4018	0.58005	0.0115
LK	LAG0	46	-0.0797	1.52458	0.958522	1.71742	0.77235	0.03124	0.099
LK	LAG1	48	5.14516	1.15251	5.01E-05	-1.0838	0.59635	0.07553	0.0657
LK	LAG2	53	5.36209	0.98252	1.36E-06	-1.1807	0.51272	0.02532	0.0925
LK	LAG3	48	3.55462	1.28102	0.0079	-0.1277	0.64621	0.84425	0.0008
LK	LAG4	49	1.03322	0.95648	0.285437	1.13911	0.49458	0.02565	0.0995
LK	LAG5	47	3.20869	1.12572	0.006515	-0.0111	0.56744	0.9845	0
LK	LAG6	49	4.36212	1.33443	0.002	-0.5942	0.65483	0.36872	0.0169
LK	avg_0_1	42	3.44899	1.85785	0.070587	-0.1276	0.95231	0.89409	0.0004
LK	avg_0_1_2	42	5.12644	2.00571	0.014394	-1.005	1.04288	0.34084	0.0222
LK	avg_0_1_2_3	37	5.59687	2.51115	0.03216	-1.2039	1.30215	0.36137	0.0232
LK	avg_0_1_2_3_4	36	2.96036	2.85717	0.307253	0.15374	1.49007	0.91841	0.0003
LK	avg_0_1_2_3_4_5	31	0.9256	3.85402	0.811835	1.23356	2.00499	0.54303	0.0125
LK	avg_0_1_2_3_4_5_6	26	-1.4056	4.83527	0.773687	2.37371	2.47223	0.34617	0.0356
LMG	LAG0	46	1.33278	2.57345	0.607066	0.59586	0.78141	0.44971	0.0128
LMG	LAG1	48	6.47099	1.99751	0.002201	-1.0435	0.61118	0.09434	0.0584
LMG	LAG2	53	8.87841	1.91886	2.5E-05	-1.8082	0.60145	0.00406	0.1481
LMG	LAG3	48	4.65105	2.33541	0.052252	-0.4111	0.7108	0.56579	0.0071
LMG	LAG4	49	1.29359	1.73616	0.45985	0.595	0.53766	0.27396	0.0249
LMG	LAG5	47	3.6913	1.94569	0.064094	-0.1566	0.60165	0.79584	0.0015
LMG	LAG6	49	5.57141	2.67829	0.042868	-0.7216	0.80008	0.37163	0.0167
LMG	avg_0_1	42	3.75175	2.94818	0.210342	-0.1682	0.89927	0.85253	0.0009
LMG	avg_0_1_2	42	7.01364	3.10642	0.029348	-1.1806	0.96037	0.22598	0.0355
LMG	avg_0_1_2_3	37	9.67398	4.13497	0.024972	-1.9683	1.27198	0.13051	0.0624
LMG	avg_0_1_2_3_4	36	6.83285	4.61619	0.147768	-1.107	1.42683	0.44304	0.0169
LMG	avg_0_1_2_3_4_5	31	6.63572	5.3403	0.223651	-1.0341	1.65065	0.53573	0.0129
LMG	avg_0_1_2_3_4_5_6	26	3.09878	8.37841	0.714607	0.0404	2.56215	0.98754	0
LNA	LAG0	46	2.08941	3.25729	0.52448	0.26224	0.71001	0.7136	0.003
LNA	LAG1	48	7.65627	3.25278	0.022817	-1.007	0.71361	0.16478	0.0406
LNA	LAG2	53	10.8883	2.4806	5.59E-05	-1.7193	0.54853	0.00283	0.1589
LNA	LAG3	48	6.49182	3.15066	0.044914	-0.6965	0.6874	0.31614	0.0214
LNA	LAG4	49	2.97734	2.60044	0.257912	0.05082	0.57574	0.93003	0.0002
LNA	LAG5	47	5.84861	2.74211	0.038303	-0.5921	0.60884	0.33586	0.0201
LNA	LAG6	49	11.5218	3.36768	0.001282	-1.8028	0.72532	0.01647	0.114
LNA	avg_0_1	42	3.36118	4.39923	0.449219	-0.035	0.96114	0.97116	0
LNA	avg_0_1_2	42	8.91205	4.40477	0.049598	-1.2564	0.96824	0.20169	0.0394
LNA	avg_0_1_2_3	37	13.9304	5.66916	0.018951	-2.3317	1.24071	0.06832	0.0893
LNA	avg_0_1_2_3_4	36	11.3227	5.9775	0.066484	-1.7726	1.31259	0.18554	0.0495
LNA	avg_0_1_2_3_4_5	31	12.3019	6.64147	0.073848	-1.9803	1.4591	0.18484	0.0578
LNA	avg_0_1_2_3_4_5_6	26	17.5145	11.6094	0.143924	-3.1123	2.52905	0.22992	0.0571

LNH4	LAG0	48	3.13202	0.74995	0.000127	-0.0314	0.23113	0.89236	0.0004
LNH4	LAG1	48	2.69456	1.20577	0.030227	-0.1083	0.34243	0.75318	0.0021
LNH4	LAG2	51	1.97452	0.81302	0.018794	-0.3507	0.24235	0.15406	0.0402
LNH4	LAG3	49	1.97962	0.9162	0.03574	-0.3866	0.27136	0.16074	0.0406
LNH4	LAG4	49	2.12457	0.85536	0.016542	-0.2939	0.2451	0.23631	0.0291
LNH4	LAG5	49	2.88635	0.69402	0.000131	-0.0895	0.21343	0.67696	0.0036
LNH4	LAG6	49	2.81682	0.77445	0.000672	-0.1083	0.23823	0.65151	0.0043
LNH4	avg_0_1	44	2.19706	1.19304	0.072443	-0.2809	0.35121	0.4282	0.0147
LNH4	avg_0_1_2	42	1.61702	1.44323	0.269057	-0.4616	0.43264	0.29229	0.027
LNH4	avg_0_1_2_3	37	0.85633	1.61385	0.598944	-0.7134	0.48417	0.14934	0.0569
LNH4	avg_0_1_2_3_4	34	1.08709	1.8311	0.556772	-0.629	0.54814	0.25944	0.0384
LNH4	avg_0_1_2_3_4_5	29	1.2726	2.00434	0.530634	-0.5938	0.61232	0.34046	0.0325
LNH4	avg_0_1_2_3_4_5_6	24	1.16769	2.1685	0.595421	-0.608	0.6707	0.37409	0.0345
LNO2	LAG0	3	-1.826	2.46113	0.53542	-1.0079	0.50595	0.18459	0.6649
LNO2	LAG2	4	-0.1561	3.58771	0.968029	-0.5935	0.71177	0.46553	0.1882
LNO2	LAG3	6	13.2447	17.8256	0.490885	1.78496	3.33959	0.61591	0.054
LNO2	LAG5	4	-7.1255	19.0816	0.733659	-1.8279	3.56443	0.64345	0.0806
LNO2	LAG6	4	28.5775	26.9638	0.366989	5.01686	5.07981	0.39616	0.2454
LNOX	LAG0	26	2.8965	0.44387	7.78E-07	-0.0068	0.10765	0.94988	0.0002
LNOX	LAG1	17	1.86902	2.78894	0.512316	-0.2885	0.58827	0.63053	0.0148
LNOX	LAG2	30	3.65528	1.10486	0.002512	0.05922	0.26143	0.82237	0.0018
LNOX	LAG3	27	3.97628	0.57049	2.12E-07	0.12505	0.12703	0.33396	0.0359
LNOX	LAG4	20	3.28848	3.1276	0.306246	0.05132	0.65929	0.93877	0.0003
LNOX	LAG5	26	2.13957	1.72611	0.22666	-0.2205	0.40054	0.58682	0.012
LNOX	LAG6	20	2.71282	0.52206	5.14E-05	-0.1256	0.11249	0.27829	0.0615
LNOX	avg_0_1	12	2.64118	0.99949	0.02289	-0.0562	0.24101	0.81984	0.0049
LNOX	avg_0_1_2	7	2.6426	1.46804	0.121937	-0.1468	0.34656	0.68667	0.029
LNOX	avg_0_1_2_3	3	-1.3137	6.21745	0.852233	-1.1213	1.35161	0.49402	0.256
LOPO4	LAG0	37	3.07084	0.7414	0.000199	0.03788	0.16002	0.8142	0.0016
LOPO4	LAG1	29	0.41257	0.92461	0.658878	-0.536	0.20721	0.01518	0.1929
LOPO4	LAG2	32	0.22194	0.64028	0.731214	-0.6702	0.15076	0.0001	0.3893
LOPO4	LAG3	41	0.06361	0.73952	0.931889	-0.6975	0.16302	0.00011	0.314
LOPO4	LAG4	31	1.43078	0.97551	0.152863	-0.358	0.21702	0.1095	0.0831
LOPO4	LAG5	37	1.33635	0.61471	0.036364	-0.3882	0.14509	0.01115	0.1659
LOPO4	LAG6	41	0.92602	0.64697	0.160107	-0.4882	0.14208	0.00139	0.2279
LOPO4	avg_0_1	25	1.49674	1.17499	0.214923	-0.2998	0.26738	0.27329	0.0498
LOPO4	avg_0_1_2	20	0.14509	1.24175	0.908209	-0.6409	0.29131	0.04036	0.2031
LOPO4	avg_0_1_2_3	19	-0.5688	1.19566	0.640008	-0.8365	0.28656	0.00916	0.3213
LOPO4	avg_0_1_2_3_4	19	-0.5838	1.3151	0.662384	-0.8321	0.31309	0.01603	0.2818
LOPO4	avg_0_1_2_3_4_5	18	-1.462	1.28603	0.271371	-1.0494	0.30949	0.00348	0.4034
LOPO4	avg_0_1_2_3_4_5_6	15	-1.0004	1.3621	0.474807	-0.9673	0.32584	0.01016	0.3863
LSIO2	LAG0	40	4.64029	2.6003	0.08212	-0.4056	0.87415	0.6452	0.0055
LSIO2	LAG1	48	4.23428	1.22804	0.001201	-0.4069	0.42583	0.34423	0.0191
LSIO2	LAG2	52	6.10924	1.05933	4.74E-07	-1.0959	0.38256	0.00605	0.1386
LSIO2	LAG3	48	3.77917	1.36086	0.007854	-0.1674	0.47562	0.72644	0.0026
LSIO2	LAG4	49	1.07691	0.96804	0.271479	0.75962	0.34073	0.0305	0.0938
LSIO2	LAG5	46	2.2559	1.25176	0.078218	0.32946	0.44441	0.46233	0.0121
LSIO2	LAG6	49	2.73359	2.12528	0.204534	0.14331	0.71111	0.84114	0.0008
LSIO2	avg_0_1	36	6.51257	2.44946	0.011746	-1.07	0.82576	0.20356	0.0458
LSIO2	avg_0_1_2	35	8.05219	2.30004	0.001318	-1.6468	0.79818	0.04679	0.1113
LSIO2	avg_0_1_2_3	30	9.25008	2.94183	0.003824	-2.0307	1.02607	0.05736	0.119
LSIO2	avg_0_1_2_3_4	29	8.23011	3.33677	0.02003	-1.6915	1.16923	0.15909	0.0695

LSIO2	avg_0_1_2_3_4_5	23	11.3897	4.96129	0.031593	-2.7808	1.74241	0.12477	0.1038
LSIO2	avg_0_1_2_3_4_5_6	19	12.5311	6.61037	0.074177	-3.1628	2.30905	0.18761	0.0944
LSO4	LAG0	46	-1.5676	1.20762	0.200883	1.24518	0.30719	0.0002	0.2675
LSO4	LAG1	48	5.0129	1.12183	4.94E-05	-0.5133	0.29346	0.08679	0.0611
LSO4	LAG2	52	4.46781	1.21706	0.000579	-0.3619	0.32031	0.26385	0.0244
LSO4	LAG3	48	2.60805	1.59619	0.108957	0.17838	0.40731	0.66344	0.0041
LSO4	LAG4	49	1.01355	1.10294	0.362715	0.58347	0.29042	0.05017	0.0776
LSO4	LAG5	46	1.41118	1.28415	0.277646	0.46182	0.33321	0.17259	0.0409
LSO4	LAG6	49	3.66479	1.97062	0.06906	-0.1277	0.49723	0.79844	0.0014
LSO4	avg_0_1	42	2.0938	1.56214	0.187516	0.29097	0.40765	0.47941	0.0123
LSO4	avg_0_1_2	41	2.47158	1.84054	0.18689	0.186	0.48389	0.70272	0.0037
LSO4	avg_0_1_2_3	36	1.36996	2.65016	0.608453	0.49866	0.69924	0.48048	0.0143
LSO4	avg_0_1_2_3_4	35	-0.7544	3.07655	0.807756	1.06284	0.81988	0.20359	0.0471
LSO4	avg_0_1_2_3_4_5	29	-4.5926	3.89953	0.24882	2.09266	1.03965	0.05384	0.1264
LSO4	avg_0_1_2_3_4_5_6	25	-7.1867	4.79846	0.147246	2.75116	1.26811	0.04017	0.164
LTDKN	LAG0	35	2.85944	0.75237	0.000571	0.40016	0.81312	0.62579	0.0071
LTDKN	LAG1	48	3.95469	0.6493	1.96E-07	-1.0117	0.71922	0.16609	0.0404
LTDKN	LAG2	47	4.96409	0.48898	2.52E-13	-2.1517	0.5855	0.00062	0.227
LTDKN	LAG3	39	4.04255	0.62132	1.15E-07	-1.1756	0.72434	0.11286	0.0648
LTDKN	LAG4	51	2.88517	0.5105	7.57E-07	0.32354	0.60938	0.59781	0.0056
LTDKN	LAG5	42	3.45209	0.60109	1.00E-06	-0.325	0.6792	0.63485	0.0056
LTDKN	LAG6	40	2.64483	1.09007	0.019978	0.62198	1.09941	0.57481	0.0081
LTDKN	avg_0_1	35	4.14394	1.00047	0.000215	-1.0624	1.1257	0.35194	0.0255
LTDKN	avg_0_1_2	32	5.66172	1.06788	9.04E-06	-2.9107	1.24382	0.02589	0.1501
LTDKN	avg_0_1_2_3	21	6.18365	1.32681	0.000151	-3.9404	1.57222	0.02095	0.239
LTDKN	avg_0_1_2_3_4	20	5.70442	1.4521	0.000902	-3.4829	1.74191	0.06006	0.1738
LTDKN	avg_0_1_2_3_4_5	13	4.72887	1.86042	0.025851	-2.318	2.11615	0.29484	0.0909
LTDKN	avg_0_1_2_3_4_5_6	8	7.39759	2.90401	0.03825	-4.849	3.05558	0.15655	0.2646
LTDPO4	LAG0	42	2.1981	0.6593	0.001824	-0.2397	0.1527	0.12413	0.0567
LTDPO4	LAG1	44	-0.3505	0.69288	0.615527	-0.7989	0.16321	1.4E-05	0.3579
LTDPO4	LAG2	44	0.17539	0.44709	0.696774	-0.6915	0.1062	#####	0.4965
LTDPO4	LAG3	45	0.86454	0.67698	0.208284	-0.5592	0.15696	0.0009	0.2239
LTDPO4	LAG4	44	1.18639	0.62322	0.063662	-0.4625	0.14596	0.00282	0.1893
LTDPO4	LAG5	42	1.29474	0.51678	0.016295	-0.4794	0.12495	0.00042	0.2642
LTDPO4	LAG6	43	0.8364	0.60313	0.172833	-0.5264	0.13861	0.00046	0.2556
LTDPO4	avg_0_1	35	-0.0694	0.92488	0.940635	-0.7217	0.21365	0.00184	0.2513
LTDPO4	avg_0_1_2	30	-1.0516	0.77951	0.187757	-0.9389	0.1838	1.9E-05	0.4736
LTDPO4	avg_0_1_2_3	25	-0.832	0.89479	0.361733	-0.8966	0.20758	0.00023	0.4374
LTDPO4	avg_0_1_2_3_4	22	-0.1595	0.93939	0.866827	-0.7333	0.22138	0.00331	0.3432
LTDPO4	avg_0_1_2_3_4_5	15	0.02487	1.13444	0.98282	-0.7404	0.27704	0.01821	0.3378
LTDPO4	avg_0_1_2_3_4_5_6	11	-0.0294	1.28912	0.982228	-0.7248	0.31446	0.04388	0.347
LTDSCU	LAG0	40	3.43725	0.18875	1.14E-20	0.00495	0.38199	0.98974	0
LTDSCU	LAG1	44	3.02453	0.25891	6.29E-15	-0.2043	0.4465	0.64954	0.0048
LTDSCU	LAG2	50	3.07609	0.16736	1.25E-23	0.06082	0.24249	0.80301	0.0013
LTDSCU	LAG3	48	3.25639	0.17207	1.27E-23	-0.2193	0.29791	0.46536	0.0114
LTDSCU	LAG4	42	3.03826	0.21654	3.01E-17	-0.8083	0.42264	0.06283	0.0819
LTDSCU	LAG5	47	3.26513	0.17025	1.41E-23	0.48671	0.23917	0.04764	0.0826
LTDSCU	LAG6	46	3.16391	0.1838	2.01E-21	0.08642	0.31323	0.7839	0.0017
LTDSCU	avg_0_1	34	3.20384	0.25595	4.43E-14	-0.6047	0.62616	0.34121	0.0275
LTDSCU	avg_0_1_2	33	3.24061	0.22899	2.53E-15	-0.5237	0.62246	0.40636	0.0216
LTDSCU	avg_0_1_2_3	28	3.398	0.25781	2.82E-13	-0.3433	0.77618	0.66184	0.0072
LTDSCU	avg_0_1_2_3_4	23	3.27827	0.24583	5.11E-12	-1.7444	0.91974	0.07108	0.1405

LTDSKU	avg_0_1_2_3_4_5	18	3.62734	0.28113	3.29E-10	-0.7328	1.07182	0.50336	0.0268
LTDSKU	avg_0_1_2_3_4_5_6	12	3.95842	0.39393	7.04E-07	1.49612	1.77678	0.41769	0.0606
LTDSFE	LAG0	32	3.8124	1.0867	0.001402	-0.2465	0.48678	0.61612	0.0082
LTDSFE	LAG1	39	4.78404	1.0075	2.9E-05	-0.7258	0.4257	0.09639	0.0711
LTDSFE	LAG2	28	4.24655	1.17867	0.001253	-0.469	0.51116	0.36703	0.0302
LTDSFE	LAG3	30	4.3806	1.10598	0.000445	-0.5024	0.48033	0.30425	0.0364
LTDSFE	LAG4	33	3.53643	0.78411	8.2E-05	-0.0936	0.30885	0.76383	0.0029
LTDSFE	LAG5	28	3.15897	1.1165	0.008692	0.03319	0.47863	0.94523	0.0002
LTDSFE	LAG6	32	1.82983	1.27801	0.162211	0.51524	0.53881	0.34634	0.0287
LTDSFE	avg_0_1	30	3.98473	1.52794	0.014246	-0.3238	0.68627	0.64059	0.0076
LTDSFE	avg_0_1_2	24	4.101	1.76022	0.028953	-0.3435	0.78862	0.66724	0.0082
LTDSFE	avg_0_1_2_3	21	2.94224	2.03172	0.163071	0.18963	0.92711	0.84	0.0021
LTDSFE	avg_0_1_2_3_4	20	2.35936	2.32958	0.323887	0.43152	1.04748	0.68498	0.0089
LTDSFE	avg_0_1_2_3_4_5	15	2.04151	2.93378	0.497904	0.53153	1.32153	0.69361	0.0114
LTDSFE	avg_0_1_2_3_4_5_6	13	-0.6855	3.59739	0.852053	1.82287	1.64245	0.28881	0.0931
LTDSMN	LAG0	2	2.82187	1.22403	0.260551	0.25153	1.33969	0.88185	0.0341
LTDSMN	LAG1	2	1.51214	0.16729	0.070144	1.92037	0.18565	0.06135	0.9907
LTDSMN	LAG2	5	3.41066	0.77548	0.011708	-0.1576	0.40596	0.71759	0.0363
LTDSMN	LAG3	5	3.34612	0.97443	0.02644	-0.1258	0.60747	0.84609	0.0106
LTDSMN	LAG4	5	4.46087	1.56496	0.046374	-0.5594	0.6512	0.43878	0.1557
LTDSMN	LAG5	2	8.421	0.33565	0.025361	-2.469	0.16122	0.04151	0.9958
LTDSMN	LAG6	2	5.54719	2.37554	0.257585	-1.0084	1.05323	0.51384	0.4783
LTDSMN	avg_0_1	2	2.09859	1.25675	0.343505	1.27897	1.51386	0.55342	0.4165
LTDSMN	avg_0_1_2	2	2.2741	2.58509	0.540689	0.55001	1.90396	0.82097	0.077
LTDSMN	avg_0_1_2_3	2	2.91068	4.26947	0.619068	0.04381	2.83913	0.99018	0.0002
LTDSMN	avg_0_1_2_3_4	2	6.45263	7.38274	0.542733	-2.1637	4.56359	0.71815	0.1835
LTDSZN	LAG0	38	3.62899	0.34098	8.17E-13	-0.3205	0.30926	0.30671	0.0282
LTDSZN	LAG1	32	3.08581	0.35889	1.04E-09	-0.0304	0.30961	0.92248	0.0003
LTDSZN	LAG2	36	3.70487	0.37494	1.16E-11	-0.4514	0.30008	0.14151	0.0607
LTDSZN	LAG3	36	3.39958	0.31805	1.44E-12	-0.1951	0.29884	0.51813	0.012
LTDSZN	LAG4	32	3.45744	0.35848	7.55E-11	-0.1892	0.29057	0.51975	0.0135
LTDSZN	LAG5	35	3.3058	0.35261	5.93E-11	-0.0684	0.30438	0.82345	0.0015
LTDSZN	LAG6	30	3.59006	0.38519	3.18E-10	-0.5173	0.33405	0.13232	0.0764
LTDSZN	avg_0_1	27	3.29785	0.49389	4.39E-07	-0.053	0.48063	0.91302	0.0005
LTDSZN	avg_0_1_2	22	3.92881	0.67246	8.46E-06	-0.6301	0.63828	0.33478	0.0444
LTDSZN	avg_0_1_2_3	18	3.59654	0.86171	0.000637	-0.3851	0.80304	0.63762	0.0134
LTDSZN	avg_0_1_2_3_4	13	4.25824	1.41151	0.010726	-1.0408	1.31157	0.44287	0.0499
LTDSZN	avg_0_1_2_3_4_5	9	4.66144	1.62411	0.020824	-1.6178	1.54873	0.32674	0.12
LTDSZN	avg_0_1_2_3_4_5_6	6	5.97794	2.61359	0.070892	-3.065	2.33708	0.24669	0.2559
LTKN	LAG0	41	3.20026	1.08175	0.005172	0.09107	1.10877	0.93495	0.0002
LTKN	LAG1	41	3.80789	0.60126	1.61E-07	-0.7194	0.66516	0.28593	0.0284
LTKN	LAG2	49	5.61946	0.51565	1.41E-14	-2.9979	0.59413	#####	0.3466
LTKN	LAG3	43	4.11899	0.69506	5.07E-07	-0.9595	0.76386	0.21599	0.0362
LTKN	LAG4	44	2.84929	0.54447	4.70E-06	0.29225	0.65082	0.65565	0.0047
LTKN	LAG5	47	3.82392	0.61937	1.59E-07	-0.8057	0.67609	0.23946	0.03
LTKN	LAG6	45	3.84538	1.00945	0.000429	-0.6945	1.01203	0.49615	0.0106
LTKN	avg_0_1	32	4.84885	1.22071	0.000395	-1.6098	1.29419	0.22288	0.0475
LTKN	avg_0_1_2	30	6.21084	1.11252	5.03E-06	-3.2092	1.24159	0.01504	0.1872
LTKN	avg_0_1_2_3	23	5.68326	1.54629	0.001327	-2.5102	1.75425	0.16651	0.0851
LTKN	avg_0_1_2_3_4	17	6.47512	2.6234	0.025235	-3.3693	2.83136	0.25141	0.0813
LTKN	avg_0_1_2_3_4_5	17	6.80101	2.45756	0.013734	-3.7273	2.65312	0.17918	0.1098
LTKN	avg_0_1_2_3_4_5_6	16	7.40629	2.88871	0.021595	-4.3279	3.12584	0.18644	0.1133

LTPO4	LAG0	49	1.91354	0.59661	0.002387	-0.3282	0.15233	0.03628	0.0882
LTPO4	LAG1	53	0.19689	0.54832	0.720997	-0.7676	0.13987	#####	0.3668
LTPO4	LAG2	46	0.55918	0.48223	0.252342	-0.686	0.12244	#####	0.4109
LTPO4	LAG3	52	-0.2283	0.54774	0.678583	-0.8874	0.13864	#####	0.4455
LTPO4	LAG4	54	1.18342	0.55835	0.038749	-0.5317	0.14215	0.00045	0.2088
LTPO4	LAG5	46	1.14422	0.48008	0.021434	-0.557	0.12545	5.8E-05	0.3046
LTPO4	LAG6	51	0.57339	0.51073	0.266938	-0.6802	0.13014	#####	0.3533
LTPO4	avg_0_1	48	0.48735	0.65106	0.457862	-0.6899	0.16569	0.00013	0.2695
LTPO4	avg_0_1_2	40	0.24205	0.65884	0.715313	-0.7663	0.17171	6.7E-05	0.338
LTPO4	avg_0_1_2_3	38	0.00836	0.68624	0.990342	-0.8311	0.17762	3.8E-05	0.3718
LTPO4	avg_0_1_2_3_4	38	-0.0856	0.72247	0.906294	-0.8552	0.18722	5.3E-05	0.3606
LTPO4	avg_0_1_2_3_4_5	32	-0.4751	0.79268	0.553283	-0.972	0.21045	6.4E-05	0.4076
LTPO4	avg_0_1_2_3_4_5_6	30	-0.4291	0.83182	0.609834	-0.9481	0.2177	0.00015	0.3954
LTSS	LAG3	2	1.37191	7.86956	0.890122	0.80862	4.35099	0.88302	0.0334
LTSS	LAG4	3	-14.505	3.51869	0.054118	11.618	2.26042	0.03583	0.9296
LTSS	LAG6	2	3.56788	3.0827	0.453639	0.19322	1.64915	0.92575	0.0135

SURFACE WATER
 SPEARMAN
 CO-CORRELATION
 BY STATION

Station	var1	var2	corr	n	pvalue	l95	u95
F1	AGP	ALK	0.135459	46	0.369402	-0.16118	0.409653
F1	AGP	CA	0.158998	46	0.291227	-0.13766	0.429478
F1	AGP	CL	-0.17649	45	0.246139	-0.44688	0.123439
F1	AGP	K	0.19089	46	0.203809	-0.10525	0.455928
F1	AGP	MG	0.057176	46	0.705857	-0.23706	0.341806
F1	AGP	NA	-0.11702	46	0.438642	-0.39394	0.179377
F1	AGP	NOX	-0.11002	24	0.608809	-0.49161	0.307009
F1	AGP	OPO4	0.610754	43	1.36E-05	0.380138	0.769878
F1	AGP	PH	0.463817	6	0.354164	-0.55767	0.926597
F1	AGP	SIO2	0.223327	45	0.140304	-0.07514	0.485067
F1	AGP	SO4	0.048437	46	0.749222	-0.24532	0.334043
F1	AGP	TDKN	-0.13876	45	0.363323	-0.41538	0.16135
F1	AGP	TDPO4	0.659876	44	1.10E-06	0.451429	0.80003
F1	AGP	TKN	0.248535	43	0.108041	-0.05599	0.510758
F1	AGP	TOTN	0.4	4	0.6	-0.91151	0.983137
F1	AGP	TPO4	0.668523	44	7.07E-07	0.463662	0.805531
F1	AGP	TSS	-0.123	25	0.558046	-0.49412	0.286039
F1	AGP	NH4	0.567822	40	0.000133	0.311388	0.747173
F1	AGP	NO2	0.258492	10	0.47084	-0.44329	0.763812
F1	AGP	DOC	-0.02586	39	0.875806	-0.33862	0.292042
F1	AGP	TDSFE	0.018371	35	0.91658	-0.31682	0.349483
F1	AGP	TDSCU	-0.39231	18	0.107336	-0.72618	0.091284
F1	AGP	TDSZN	-0.13349	14	0.64914	-0.62015	0.427366
F1	AGP	TDSMN	0.2	4	0.8	-0.9422	0.973891
F1	ALK	CA	0.860326	75	0	0.787041	0.909666
F1	ALK	CL	0.635815	73	1.51E-09	0.475267	0.755386
F1	ALK	K	0.252202	75	0.029046	0.026768	0.453224
F1	ALK	MG	0.873863	75	0	0.806944	0.91863
F1	ALK	NA	0.711015	75	8.85E-13	0.577195	0.807646
F1	ALK	NOX	0.026177	33	0.885026	-0.32001	0.366201
F1	ALK	OPO4	0.230095	70	0.055333	-0.00516	0.441218
F1	ALK	PH	0.376851	6	0.461483	-0.62625	0.91008
F1	ALK	SIO2	0.631768	74	1.58E-09	0.471303	0.751748
F1	ALK	SO4	0.264266	75	0.02196	0.03968	0.463435
F1	ALK	TDKN	0.650339	72	6.30E-10	0.492934	0.766523
F1	ALK	TDPO4	0.156548	69	0.198945	-0.08322	0.379183
F1	ALK	TKN	0.543203	71	9.85E-07	0.354868	0.68917
F1	ALK	TPO4	0.073684	72	0.538475	-0.16073	0.300231
F1	ALK	TSS	-0.06768	29	0.727213	-0.42368	0.306433
F1	ALK	NH4	0.20947	69	0.084092	-0.02863	0.42508
F1	ALK	NO2	-0.11522	11	0.735861	-0.66887	0.520651
F1	ALK	DOC	0.698422	67	5.01E-11	0.55058	0.803784
F1	ALK	TDSFE	-0.27973	58	0.033452	-0.50177	-0.0231
F1	ALK	TDSCU	0.081348	36	0.637178	-0.25398	0.39922
F1	ALK	TDSZN	0.059436	29	0.759403	-0.31391	0.416867

F1	ALK	TDSMN	-0.7	5	0.18812	-0.97817	0.476641
F1	CA	CL	0.482695	73	1.53E-05	0.284183	0.641522
F1	CA	K	0.324254	75	0.004539	0.105017	0.513434
F1	CA	MG	0.910715	75	0	0.861907	0.942803
F1	CA	NA	0.570293	75	9.24E-08	0.394374	0.705891
F1	CA	NOX	0.128043	33	0.477631	-0.22517	0.45151
F1	CA	OPO4	0.282856	70	0.017663	0.051287	0.485562
F1	CA	PH	0.231908	6	0.658374	-0.71405	0.878193
F1	CA	SIO2	0.644563	74	5.75E-10	0.487923	0.760984
F1	CA	SO4	0.493174	75	6.95E-06	0.299761	0.647646
F1	CA	TDKN	0.585779	72	6.47E-08	0.409707	0.719772
F1	CA	TDPO4	0.216132	69	0.074477	-0.02166	0.43078
F1	CA	TKN	0.479746	71	2.30E-05	0.277498	0.641277
F1	CA	TOTN	0.4	4	0.6	-0.91151	0.983137
F1	CA	TPO4	0.041242	72	0.730866	-0.19227	0.270332
F1	CA	TSS	-0.06844	29	0.724276	-0.42431	0.305743
F1	CA	NH4	0.214688	69	0.076482	-0.02317	0.429547
F1	CA	NO2	-0.06236	11	0.85547	-0.63836	0.558413
F1	CA	DOC	0.698473	67	4.99E-11	0.550649	0.803819
F1	CA	TDSFE	-0.23558	58	0.075045	-0.46555	0.024196
F1	CA	TDSCU	0.194191	36	0.256431	-0.14351	0.491382
F1	CA	TDSZN	0.041352	29	0.831339	-0.33016	0.401775
F1	CA	TDSMN	-0.8	5	0.104088	-0.9862	0.279664
F1	CL	K	0.098054	73	0.409197	-0.13506	0.320886
F1	CL	MG	0.629891	73	2.37E-09	0.467581	0.751111
F1	CL	NA	0.903014	73	0	0.849415	0.938173
F1	CL	NOX	-0.11227	32	0.540698	-0.4436	0.246064
F1	CL	OPO4	-0.0329	68	0.789956	-0.26922	0.207151
F1	CL	PH	0.872082	5	0.053854	-0.04419	0.991489
F1	CL	SIO2	0.535508	72	1.25E-06	0.346869	0.682507
F1	CL	SO4	0.020438	73	0.863734	-0.21062	0.249336
F1	CL	TDKN	0.597142	70	4.86E-08	0.421275	0.729728
F1	CL	TDPO4	-0.04551	68	0.712483	-0.28089	0.195035
F1	CL	TKN	0.417953	69	0.000352	0.201168	0.595708
F1	CL	TPO4	-0.09266	71	0.442152	-0.31907	0.143756
F1	CL	TSS	-0.31964	27	0.10411	-0.62388	0.068733
F1	CL	NH4	0.123006	68	0.317634	-0.11891	0.351137
F1	CL	NO2	-0.26159	11	0.437159	-0.74462	0.401265
F1	CL	DOC	0.559031	66	1.07E-06	0.366596	0.705596
F1	CL	TDSFE	-0.45233	57	0.000412	-0.63773	-0.21738
F1	CL	TDSCU	0.113554	36	0.509628	-0.22332	0.426195
F1	CL	TDSZN	0.394053	29	0.034419	0.03219	0.664582
F1	CL	TDSMN	-0.15811	5	0.799525	-0.91302	0.841555
F1	K	MG	0.38289	75	0.000698	0.170764	0.561095
F1	K	NA	0.167672	75	0.150464	-0.06164	0.38017
F1	K	NOX	-0.04162	33	0.818124	-0.37951	0.30607
F1	K	OPO4	0.210185	70	0.080734	-0.02608	0.424212
F1	K	PH	0.376851	6	0.461483	-0.62625	0.91008
F1	K	SIO2	0.324738	74	0.004759	0.103948	0.515024
F1	K	SO4	0.382912	75	0.000697	0.170789	0.561112
F1	K	TDKN	0.254115	72	0.031241	0.023846	0.458779
F1	K	TDPO4	0.196526	69	0.105562	-0.04212	0.413956

F1	K	TKN	0.186228	71	0.119954	-0.04922	0.402066
F1	K	TOTN	0.4	4	0.6	-0.91151	0.983137
F1	K	TPO4	0.116408	72	0.330163	-0.11846	0.33894
F1	K	TSS	-0.2437	29	0.202679	-0.56018	0.134856
F1	K	NH4	0.134715	69	0.269757	-0.10533	0.359924
F1	K	NO2	0.129045	11	0.705322	-0.51035	0.676555
F1	K	SCOND		1			
F1	K	DOC	0.085276	67	0.492631	-0.15818	0.318955
F1	K	TDSFE	-0.26801	58	0.041946	-0.49224	-0.01043
F1	K	TDSCU	-0.26508	36	0.118189	-0.54606	0.06952
F1	K	TDSZN	0.087647	29	0.651196	-0.28812	0.440023
F1	K	TDSMN	0.6	5	0.284757	-0.59977	0.969209
F1	MG	NA	0.726772	75	1.57E-13	0.598536	0.818693
F1	MG	NOX	0.026764	33	0.882464	-0.31949	0.366709
F1	MG	OPO4	0.13957	70	0.249176	-0.09864	0.362655
F1	MG	PH	0.695725	6	0.124789	-0.26608	0.963356
F1	MG	SIO2	0.719026	74	5.39E-13	0.586961	0.813819
F1	MG	SO4	0.459642	75	3.35E-05	0.259777	0.621746
F1	MG	TDKN	0.661349	72	2.56E-10	0.507421	0.774374
F1	MG	TDPO4	0.061726	69	0.61437	-0.17755	0.294114
F1	MG	TKN	0.544254	71	9.30E-07	0.356173	0.689953
F1	MG	TOTN	0.8	4	0.2	-0.69697	0.995601
F1	MG	TPO4	-0.0221	72	0.853828	-0.25248	0.210654
F1	MG	TSS	-0.15736	29	0.414933	-0.49531	0.221951
F1	MG	NH4	0.113598	69	0.352685	-0.12649	0.341112
F1	MG	NO2	0.069289	11	0.839582	-0.55361	0.642468
F1	MG	DOC	0.740151	67	8.26E-13	0.608044	0.832373
F1	MG	TDSFE	-0.26245	58	0.04656	-0.48769	-0.00445
F1	MG	TDSCU	0.213789	36	0.21057	-0.12342	0.506738
F1	MG	TDSZN	0.055453	29	0.775102	-0.31751	0.41356
F1	NA	NOX	-0.11847	33	0.511425	-0.44373	0.23438
F1	NA	OPO4	0.018914	70	0.876499	-0.21703	0.252769
F1	NA	PH	0.20292	6	0.699798	-0.72864	0.871042
F1	NA	SIO2	0.56415	74	1.65E-07	0.385318	0.70214
F1	NA	SO4	0.027607	75	0.814124	-0.20062	0.252987
F1	NA	TDKN	0.668711	72	1.37E-10	0.517158	0.779606
F1	NA	TDPO4	-0.00081	69	0.994708	-0.23745	0.235917
F1	NA	TKN	0.523035	71	2.88E-06	0.329997	0.674086
F1	NA	TOTN	0.2	4	0.8	-0.9422	0.973891
F1	NA	TPO4	-0.01386	72	0.908036	-0.24474	0.218518
F1	NA	TSS	-0.11555	29	0.550593	-0.46247	0.262063
F1	NA	NH4	0.138175	69	0.257534	-0.10184	0.362989
F1	NA	NO2	-0.24426	11	0.469157	-0.73626	0.416675
F1	NA	DOC	0.659239	67	1.31E-09	0.497867	0.776489
F1	NA	TDSFE	-0.38997	58	0.002478	-0.58894	-0.14641
F1	NA	TDSCU	0.069326	36	0.687859	-0.26526	0.389007
F1	NA	TDSZN	0.356732	29	0.057486	-0.01125	0.639616
F1	NA	TDSMN	-0.3	5	0.623838	-0.93484	0.791864
F1	NOX	OPO4	-0.09746	31	0.60197	-0.43672	0.266077
F1	NOX	PH	-0.27941	6	0.591789	-0.88932	0.688218
F1	NOX	SIO2	-0.02216	32	0.904186	-0.36801	0.329084
F1	NOX	SO4	0.334287	33	0.05725	-0.0102	0.607842

F1	NOX	TDKN	-0.00253	34	0.98865	-0.34041	0.335925
F1	NOX	TDPO4	-0.1869	31	0.314054	-0.50763	0.179323
F1	NOX	TKN	-0.10364	37	0.541581	-0.41377	0.228043
F1	NOX	TOTN	-0.21082	4	0.789181	-0.97447	0.940915
F1	NOX	TPO4	-0.04956	34	0.780768	-0.38134	0.293535
F1	NOX	TSS	0.24279	15	0.383265	-0.30776	0.671538
F1	NOX	NH4	-0.39141	32	0.026739	-0.65123	-0.04946
F1	NOX	NO2	0.574099	11	0.064752	-0.03933	0.873244
F1	NOX	SCOND		1			
F1	NOX	DOC	0.054051	30	0.776658	-0.31231	0.406412
F1	NOX	TDSFE	-0.03784	24	0.860656	-0.43461	0.371231
F1	NOX	TDSCU	0.300193	15	0.276992	-0.25062	0.704175
F1	NOX	TDSZN	-0.24826	13	0.413452	-0.70308	0.350709
F1	OPO4	PH	-0.34786	6	0.499253	-0.90417	0.646113
F1	OPO4	SIO2	0.132378	70	0.274646	-0.10589	0.356274
F1	OPO4	SO4	0.015153	70	0.900919	-0.22061	0.249243
F1	OPO4	TDKN	0.268205	69	0.025869	0.033656	0.474752
F1	OPO4	TDPO4	0.891311	67	0	0.828479	0.931982
F1	OPO4	TKN	0.296868	68	0.013958	0.062891	0.499913
F1	OPO4	TOTN	0.4	4	0.6	-0.91151	0.983137
F1	OPO4	TPO4	0.783686	72	4.44E-16	0.674469	0.859338
F1	OPO4	TSS	-0.23576	29	0.218246	-0.55437	0.143119
F1	OPO4	NH4	0.475152	66	5.55E-05	0.263408	0.643216
F1	OPO4	NO2	-0.2627	11	0.43514	-0.74515	0.400262
F1	OPO4	DOC	0.238342	65	0.055883	-0.0059	0.455752
F1	OPO4	TDSFE	0.140238	53	0.316555	-0.13518	0.395543
F1	OPO4	TDSCU	-0.19132	33	0.286167	-0.50168	0.162679
F1	OPO4	TDSZN	0.141585	25	0.499615	-0.26858	0.508286
F1	OPO4	TDSMN	0.564288	5	0.321723	-0.63325	0.965754
F1	PH	SIO2	0.666737	6	0.14809	-0.31561	0.959252
F1	PH	SO4	0.318874	6	0.537901	-0.66471	0.89804
F1	PH	TDKN	0.695725	6	0.124789	-0.26608	0.963356
F1	PH	TDPO4	-0.05798	6	0.913132	-0.83047	0.7908
F1	PH	TKN	0.492805	6	0.320633	-0.53122	0.931732
F1	PH	TOTN	0.8	4	0.2	-0.69697	0.995601
F1	PH	TPO4	-0.49281	6	0.320633	-0.93173	0.531223
F1	PH	TSS	-0.61559	5	0.268998	-0.97067	0.583703
F1	SIO2	SO4	0.254099	74	0.028917	0.027174	0.456118
F1	SIO2	TDKN	0.725016	71	8.72E-13	0.591815	0.819674
F1	SIO2	TDPO4	0.039798	68	0.747282	-0.20053	0.275612
F1	SIO2	TKN	0.702109	70	1.27E-11	0.559425	0.80438
F1	SIO2	TPO4	0.044628	71	0.711714	-0.19066	0.275072
F1	SIO2	TSS	-0.13224	29	0.494082	-0.4757	0.246203
F1	SIO2	NH4	0.149561	68	0.223489	-0.09215	0.374631
F1	SIO2	NO2	-0.00231	11	0.994623	-0.60136	0.598403
F1	SIO2	DOC	0.678536	66	3.84E-10	0.522273	0.790714
F1	SIO2	TDSFE	-0.15256	57	0.257258	-0.39733	0.112489
F1	SIO2	TDSCU	0.285521	36	0.09141	-0.04747	0.5614
F1	SIO2	TDSZN	-0.0285	28	0.885546	-0.39735	0.34829
F1	SIO2	TDSMN	-0.8	5	0.104088	-0.9862	0.279664
F1	SO4	TDKN	0.079806	72	0.505164	-0.15473	0.305824
F1	SO4	TDPO4	-0.1228	69	0.314775	-0.34933	0.117291

F1	SO4	TKN	-0.03307	71	0.784255	-0.26434	0.201795
F1	SO4	TOTN	0.8	4	0.2	-0.69697	0.995601
F1	SO4	TPO4	-0.15805	72	0.184838	-0.37596	0.076418
F1	SO4	TSS	0.197109	29	0.305424	-0.18259	0.525646
F1	SO4	NH4	-0.36869	69	0.001825	-0.55679	-0.14463
F1	SO4	NO2	0.249439	11	0.459486	-0.41211	0.738776
F1	SO4	DOC	0.082397	67	0.507403	-0.161	0.316349
F1	SO4	TDSFE	0.170281	58	0.201268	-0.09207	0.410525
F1	SO4	TDSCU	0.423223	36	0.010116	0.109972	0.659994
F1	SO4	TDSZN	-0.23118	29	0.22758	-0.55101	0.147859
F1	SO4	TDSMN	-0.9	5	0.037386	-0.99344	-0.08608
F1	TDKN	TDPO4	0.178033	67	0.149477	-0.06496	0.401093
F1	TDKN	TKN	0.778712	72	8.88E-16	0.667452	0.855964
F1	TDKN	TPO4	0.123183	71	0.306102	-0.11338	0.346531
F1	TDKN	TSS	-0.09685	28	0.623943	-0.45354	0.286589
F1	TDKN	NH4	0.143669	70	0.235409	-0.0945	0.366281
F1	TDKN	NO2	-0.11694	10	0.74767	-0.69537	0.553446
F1	TDKN	DOC	0.760576	69	3.42E-14	0.638905	0.845124
F1	TDKN	TDSFE	-0.09199	56	0.500103	-0.34652	0.175147
F1	TDKN	TDSCU	0.239216	34	0.173021	-0.10767	0.534175
F1	TDKN	TDSZN	0.013237	27	0.947753	-0.36864	0.391289
F1	TDKN	TDSMN	-0.6	5	0.284757	-0.96921	0.599766
F1	TDPO4	TKN	0.193823	67	0.116044	-0.04866	0.414727
F1	TDPO4	TOTN	-0.2	4	0.8	-0.97389	0.942197
F1	TDPO4	TPO4	0.77691	69	4.22E-15	0.661945	0.856161
F1	TDPO4	TSS	-0.33168	26	0.097866	-0.63717	0.06389
F1	TDPO4	NH4	0.560069	64	1.49E-06	0.364427	0.708361
F1	TDPO4	NO2	-0.07717	10	0.8322	-0.67405	0.580681
F1	TDPO4	DOC	0.198126	62	0.122676	-0.05434	0.426778
F1	TDPO4	TDSFE	0.158824	54	0.251339	-0.11378	0.409188
F1	TDPO4	TDSCU	-0.17075	34	0.334302	-0.48114	0.177686
F1	TDPO4	TDSZN	0.227394	26	0.263919	-0.17542	0.564987
F1	TDPO4	TDSMN	0.6	5	0.284757	-0.59977	0.969209
F1	TKN	TOTN	0.8	4	0.2	-0.69697	0.995601
F1	TKN	TPO4	0.317632	70	0.007375	0.089321	0.51423
F1	TKN	TSS	0.106465	27	0.597127	-0.28509	0.467568
F1	TKN	NH4	0.257244	69	0.032856	0.021892	0.465582
F1	TKN	NO2	0.251749	11	0.4552	-0.41006	0.739893
F1	TKN	DOC	0.65147	67	2.37E-09	0.487555	0.771024
F1	TKN	TDSFE	-0.09735	54	0.483726	-0.35584	0.174973
F1	TKN	TDSCU	-0.18609	34	0.292011	-0.49322	0.162297
F1	TKN	TDSZN	-0.09934	27	0.622031	-0.46192	0.291694
F1	TKN	TDSMN	-0.2052	5	0.740582	-0.92077	0.82675
F1	TOTN	TPO4	0.4	4	0.6	-0.91151	0.983137
F1	TOTN	TSS	0.5	3	0.666667		
F1	TPO4	TSS	0.168817	28	0.390474	-0.218	0.509792
F1	TPO4	NH4	0.404441	68	0.000625	0.183729	0.58633
F1	TPO4	NO2	-0.00461	11	0.98927	-0.60283	0.596925
F1	TPO4	DOC	0.126342	66	0.312086	-0.11934	0.357449
F1	TPO4	TDSFE	0.083592	55	0.54401	-0.18583	0.341324
F1	TPO4	TDSCU	-0.35335	34	0.040369	-0.61771	-0.01724
F1	TPO4	TDSZN	0.100759	28	0.609941	-0.28296	0.456675

F1	TPO4	TDSMN	0.6	5	0.284757	-0.59977	0.969209
F1	TSS	NH4	-0.39204	26	0.04761	-0.67665	-0.00552
F1	TSS	NO2	-0.10497	8	0.804622	-0.75389	0.647615
F1	TSS	DOC	-0.2362	23	0.277897	-0.59088	0.194993
F1	TSS	TDSFE	0.186647	23	0.393803	-0.24436	0.556073
F1	TSS	TDSCU	0.056614	7	0.904043	-0.72747	0.776571
F1	TSS	TDSZN	-0.04587	7	0.922205	-0.77226	0.732497
F1	NH4	NO2	0.067229	9	0.863556	-0.6248	0.7001
F1	NH4	DOC	0.1826	69	0.133165	-0.05653	0.401915
F1	NH4	TDSFE	-0.24181	56	0.072579	-0.47455	0.022528
F1	NH4	TDSCU	-0.40146	35	0.016832	-0.64802	-0.07874
F1	NH4	TDSZN	0.286867	29	0.131352	-0.089	0.591218
F1	NH4	TDSMN	0.8	4	0.2	-0.69697	0.995601
F1	NO2	DOC	-0.2353	9	0.542216	-0.77787	0.508253
F1	NO2	TDSFE	0.263636	7	0.567827	-0.61067	0.848287
F1	NO2	TDSCU	0.6	4	0.4	-0.85294	0.990128
F1	DOC	TDSFE	-0.15733	56	0.246851	-0.40354	0.110129
F1	DOC	TDSCU	0.124838	36	0.468182	-0.21242	0.435517
F1	DOC	TDSZN	0.00634	28	0.974459	-0.36761	0.378527
F1	DOC	TDSMN	-0.41039	5	0.492536	-0.94904	0.739714
F1	TDSFE	TDSCU	0.167051	34	0.345023	-0.18137	0.478207
F1	TDSFE	TDSZN	-0.22143	29	0.24835	-0.54381	0.1579
F1	TDSFE	TDSMN	0.205196	5	0.740582	-0.82675	0.920773
F1	TDSCU	TDSZN	0.162968	25	0.436363	-0.24815	0.524341
F1	TDSCU	TDSMN	-0.73786	4	0.262135	-0.99403	0.767503
F2	AGP	ALK	0.073576	54	0.596989	-0.19809	0.334746
F2	AGP	CA	0.060895	54	0.661804	-0.2103	0.323388
F2	AGP	CL	0.067629	54	0.627037	-0.20383	0.329429
F2	AGP	K	0.04054	54	0.77101	-0.22972	0.304994
F2	AGP	MG	0.056797	54	0.683324	-0.21423	0.3197
F2	AGP	NA	0.083472	54	0.54845	-0.18851	0.343558
F2	AGP	NOX	0.201056	34	0.254208	-0.14712	0.504899
F2	AGP	OPO4	0.457921	46	0.001374	0.193316	0.660429
F2	AGP	PH	0.514979	8	0.191549	-0.29776	0.894903
F2	AGP	SIO2	-0.00163	53	0.990734	-0.27181	0.268783
F2	AGP	SO4	0.135207	54	0.329659	-0.13754	0.388893
F2	AGP	TDKN	0.161768	53	0.24717	-0.11349	0.413966
F2	AGP	TDPO4	0.465502	51	0.000577	0.217862	0.656828
F2	AGP	TKN	0.088388	51	0.537382	-0.19187	0.355321
F2	AGP	TOTN	0.2	6	0.704	-0.73007	0.870306
F2	AGP	TPO4	0.551221	51	2.77E-05	0.325004	0.717772
F2	AGP	TSS	-0.03205	22	0.887409	-0.44762	0.394903
F2	AGP	NH4	0.195855	49	0.177435	-0.09032	0.452154
F2	AGP	NO2	-0.24618	10	0.492943	-0.75828	0.453792
F2	AGP	DOC	0.188019	46	0.210821	-0.10819	0.453566
F2	AGP	TDSFE	0.283529	29	0.136101	-0.09261	0.58885
F2	AGP	TDSCU	-0.33766	19	0.157417	-0.68657	0.137676
F2	AGP	TDSZN	-0.29614	14	0.303934	-0.71446	0.278156
F2	AGP	TDSMN	0.8	4	0.2	-0.69697	0.995601
F2	ALK	CA	0.931342	90	0	0.897318	0.954363
F2	ALK	CL	0.832903	89	0	0.755732	0.887259
F2	ALK	K	0.574335	90	3.25E-09	0.416817	0.698365

F2	ALK	MG	0.918084	90	0	0.877906	0.945425
F2	ALK	NA	0.82136	90	0	0.740167	0.878947
F2	ALK	NOX	0.106666	46	0.480467	-0.18951	0.385046
F2	ALK	OPO4	0.289877	75	0.011647	0.067342	0.484938
F2	ALK	PH	0.359288	8	0.382065	-0.46249	0.849013
F2	ALK	SIO2	0.415767	89	5.08E-05	0.227178	0.5743
F2	ALK	SO4	0.495726	90	6.77E-07	0.321653	0.637386
F2	ALK	TDKN	0.66816	86	2.09E-12	0.531529	0.770903
F2	ALK	TDPO4	0.24117	82	0.029059	0.025493	0.435394
F2	ALK	TKN	0.69824	85	1.10E-13	0.569925	0.793312
F2	ALK	TOTN	0.942857	6	0.004805	0.559135	0.9939
F2	ALK	TPO4	0.237524	85	0.028606	0.025697	0.428938
F2	ALK	TSS	0.309045	25	0.132789	-0.09807	0.627549
F2	ALK	NH4	0.224607	85	0.038772	0.012056	0.417738
F2	ALK	NO2	0.327203	11	0.326004	-0.33927	0.774972
F2	ALK	DOC	0.779027	81	0	0.675595	0.852387
F2	ALK	TDSFE	0.140403	55	0.306586	-0.12973	0.391135
F2	ALK	TDSCU	0.212745	43	0.170783	-0.09358	0.482278
F2	ALK	TDSZN	0.082466	34	0.642892	-0.26304	0.409225
F2	ALK	TDSMN	0.6	5	0.284757	-0.59977	0.969209
F2	CA	CL	0.801634	89	0	0.71229	0.865415
F2	CA	K	0.605834	90	2.51E-10	0.455944	0.722305
F2	CA	MG	0.944844	90	0	0.917225	0.963424
F2	CA	NA	0.807966	90	0	0.721615	0.869561
F2	CA	NOX	0.2041	46	0.173656	-0.09163	0.466748
F2	CA	OPO4	0.285061	75	0.013179	0.062114	0.480913
F2	CA	PH	0.179644	8	0.670344	-0.60114	0.784956
F2	CA	SIO2	0.497303	89	7.13E-07	0.322436	0.639347
F2	CA	SO4	0.612446	90	1.41E-10	0.464232	0.727295
F2	CA	TDKN	0.653616	86	8.96E-12	0.512746	0.760215
F2	CA	TDPO4	0.289578	82	0.008321	0.077433	0.476636
F2	CA	TKN	0.681407	85	7.11E-13	0.54784	0.781098
F2	CA	TOTN	0.942857	6	0.004805	0.559135	0.9939
F2	CA	TPO4	0.256241	85	0.017928	0.045603	0.445063
F2	CA	TSS	0.427278	25	0.033141	0.03867	0.703621
F2	CA	NH4	0.174703	85	0.109785	-0.03991	0.373909
F2	CA	NO2	0.170126	11	0.616998	-0.4786	0.698703
F2	CA	DOC	0.782831	81	0	0.680859	0.855031
F2	CA	TDSFE	0.190467	55	0.163655	-0.07882	0.433846
F2	CA	TDSCU	0.258056	43	0.094771	-0.04585	0.518238
F2	CA	TDSZN	0.110933	34	0.532246	-0.2361	0.432865
F2	CA	TDSMN	0.7	5	0.18812	-0.47664	0.978166
F2	CL	K	0.535414	89	6.44E-08	0.368211	0.669069
F2	CL	MG	0.864659	89	0	0.800558	0.909196
F2	CL	NA	0.968687	89	0	0.952605	0.97937
F2	CL	NOX	0.331712	46	0.024319	0.045821	0.567378
F2	CL	OPO4	0.192854	74	0.099714	-0.03729	0.403572
F2	CL	PH	0.179644	8	0.670344	-0.60114	0.784956
F2	CL	SIO2	0.398529	88	0.00012	0.206303	0.561137
F2	CL	SO4	0.400493	89	0.000101	0.209725	0.561888
F2	CL	TDKN	0.66495	85	3.91E-12	0.526427	0.769084
F2	CL	TDPO4	0.22078	82	0.046237	0.003958	0.417774

F2	CL	TKN	0.689309	84	4.18E-13	0.557267	0.787348
F2	CL	TOTN	0.828571	6	0.041563	0.051909	0.980685
F2	CL	TPO4	0.216628	85	0.046442	0.00367	0.41079
F2	CL	TSS	0.344449	25	0.091773	-0.05867	0.650984
F2	CL	NH4	0.222793	84	0.041649	0.008815	0.417261
F2	CL	NO2	0.383721	11	0.244015	-0.2808	0.799556
F2	CL	DOC	0.801101	80	0	0.705575	0.868032
F2	CL	TDSFE	0.085824	54	0.537195	-0.18622	0.345646
F2	CL	TDSCU	0.212225	43	0.171855	-0.09412	0.48186
F2	CL	TDSZN	0.024407	34	0.891019	-0.31638	0.359611
F2	CL	TDSMN	0.359092	5	0.552815	-0.7658	0.942701
F2	K	MG	0.658427	90	1.75E-12	0.522591	0.761664
F2	K	NA	0.546421	90	2.53E-08	0.382624	0.676916
F2	K	NOX	0.221086	46	0.139796	-0.07396	0.480547
F2	K	OPO4	0.152031	75	0.192884	-0.07761	0.366355
F2	K	PH	0.251502	8	0.547943	-0.5508	0.812232
F2	K	SIO2	0.495182	89	8.09E-07	0.319913	0.637681
F2	K	SO4	0.581766	90	1.82E-09	0.425995	0.704038
F2	K	TDKN	0.464325	86	6.69E-06	0.279991	0.615637
F2	K	TDPO4	0.141436	82	0.204983	-0.07797	0.347773
F2	K	TKN	0.552543	85	4.19E-08	0.38472	0.685003
F2	K	TOTN	0.828571	6	0.041563	0.051909	0.980685
F2	K	TPO4	0.196692	85	0.071195	-0.01715	0.393332
F2	K	TSS	0.31763	25	0.12181	-0.08863	0.633285
F2	K	NH4	0.096709	85	0.3786	-0.11887	0.30358
F2	K	NO2	0.27588	11	0.411559	-0.38826	0.751408
F2	K	DOC	0.383466	81	0.00041	0.180201	0.555322
F2	K	TDSFE	0.084073	55	0.54169	-0.18536	0.341752
F2	K	TDSCU	0.143723	43	0.35785	-0.16369	0.425696
F2	K	TDSZN	0.212514	34	0.227567	-0.13539	0.513763
F2	K	TDSMN	0.1	5	0.872889	-0.85797	0.902635
F2	MG	NA	0.888868	90	0	0.835588	0.925582
F2	MG	NOX	0.251794	46	0.091398	-0.04155	0.505171
F2	MG	OPO4	0.183555	75	0.114942	-0.0453	0.394103
F2	MG	PH	0.275454	8	0.509054	-0.53261	0.82081
F2	MG	SIO2	0.536721	89	5.90E-08	0.369796	0.670082
F2	MG	SO4	0.620467	90	6.91E-11	0.47432	0.733332
F2	MG	TDKN	0.682649	86	4.52E-13	0.550376	0.781494
F2	MG	TDPO4	0.198866	82	0.073277	-0.01896	0.398672
F2	MG	TKN	0.740255	85	6.66E-16	0.62587	0.823465
F2	MG	TPO4	0.217135	85	0.04592	0.004202	0.411232
F2	MG	TSS	0.434302	25	0.03006	0.047278	0.707949
F2	MG	NH4	0.167942	85	0.124451	-0.04686	0.367901
F2	MG	NO2	0.404624	11	0.217065	-0.25784	0.808309
F2	MG	DOC	0.81171	81	0	0.721178	0.874982
F2	MG	TDSFE	0.164381	55	0.230426	-0.10552	0.411728
F2	MG	TDSCU	0.255595	43	0.098074	-0.04848	0.516308
F2	MG	TDSZN	0.040352	34	0.820748	-0.30194	0.373428
F2	MG	TDSMN	0.7	5	0.18812	-0.47664	0.978166
F2	NA	NOX	0.3379	46	0.021636	0.052774	0.572085
F2	NA	OPO4	0.157801	75	0.176334	-0.07173	0.371463
F2	NA	PH	0.059881	8	0.887991	-0.67321	0.733606

F2	NA	SIO2	0.404865	89	8.31E-05	0.214708	0.565449
F2	NA	SO4	0.401424	90	8.81E-05	0.211949	0.561813
F2	NA	TDKN	0.658575	86	5.51E-12	0.519135	0.763865
F2	NA	TDPO4	0.176859	82	0.111948	-0.04175	0.379312
F2	NA	TKN	0.692851	85	2.03E-13	0.562835	0.78941
F2	NA	TOTN	0.714286	6	0.110787	-0.23146	0.965919
F2	NA	TPO4	0.208012	85	0.05609	-0.00535	0.403262
F2	NA	TSS	0.415262	25	0.038991	0.024075	0.696168
F2	NA	NH4	0.205108	85	0.059691	-0.00839	0.400718
F2	NA	NO2	0.331811	11	0.318829	-0.33469	0.777029
F2	NA	DOC	0.779046	81	0	0.675621	0.8524
F2	NA	TDSFE	0.079099	55	0.56594	-0.19019	0.337322
F2	NA	TDSCU	0.166516	43	0.285875	-0.14088	0.444628
F2	NA	TDSZN	0.03231	34	0.856055	-0.30924	0.366477
F2	NA	TDSMN	0.2	5	0.74706	-0.82846	0.919944
F2	NOX	OPO4	0.189655	37	0.260899	-0.14317	0.48394
F2	NOX	PH	0.180723	8	0.66845	-0.60042	0.785384
F2	NOX	SIO2	-0.10577	45	0.489236	-0.38729	0.193782
F2	NOX	SO4	0.045685	46	0.763047	-0.24791	0.331591
F2	NOX	TDKN	0.101638	45	0.506468	-0.1978	0.383729
F2	NOX	TDPO4	0.388653	41	0.012031	0.091998	0.621943
F2	NOX	TKN	0.234059	45	0.121738	-0.06387	0.49368
F2	NOX	TOTN	0.376851	6	0.461483	-0.62625	0.91008
F2	NOX	TPO4	0.395859	44	0.007817	0.112154	0.619892
F2	NOX	TSS	0.194695	18	0.438829	-0.2994	0.606447
F2	NOX	NH4	0.299635	42	0.053879	-0.00473	0.553192
F2	NOX	NO2	0.043213	10	0.905648	-0.60282	0.655025
F2	NOX	DOC	0.266935	38	0.105215	-0.05768	0.5405
F2	NOX	TDSFE	-0.08069	23	0.714363	-0.47703	0.342923
F2	NOX	TDSCU	-0.04081	17	0.876408	-0.51143	0.44864
F2	NOX	TDSZN	-0.01406	12	0.965409	-0.58326	0.564404
F2	OPO4	PH	-0.03636	7	0.938308	-0.76839	0.736881
F2	OPO4	SIO2	-0.14258	74	0.225561	-0.35938	0.088813
F2	OPO4	SO4	0.060323	75	0.607179	-0.16896	0.283408
F2	OPO4	TDKN	0.205549	71	0.085495	-0.02916	0.418774
F2	OPO4	TDPO4	0.858219	70	0	0.780674	0.909737
F2	OPO4	TKN	0.20112	70	0.095019	-0.03554	0.416418
F2	OPO4	TOTN	0.2	5	0.74706	-0.82846	0.919944
F2	OPO4	TPO4	0.784695	74	2.22E-16	0.677709	0.859148
F2	OPO4	TSS	-0.23801	20	0.312259	-0.61569	0.228595
F2	OPO4	NH4	0.460957	70	5.93E-05	0.253429	0.627922
F2	OPO4	NO2	0.320014	10	0.367362	-0.38775	0.790391
F2	OPO4	DOC	0.283204	68	0.019274	0.048017	0.488639
F2	OPO4	TDSFE	0.238168	44	0.119508	-0.06319	0.499719
F2	OPO4	TDSCU	-0.08678	34	0.625545	-0.41284	0.258992
F2	OPO4	TDSZN	0.12747	30	0.502054	-0.24401	0.466329
F2	OPO4	TDSMN	0.1	5	0.872889	-0.85797	0.902635
F2	PH	SIO2	0.299407	8	0.471261	-0.51365	0.829149
F2	PH	SO4	0.131739	8	0.755833	-0.63157	0.765368
F2	PH	TDKN	0.371264	8	0.365202	-0.45155	0.852826
F2	PH	TDPO4	0.090361	8	0.831492	-0.6561	0.747448
F2	PH	TKN	0.359288	8	0.382065	-0.46249	0.849013

F2	PH	TOTN	0.376851	6	0.461483	-0.62625	0.91008
F2	PH	TPO4	-0.13174	8	0.755833	-0.76537	0.631574
F2	PH	TSS	-0.08824	6	0.867991	-0.83968	0.779125
F2	PH	NH4	0.1	5	0.872889	-0.85797	0.902635
F2	SIO2	SO4	0.531996	89	8.09E-08	0.364073	0.666421
F2	SIO2	TDKN	0.449455	85	1.60E-05	0.261364	0.604662
F2	SIO2	TDPO4	-0.16655	81	0.137259	-0.3714	0.053756
F2	SIO2	TKN	0.494088	85	1.54E-06	0.314028	0.639838
F2	SIO2	TOTN	0.942857	6	0.004805	0.559135	0.9939
F2	SIO2	TPO4	-0.11245	84	0.308471	-0.31916	0.104465
F2	SIO2	TSS	0.372936	25	0.066343	-0.02604	0.669426
F2	SIO2	NH4	0.01422	84	0.89785	-0.20079	0.227924
F2	SIO2	NO2	0.225816	11	0.504356	-0.43268	0.727191
F2	SIO2	DOC	0.373775	80	0.000637	0.167838	0.548453
F2	SIO2	TDSFE	0.441488	54	0.000832	0.197012	0.634272
F2	SIO2	TDSCU	0.452084	43	0.002339	0.175574	0.662479
F2	SIO2	TDSZN	0.049521	33	0.784335	-0.29888	0.386269
F2	SIO2	TDSMN	0.6	5	0.284757	-0.59977	0.969209
F2	SO4	TDKN	0.339648	86	0.001377	0.137677	0.514502
F2	SO4	TDPO4	0.001803	82	0.987173	-0.21529	0.218728
F2	SO4	TKN	0.362165	85	0.000659	0.161503	0.534069
F2	SO4	TOTN	0.942857	6	0.004805	0.559135	0.9939
F2	SO4	TPO4	0.045514	85	0.679152	-0.16926	0.256157
F2	SO4	TSS	0.319559	25	0.119435	-0.0865	0.63457
F2	SO4	NH4	-0.21742	85	0.045626	-0.41148	-0.0045
F2	SO4	NO2	-0.03678	11	0.914494	-0.62292	0.575805
F2	SO4	DOC	0.328053	81	0.002792	0.118164	0.509882
F2	SO4	TDSFE	0.289411	55	0.032103	0.026114	0.515158
F2	SO4	TDSCU	0.442594	43	0.002959	0.164054	0.65577
F2	SO4	TDSZN	0.019151	34	0.91439	-0.3211	0.355023
F2	SO4	TDSMN	0.7	5	0.18812	-0.47664	0.978166
F2	TDKN	TDPO4	0.1748	78	0.12585	-0.04967	0.382457
F2	TDKN	TKN	0.849607	81	0	0.775034	0.900841
F2	TDKN	TOTN	0.6	6	0.208	-0.41237	0.94931
F2	TDKN	TPO4	0.243848	81	0.028254	0.026928	0.438835
F2	TDKN	TSS	0.344374	25	0.091848	-0.05876	0.650935
F2	TDKN	NH4	0.348964	81	0.001409	0.141384	0.52715
F2	TDKN	NO2	0.198165	11	0.559154	-0.45592	0.713259
F2	TDKN	DOC	0.704815	77	8.43E-13	0.570969	0.802163
F2	TDKN	TDSFE	0.269509	53	0.050992	-0.00085	0.503154
F2	TDKN	TDSCU	0.309325	40	0.052108	-0.00242	0.566274
F2	TDKN	TDSZN	-0.07274	31	0.697378	-0.41635	0.289058
F2	TDKN	TDSMN	0.359092	5	0.552815	-0.7658	0.942701
F2	TDPO4	TKN	0.200872	78	0.077827	-0.02268	0.40529
F2	TDPO4	TOTN	0.463817	6	0.354164	-0.55767	0.926597
F2	TDPO4	TPO4	0.90373	81	0	0.853873	0.937152
F2	TDPO4	TSS	0.043264	23	0.844606	-0.37564	0.447492
F2	TDPO4	NH4	0.40555	77	0.000253	0.199708	0.57711
F2	TDPO4	NO2	0.368679	11	0.264544	-0.29686	0.793147
F2	TDPO4	DOC	0.308993	73	0.007816	0.084962	0.503286
F2	TDPO4	TDSFE	0.443274	47	0.001805	0.178872	0.647963
F2	TDPO4	TDSCU	0.01541	41	0.923816	-0.29364	0.321542

F2	TDPO4	TDSZN	0.153675	31	0.409154	-0.21223	0.481786
F2	TDPO4	TDSMN	0.4	5	0.504632	-0.74529	0.947789
F2	TKN	TOTN	0.942857	6	0.004805	0.559135	0.9939
F2	TKN	TPO4	0.24795	80	0.026584	0.029855	0.443508
F2	TKN	TSS	0.405155	25	0.04452	0.011927	0.689852
F2	TKN	NH4	0.326649	80	0.003104	0.115196	0.509782
F2	TKN	NO2	0.274833	11	0.413408	-0.38922	0.750915
F2	TKN	DOC	0.719973	76	2.31E-13	0.59034	0.813398
F2	TKN	TDSFE	0.157852	52	0.26372	-0.12023	0.412967
F2	TKN	TDSCU	0.261548	40	0.103051	-0.0544	0.529889
F2	TKN	TDSZN	-0.03684	29	0.849522	-0.39798	0.334184
F2	TKN	TDSMN	0	5	1	-0.88227	0.882272
F2	TOTN	TPO4	0.028571	6	0.957155	-0.80158	0.8211
F2	TOTN	TSS	0.4	4	0.6	-0.91151	0.983137
F2	TOTN	NH4	-0.5	5	0.391002	-0.95915	0.684016
F2	TPO4	TSS	0.159806	24	0.455725	-0.26038	0.5291
F2	TPO4	NH4	0.440937	80	4.25E-05	0.244947	0.602304
F2	TPO4	NO2	0.39083	11	0.234643	-0.27308	0.802553
F2	TPO4	SCOND		1			
F2	TPO4	DOC	0.322278	76	0.004523	0.104405	0.510635
F2	TPO4	TDSFE	0.345413	50	0.014018	0.074194	0.569053
F2	TPO4	TDSCU	-0.03212	41	0.841975	-0.33645	0.278284
F2	TPO4	TDSZN	0.032264	33	0.858535	-0.31454	0.371464
F2	TPO4	TDSMN	0.666886	5	0.218894	-0.52326	0.97531
F2	TSS	NH4	0.161248	22	0.473446	-0.27936	0.54576
F2	TSS	NO2	0.051299	5	0.934713	-0.87037	0.893147
F2	TSS	SCOND		1			
F2	TSS	DOC	0.464775	19	0.044968	0.013385	0.758802
F2	TSS	TDSFE	0.470208	13	0.104918	-0.10903	0.811068
F2	TSS	TDSCU	0.323529	6	0.531638	-0.66181	0.89904
F2	TSS	TDSZN	-0.15789	5	0.799801	-0.91298	0.84162
F2	TSS	TDSMN		1			
F2	NH4	NO2	0.669462	9	0.048568	0.0096	0.92315
F2	NH4	SCOND		0			
F2	NH4	DOC	0.353965	79	0.001373	0.144131	0.533337
F2	NH4	TDSFE	-0.03815	53	0.786241	-0.3053	0.23457
F2	NH4	TDSCU	0.094564	42	0.551382	-0.21557	0.387368
F2	NH4	TDSZN	0.254022	34	0.147145	-0.09206	0.545347
F2	NH4	TDSMN	0.632456	4	0.367544	-0.83802	0.991105
F2	NO2	SCOND		1			
F2	NO2	DOC	0.661094	9	0.052523	-0.00541	0.9209
F2	NO2	TDSFE	0.8	5	0.104088	-0.27966	0.986197
F2	NO2	TDSCU	-1	2			
F2	NO2	TDSZN	1	2			
F2	NO2	TDSMN		0			
F2	SCOND	DOC		0			
F2	SCOND	TDSFE		0			
F2	SCOND	TDSCU		0			
F2	SCOND	TDSZN		0			
F2	SCOND	TDSMN		0			
F2	DOC	TDSFE	0.290929	54	0.032821	0.025121	0.518317
F2	DOC	TDSCU	0.097565	43	0.533672	-0.20891	0.386585

F2	DOC	TDSZN	-0.00238	34	0.989354	-0.34028	0.336064
F2	DOC	TDSMN	0.3	5	0.623838	-0.79186	0.934838
F2	TDSFE	TDSCU	0.29838	29	0.115903	-0.0765	0.599347
F2	TDSFE	TDSZN	0.238286	19	0.325903	-0.24214	0.624871
F2	TDSFE	TDSMN	0.210819	4	0.789181	-0.94092	0.974466
F2	TDSCU	TDSZN	0.180981	28	0.356715	-0.20601	0.51902
F2	TDSCU	TDSMN	0.5	3	0.666667		
F2	TDSZN	TDSMN		0			
F3	AGP	ALK	-0.11399	49	0.435458	-0.38292	0.172748
F3	AGP	CA	-0.10282	49	0.482043	-0.37323	0.183693
F3	AGP	CL	-0.01886	49	0.89767	-0.29848	0.263743
F3	AGP	K	-0.10174	49	0.486678	-0.37229	0.184747
F3	AGP	MG	-0.07863	49	0.591233	-0.35205	0.207149
F3	AGP	NA	-0.02547	49	0.862098	-0.30449	0.257578
F3	AGP	NOX	-0.14683	35	0.399963	-0.45769	0.196013
F3	AGP	OPO4	-0.05367	41	0.738946	-0.35545	0.258253
F3	AGP	PH	0.261905	8	0.530923	-0.54299	0.815988
F3	AGP	SIO2	-0.06758	48	0.64811	-0.34509	0.220799
F3	AGP	SO4	-0.13902	49	0.34076	-0.40441	0.147964
F3	AGP	TDKN	-0.08016	47	0.592231	-0.35907	0.211891
F3	AGP	TDPO4	0.097879	49	0.503449	-0.18851	0.368926
F3	AGP	TKN	-0.10318	46	0.495021	-0.38204	0.192904
F3	AGP	TOTN	0.657143	6	0.156175	-0.3309	0.957866
F3	AGP	TPO4	0.330869	48	0.021618	0.051578	0.562158
F3	AGP	TSS	-0.16907	15	0.546936	-0.62703	0.375744
F3	AGP	NH4	0.052475	43	0.738237	-0.25184	0.347349
F3	AGP	NO2	-0.33395	6	0.5177	-0.90126	0.655192
F3	AGP	SCOND		1			
F3	AGP	DOC	-0.2282	41	0.151274	-0.50071	0.085451
F3	AGP	TDSFE	-0.07963	18	0.753462	-0.52692	0.402202
F3	AGP	TDSCU	-0.35921	16	0.171813	-0.7257	0.166079
F3	AGP	TDSZN	-0.18289	16	0.497786	-0.6222	0.34401
F3	AGP	TDSMN	-0.8	4	0.2	-0.9956	0.696972
F3	ALK	CA	0.93261	81	0	0.8969	0.956237
F3	ALK	CL	0.758257	80	4.44E-16	0.646195	0.838311
F3	ALK	K	0.648232	81	6.06E-11	0.500758	0.759135
F3	ALK	MG	0.915081	81	0	0.870704	0.944678
F3	ALK	NA	0.829787	81	0	0.746732	0.887362
F3	ALK	NOX	0.073669	48	0.618753	-0.21497	0.350473
F3	ALK	OPO4	0.053756	68	0.663284	-0.18707	0.288488
F3	ALK	PH	0.02381	8	0.955374	-0.69249	0.71647
F3	ALK	SIO2	0.531081	80	4.02E-07	0.352492	0.672346
F3	ALK	SO4	0.617262	81	8.40E-10	0.46105	0.736367
F3	ALK	TDKN	0.745828	76	1.09E-14	0.625559	0.831472
F3	ALK	TDPO4	0.035294	77	0.760573	-0.19019	0.257243
F3	ALK	TKN	0.697908	75	3.44E-12	0.559581	0.798406
F3	ALK	TOTN	0.771429	6	0.072397	-0.10734	0.973513
F3	ALK	TPO4	0.014943	79	0.896005	-0.20685	0.23528
F3	ALK	TSS	0	18	1	-0.46688	0.466877
F3	ALK	NH4	0.210751	75	0.069532	-0.01703	0.417736
F3	ALK	NO2	0.205068	8	0.626141	-0.58401	0.794882
F3	ALK	SCOND		1			

F3	ALK	DOC	0.731568	73	1.97E-13	0.602987	0.823101
F3	ALK	TDSFE	0.269554	38	0.101717	-0.05486	0.542494
F3	ALK	TDSCU	0.358379	38	0.027149	0.043697	0.608368
F3	ALK	TDSZN	-0.07715	34	0.66451	-0.40476	0.268011
F3	ALK	TDSMN	0.8	5	0.104088	-0.27966	0.986197
F3	CA	CL	0.711641	80	1.37E-13	0.583094	0.805424
F3	CA	K	0.720704	81	3.31E-14	0.596169	0.811373
F3	CA	MG	0.960667	81	0	0.939357	0.974586
F3	CA	NA	0.83547	81	0	0.754816	0.891237
F3	CA	NOX	0.043877	48	0.76714	-0.2433	0.323977
F3	CA	OPO4	0.093581	68	0.447825	-0.14815	0.324764
F3	CA	PH	0.071429	8	0.866526	-0.66682	0.738917
F3	CA	SIO2	0.545812	80	1.64E-07	0.370527	0.683556
F3	CA	SO4	0.679789	81	2.99E-12	0.541867	0.782058
F3	CA	TDKN	0.723768	76	1.51E-13	0.595479	0.816062
F3	CA	TDPO4	0.10607	77	0.358549	-0.12078	0.322394
F3	CA	TKN	0.700882	75	2.54E-12	0.563566	0.800506
F3	CA	TOTN	0.885714	6	0.018845	0.263693	0.987471
F3	CA	TPO4	0.085686	79	0.452752	-0.13804	0.301095
F3	CA	TSS	-0.20938	18	0.404355	-0.61604	0.285392
F3	CA	NH4	0.226515	75	0.050677	-0.00048	0.431307
F3	CA	NO2	0.247083	8	0.555229	-0.55407	0.810623
F3	CA	SCOND		1			
F3	CA	DOC	0.76314	73	4.22E-15	0.646596	0.844872
F3	CA	TDSFE	0.158391	38	0.342221	-0.1699	0.455039
F3	CA	TDSCU	0.41853	38	0.008921	0.114109	0.651102
F3	CA	TDSZN	-0.04156	34	0.815467	-0.37447	0.300838
F3	CA	TDSMN	0.9	5	0.037386	0.086077	0.993438
F3	CL	K	0.593889	80	6.37E-09	0.43032	0.719696
F3	CL	MG	0.760996	80	2.22E-16	0.649951	0.840225
F3	CL	NA	0.884337	80	0	0.8249	0.924434
F3	CL	NOX	0.099327	48	0.501787	-0.19018	0.372941
F3	CL	OPO4	-0.0327	67	0.792773	-0.27079	0.209154
F3	CL	PH	0.02381	8	0.955374	-0.69249	0.71647
F3	CL	SIO2	0.417848	79	0.000127	0.216761	0.58492
F3	CL	SO4	0.484778	80	5.19E-06	0.296655	0.636682
F3	CL	TDKN	0.668784	75	5.47E-11	0.520883	0.777702
F3	CL	TDPO4	0.051745	77	0.654924	-0.17426	0.272569
F3	CL	TKN	0.661294	74	1.42E-10	0.50983	0.772992
F3	CL	TOTN	0.771429	6	0.072397	-0.10734	0.973513
F3	CL	TPO4	0.097267	79	0.393786	-0.12657	0.311678
F3	CL	TSS	-0.00521	18	0.983627	-0.47094	0.462792
F3	CL	NH4	0.194437	74	0.096911	-0.03565	0.404948
F3	CL	NO2	0.118069	8	0.780669	-0.63985	0.759555
F3	CL	SCOND		1			
F3	CL	DOC	0.609168	72	1.36E-08	0.439524	0.736851
F3	CL	TDSFE	0.0608	37	0.720741	-0.26851	0.37739
F3	CL	TDSCU	0.237247	38	0.151514	-0.08921	0.517673
F3	CL	TDSZN	-0.17704	34	0.316525	-0.48611	0.171395
F3	CL	TDSMN	0.872082	5	0.053854	-0.04419	0.991489
F3	K	MG	0.781794	81	0	0.679423	0.85431
F3	K	NA	0.67506	81	4.80E-12	0.535665	0.77864

F3	K	NOX	0.011453	48	0.938415	-0.27358	0.294634
F3	K	OPO4	0.050455	68	0.682824	-0.19026	0.285451
F3	K	PH	0.166667	8	0.693239	-0.60961	0.779767
F3	K	SIO2	0.624138	80	6.19E-10	0.468692	0.742091
F3	K	SO4	0.688547	81	1.21E-12	0.553395	0.788372
F3	K	TDKN	0.579451	76	4.15E-08	0.407188	0.711905
F3	K	TDPO4	0.054427	77	0.638264	-0.17165	0.275056
F3	K	TKN	0.591453	75	2.30E-08	0.421002	0.721557
F3	K	TOTN	0.085714	6	0.871743	-0.78012	0.838925
F3	K	TPO4	-0.06229	79	0.585536	-0.27955	0.161046
F3	K	TSS	-0.35002	18	0.154478	-0.70215	0.139689
F3	K	NH4	0.122743	75	0.29413	-0.10721	0.34023
F3	K	NO2	-0.14825	8	0.726077	-0.77225	0.621342
F3	K	SCOND		1			
F3	K	DOC	0.551882	73	4.17E-07	0.368614	0.693853
F3	K	TDSFE	0.306457	38	0.061299	-0.01467	0.570276
F3	K	TDSCU	0.366158	38	0.023765	0.05263	0.613977
F3	K	TDSZN	-0.20775	34	0.238411	-0.51008	0.14028
F3	K	TDSMN	0.5	5	0.391002	-0.68402	0.959154
F3	MG	NA	0.878269	81	0	0.816498	0.92016
F3	MG	NOX	0.041511	48	0.77937	-0.24552	0.321855
F3	MG	OPO4	0.045878	68	0.710263	-0.19468	0.281231
F3	MG	PH	0.095238	8	0.822505	-0.65329	0.749611
F3	MG	SIO2	0.608367	80	2.15E-09	0.448612	0.730448
F3	MG	SO4	0.713306	81	7.90E-14	0.586265	0.806106
F3	MG	TDKN	0.771377	76	4.44E-16	0.660848	0.849156
F3	MG	TDPO4	0.087144	77	0.45108	-0.13956	0.30517
F3	MG	TKN	0.726213	75	1.67E-13	0.597776	0.818302
F3	MG	TOTN	0.828571	6	0.041563	0.051909	0.980685
F3	MG	TPO4	0.047476	79	0.677789	-0.17548	0.2658
F3	MG	TSS	-0.14063	18	0.577806	-0.57008	0.349172
F3	MG	NH4	0.237249	75	0.040414	0.010868	0.440495
F3	MG	NO2	0.222375	8	0.596589	-0.57193	0.801464
F3	MG	SCOND		1			
F3	MG	DOC	0.790461	73	0	0.684958	0.863495
F3	MG	TDSFE	0.156089	38	0.349371	-0.17219	0.453165
F3	MG	TDSCU	0.329163	38	0.043597	0.010589	0.587074
F3	MG	TDSZN	-0.09905	34	0.577301	-0.42305	0.247408
F3	MG	TDSMN	0.8	5	0.104088	-0.27966	0.986197
F3	NA	NOX	0.011973	48	0.935628	-0.2731	0.295109
F3	NA	OPO4	0.046711	68	0.705241	-0.19388	0.282
F3	NA	PH	0.285714	8	0.492726	-0.52459	0.824411
F3	NA	SIO2	0.432688	80	6.11E-05	0.235341	0.595769
F3	NA	SO4	0.46711	81	1.10E-05	0.27701	0.62202
F3	NA	TDKN	0.707348	76	9.15E-13	0.57332	0.804506
F3	NA	TDPO4	0.068991	77	0.55104	-0.15742	0.288515
F3	NA	TKN	0.674835	75	3.16E-11	0.528874	0.782023
F3	NA	TOTN	0.885714	6	0.018845	0.263693	0.987471
F3	NA	TPO4	0.11045	79	0.332533	-0.11343	0.32366
F3	NA	TSS	-0.16459	18	0.513988	-0.58641	0.327449
F3	NA	NH4	0.265192	75	0.021482	0.040675	0.464217
F3	NA	NO2	0.118069	8	0.780669	-0.63985	0.759555

F3	NA	SCOND		1			
F3	NA	DOC	0.680747	73	3.45E-11	0.534369	0.787482
F3	NA	TDSFE	-0.02593	38	0.877183	-0.34278	0.296212
F3	NA	TDSCU	0.239476	38	0.147593	-0.08686	0.519401
F3	NA	TDSZN	-0.08773	34	0.621757	-0.41363	0.2581
F3	NA	TDSMN	0.9	5	0.037386	0.086077	0.993438
F3	NOX	OPO4	-0.00053	42	0.997344	-0.30442	0.303456
F3	NOX	PH	-0.41917	8	0.301267	-0.86758	0.4052
F3	NOX	SIO2	-0.30154	47	0.039417	-0.5418	-0.01573
F3	NOX	SO4	-0.01176	48	0.936789	-0.29491	0.273296
F3	NOX	TDKN	-0.12182	44	0.430852	-0.40409	0.181635
F3	NOX	TDPO4	0.155942	46	0.30072	-0.14073	0.426918
F3	NOX	TKN	0.025922	45	0.865777	-0.26967	0.317049
F3	NOX	TOTN	0.6	6	0.208	-0.41237	0.94931
F3	NOX	TPO4	-0.07747	48	0.600716	-0.35382	0.211321
F3	NOX	TSS	0.095289	15	0.73551	-0.43838	0.579283
F3	NOX	NH4	-0.00802	44	0.958793	-0.30418	0.289555
F3	NOX	NO2	0.339865	7	0.455765	-0.55533	0.870209
F3	NOX	SCOND		1			
F3	NOX	DOC	-0.01625	40	0.920729	-0.32611	0.296768
F3	NOX	TDSFE	0.265229	20	0.258411	-0.20088	0.633412
F3	NOX	TDSCU	-0.09259	17	0.723748	-0.54882	0.406134
F3	NOX	TDSZN	0.287219	17	0.263657	-0.22441	0.674724
F3	NOX	TDSMN		1			
F3	OPO4	PH	-0.60714	7	0.148231	-0.93343	0.268843
F3	OPO4	SIO2	-0.04371	67	0.725431	-0.28097	0.198589
F3	OPO4	SO4	0.110292	68	0.370591	-0.1316	0.339786
F3	OPO4	TDKN	0.140833	63	0.270921	-0.1108	0.3755
F3	OPO4	TDPO4	0.482553	64	5.39E-05	0.2686	0.65113
F3	OPO4	TKN	0.028853	62	0.823841	-0.22252	0.276632
F3	OPO4	TOTN	-0.3	5	0.623838	-0.93484	0.791864
F3	OPO4	TPO4	0.459145	69	7.24E-05	0.249582	0.627624
F3	OPO4	TSS	0.179379	16	0.506218	-0.34721	0.619965
F3	OPO4	NH4	0.141951	63	0.267099	-0.10968	0.376479
F3	OPO4	NO2	-0.11541	7	0.805383	-0.79903	0.698353
F3	OPO4	SCOND		1			
F3	OPO4	DOC	0.134111	61	0.302805	-0.12183	0.373328
F3	OPO4	TDSFE	0.400923	27	0.038216	0.02466	0.677691
F3	OPO4	TDSCU	0.434894	29	0.018391	0.081348	0.691228
F3	OPO4	TDSZN	0.395828	27	0.040974	0.018607	0.674403
F3	OPO4	TDSMN	0.359092	5	0.552815	-0.7658	0.942701
F3	PH	SIO2	-0.09524	8	0.822505	-0.74961	0.653287
F3	PH	SO4	-0.04762	8	0.910849	-0.72788	0.679876
F3	PH	TDKN	-0.37126	8	0.365202	-0.85283	0.451554
F3	PH	TDPO4	0.119048	8	0.778886	-0.63926	0.759974
F3	PH	TKN	0.142857	8	0.735765	-0.62471	0.770021
F3	PH	TOTN	0.028571	6	0.957155	-0.80158	0.8211
F3	PH	TPO4	0.325325	8	0.431688	-0.49219	0.837914
F3	PH	TSS	0.882735	6	0.01982	0.250939	0.987126
F3	PH	NH4	0.3	5	0.623838	-0.79186	0.934838
F3	PH	NO2	-1	2			
F3	PH	SCOND		1			

F3	PH	DOC		0			
F3	PH	TDSFE		0			
F3	PH	TDSCU		0			
F3	PH	TDSZN		0			
F3	PH	TDSMN		0			
F3	SIO2	SO4	0.684428	80	2.57E-12	0.546961	0.785955
F3	SIO2	TDKN	0.659335	75	1.26E-10	0.508458	0.770933
F3	SIO2	TDPO4	-0.01979	76	0.865249	-0.24416	0.20659
F3	SIO2	TKN	0.56679	75	1.15E-07	0.389994	0.703284
F3	SIO2	TOTN	0.2	6	0.704	-0.73007	0.870306
F3	SIO2	TPO4	-0.06065	78	0.597879	-0.27941	0.164103
F3	SIO2	TSS	-0.35387	18	0.149676	-0.70438	0.135371
F3	SIO2	NH4	0.059807	74	0.612735	-0.17103	0.284423
F3	SIO2	NO2	0.043499	8	0.918542	-0.68209	0.725928
F3	SIO2	SCOND		1			
F3	SIO2	DOC	0.481465	72	1.86E-05	0.281153	0.641575
F3	SIO2	TDSFE	0.224971	37	0.180665	-0.10684	0.511695
F3	SIO2	TDSCU	0.415567	38	0.009468	0.110567	0.64903
F3	SIO2	TDSZN	0.042198	33	0.815633	-0.30554	0.380008
F3	SIO2	TDSMN	0.7	5	0.18812	-0.47664	0.978166
F3	SO4	TDKN	0.554073	76	2.08E-07	0.375524	0.692966
F3	SO4	TDPO4	0.091438	77	0.429002	-0.13532	0.30909
F3	SO4	TKN	0.538058	75	6.41E-07	0.354368	0.681766
F3	SO4	TOTN	0.028571	6	0.957155	-0.80158	0.8211
F3	SO4	TPO4	-0.08869	79	0.437011	-0.30384	0.135075
F3	SO4	TSS	0.007817	18	0.975442	-0.46074	0.472968
F3	SO4	NH4	-0.05614	75	0.632347	-0.27955	0.173027
F3	SO4	NO2	0.074125	8	0.861524	-0.66531	0.740145
F3	SO4	SCOND		1			
F3	SO4	DOC	0.533509	73	1.17E-06	0.345895	0.680102
F3	SO4	TDSFE	0.208633	38	0.208745	-0.11899	0.495287
F3	SO4	TDSCU	0.50519	38	0.001216	0.221231	0.710182
F3	SO4	TDSZN	-0.04127	34	0.816735	-0.37422	0.301103
F3	SO4	TDSMN	0.8	5	0.104088	-0.27966	0.986197
F3	TDKN	TDPO4	0.004491	72	0.970136	-0.22742	0.235918
F3	TDKN	TKN	0.881657	71	0	0.816249	0.924747
F3	TDKN	TOTN	0.714286	6	0.110787	-0.23146	0.965919
F3	TDKN	TPO4	-0.00098	74	0.993386	-0.22943	0.227573
F3	TDKN	TSS	0.173282	18	0.491689	-0.31944	0.592246
F3	TDKN	NH4	0.29785	70	0.012271	0.067603	0.497976
F3	TDKN	NO2	0.886076	7	0.007906	0.399758	0.983127
F3	TDKN	SCOND		1			
F3	TDKN	DOC	0.74025	68	5.45E-13	0.609374	0.831859
F3	TDKN	TDSFE	0.299107	36	0.076373	-0.03264	0.571489
F3	TDKN	TDSCU	0.411981	35	0.013928	0.091258	0.655269
F3	TDKN	TDSZN	-0.06835	31	0.714863	-0.4127	0.293097
F3	TDKN	TDSMN	0.8	5	0.104088	-0.27966	0.986197
F3	TDPO4	TKN	-0.00847	72	0.943678	-0.23968	0.223638
F3	TDPO4	TOTN	0.371429	6	0.468478	-0.63007	0.908991
F3	TDPO4	TPO4	0.717361	76	3.09E-13	0.586809	0.811562
F3	TDPO4	TSS	0.220557	16	0.411735	-0.30893	0.645676
F3	TDPO4	NH4	0.053977	71	0.654823	-0.18162	0.283712

F3	TDPO4	NO2	-0.53169	8	0.175031	-0.89939	0.276643
F3	TDPO4	SCOND		1			
F3	TDPO4	DOC	0.212556	69	0.079523	-0.02541	0.427723
F3	TDPO4	TDSFE	0.274512	35	0.110515	-0.06466	0.556825
F3	TDPO4	TDSCU	0.275505	37	0.098856	-0.05328	0.550395
F3	TDPO4	TDSZN	0.132872	32	0.468477	-0.22631	0.460248
F3	TDPO4	TDSMN	-0.35909	5	0.552815	-0.9427	0.765797
F3	TKN	TOTN	1	6	0		
F3	TKN	TPO4	-0.02029	73	0.864683	-0.2492	0.210761
F3	TKN	TSS	0.054694	17	0.83485	-0.43746	0.521633
F3	TKN	NH4	0.26068	69	0.030513	0.025573	0.468461
F3	TKN	NO2	0.538119	7	0.212766	-0.3614	0.918836
F3	TKN	SCOND		1			
F3	TKN	DOC	0.703817	67	3.07E-11	0.557931	0.807507
F3	TKN	TDSFE	0.25506	33	0.151992	-0.09672	0.550196
F3	TKN	TDSCU	0.367689	34	0.032406	0.033709	0.627799
F3	TKN	TDSZN	-0.17934	28	0.361169	-0.51778	0.207637
F3	TKN	TDSMN	0.666886	5	0.218894	-0.52326	0.97531
F3	TOTN	TPO4	0.724714	6	0.103243	-0.21089	0.967338
F3	TOTN	TSS	0.210819	4	0.789181	-0.94092	0.974466
F3	TOTN	NH4	0.8	5	0.104088	-0.27966	0.986197
F3	TOTN	NO2		0			
F3	TOTN	SCOND		0			
F3	TOTN	DOC		0			
F3	TOTN	TDSFE		0			
F3	TOTN	TDSCU		0			
F3	TOTN	TDSZN		0			
F3	TOTN	TDSMN		0			
F3	TPO4	TSS	0.030559	18	0.904191	-0.44263	0.490439
F3	TPO4	NH4	0.225593	73	0.054982	-0.00472	0.433181
F3	TPO4	NO2	-0.18531	8	0.660412	-0.7872	0.597378
F3	TPO4	SCOND		1			
F3	TPO4	DOC	0.190909	71	0.110761	-0.04438	0.406128
F3	TPO4	TDSFE	0.30238	36	0.073057	-0.02905	0.573907
F3	TPO4	TDSCU	0.235189	37	0.161142	-0.09616	0.519615
F3	TPO4	TDSZN	0.265642	33	0.135136	-0.08547	0.558062
F3	TPO4	TDSMN	0.111803	5	0.857945	-0.85479	0.904823
F3	TSS	NH4	-0.07616	15	0.787339	-0.56634	0.453816
F3	TSS	NO2	0.5	3	0.666667		
F3	TSS	SCOND		1			
F3	TSS	DOC	0.030089	12	0.926043	-0.55338	0.593745
F3	TSS	TDSFE	0.3	5	0.623838	-0.79186	0.934838
F3	TSS	TDSCU		1			
F3	TSS	TDSZN	0.5	3	0.666667		
F3	TSS	TDSMN		0			
F3	NH4	NO2	0.637536	6	0.17326	-0.36062	0.954989
F3	NH4	SCOND		0			
F3	NH4	DOC	0.341782	70	0.003782	0.116131	0.533884
F3	NH4	TDSFE	-0.17193	36	0.316032	-0.47371	0.165991
F3	NH4	TDSCU	-0.36547	38	0.024049	-0.61348	-0.05184
F3	NH4	TDSZN	-0.02428	34	0.891568	-0.3595	0.316487
F3	NH4	TDSMN	0.4	4	0.6	-0.91151	0.983137

F3	NO2	SCOND		1			
F3	NO2	DOC	0.750366	6	0.085697	-0.15652	0.970765
F3	NO2	TDSFE	0	3	1		
F3	NO2	TDSCU	-1	2			
F3	NO2	TDSZN	-1	2			
F3	NO2	TDSMN		0			
F3	SCOND	DOC		0			
F3	SCOND	TDSFE		0			
F3	SCOND	TDSCU		0			
F3	SCOND	TDSZN		0			
F3	SCOND	TDSMN		0			
F3	DOC	TDSFE	0.240775	38	0.145343	-0.08549	0.520407
F3	DOC	TDSCU	0.334873	38	0.03987	0.017005	0.591264
F3	DOC	TDSZN	-0.13231	34	0.455728	-0.45033	0.215508
F3	DOC	TDSMN	0.7	5	0.18812	-0.47664	0.978166
F3	TDSFE	TDSCU	0.282944	23	0.190804	-0.14633	0.622544
F3	TDSFE	TDSZN	0.098783	22	0.66185	-0.33686	0.499591
F3	TDSFE	TDSMN		0			
F3	TDSCU	TDSZN	0.151545	29	0.432602	-0.22761	0.490797
F3	TDSCU	TDSMN	1	2			
F3	TDSZN	TDSMN		1			
F4	AGP	ALK	-0.09356	40	0.565825	-0.3936	0.2245
F4	AGP	CA	-0.25841	40	0.107402	-0.52746	0.057754
F4	AGP	CL	-0.14112	39	0.391504	-0.43717	0.182534
F4	AGP	K	-0.09365	40	0.565434	-0.39368	0.22441
F4	AGP	MG	-0.14874	40	0.359685	-0.43987	0.170688
F4	AGP	NA	-0.13262	40	0.414627	-0.42651	0.186604
F4	AGP	NOX	-0.41911	29	0.023634	-0.68101	-0.06214
F4	AGP	OPO4	-0.09193	23	0.676533	-0.48574	0.33289
F4	AGP	PH	0.378394	7	0.402602	-0.52398	0.880544
F4	AGP	SIO2	-0.10677	39	0.517666	-0.40853	0.216029
F4	AGP	SO4	-0.08171	40	0.616227	-0.38346	0.235811
F4	AGP	TDKN	-0.14273	40	0.379625	-0.43491	0.176639
F4	AGP	TDPO4	0.171694	38	0.302674	-0.15659	0.465815
F4	AGP	TKN	0.012857	37	0.939796	-0.31247	0.335484
F4	AGP	TOTN	0.6	5	0.284757	-0.59977	0.969209
F4	AGP	TPO4	0.408217	37	0.012135	0.097026	0.646701
F4	AGP	TSS	-0.2538	13	0.402762	-0.70605	0.345515
F4	AGP	NH4	-0.21063	35	0.224546	-0.50821	0.131879
F4	AGP	NO2	0.151794	6	0.774058	-0.75247	0.857701
F4	AGP	SCOND	-1	2			
F4	AGP	DOC	-0.1576	33	0.381071	-0.4752	0.196338
F4	AGP	TDSFE	0.619734	12	0.031602	0.071119	0.880481
F4	AGP	TDSCU	-0.19356	14	0.507307	-0.65671	0.375599
F4	AGP	TDSZN	0.140849	12	0.662387	-0.47115	0.661302
F4	AGP	TDSMN	0.5	3	0.666667		
F4	ALK	CA	0.794822	74	0	0.692	0.866036
F4	ALK	CL	0.754822	70	4.44E-14	0.631927	0.84069
F4	ALK	K	0.602537	74	1.35E-08	0.433754	0.730468
F4	ALK	MG	0.791493	74	0	0.687293	0.863775
F4	ALK	NA	0.705956	74	2.14E-12	0.569286	0.804657
F4	ALK	NOX	-0.04645	40	0.775958	-0.35286	0.26896

F4	ALK	OPO4	-0.0047	45	0.97556	-0.29783	0.289239
F4	ALK	PH	-0.05883	9	0.880507	-0.69577	0.629914
F4	ALK	SIO2	0.599931	73	2.03E-08	0.429085	0.729335
F4	ALK	SO4	0.613564	74	6.16E-09	0.44785	0.738525
F4	ALK	TDKN	0.712737	70	4.49E-12	0.573868	0.811763
F4	ALK	TDPO4	-0.03111	72	0.795288	-0.26091	0.202015
F4	ALK	TKN	0.611471	68	3.04E-08	0.436711	0.741757
F4	ALK	TOTN	0.857143	7	0.013697	0.293576	0.978562
F4	ALK	TPO4	-0.19874	71	0.096613	-0.4129	0.036249
F4	ALK	TSS	-0.02815	16	0.917581	-0.51665	0.474181
F4	ALK	NH4	0.070534	67	0.570587	-0.1726	0.305569
F4	ALK	NO2	-0.6436	9	0.061439	-0.91614	0.035863
F4	ALK	SCOND	1	2			
F4	ALK	DOC	0.661894	64	2.60E-09	0.496933	0.780688
F4	ALK	TDSFE	-0.15754	33	0.38126	-0.47515	0.196399
F4	ALK	TDSCU	0.305926	36	0.069592	-0.02514	0.576521
F4	ALK	TDSZN	0.000223	30	0.999065	-0.36008	0.36047
F4	ALK	TDSMN	0.3	5	0.623838	-0.79186	0.934838
F4	CA	CL	0.717067	70	2.90E-12	0.579779	0.814762
F4	CA	K	0.759603	74	4.22E-15	0.642645	0.841965
F4	CA	MG	0.930646	74	0	0.891786	0.955877
F4	CA	NA	0.810409	74	0	0.714154	0.876585
F4	CA	NOX	0.120675	40	0.458249	-0.19829	0.416532
F4	CA	OPO4	0.061721	45	0.687117	-0.2361	0.348938
F4	CA	PH	0.042018	9	0.914527	-0.63997	0.686978
F4	CA	SIO2	0.569856	73	1.42E-07	0.391055	0.707208
F4	CA	SO4	0.657564	74	1.96E-10	0.504929	0.770322
F4	CA	TDKN	0.665166	70	3.37E-10	0.509882	0.77847
F4	CA	TDPO4	-0.0066	72	0.956128	-0.23791	0.225418
F4	CA	TKN	0.605838	68	4.40E-08	0.429441	0.737706
F4	CA	TOTN	0.678571	7	0.09375	-0.15234	0.947471
F4	CA	TPO4	-0.21994	71	0.065331	-0.43112	0.014091
F4	CA	TSS	0.225191	16	0.401723	-0.30451	0.648511
F4	CA	NH4	0.179388	67	0.146352	-0.06356	0.402267
F4	CA	NO2	-0.6436	9	0.061439	-0.91614	0.035863
F4	CA	SCOND	1	2			
F4	CA	DOC	0.642864	64	1.02E-08	0.47157	0.767408
F4	CA	TDSFE	-0.36409	33	0.03725	-0.62881	-0.02375
F4	CA	TDSCU	0.414017	36	0.012066	0.098933	0.653648
F4	CA	TDSZN	-0.04264	30	0.822955	-0.39682	0.322588
F4	CA	TDSMN	0.6	5	0.284757	-0.59977	0.969209
F4	CL	K	0.602808	70	3.35E-08	0.42853	0.73384
F4	CL	MG	0.747547	70	1.05E-13	0.62179	0.835724
F4	CL	NA	0.917633	70	0	0.870315	0.948164
F4	CL	NOX	0.041566	38	0.804308	-0.28187	0.356517
F4	CL	OPO4	0.066618	44	0.66745	-0.23491	0.356454
F4	CL	PH	0.550782	6	0.257369	-0.47158	0.941502
F4	CL	SIO2	0.412272	69	0.000432	0.194573	0.591262
F4	CL	SO4	0.498747	70	1.11E-05	0.298784	0.656757
F4	CL	TDKN	0.603851	66	7.98E-08	0.423746	0.738023
F4	CL	TDPO4	0.08798	68	0.475577	-0.15367	0.319703
F4	CL	TKN	0.563269	64	1.26E-06	0.368474	0.710682

F4	CL	TOTN	0.8	4	0.2	-0.69697	0.995601
F4	CL	TPO4	-0.10957	67	0.377424	-0.34081	0.134174
F4	CL	TSS	0.163818	15	0.559633	-0.38037	0.623744
F4	CL	NH4	0.086988	66	0.487364	-0.15838	0.32224
F4	CL	NO2	-0.41586	9	0.265605	-0.84627	0.343
F4	CL	SCOND	1	2			
F4	CL	DOC	0.640188	63	1.61E-08	0.466398	0.766393
F4	CL	TDSFE	-0.16265	32	0.373776	-0.4839	0.197237
F4	CL	TDSCU	0.218708	36	0.200012	-0.11834	0.510563
F4	CL	TDSZN	0.031892	30	0.867133	-0.3322	0.387713
F4	CL	TDSMN	0.3	5	0.623838	-0.79186	0.934838
F4	K	MG	0.838721	74	0	0.754894	0.895585
F4	K	NA	0.744578	74	2.86E-14	0.621881	0.831595
F4	K	NOX	-0.12458	40	0.443713	-0.41981	0.194479
F4	K	OPO4	-0.03553	45	0.816784	-0.32567	0.260732
F4	K	PH	0.151266	9	0.697659	-0.57014	0.740959
F4	K	SIO2	0.53928	73	8.54E-07	0.353007	0.684432
F4	K	SO4	0.558388	74	2.35E-07	0.378132	0.69785
F4	K	TDKN	0.460214	70	6.11E-05	0.252546	0.62735
F4	K	TDPO4	-0.11088	72	0.353808	-0.33397	0.123979
F4	K	TKN	0.4307	68	0.000246	0.214275	0.606815
F4	K	TOTN	0.821429	7	0.023449	0.179237	0.972757
F4	K	TPO4	-0.20352	71	0.088702	-0.41702	0.031277
F4	K	TSS	0.152597	16	0.572621	-0.37119	0.602718
F4	K	NH4	0.139709	67	0.259493	-0.10399	0.367586
F4	K	NO2	-0.48517	9	0.185549	-0.86922	0.264034
F4	K	SCOND	1	2			
F4	K	DOC	0.454064	64	0.000164	0.234415	0.629605
F4	K	TDSFE	-0.35419	33	0.043146	-0.62188	-0.01238
F4	K	TDSCU	0.306855	36	0.068706	-0.02412	0.577205
F4	K	TDSZN	-0.09935	30	0.601425	-0.44374	0.270608
F4	K	TDSMN	0.7	5	0.18812	-0.47664	0.978166
F4	MG	NA	0.865842	74	0	0.794536	0.913593
F4	MG	NOX	0.020449	40	0.900329	-0.29293	0.329863
F4	MG	OPO4	-0.10771	45	0.481254	-0.38895	0.191892
F4	MG	PH	0.193284	9	0.618298	-0.54019	0.759872
F4	MG	SIO2	0.629618	73	2.42E-09	0.467228	0.750914
F4	MG	SO4	0.658882	74	1.75E-10	0.50666	0.771266
F4	MG	TDKN	0.653597	70	8.57E-10	0.494577	0.770276
F4	MG	TDPO4	-0.02628	72	0.826522	-0.2564	0.206647
F4	MG	TKN	0.588987	68	1.27E-07	0.40783	0.725529
F4	MG	TOTN	0.928571	7	0.002519	0.583609	0.98962
F4	MG	TPO4	-0.18601	71	0.120396	-0.40188	0.049444
F4	MG	TSS	0.207413	16	0.44083	-0.32134	0.637572
F4	MG	NH4	0.178421	67	0.148578	-0.06456	0.401429
F4	MG	NO2	-0.46537	9	0.206819	-0.86283	0.287669
F4	MG	SCOND	1	2			
F4	MG	DOC	0.638432	64	1.38E-08	0.465703	0.7643
F4	MG	TDSFE	-0.43868	33	0.010655	-0.67964	-0.11228
F4	MG	TDSCU	0.312812	36	0.063232	-0.01753	0.581583
F4	MG	TDSZN	-0.10293	30	0.588348	-0.44664	0.26726
F4	MG	TDSMN	0.5	5	0.391002	-0.68402	0.959154

F4	NA	NOX	0.098698	40	0.544576	-0.21957	0.397976
F4	NA	OPO4	0.020299	45	0.894708	-0.27488	0.311979
F4	NA	PH	0.260513	9	0.498392	-0.48806	0.788262
F4	NA	SIO2	0.391084	73	0.000624	0.176932	0.569879
F4	NA	SO4	0.425248	74	0.000159	0.217921	0.595852
F4	NA	TDKN	0.574487	70	1.99E-07	0.392491	0.71319
F4	NA	TDPO4	0.053168	72	0.657361	-0.18073	0.281374
F4	NA	TKN	0.543815	68	1.65E-06	0.350882	0.692459
F4	NA	TOTN	0.857143	7	0.013697	0.293576	0.978562
F4	NA	TPO4	-0.02176	71	0.857059	-0.25378	0.212627
F4	NA	TSS	0.21572	16	0.422321	-0.31352	0.642705
F4	NA	NH4	0.150903	67	0.222865	-0.09267	0.377434
F4	NA	NO2	-0.52201	9	0.149432	-0.88079	0.21754
F4	NA	SCOND	1	2			
F4	NA	DOC	0.548752	64	2.67E-06	0.350174	0.700126
F4	NA	TDSFE	-0.34922	33	0.046375	-0.61839	-0.00671
F4	NA	TDSCU	0.202466	36	0.236319	-0.13506	0.497889
F4	NA	TDSZN	0.1208	30	0.524861	-0.25037	0.461012
F4	NA	TDSMN	0.3	5	0.623838	-0.79186	0.934838
F4	NOX	OPO4	0.0543	24	0.80104	-0.35692	0.447893
F4	NOX	PH	-0.60336	8	0.113277	-0.91781	0.176268
F4	NOX	SIO2	-0.27127	39	0.094836	-0.54052	0.048399
F4	NOX	SO4	-0.08457	40	0.603865	-0.38592	0.233083
F4	NOX	TDKN	0.070237	37	0.679546	-0.2597	0.385488
F4	NOX	TDPO4	-0.10857	38	0.516456	-0.41389	0.218713
F4	NOX	TKN	-0.0049	38	0.97673	-0.32408	0.315287
F4	NOX	TOTN	0.5161	6	0.294584	-0.50842	0.935735
F4	NOX	TPO4	-0.05939	38	0.7232	-0.37202	0.265337
F4	NOX	TSS	0.129889	13	0.672345	-0.45357	0.635407
F4	NOX	NH4	0.531856	34	0.001207	0.23616	0.7374
F4	NOX	NO2	0.600245	6	0.207765	-0.41205	0.949348
F4	NOX	SCOND	1	2			
F4	NOX	DOC	-0.05327	32	0.772172	-0.39464	0.301025
F4	NOX	TDSFE	-0.3172	15	0.249317	-0.71353	0.232913
F4	NOX	TDSCU	-0.04513	15	0.873124	-0.5448	0.478199
F4	NOX	TDSZN	0.366295	13	0.218333	-0.2314	0.763246
F4	NOX	TDSMN	-0.5	3	0.666667		
F4	OPO4	PH	0.774597	4	0.225403	-0.72979	0.994972
F4	OPO4	SIO2	-0.16066	44	0.297511	-0.43671	0.143051
F4	OPO4	SO4	-0.08685	45	0.570531	-0.37093	0.212099
F4	OPO4	TDKN	0.096508	43	0.538136	-0.20993	0.385677
F4	OPO4	TDPO4	0.089786	45	0.557512	-0.20927	0.373482
F4	OPO4	TKN	0.016127	41	0.920283	-0.29298	0.322184
F4	OPO4	TOTN	1	2			
F4	OPO4	TPO4	0.009205	47	0.951032	-0.2787	0.295596
F4	OPO4	TSS	-0.23807	9	0.53733	-0.77903	0.506073
F4	OPO4	NH4	-0.12207	42	0.441242	-0.41076	0.188877
F4	OPO4	NO2	0	8	1	-0.70468	0.704681
F4	OPO4	SCOND		2			
F4	OPO4	DOC	-0.04733	41	0.768865	-0.34989	0.264171
F4	OPO4	TDSFE	0.339663	18	0.167888	-0.15119	0.696145
F4	OPO4	TDSCU	0.246489	22	0.268803	-0.19544	0.605209

F4	OPO4	TDSZN	0.185877	16	0.490671	-0.34128	0.624086
F4	OPO4	TDSMN	-0.63246	5	0.252215	-0.97223	0.565193
F4	PH	SIO2	-0.03361	9	0.931585	-0.68251	0.644913
F4	PH	SO4	-0.28572	9	0.456086	-0.79836	0.467028
F4	PH	TDKN	-0.31094	9	0.415407	-0.80818	0.445111
F4	PH	TDPO4	0.327279	8	0.428763	-0.49053	0.838564
F4	PH	TKN	0.18488	9	0.633928	-0.54633	0.756165
F4	PH	TOTN	0.234244	7	0.613155	-0.62995	0.839263
F4	PH	TPO4	0.415663	8	0.30575	-0.40874	0.866529
F4	PH	TSS	-0.40584	6	0.424663	-0.91578	0.604993
F4	PH	NH4	-1	3	0		
F4	PH	NO2	0	3	1		
F4	PH	SCOND	-1	2			
F4	PH	DOC		0			
F4	PH	TDSFE		0			
F4	PH	TDSCU		0			
F4	PH	TDSZN		0			
F4	PH	TDSMN		0			
F4	SIO2	SO4	0.617415	73	5.96E-09	0.451475	0.742075
F4	SIO2	TDKN	0.519074	69	4.89E-06	0.321942	0.673068
F4	SIO2	TDPO4	-0.17582	71	0.142476	-0.39301	0.059948
F4	SIO2	TKN	0.548153	68	1.31E-06	0.356289	0.695662
F4	SIO2	TOTN	0.035714	7	0.939408	-0.73718	0.768121
F4	SIO2	TPO4	-0.21759	70	0.070386	-0.43055	0.01833
F4	SIO2	TSS	0.03902	15	0.890189	-0.4829	0.540487
F4	SIO2	NH4	0.133745	66	0.284347	-0.11192	0.363999
F4	SIO2	NO2	-0.55448	9	0.121299	-0.89064	0.173561
F4	SIO2	SCOND	1	2			
F4	SIO2	DOC	0.484698	63	5.68E-05	0.269266	0.653935
F4	SIO2	TDSFE	-0.2785	32	0.122717	-0.57168	0.077751
F4	SIO2	TDSCU	0.448662	36	0.006059	0.140888	0.677358
F4	SIO2	TDSZN	-0.2491	29	0.19254	-0.56411	0.129206
F4	SIO2	TDSMN	0.615587	5	0.268998	-0.5837	0.970672
F4	SO4	TDKN	0.542556	70	1.22E-06	0.35252	0.689615
F4	SO4	TDPO4	0.120201	72	0.314541	-0.11466	0.34234
F4	SO4	TKN	0.452671	68	0.000106	0.240162	0.623776
F4	SO4	TOTN	-0.03571	7	0.939408	-0.76812	0.737178
F4	SO4	TPO4	-0.19404	71	0.104916	-0.40884	0.041126
F4	SO4	TSS	0.006677	16	0.980422	-0.49066	0.500732
F4	SO4	NH4	0.033101	67	0.790302	-0.20877	0.271158
F4	SO4	NO2	-0.48517	9	0.185549	-0.86922	0.264034
F4	SO4	SCOND	1	2			
F4	SO4	DOC	0.667772	64	1.67E-09	0.504824	0.784768
F4	SO4	TDSFE	-0.00981	33	0.956791	-0.35194	0.334632
F4	SO4	TDSCU	0.426107	36	0.009563	0.113448	0.661976
F4	SO4	TDSZN	-0.23326	30	0.214789	-0.54752	0.138673
F4	SO4	TDSMN	0.6	5	0.284757	-0.59977	0.969209
F4	TDKN	TDPO4	-0.13527	68	0.271384	-0.36203	0.106593
F4	TDKN	TKN	0.791661	65	4.22E-15	0.678832	0.867969
F4	TDKN	TOTN	0.714286	7	0.071344	-0.08392	0.954124
F4	TDKN	TPO4	-0.22822	67	0.063244	-0.44408	0.012692
F4	TDKN	TSS	0.002239	16	0.993435	-0.49402	0.4974

F4	TDKN	NH4	0.252727	63	0.045678	0.005289	0.471003
F4	TDKN	NO2	-0.41263	9	0.269712	-0.84516	0.346433
F4	TDKN	SCOND	1	2			
F4	TDKN	DOC	0.750517	60	5.05E-12	0.613509	0.843662
F4	TDKN	TDSFE	-0.35464	32	0.046416	-0.62593	-0.00678
F4	TDKN	TDSCU	0.318037	33	0.071279	-0.02838	0.596249
F4	TDKN	TDSZN	-0.13815	27	0.491952	-0.49233	0.255268
F4	TDKN	TDSMN	0.46169	5	0.433766	-0.70965	0.954969
F4	TDPO4	TKN	-0.11734	66	0.348107	-0.34945	0.128347
F4	TDPO4	TOTN	-0.38252	6	0.454207	-0.91121	0.622208
F4	TDPO4	TPO4	0.555854	71	4.85E-07	0.370609	0.698568
F4	TDPO4	TSS	-0.20127	15	0.471955	-0.64685	0.346752
F4	TDPO4	NH4	-0.22206	65	0.075433	-0.44202	0.023096
F4	TDPO4	NO2	0.377834	9	0.316072	-0.3822	0.832951
F4	TDPO4	SCOND	1	2			
F4	TDPO4	DOC	0.018682	63	0.88445	-0.23015	0.265224
F4	TDPO4	TDSFE	0.458578	32	0.008298	0.130793	0.695985
F4	TDPO4	TDSCU	0.055137	36	0.749431	-0.27845	0.376852
F4	TDPO4	TDSZN	0.028495	30	0.881181	-0.33522	0.38482
F4	TDPO4	TDSMN	-0.30779	5	0.614384	-0.93591	0.78864
F4	TKN	TOTN	1	7	0		
F4	TKN	TPO4	0.006077	65	0.961683	-0.23818	0.24961
F4	TKN	TSS	0.17148	15	0.541148	-0.37361	0.628537
F4	TKN	NH4	0.156494	61	0.22843	-0.09924	0.392838
F4	TKN	NO2	-0.64903	9	0.058577	-0.91763	0.026544
F4	TKN	SCOND	1	2			
F4	TKN	DOC	0.693971	58	1.54E-09	0.530822	0.807521
F4	TKN	TDSFE	-0.26965	29	0.157182	-0.57895	0.107481
F4	TKN	TDSCU	0.256358	32	0.156693	-0.10141	0.555409
F4	TKN	TDSZN	-0.08406	28	0.670641	-0.44324	0.298383
F4	TKN	TDSMN	0.666886	5	0.218894	-0.52326	0.97531
F4	TOTN	TPO4	0.231908	6	0.658374	-0.71405	0.878193
F4	TOTN	TSS	-0.8	4	0.2	-0.9956	0.696972
F4	TOTN	NH4	0.5	3	0.666667		
F4	TOTN	NO2		1			
F4	TOTN	SCOND		1			
F4	TOTN	DOC		0			
F4	TOTN	TDSFE		0			
F4	TOTN	TDSCU		0			
F4	TOTN	TDSZN		0			
F4	TOTN	TDSMN		0			
F4	TPO4	TSS	-0.16592	15	0.554534	-0.62506	0.378523
F4	TPO4	NH4	-0.05144	64	0.686437	-0.29354	0.196861
F4	TPO4	NO2	0.014978	9	0.969494	-0.65567	0.672419
F4	TPO4	SCOND	-1	2			
F4	TPO4	DOC	-0.10357	62	0.423087	-0.34443	0.150085
F4	TPO4	TDSFE	0.096846	32	0.597993	-0.26066	0.430991
F4	TPO4	TDSCU	-0.10033	35	0.566352	-0.41955	0.240983
F4	TPO4	TDSZN	0.296597	29	0.118204	-0.07844	0.598092
F4	TPO4	TDSMN	-0.1539	5	0.804829	-0.9123	0.842811
F4	TSS	NH4	0.235817	12	0.460601	-0.39101	0.713203
F4	TSS	NO2	0.353553	5	0.559404	-0.76841	0.94199

F4	TSS	SCOND	1	2			
F4	TSS	DOC	-0.23692	10	0.509854	-0.75407	0.461565
F4	TSS	TDSFE	-0.45964	8	0.251871	-0.87946	0.362437
F4	TSS	TDSCU	1	2			
F4	TSS	TDSZN	1	3	0		
F4	TSS	TDSMN		0			
F4	NH4	NO2	-0.13363	7	0.775162	-0.80562	0.688746
F4	NH4	SCOND		1			
F4	NH4	DOC	0.245831	63	0.052129	-0.00206	0.465261
F4	NH4	TDSFE	-0.40406	33	0.019696	-0.65633	-0.07053
F4	NH4	TDSCU	-0.0681	36	0.693105	-0.38796	0.266401
F4	NH4	TDSZN	0.157565	30	0.405657	-0.21491	0.490023
F4	NH4	TDSMN	0.9	5	0.037386	0.086077	0.993438
F4	NO2	SCOND		2			
F4	NO2	DOC	-0.84515	6	0.034109	-0.98269	-0.10693
F4	NO2	TDSFE		3			
F4	NO2	TDSCU		2			
F4	NO2	TDSZN	0	3	1		
F4	NO2	TDSMN		0			
F4	SCOND	DOC		0			
F4	SCOND	TDSFE		0			
F4	SCOND	TDSCU		0			
F4	SCOND	TDSZN		0			
F4	SCOND	TDSMN		0			
F4	DOC	TDSFE	-0.15396	32	0.400175	-0.47705	0.205788
F4	DOC	TDSCU	0.272592	36	0.107735	-0.06145	0.551722
F4	DOC	TDSZN	-0.08059	30	0.672041	-0.42843	0.288048
F4	DOC	TDSMN	0.615587	5	0.268998	-0.5837	0.970672
F4	TDSFE	TDSCU	0.29132	19	0.226244	-0.18774	0.658414
F4	TDSFE	TDSZN	-0.04848	17	0.853409	-0.51708	0.442483
F4	TDSFE	TDSMN		0			
F4	TDSCU	TDSZN	0.244105	26	0.229455	-0.15821	0.576913
F4	TDSCU	TDSMN	0.447214	4	0.552786	-0.90124	0.984957
F4	TDSZN	TDSMN		0			
F5	AGP	ALK	-0.23918	42	0.127129	-0.50631	0.069833
F5	AGP	CA	-0.32992	42	0.032866	-0.57609	-0.02887
F5	AGP	CL	-0.20857	41	0.190649	-0.4851	0.105877
F5	AGP	K	-0.17689	42	0.262451	-0.45629	0.13427
F5	AGP	MG	-0.19675	42	0.21172	-0.47243	0.114005
F5	AGP	NA	-0.17513	42	0.267296	-0.45485	0.13605
F5	AGP	NOX	-0.18736	33	0.29645	-0.4986	0.166677
F5	AGP	OPO4	-0.12919	21	0.576748	-0.53126	0.320366
F5	AGP	PH	0.380952	8	0.351813	-0.44252	0.855874
F5	AGP	SIO2	-0.18429	40	0.254966	-0.46889	0.134974
F5	AGP	SO4	-0.19905	41	0.212157	-0.47747	0.11569
F5	AGP	TDKN	-0.1927	42	0.221467	-0.46916	0.118159
F5	AGP	TDPO4	-0.17578	35	0.312462	-0.48087	0.167268
F5	AGP	TKN	-0.19783	40	0.22109	-0.47978	0.121153
F5	AGP	TOTN	-0.37143	6	0.468478	-0.90899	0.630067
F5	AGP	TPO4	-0.00756	41	0.962572	-0.31449	0.300793
F5	AGP	TSS	-0.26802	10	0.454042	-0.76804	0.435029
F5	AGP	NH4	-0.07076	38	0.672932	-0.38181	0.254694

F5	AGP	NO2	0.212512	6	0.686031	-0.72391	0.87344
F5	AGP	SCOND		1			
F5	AGP	DOC	-0.12758	34	0.472111	-0.44649	0.220084
F5	AGP	TDSFE	0.388525	14	0.169798	-0.17895	0.762024
F5	AGP	TDSCU	-0.23634	12	0.459577	-0.71348	0.390541
F5	AGP	TDSZN	-0.17857	7	0.701658	-0.8212	0.663753
F5	AGP	TDSMN	-0.4	4	0.6	-0.98314	0.911505
F5	ALK	CA	0.910612	84	0	0.865113	0.941248
F5	ALK	CL	0.672997	80	8.02E-12	0.531934	0.777716
F5	ALK	K	0.720415	84	1.11E-14	0.598451	0.809744
F5	ALK	MG	0.86647	84	0	0.800844	0.911533
F5	ALK	NA	0.701395	84	1.08E-13	0.573191	0.796081
F5	ALK	NOX	-0.01373	60	0.917096	-0.26673	0.241043
F5	ALK	OPO4	-0.14962	44	0.332377	-0.42751	0.154116
F5	ALK	PH	0.018182	10	0.96024	-0.61853	0.640484
F5	ALK	SIO2	0.542816	82	1.38E-07	0.369309	0.679754
F5	ALK	SO4	0.534697	83	1.92E-07	0.360591	0.672796
F5	ALK	TDKN	0.652336	82	3.15E-11	0.507115	0.76154
F5	ALK	TDPO4	-0.11729	70	0.333558	-0.34282	0.121026
F5	ALK	TKN	0.625046	79	7.41E-10	0.46871	0.743415
F5	ALK	TOTN	0.238095	8	0.570156	-0.56065	0.807323
F5	ALK	TPO4	-0.0603	83	0.588159	-0.27245	0.157442
F5	ALK	TSS	-0.14888	11	0.662197	-0.68737	0.495235
F5	ALK	NH4	-0.01756	80	0.877124	-0.23637	0.202942
F5	ALK	NO2	-0.341	9	0.369155	-0.81953	0.417729
F5	ALK	SCOND		1			
F5	ALK	DOC	0.701945	73	4.56E-12	0.562757	0.802426
F5	ALK	TDSFE	-0.01308	41	0.935319	-0.31945	0.295768
F5	ALK	TDSCU	0.262762	37	0.116134	-0.06696	0.540746
F5	ALK	TDSZN	0.084699	30	0.656318	-0.28425	0.431798
F5	ALK	TDSMN	0.2	5	0.74706	-0.82846	0.919944
F5	CA	CL	0.50075	80	2.24E-06	0.315772	0.649058
F5	CA	K	0.765062	84	0	0.65871	0.841441
F5	CA	MG	0.852414	84	0	0.780692	0.901972
F5	CA	NA	0.609671	84	7.50E-10	0.454708	0.728806
F5	CA	NOX	-0.12446	60	0.343386	-0.3668	0.133692
F5	CA	OPO4	-0.07378	44	0.634085	-0.36272	0.228098
F5	CA	PH	0.103344	10	0.776334	-0.56292	0.688198
F5	CA	SIO2	0.595378	82	3.64E-09	0.434507	0.719436
F5	CA	SO4	0.663164	83	8.45E-12	0.522161	0.768877
F5	CA	TDKN	0.606524	82	1.55E-09	0.448552	0.727747
F5	CA	TDPO4	-0.09018	70	0.457821	-0.31841	0.147932
F5	CA	TKN	0.590801	79	9.95E-09	0.425237	0.718106
F5	CA	TOTN	0.19162	8	0.64941	-0.59316	0.789671
F5	CA	TPO4	-0.07553	83	0.497366	-0.28655	0.142485
F5	CA	TSS	-0.15818	11	0.642269	-0.69237	0.488008
F5	CA	NH4	-0.01133	80	0.920513	-0.23048	0.208906
F5	CA	NO2	-0.341	9	0.369155	-0.81953	0.417729
F5	CA	SCOND		1			
F5	CA	DOC	0.672136	73	7.48E-11	0.52293	0.781376
F5	CA	TDSFE	-0.01805	41	0.91081	-0.32391	0.291222
F5	CA	TDSCU	0.260385	37	0.119593	-0.0695	0.538938

F5	CA	TDSZN	0.019392	30	0.918988	-0.34328	0.377033
F5	CA	TDSMN	0.1	5	0.872889	-0.85797	0.902635
F5	CL	K	0.602706	80	3.31E-09	0.441445	0.726252
F5	CL	MG	0.703044	80	3.59E-13	0.571624	0.799295
F5	CL	NA	0.888478	80	0	0.830978	0.927194
F5	CL	NOX	0.141602	57	0.293401	-0.12353	0.387863
F5	CL	OPO4	-0.17445	42	0.269191	-0.4543	0.136739
F5	CL	PH	0.190476	8	0.651401	-0.59392	0.789224
F5	CL	SIO2	0.264168	79	0.018647	0.045724	0.458501
F5	CL	SO4	0.311938	80	0.00485	0.099003	0.497557
F5	CL	TDKN	0.536944	78	4.02E-07	0.357076	0.678416
F5	CL	TDPO4	-0.06986	67	0.574283	-0.30496	0.17326
F5	CL	TKN	0.563495	75	1.41E-07	0.385881	0.700829
F5	CL	TOTN	0.314286	6	0.544093	-0.66755	0.897049
F5	CL	TPO4	0.100036	80	0.377301	-0.12238	0.312879
F5	CL	TSS	0.009305	11	0.978339	-0.59389	0.605807
F5	CL	NH4	0.026505	76	0.820209	-0.20015	0.250468
F5	CL	NO2	-0.42765	9	0.250889	-0.85029	0.330287
F5	CL	SCOND		1			
F5	CL	DOC	0.634217	71	2.89E-09	0.470533	0.755705
F5	CL	TDSFE	-0.05266	39	0.750192	-0.36217	0.267303
F5	CL	TDSCU	0.061981	36	0.719516	-0.2721	0.382728
F5	CL	TDSZN	-0.05105	29	0.792548	-0.40989	0.321475
F5	CL	TDSMN	0.051299	5	0.934713	-0.87037	0.893147
F5	K	MG	0.855444	84	0	0.785023	0.904037
F5	K	NA	0.695999	84	2.00E-13	0.56607	0.792187
F5	K	NOX	-0.13032	60	0.320967	-0.37194	0.127838
F5	K	OPO4	-0.15365	44	0.319351	-0.43088	0.150081
F5	K	PH	0.024316	10	0.94684	-0.61473	0.64409
F5	K	SIO2	0.448844	82	2.34E-05	0.256851	0.606755
F5	K	SO4	0.578129	83	1.04E-08	0.414069	0.705809
F5	K	TDKN	0.629021	82	2.48E-10	0.477142	0.744416
F5	K	TDPO4	-0.02624	70	0.829262	-0.25962	0.21003
F5	K	TKN	0.627778	79	5.94E-10	0.472211	0.74542
F5	K	TOTN	0.826362	8	0.011443	0.291327	0.967593
F5	K	TPO4	-0.10652	83	0.337833	-0.31498	0.111741
F5	K	TSS	-0.05118	11	0.881213	-0.63167	0.566085
F5	K	NH4	0.130071	80	0.250153	-0.09229	0.340073
F5	K	NO2	-0.82191	9	0.006563	-0.96131	-0.34742
F5	K	SCOND		1			
F5	K	DOC	0.762708	73	4.44E-15	0.645994	0.844576
F5	K	TDSFE	0.053635	41	0.739098	-0.25828	0.355425
F5	K	TDSCU	0.17681	37	0.295166	-0.15616	0.473696
F5	K	TDSZN	0.029091	30	0.878716	-0.33469	0.385327
F5	K	TDSMN	0.2	5	0.74706	-0.82846	0.919944
F5	MG	NA	0.845262	84	0	0.770495	0.897088
F5	MG	NOX	-0.13148	60	0.316655	-0.37296	0.126681
F5	MG	OPO4	-0.22177	44	0.14795	-0.48662	0.080407
F5	MG	PH	-0.00606	10	0.986743	-0.63328	0.625963
F5	MG	SIO2	0.549962	82	8.71E-08	0.378074	0.685197
F5	MG	SO4	0.566666	83	2.35E-08	0.399844	0.697149
F5	MG	TDKN	0.685501	82	1.21E-12	0.550362	0.785639

F5	MG	TDPO4	-0.10785	70	0.374153	-0.33436	0.13043
F5	MG	TKN	0.682693	79	4.22E-12	0.543644	0.785269
F5	MG	TOTN	0.642857	8	0.085559	-0.11303	0.927412
F5	MG	TPO4	-0.143	83	0.197169	-0.34796	0.075008
F5	MG	TSS	0.037304	11	0.913289	-0.57546	0.62324
F5	MG	NH4	0.076711	80	0.498838	-0.14546	0.291518
F5	MG	NO2	-0.6208	9	0.074407	-0.90982	0.073721
F5	MG	SCOND		1			
F5	MG	DOC	0.822486	73	0	0.730681	0.885074
F5	MG	TDSFE	-0.13313	41	0.406658	-0.42344	0.181979
F5	MG	TDSCU	0.165102	37	0.328802	-0.1679	0.464289
F5	MG	TDSZN	0.029202	30	0.878255	-0.33459	0.385422
F5	MG	TDSMN	0.2	5	0.74706	-0.82846	0.919944
F5	NA	NOX	-0.03706	60	0.778593	-0.28828	0.218926
F5	NA	OPO4	-0.11078	44	0.474057	-0.39469	0.192433
F5	NA	PH	0.115152	10	0.75142	-0.5547	0.694437
F5	NA	SIO2	0.31293	82	0.004204	0.102907	0.496241
F5	NA	SO4	0.255695	83	0.019643	0.042337	0.446749
F5	NA	TDKN	0.616265	82	7.12E-10	0.460892	0.734982
F5	NA	TDPO4	-0.08421	70	0.488271	-0.31299	0.153816
F5	NA	TKN	0.659989	79	3.69E-11	0.513865	0.768896
F5	NA	TOTN	0.52381	8	0.182721	-0.2867	0.897286
F5	NA	TPO4	-0.08416	83	0.449358	-0.29451	0.133961
F5	NA	TSS	0.032567	11	0.924271	-0.57862	0.620331
F5	NA	NH4	0.119786	80	0.289895	-0.10264	0.3308
F5	NA	NO2	-0.63829	9	0.064319	-0.91468	0.044851
F5	NA	SCOND		1			
F5	NA	DOC	0.662412	73	1.74E-10	0.510077	0.774455
F5	NA	TDSFE	-0.17429	41	0.275781	-0.45742	0.140924
F5	NA	TDSCU	0.048847	37	0.774036	-0.2796	0.367062
F5	NA	TDSZN	0.008805	30	0.963167	-0.35259	0.367913
F5	NA	TDSMN	0.2	5	0.74706	-0.82846	0.919944
F5	NOX	OPO4	0.048738	29	0.801763	-0.32355	0.407962
F5	NOX	PH	0.462008	10	0.178857	-0.23639	0.845647
F5	NOX	SIO2	-0.4626	59	0.000225	-0.64256	-0.23426
F5	NOX	SO4	0.012449	60	0.924788	-0.24225	0.265539
F5	NOX	TDKN	0.023203	58	0.862741	-0.23651	0.279826
F5	NOX	TDPO4	0.183522	49	0.206861	-0.10299	0.441918
F5	NOX	TKN	0.117891	57	0.38245	-0.1472	0.367184
F5	NOX	TOTN	-0.54762	8	0.160026	-0.9036	0.255758
F5	NOX	TPO4	0.310916	60	0.015609	0.061872	0.523513
F5	NOX	TSS	0.110185	9	0.777791	-0.59768	0.721517
F5	NOX	NH4	0.157089	56	0.247587	-0.11037	0.403337
F5	NOX	NO2	0.637992	8	0.088733	-0.12116	0.926249
F5	NOX	SCOND		1			
F5	NOX	DOC	-0.07796	49	0.594441	-0.35145	0.207801
F5	NOX	TDSFE	-0.29384	29	0.121824	-0.59615	0.081441
F5	NOX	TDSCU	0.189278	21	0.411228	-0.26399	0.574065
F5	NOX	TDSZN	0.193953	16	0.471673	-0.33386	0.629174
F5	NOX	TDSMN	0.5	3	0.666667		
F5	OPO4	PH	0.258199	4	0.741801	-0.93488	0.976875
F5	OPO4	SIO2	-0.11735	42	0.459221	-0.40678	0.193487

F5	OPO4	SO4	-0.20402	43	0.189424	-0.47525	0.102616
F5	OPO4	TDKN	-0.24499	43	0.113336	-0.50796	0.059761
F5	OPO4	TDPO4	0.107452	37	0.526729	-0.22439	0.416959
F5	OPO4	TKN	-0.07959	42	0.61637	-0.37446	0.229913
F5	OPO4	TOTN	-1	2			
F5	OPO4	TPO4	-0.21826	44	0.154635	-0.4838	0.084069
F5	OPO4	TSS	-0.2582	4	0.741801	-0.97687	0.934885
F5	OPO4	NH4	-0.37698	41	0.015116	-0.61348	-0.07842
F5	OPO4	NO2	-0.27722	6	0.594824	-0.88882	0.689467
F5	OPO4	SCOND		1			
F5	OPO4	DOC	-0.36654	40	0.020002	-0.60857	-0.06212
F5	OPO4	TDSFE	0.472262	21	0.030642	0.050957	0.750873
F5	OPO4	TDSCU	0.041206	23	0.851914	-0.37741	0.445842
F5	OPO4	TDSZN	-0.04944	17	0.850525	-0.51779	0.441706
F5	OPO4	TDSMN	-0.4	4	0.6	-0.98314	0.911505
F5	PH	SIO2	-0.3697	10	0.29305	-0.81064	0.338802
F5	PH	SO4	0.006061	10	0.986743	-0.62596	0.633279
F5	PH	TDKN	-0.05455	10	0.881036	-0.66146	0.595542
F5	PH	TDPO4	-0.46775	10	0.172809	-0.84772	0.229467
F5	PH	TKN	-0.39394	10	0.259998	-0.82015	0.31344
F5	PH	TOTN	-0.42857	8	0.289403	-0.87039	0.395576
F5	PH	TPO4	0.325178	10	0.359238	-0.38284	0.792544
F5	PH	TSS	0.4	5	0.504632	-0.74529	0.947789
F5	PH	NH4	-0.41917	8	0.301267	-0.86758	0.4052
F5	PH	NO2	1	2			
F5	PH	SCOND		1			
F5	PH	DOC		0			
F5	PH	TDSFE		0			
F5	PH	TDSCU		0			
F5	PH	TDSZN		0			
F5	PH	TDSMN		0			
F5	SIO2	SO4	0.51264	82	8.49E-07	0.332634	0.656605
F5	SIO2	TDKN	0.406029	80	0.000186	0.204557	0.574497
F5	SIO2	TDPO4	-0.16532	68	0.177879	-0.38844	0.076105
F5	SIO2	TKN	0.345926	78	0.001921	0.133682	0.527828
F5	SIO2	TOTN	0.52381	8	0.182721	-0.2867	0.897286
F5	SIO2	TPO4	-0.31811	82	0.003586	-0.50057	-0.1086
F5	SIO2	TSS	0.214499	11	0.526497	-0.4423	0.721539
F5	SIO2	NH4	-0.04579	78	0.690587	-0.26562	0.178567
F5	SIO2	NO2	-0.29853	9	0.435209	-0.80338	0.456007
F5	SIO2	SCOND		1			
F5	SIO2	DOC	0.512667	71	4.86E-06	0.317313	0.666281
F5	SIO2	TDSFE	0.062354	39	0.7061	-0.25825	0.370586
F5	SIO2	TDSCU	0.1028	36	0.550763	-0.23363	0.417249
F5	SIO2	TDSZN	-0.05093	28	0.796895	-0.41611	0.328394
F5	SIO2	TDSMN	0.1	5	0.872889	-0.85797	0.902635
F5	SO4	TDKN	0.426889	81	7.06E-05	0.229972	0.590226
F5	SO4	TDPO4	-0.07347	69	0.548556	-0.30485	0.166106
F5	SO4	TKN	0.410634	78	0.000188	0.207017	0.580154
F5	SO4	TOTN	0.02381	8	0.955374	-0.69249	0.71647
F5	SO4	TPO4	0.07913	83	0.47703	-0.13893	0.289875
F5	SO4	TSS	0.162835	11	0.632383	-0.48436	0.694844

F5	SO4	NH4	-0.10215	79	0.370372	-0.31612	0.121717
F5	SO4	NO2	0.279799	9	0.465887	-0.47205	0.796012
F5	SO4	SCOND		1			
F5	SO4	DOC	0.614721	72	9.23E-09	0.446658	0.740881
F5	SO4	TDSFE	0.139026	40	0.392241	-0.1803	0.431838
F5	SO4	TDSCU	0.265609	36	0.117423	-0.06895	0.546464
F5	SO4	TDSZN	-0.1538	29	0.425709	-0.49255	0.22542
F5	SO4	TDSMN	0.1	5	0.872889	-0.85797	0.902635
F5	TDKN	TDPO4	-0.08633	68	0.483908	-0.31821	0.155293
F5	TDKN	TKN	0.830704	78	0	0.746093	0.888914
F5	TDKN	TOTN	0.714286	8	0.046528	0.019339	0.943874
F5	TDKN	TPO4	-0.09433	81	0.402216	-0.30638	0.126629
F5	TDKN	TSS	-0.06324	11	0.853448	-0.63889	0.557804
F5	TDKN	NH4	0.241789	78	0.032949	0.02035	0.440616
F5	TDKN	NO2	0.114628	9	0.769024	-0.59478	0.723667
F5	TDKN	SCOND		1			
F5	TDKN	DOC	0.699298	71	1.18E-11	0.556839	0.801792
F5	TDKN	TDSFE	0.082505	40	0.612768	-0.23505	0.384147
F5	TDKN	TDSCU	0.208932	35	0.22839	-0.13362	0.506891
F5	TDKN	TDSZN	-0.02021	28	0.91869	-0.39035	0.355552
F5	TDKN	TDSMN	0.153897	5	0.804829	-0.84281	0.912298
F5	TDPO4	TKN	-0.09682	66	0.439324	-0.3311	0.148705
F5	TDPO4	TOTN	0.371264	8	0.365202	-0.45155	0.852826
F5	TDPO4	TPO4	0.298956	69	0.012585	0.067013	0.500244
F5	TDPO4	TSS	0.34385	10	0.330628	-0.36475	0.800234
F5	TDPO4	NH4	0.160538	66	0.197862	-0.08479	0.387517
F5	TDPO4	NO2	0.584102	8	0.128414	-0.20493	0.912991
F5	TDPO4	SCOND		1			
F5	TDPO4	DOC	-0.34944	59	0.006672	-0.55579	-0.10253
F5	TDPO4	TDSFE	-0.05677	33	0.753673	-0.39244	0.29224
F5	TDPO4	TDSCU	0.227459	33	0.203006	-0.12567	0.52943
F5	TDPO4	TDSZN	-0.19498	27	0.329759	-0.53533	0.199849
F5	TDPO4	TDSMN	-0.4	4	0.6	-0.98314	0.911505
F5	TKN	TOTN	1	8	0		
F5	TKN	TPO4	-0.19341	78	0.089768	-0.39878	0.030436
F5	TKN	TSS	-0.07228	11	0.832746	-0.64423	0.551519
F5	TKN	NH4	0.22758	75	0.049571	0.000647	0.43222
F5	TKN	NO2	-0.2998	9	0.433175	-0.80387	0.454908
F5	TKN	SCOND		1			
F5	TKN	DOC	0.677776	68	2.18E-10	0.524031	0.788743
F5	TKN	TDSFE	0.068526	38	0.68269	-0.25679	0.379893
F5	TKN	TDSCU	0.193042	34	0.274023	-0.15527	0.49866
F5	TKN	TDSZN	0.060617	26	0.768639	-0.3346	0.437698
F5	TKN	TDSMN	0.2	5	0.74706	-0.82846	0.919944
F5	TOTN	TPO4	-0.58554	8	0.127247	-0.91335	0.202834
F5	TOTN	TSS	1	3	0		
F5	TOTN	NH4	0.371264	8	0.365202	-0.45155	0.852826
F5	TOTN	NO2		0			
F5	TOTN	SCOND		0			
F5	TOTN	DOC		0			
F5	TOTN	TDSFE		0			
F5	TOTN	TDSCU		0			

F5	TOTN	TDSZN		0			
F5	TOTN	TDSMN		0			
F5	TPO4	TSS	0.588276	11	0.05695	-0.01794	0.878233
F5	TPO4	NH4	0.015586	79	0.89156	-0.20624	0.235887
F5	TPO4	NO2	0.131706	9	0.73554	-0.58346	0.731823
F5	TPO4	SCOND		1			
F5	TPO4	DOC	-0.12107	72	0.311013	-0.34312	0.113791
F5	TPO4	TDSFE	-0.10566	40	0.516418	-0.40388	0.212862
F5	TPO4	TDSCU	0.197385	36	0.248537	-0.14025	0.493897
F5	TPO4	TDSZN	-0.15124	29	0.433555	-0.49056	0.227909
F5	TPO4	TDSMN	-0.82078	5	0.088587	-0.98776	0.222912
F5	TSS	NH4	0.051755	9	0.894801	-0.63417	0.692096
F5	TSS	NO2	0.055556	4	0.944444	-0.95661	0.965114
F5	TSS	SCOND		1			
F5	TSS	DOC	-0.29854	6	0.565493	-0.8936	0.677073
F5	TSS	TDSFE	1	2			
F5	TSS	TDSCU		1			
F5	TSS	TDSZN		0			
F5	TSS	TDSMN		0			
F5	NH4	NO2	0.411665	7	0.358817	-0.49479	0.8891
F5	NH4	SCOND		0			
F5	NH4	DOC	0.220973	71	0.064046	-0.01301	0.432008
F5	NH4	TDSFE	-0.12532	40	0.440989	-0.42042	0.193756
F5	NH4	TDSCU	0.25362	36	0.135558	-0.08173	0.537384
F5	NH4	TDSZN	0.192926	29	0.316006	-0.18679	0.522493
F5	NH4	TDSMN	1	4	0		
F5	NO2	SCOND		1			
F5	NO2	DOC	-0.50522	7	0.247439	-0.9115	0.400045
F5	NO2	TDSFE	-1	2			
F5	NO2	TDSCU	-1	2			
F5	NO2	TDSZN	-1	2			
F5	NO2	TDSMN		0			
F5	SCOND	DOC		0			
F5	SCOND	TDSFE		0			
F5	SCOND	TDSCU		0			
F5	SCOND	TDSZN		0			
F5	SCOND	TDSMN		0			
F5	DOC	TDSFE	0.001694	40	0.991723	-0.30998	0.313043
F5	DOC	TDSCU	0.218774	37	0.193292	-0.11328	0.506868
F5	DOC	TDSZN	0.056642	30	0.766241	-0.30996	0.408579
F5	DOC	TDSMN	0	5	1	-0.88227	0.882272
F5	TDSFE	TDSCU	0.070521	24	0.74333	-0.34263	0.460815
F5	TDSFE	TDSZN	0.061577	17	0.814387	-0.43186	0.526642
F5	TDSFE	TDSMN	-1	2			
F5	TDSCU	TDSZN	0.263944	26	0.192604	-0.13747	0.590889
F5	TDSCU	TDSMN	1	3	0		
F5	TDSZN	TDSMN		1			
U3	AGP	ALK	-0.17427	42	0.269678	-0.45415	0.136916
U3	AGP	CA	-0.15759	42	0.318899	-0.44043	0.153709
U3	AGP	CL	-0.12185	41	0.447902	-0.41398	0.193044
U3	AGP	K	-0.128	42	0.419174	-0.41576	0.183055
U3	AGP	MG	-0.07254	42	0.64801	-0.36836	0.236613

U3	AGP	NA	-0.05211	42	0.743111	-0.35049	0.25588
U3	AGP	NOX	-0.39484	22	0.068975	-0.69994	0.032119
U3	AGP	OPO4	0.446571	22	0.03721	0.030744	0.730623
U3	AGP	PH	0.5	7	0.25317	-0.4059	0.910306
U3	AGP	SIO2	0.208914	41	0.189908	-0.10552	0.485373
U3	AGP	SO4	-0.10949	42	0.490061	-0.40011	0.201145
U3	AGP	TDKN	0.011505	42	0.942352	-0.29346	0.314342
U3	AGP	TDPO4	-0.15691	29	0.416298	-0.49496	0.222393
U3	AGP	TKN	-0.03853	41	0.810962	-0.34213	0.272352
U3	AGP	TOTN	-0.1	5	0.872889	-0.90264	0.857968
U3	AGP	TPO4	-0.18601	40	0.250486	-0.47027	0.133227
U3	AGP	TSS	0.103959	13	0.735379	-0.4742	0.619469
U3	AGP	NH4	-0.28893	38	0.078523	-0.55715	0.03389
U3	AGP	NO2	-0.22361	5	0.717686	-0.92366	0.820544
U3	AGP	SCOND		1			
U3	AGP	DOC	-0.12724	35	0.466356	-0.44176	0.21513
U3	AGP	TDSFE	0.187846	17	0.470307	-0.32187	0.613138
U3	AGP	TDSCU	0.642548	13	0.017865	0.141735	0.881467
U3	AGP	TDSZN	0.021279	12	0.947666	-0.55946	0.588008
U3	AGP	TDSMN	0.4	4	0.6	-0.91151	0.983137
U3	ALK	CA	0.887476	82	0	0.830392	0.926123
U3	ALK	CL	0.712052	78	2.69E-13	0.58169	0.806752
U3	ALK	K	0.788453	82	0	0.689401	0.858562
U3	ALK	MG	0.883793	82	0	0.825014	0.923654
U3	ALK	NA	0.741355	82	1.55E-15	0.624875	0.825549
U3	ALK	NOX	0.117642	47	0.430967	-0.17546	0.391585
U3	ALK	OPO4	-0.09048	45	0.554466	-0.37408	0.208601
U3	ALK	PH	-0.1841	9	0.635383	-0.75582	0.546896
U3	ALK	SIO2	0.266302	81	0.01626	0.050909	0.458022
U3	ALK	SO4	0.599745	82	2.62E-09	0.440001	0.722696
U3	ALK	TDKN	0.631944	79	4.22E-10	0.477559	0.748472
U3	ALK	TDPO4	0.148356	50	0.303855	-0.1356	0.409786
U3	ALK	TKN	0.586716	77	2.05E-08	0.417613	0.716535
U3	ALK	TOTN	0.464286	7	0.293934	-0.44403	0.901984
U3	ALK	TPO4	0.074857	76	0.520433	-0.15319	0.295332
U3	ALK	TSS	-0.64443	18	0.00389	-0.85428	-0.25397
U3	ALK	NH4	0.194789	77	0.089581	-0.03053	0.401265
U3	ALK	NO2	0.625742	8	0.097022	-0.1412	0.923297
U3	ALK	SCOND		1			
U3	ALK	DOC	0.740208	72	1.09E-13	0.613791	0.829613
U3	ALK	TDSFE	0.079818	48	0.589692	-0.20906	0.355887
U3	ALK	TDSCU	0.144046	39	0.381643	-0.17964	0.439589
U3	ALK	TDSZN	-0.07391	34	0.677838	-0.40203	0.271036
U3	ALK	TDSMN	-0.1	5	0.872889	-0.90264	0.857968
U3	CA	CL	0.534123	78	4.75E-07	0.35362	0.676275
U3	CA	K	0.744966	82	1.11E-15	0.629766	0.828101
U3	CA	MG	0.793728	82	0	0.696727	0.862223
U3	CA	NA	0.586787	82	6.90E-09	0.423733	0.713004
U3	CA	NOX	0.021618	47	0.885316	-0.26721	0.306885
U3	CA	OPO4	-0.11243	45	0.462141	-0.393	0.187289
U3	CA	PH	-0.41005	9	0.27303	-0.84426	0.349172
U3	CA	SIO2	0.457136	81	1.79E-05	0.26526	0.614183

U3	CA	SO4	0.765211	82	0	0.657361	0.842344
U3	CA	TDKN	0.504096	79	2.18E-06	0.318481	0.652483
U3	CA	TDPO4	0.170629	50	0.236125	-0.11309	0.428624
U3	CA	TKN	0.468681	77	1.72E-05	0.273398	0.626858
U3	CA	TOTN	0	7	1	-0.75307	0.753066
U3	CA	TPO4	0.065612	76	0.573355	-0.16225	0.286828
U3	CA	TSS	-0.51805	18	0.027643	-0.7931	-0.0675
U3	CA	NH4	0.139218	77	0.227222	-0.08749	0.352218
U3	CA	NO2	0.498039	8	0.209105	-0.31838	0.890272
U3	CA	SCOND		1			
U3	CA	DOC	0.674825	72	8.03E-11	0.525273	0.783938
U3	CA	TDSFE	0.197151	48	0.179233	-0.09215	0.45576
U3	CA	TDSCU	0.308098	39	0.056368	-0.00822	0.568368
U3	CA	TDSZN	-0.08505	34	0.632477	-0.41139	0.260617
U3	CA	TDSMN	-0.2	5	0.74706	-0.91994	0.828457
U3	CL	K	0.701408	78	8.56E-13	0.567444	0.799198
U3	CL	MG	0.821114	78	0	0.73241	0.882409
U3	CL	NA	0.961671	78	0	0.940383	0.975454
U3	CL	NOX	0.267641	44	0.079017	-0.03177	0.522972
U3	CL	OPO4	-0.10091	43	0.51968	-0.38945	0.205676
U3	CL	PH	-0.25714	6	0.622787	-0.88419	0.700642
U3	CL	SIO2	0.132688	77	0.249984	-0.09409	0.346377
U3	CL	SO4	0.477028	78	1.01E-05	0.284718	0.632428
U3	CL	TDKN	0.686016	75	1.11E-11	0.543706	0.78998
U3	CL	TDPO4	0.205433	47	0.165967	-0.08686	0.465163
U3	CL	TKN	0.714769	73	1.23E-12	0.580092	0.811406
U3	CL	TOTN	0.4	4	0.6	-0.91151	0.983137
U3	CL	TPO4	0.172345	74	0.142012	-0.05846	0.38566
U3	CL	TSS	-0.08166	17	0.755374	-0.54107	0.415294
U3	CL	NH4	0.142455	73	0.229258	-0.09059	0.360704
U3	CL	NO2	-0.0537	8	0.899502	-0.73073	0.676583
U3	CL	SCOND		1			
U3	CL	DOC	0.766204	71	6.88E-15	0.648893	0.847934
U3	CL	TDSFE	0.109227	47	0.464871	-0.18371	0.384343
U3	CL	TDSCU	0.040346	39	0.807337	-0.27872	0.351395
U3	CL	TDSZN	-0.05866	34	0.741752	-0.38911	0.285168
U3	CL	TDSMN	0	5	1	-0.88227	0.882272
U3	K	MG	0.840686	82	0	0.762847	0.894505
U3	K	NA	0.750955	82	4.44E-16	0.6379	0.832326
U3	K	NOX	0.051326	47	0.731881	-0.23937	0.333581
U3	K	OPO4	-0.22256	45	0.141705	-0.48445	0.075939
U3	K	PH	-0.56303	9	0.114472	-0.89318	0.161489
U3	K	SIO2	0.324746	81	0.003097	0.114512	0.507138
U3	K	SO4	0.601558	82	2.28E-09	0.442285	0.724048
U3	K	TDKN	0.616137	79	1.50E-09	0.457328	0.736864
U3	K	TDPO4	0.242473	50	0.089773	-0.03848	0.487896
U3	K	TKN	0.569341	77	6.55E-08	0.395837	0.703599
U3	K	TOTN	0.5	7	0.25317	-0.4059	0.910306
U3	K	TPO4	0.025333	76	0.828038	-0.20128	0.249368
U3	K	TSS	-0.4342	18	0.071794	-0.7492	0.040988
U3	K	NH4	0.257488	77	0.023774	0.035555	0.455217
U3	K	NO2	-0.03831	8	0.928238	-0.72346	0.684859

U3	K	SCOND		1			
U3	K	DOC	0.738077	72	1.39E-13	0.610856	0.828143
U3	K	TDSFE	0.083587	48	0.572187	-0.20543	0.359196
U3	K	TDSCU	0.104102	39	0.528249	-0.2186	0.406279
U3	K	TDSZN	-0.20051	34	0.255527	-0.50447	0.147675
U3	K	TDSMN	0.6	5	0.284757	-0.59977	0.969209
U3	MG	NA	0.887913	82	0	0.831031	0.926416
U3	MG	NOX	0.08578	47	0.566441	-0.20648	0.363985
U3	MG	OPO4	-0.10278	45	0.501678	-0.38471	0.196693
U3	MG	PH	-0.37657	9	0.317823	-0.8325	0.383458
U3	MG	SIO2	0.291767	81	0.008221	0.078409	0.479568
U3	MG	SO4	0.687902	82	9.36E-13	0.553522	0.787372
U3	MG	TDKN	0.681369	79	4.81E-12	0.541897	0.784318
U3	MG	TDPO4	0.18444	50	0.19976	-0.09899	0.440194
U3	MG	TKN	0.704833	77	8.41E-13	0.570994	0.802176
U3	MG	TOTN	0.714286	7	0.071344	-0.08392	0.954124
U3	MG	TPO4	0.042779	76	0.713674	-0.18446	0.265676
U3	MG	TSS	-0.57445	18	0.012651	-0.82111	-0.147
U3	MG	NH4	0.155355	77	0.177291	-0.0711	0.366582
U3	MG	NO2	0.282633	8	0.497609	-0.52701	0.823334
U3	MG	SCOND		1			
U3	MG	DOC	0.892211	72	0	0.832647	0.931369
U3	MG	TDSFE	0.036055	48	0.807779	-0.25065	0.316948
U3	MG	TDSCU	0.022614	39	0.891309	-0.29501	0.335741
U3	MG	TDSZN	-0.11708	34	0.509624	-0.43791	0.230207
U3	MG	TDSMN	0.6	5	0.284757	-0.59977	0.969209
U3	NA	NOX	0.184938	47	0.213317	-0.10797	0.448301
U3	NA	OPO4	-0.11357	45	0.457586	-0.39398	0.186174
U3	NA	PH	-0.35984	9	0.341509	-0.82646	0.399849
U3	NA	SIO2	0.122997	81	0.273988	-0.09799	0.332422
U3	NA	SO4	0.480305	82	4.96E-06	0.293931	0.631494
U3	NA	TDKN	0.72948	79	2.44E-14	0.606134	0.818562
U3	NA	TDPO4	0.240764	50	0.092129	-0.04029	0.486512
U3	NA	TKN	0.74575	77	7.11E-15	0.626397	0.830937
U3	NA	TOTN	0.571429	7	0.180202	-0.31884	0.926011
U3	NA	TPO4	0.16485	76	0.154717	-0.06295	0.376323
U3	NA	TSS	-0.16563	18	0.511289	-0.58711	0.326492
U3	NA	NH4	0.185993	77	0.105329	-0.03964	0.393579
U3	NA	NO2	-0.24263	8	0.5626	-0.80899	0.557341
U3	NA	SCOND		1			
U3	NA	DOC	0.830874	72	0	0.742036	0.891031
U3	NA	TDSFE	0.132444	48	0.369521	-0.15763	0.401475
U3	NA	TDSCU	0.0355	39	0.830115	-0.28319	0.347134
U3	NA	TDSZN	-0.03834	34	0.829574	-0.37169	0.303774
U3	NA	TDSMN	0.2	5	0.74706	-0.82846	0.919944
U3	NOX	OPO4	-0.00842	20	0.971884	-0.44928	0.435729
U3	NOX	PH	0.610789	8	0.107721	-0.16484	0.919645
U3	NOX	SIO2	-0.25123	46	0.092146	-0.50472	0.042143
U3	NOX	SO4	0.096864	47	0.517172	-0.19575	0.373642
U3	NOX	TDKN	0.119369	44	0.440247	-0.18404	0.402008
U3	NOX	TDPO4	0.37316	33	0.032441	0.034231	0.63511
U3	NOX	TKN	0.083207	43	0.595788	-0.22271	0.374204

U3	NOX	TOTN	-0.14286	7	0.759945	-0.8089	0.683769
U3	NOX	TPO4	0.14451	41	0.367354	-0.17074	0.432918
U3	NOX	TSS	-0.32805	12	0.297878	-0.75905	0.302887
U3	NOX	NH4	0.20487	45	0.177014	-0.09434	0.470136
U3	NOX	NO2	0.414039	6	0.41443	-0.59871	0.917356
U3	NOX	SCOND		0			
U3	NOX	DOC	-0.07534	38	0.653051	-0.38573	0.250383
U3	NOX	TDSFE	0.12608	27	0.530896	-0.26672	0.48296
U3	NOX	TDSCU	-0.04125	18	0.87089	-0.49853	0.433982
U3	NOX	TDSZN	0.353882	19	0.137171	-0.11955	0.696193
U3	NOX	TDSMN		1			
U3	OPO4	PH	0.774597	4	0.225403	-0.72979	0.994972
U3	OPO4	SIO2	-0.13188	44	0.39346	-0.41261	0.171727
U3	OPO4	SO4	-0.17443	45	0.251805	-0.44517	0.12554
U3	OPO4	TDKN	0.084796	44	0.584193	-0.21757	0.372309
U3	OPO4	TDPO4	0.168222	27	0.401612	-0.22626	0.5153
U3	OPO4	TKN	0.129554	43	0.407668	-0.17771	0.413801
U3	OPO4	TOTN	1	2			
U3	OPO4	TPO4	-0.04544	46	0.764295	-0.33137	0.248139
U3	OPO4	TSS	0.323868	11	0.33125	-0.34257	0.773478
U3	OPO4	NH4	-0.1997	41	0.210636	-0.47799	0.115022
U3	OPO4	NO2	0.594913	6	0.212907	-0.41891	0.948523
U3	OPO4	SCOND		1			
U3	OPO4	DOC	-0.05711	41	0.722858	-0.35846	0.25503
U3	OPO4	TDSFE	-0.2562	26	0.206478	-0.58545	0.145613
U3	OPO4	TDSCU	0.3694	23	0.082785	-0.0505	0.678321
U3	OPO4	TDSZN	0.015966	18	0.949862	-0.4543	0.479271
U3	OPO4	TDSMN	0.359092	5	0.552815	-0.7658	0.942701
U3	PH	SIO2	-0.14226	9	0.715032	-0.73678	0.57632
U3	PH	SO4	-0.66946	9	0.048568	-0.92315	-0.0096
U3	PH	TDKN	-0.20084	9	0.604359	-0.76317	0.534598
U3	PH	TDPO4	-0.75759	8	0.029451	-0.95333	-0.1135
U3	PH	TKN	-0.30126	9	0.430823	-0.80444	0.453632
U3	PH	TOTN	-0.01802	7	0.969415	-0.76076	0.745158
U3	PH	TPO4	-0.40584	6	0.424663	-0.91578	0.604993
U3	PH	TSS	0.948683	4	0.051317	-0.14062	0.998956
U3	PH	NH4	0.252262	7	0.585241	-0.61825	0.844835
U3	PH	NO2	1	2			
U3	PH	SCOND		1			
U3	PH	DOC		0			
U3	PH	TDSFE		0			
U3	PH	TDSCU		0			
U3	PH	TDSZN		0			
U3	PH	TDSMN		0			
U3	SIO2	SO4	0.545857	81	1.36E-07	0.371821	0.682825
U3	SIO2	TDKN	0.142392	78	0.213641	-0.08277	0.353718
U3	SIO2	TDPO4	-0.09448	49	0.518449	-0.36596	0.191817
U3	SIO2	TKN	0.172165	77	0.134333	-0.0539	0.381438
U3	SIO2	TOTN	0.428571	7	0.337368	-0.47913	0.893324
U3	SIO2	TPO4	0.051257	75	0.662305	-0.17778	0.275024
U3	SIO2	TSS	0.121806	18	0.630178	-0.36588	0.557007
U3	SIO2	NH4	-0.11222	76	0.334478	-0.32934	0.116181

U3	SIO2	NO2	0.485269	8	0.222872	-0.33343	0.886725
U3	SIO2	SCOND		1			
U3	SIO2	DOC	0.259139	71	0.029094	0.027494	0.464372
U3	SIO2	TDSFE	0.248095	47	0.092674	-0.04207	0.499668
U3	SIO2	TDSCU	0.309384	39	0.055294	-0.0068	0.56933
U3	SIO2	TDSZN	-0.12633	33	0.483588	-0.45012	0.226822
U3	SIO2	TDSMN	0	5	1	-0.88227	0.882272
U3	SO4	TDKN	0.401012	79	0.00025	0.197401	0.571456
U3	SO4	TDPO4	0.183427	50	0.202284	-0.10003	0.439348
U3	SO4	TKN	0.382609	77	0.000594	0.173494	0.558711
U3	SO4	TOTN	-0.07143	7	0.879048	-0.78241	0.720387
U3	SO4	TPO4	-0.04178	76	0.720102	-0.26474	0.185429
U3	SO4	TSS	-0.37574	18	0.124386	-0.71686	0.110529
U3	SO4	NH4	-0.05135	77	0.65739	-0.2722	0.174641
U3	SO4	NO2	0.344796	8	0.402918	-0.47539	0.844329
U3	SO4	SCOND		1			
U3	SO4	DOC	0.648384	72	7.37E-10	0.490371	0.765125
U3	SO4	TDSFE	0.224909	48	0.124316	-0.06327	0.478472
U3	SO4	TDSCU	0.315709	39	0.050248	0.000207	0.574048
U3	SO4	TDSZN	-0.15049	34	0.395574	-0.465	0.197741
U3	SO4	TDSMN	0.1	5	0.872889	-0.85797	0.902635
U3	TDKN	TDPO4	-0.0081	47	0.956915	-0.29459	0.279724
U3	TDKN	TKN	0.810521	76	0	0.715882	0.875916
U3	TDKN	TOTN	0.321429	7	0.482072	-0.56949	0.865093
U3	TDKN	TPO4	0.038076	74	0.747391	-0.1921	0.264279
U3	TDKN	TSS	0.104666	17	0.689319	-0.3959	0.557282
U3	TDKN	NH4	0.484057	74	1.25E-05	0.287336	0.641594
U3	TDKN	NO2	0.423949	8	0.295207	-0.40033	0.869013
U3	TDKN	SCOND		1			
U3	TDKN	DOC	0.77221	69	7.99E-15	0.655293	0.852993
U3	TDKN	TDSFE	0.091099	47	0.542527	-0.20134	0.368627
U3	TDKN	TDSCU	0.189723	36	0.267748	-0.14805	0.487855
U3	TDKN	TDSZN	-0.06365	31	0.733745	-0.40877	0.297407
U3	TDKN	TDSMN	0.718185	5	0.171795	-0.44788	0.979691
U3	TDPO4	TKN	0.002928	45	0.984769	-0.29086	0.296213
U3	TDPO4	TOTN	-0.25714	6	0.622787	-0.88419	0.700642
U3	TDPO4	TPO4	0.280509	47	0.056155	-0.00725	0.525361
U3	TDPO4	TSS	-0.09964	15	0.723855	-0.58219	0.434824
U3	TDPO4	NH4	-0.01477	47	0.921501	-0.30067	0.273561
U3	TDPO4	NO2	-0.56849	8	0.141469	-0.90902	0.227209
U3	TDPO4	SCOND		1			
U3	TDPO4	DOC	-0.06184	42	0.69723	-0.35903	0.246732
U3	TDPO4	TDSFE	0.180893	28	0.356952	-0.2061	0.518953
U3	TDPO4	TDSCU	0.172925	24	0.419065	-0.24776	0.538746
U3	TDPO4	TDSZN	0.289533	22	0.191225	-0.15045	0.633781
U3	TDPO4	TDSMN	1	2			
U3	TKN	TOTN	0.785714	7	0.036238	0.079961	0.966756
U3	TKN	TPO4	-0.04982	72	0.677734	-0.27828	0.183981
U3	TKN	TSS	0.082198	15	0.77088	-0.44898	0.570448
U3	TKN	NH4	0.349859	72	0.002591	0.128611	0.537931
U3	TKN	NO2	0.357567	8	0.384516	-0.46404	0.848461
U3	TKN	SCOND		1			

U3	TKN	DOC	0.761677	67	7.22E-14	0.638239	0.846931
U3	TKN	TDSFE	0.09321	45	0.542522	-0.20596	0.376449
U3	TKN	TDSCU	0.186339	36	0.276532	-0.15148	0.485178
U3	TKN	TDSZN	0.089145	29	0.645617	-0.28674	0.44124
U3	TKN	TDSMN	0.872082	5	0.053854	-0.04419	0.991489
U3	TOTN	TPO4	-0.2	4	0.8	-0.97389	0.942197
U3	TOTN	TSS	1	2			
U3	TOTN	NH4	0	7	1	-0.75307	0.753066
U3	TOTN	NO2		0			
U3	TOTN	SCOND		0			
U3	TOTN	DOC		0			
U3	TOTN	TDSFE		0			
U3	TOTN	TDSCU		0			
U3	TOTN	TDSZN		0			
U3	TOTN	TDSMN		0			
U3	TPO4	TSS	0.52389	18	0.025644	0.075473	0.796058
U3	TPO4	NH4	0.111417	71	0.354946	-0.12514	0.335991
U3	TPO4	NO2	-0.01293	8	0.975768	-0.71113	0.698114
U3	TPO4	SCOND		1			
U3	TPO4	DOC	-0.07765	69	0.525987	-0.30866	0.162017
U3	TPO4	TDSFE	0.041472	46	0.784349	-0.25186	0.327829
U3	TPO4	TDSCU	0.055302	36	0.748703	-0.2783	0.376994
U3	TPO4	TDSZN	0.179632	31	0.333571	-0.18659	0.502024
U3	TPO4	TDSMN	0.223607	5	0.717686	-0.82054	0.923658
U3	TSS	NH4	0.184955	16	0.492863	-0.34213	0.623502
U3	TSS	NO2	-0.29032	6	0.576751	-0.89177	0.681917
U3	TSS	SCOND		1			
U3	TSS	DOC	-0.42635	14	0.128462	-0.7804	0.134706
U3	TSS	TDSFE	-0.3	5	0.623838	-0.93484	0.791864
U3	TSS	TDSCU	1	2			
U3	TSS	TDSZN	0.866025	3	0.333333		
U3	TSS	TDSMN		1			
U3	NH4	NO2	0.370328	6	0.469902	-0.63084	0.908769
U3	NH4	SCOND		0			
U3	NH4	DOC	0.250442	69	0.037938	0.014624	0.459867
U3	NH4	TDSFE	-0.14908	47	0.317245	-0.41834	0.144266
U3	NH4	TDSCU	0.114564	38	0.493415	-0.21292	0.41891
U3	NH4	TDSZN	0.254002	34	0.147178	-0.09208	0.545332
U3	NH4	TDSMN	0.948683	4	0.051317	-0.14062	0.998956
U3	NO2	SCOND		1			
U3	NO2	DOC	0	6	1	-0.81157	0.811568
U3	NO2	TDSFE	1	2			
U3	NO2	TDSCU	-1	2			
U3	NO2	TDSZN		1			
U3	NO2	TDSMN		0			
U3	SCOND	DOC		0			
U3	SCOND	TDSFE		0			
U3	SCOND	TDSCU		0			
U3	SCOND	TDSZN		0			
U3	SCOND	TDSMN		0			
U3	DOC	TDSFE	0.138399	47	0.353541	-0.15493	0.409303
U3	DOC	TDSCU	0.077634	39	0.638526	-0.24386	0.383756

U3	DOC	TDSZN	-0.03799	34	0.831079	-0.37139	0.304087
U3	DOC	TDSMN	0.666886	5	0.218894	-0.52326	0.97531
U3	TDSFE	TDSCU	0.377611	30	0.039663	0.020066	0.649523
U3	TDSFE	TDSZN	-0.23129	29	0.227364	-0.55108	0.147751
U3	TDSFE	TDSMN	-1	2			
U3	TDSCU	TDSZN	-0.07044	29	0.716525	-0.42596	0.303916
U3	TDSCU	TDSMN	-0.7746	4	0.225403	-0.99497	0.729792
U3	TDSZN	TDSMN	1	2			

SURFACE WATER
SPEARMAN
CO-CORRELATION
POOLED STATIONS

var1	var2	corr	n	pvalue	fishersz	sigmaz	l95	u95	
CAF	CLF	0.865382	148		0	1.314388	0.083045	0.81829	0.900934
CAF	DOC	0.846943	145		0	1.245237	0.083918	0.79348	0.887434
CAF	FEF	0.059483	114	0.529567	0.059554	0.094916	-0.12581	0.240768	
CAF	KF	-0.40036	126	3.40E-06	-0.42408	0.090167	-0.53762	-0.24243	
CAF	MGF	0.969024	148		0	2.076046	0.083045	0.95736	0.977535
CAF	NH3F	0.067909	143	0.420316	0.068013	0.084515	-0.09733	0.229502	
CAF	PH	0.002591	125	0.977125	0.002591	0.090536	-0.1731	0.17812	
CAF	PO4F	0.73049	121		0	0.929778	0.092057	0.634758	0.804137
CAF	SO4F	-0.14277	148	0.083439	-0.14376	0.083045	-0.29727	0.019011	
CAF	SULF	0.163302	143	0.051323	0.164777	0.084515	-0.00087	0.318905	
CAF	TKNF	0.723775	145		0	0.915527	0.083918	0.635773	0.793202
CAF	TPF	0.735364	133		0	0.940309	0.087706	0.646002	0.804843
CLF	DOC	0.832329	149		0	1.195671	0.082761	0.775292	0.875901
CLF	FEF	-0.05196	114	0.582997	-0.052	0.094916	-0.23364	0.133234	
CLF	KF	-0.47371	130	1.25E-08	-0.51484	0.088736	-0.59719	-0.3283	
CLF	MGF	0.860906	152		0	1.296835	0.081923	0.813153	0.897147
CLF	NH3F	0.066046	145	0.429949	0.066142	0.083918	-0.09802	0.226618	
CLF	PH	0.089888	129	0.311038	0.090131	0.089087	-0.08428	0.258725	
CLF	PO4F	0.690775	123		0	0.849437	0.091287	0.585318	0.77325
CLF	SO4F	-0.17507	152	0.030987	-0.17689	0.081923	-0.32521	-0.01632	
CLF	SULF	0.155095	147	0.060691	0.156357	0.083333	-0.00698	0.309227	
CLF	TKNF	0.725121	149		0	0.918362	0.082761	0.638804	0.793411
CLF	TPF	0.683554	137		0	0.835755	0.086387	0.582631	0.763716
DOC	FEF	0.052299	111	0.58566	0.052346	0.096225	-0.13542	0.23639	
DOC	KF	-0.32952	127	0.000155	-0.34229	0.089803	-0.47639	-0.16476	
DOC	MGF	0.844665	149		0	1.237233	0.082761	0.791346	0.885231
DOC	NH3F	0.154823	142	0.065807	0.156078	0.084819	-0.01017	0.311606	
DOC	PH	-0.06931	126	0.440614	-0.06942	0.090167	-0.24129	0.106898	
DOC	PO4F	0.67379	120		0	0.817652	0.09245	0.562477	0.761112
DOC	SO4F	-0.17617	149	0.031619	-0.17803	0.082761	-0.32769	-0.01582	
DOC	SULF	0.317635	144	0.000105	0.329014	0.084215	0.162499	0.457446	
DOC	TKNF	0.695798	146		0	0.859109	0.083624	0.601316	0.771091
DOC	TPF	0.678891	134		0	0.827053	0.08737	0.575566	0.760879
FEF	KF	0.000414	98	0.996768	0.000414	0.102598	-0.19803	0.198822	
FEF	MGF	-0.00081	114	0.993174	-0.00081	0.094916	-0.1847	0.183135	
FEF	NH3F	-0.25722	111	0.006425	-0.26313	0.096225	-0.42332	-0.07439	
FEF	PH	0.036359	93	0.729339	0.036375	0.105409	-0.1686	0.238306	
FEF	PO4F	0.172359	94	0.096677	0.174097	0.104828	-0.03136	0.362326	
FEF	SO4F	0.214401	114	0.021983	0.21778	0.094916	0.031735	0.383209	
FEF	SULF	-0.20591	111	0.030149	-0.2089	0.096225	-0.37781	-0.02029	
FEF	TKNF	-0.08212	111	0.391544	-0.0823	0.096225	-0.26447	0.105899	
FEF	TPF	0.199037	100	0.047116	0.20173	0.101535	0.002722	0.38058	
KF	MGF	-0.35753	130	2.97E-05	-0.37405	0.088736	-0.499	-0.1975	
KF	NH3F	0.040052	123	0.660055	0.040073	0.091287	-0.13796	0.215561	
KF	PH	-0.0858	107	0.379569	-0.08601	0.098058	-0.27124	0.105788	
KF	PO4F	-0.55676	101	1.49E-09	-0.62813	0.101015	-0.67839	-0.40544	

KF	SO4F	0.003504	130	0.968437	0.003504	0.088736	-0.16879	0.175588
KF	SULF	0.088906	127	0.32023	0.089142	0.089803	-0.08665	0.259111
KF	TKNF	-0.43302	127	3.68E-07	-0.4636	0.089803	-0.56464	-0.27991
KF	TPF	-0.46125	118	1.47E-07	-0.4989	0.09325	-0.5926	-0.306
MGF	NH3F	0.157442	145	0.058589	0.158763	0.083918	-0.00572	0.312436
MGF	PH	-0.07665	129	0.387911	-0.0768	0.089087	-0.24625	0.097496
MGF	PO4F	0.708931	123	0	0.885032	0.091287	0.608232	0.787173
MGF	SO4F	-0.1411	152	0.082941	-0.14204	0.081923	-0.2937	0.018524
MGF	SULF	0.183499	147	0.026099	0.185601	0.083333	0.022264	0.33543
MGF	TKNF	0.795633	149	0	1.086598	0.082761	0.727966	0.847949
MGF	TPF	0.6893	137	0	0.84662	0.086387	0.589762	0.768207
NH3F	PH	-0.08429	124	0.35195	-0.08449	0.090909	-0.2568	0.093414
NH3F	PO4F	0.319363	121	0.000356	0.330938	0.092057	0.149379	0.471012
NH3F	SO4F	-0.56468	145	1.39E-13	-0.63968	0.083918	-0.66636	-0.44239
NH3F	SULF	0.277595	140	0.000898	0.285074	0.085436	0.117081	0.423975
NH3F	TKNF	0.50687	142	1.22E-10	0.558508	0.084819	0.37331	0.619845
NH3F	TPF	0.228346	130	0.008975	0.232443	0.088736	0.058455	0.385382
PH	PO4F	0.022728	108	0.815391	0.022732	0.09759	-0.16697	0.2108
PH	SO4F	0.104899	129	0.236773	0.105286	0.089087	-0.06921	0.272809
PH	SULF	-0.13782	124	0.126907	-0.1387	0.090909	-0.30668	0.039462
PH	TKNF	-0.08156	126	0.363903	-0.08175	0.090167	-0.25287	0.094696
PH	TPF	0.028907	124	0.74995	0.028915	0.090909	-0.14817	0.204186
PO4F	SO4F	-0.26272	123	0.003327	-0.26903	0.091287	-0.42022	-0.08987
PO4F	SULF	0.177854	119	0.052973	0.179766	0.092848	-0.00222	0.346752
PO4F	TKNF	0.782264	120	0	1.051177	0.09245	0.701361	0.843268
PO4F	TPF	0.923394	113	0	1.611583	0.095346	0.890576	0.946646
SO4F	SULF	-0.34503	147	1.87E-05	-0.35979	0.083333	-0.4801	-0.19397
SO4F	TKNF	-0.33864	149	2.4E-05	-0.35256	0.082761	-0.47365	-0.18808
SO4F	TPF	-0.20758	137	0.014936	-0.21064	0.086387	-0.36267	-0.0413
SULF	TKNF	0.216011	144	0.009314	0.219468	0.084215	0.054352	0.366635
SULF	TPF	0.264323	132	0.002194	0.27075	0.088045	0.097867	0.416391
TKNF	TPF	0.727373	135	0	0.923125	0.087039	0.636655	0.798232

PORE WATER LAG 0 – LAG 6
MOSQUITOFISH THg vs Y
BY STATION

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F1	CAF	LAG0	5	196.095	53.4829	0.0215	-0.6954	0.20457	0.0273	0.7428
F1	CAF	LAG1	8	6.0761	72.4939	0.9355	0.0434	0.28611	0.8837	0.0033
F1	CAF	LAG2	7	109.299	79.2496	0.217	-0.3486	0.30614	0.2982	0.1777
F1	CAF	LAG3	7	-57.052	72.4122	0.4608	0.26768	0.27915	0.3746	0.1329
F1	CAF	LAG4	8	64.7562	51.8894	0.2522	-0.2081	0.20231	0.3378	0.1313
F1	CAF	LAG5	6	14.43	14.6147	0.3688	-0.0299	0.05662	0.6202	0.0528
F1	CAF	LAG6	9	75.2181	75.6436	0.3492	-0.2275	0.29118	0.4571	0.0709
F1	CLF	LAG0	5	77.0201	67.2894	0.3162	-0.1291	0.13899	0.4057	0.1773
F1	CLF	LAG1	9	58.7548	51.9724	0.291	-0.0892	0.10675	0.4275	0.0803
F1	CLF	LAG2	7	122.507	58.0902	0.0795	-0.214	0.11981	0.1243	0.3472
F1	CLF	LAG3	8	-9.415	47.4259	0.8483	0.04169	0.09446	0.6723	0.0271
F1	CLF	LAG4	9	-23.214	49.5754	0.6521	0.0819	0.10175	0.4441	0.0749
F1	CLF	LAG5	7	13.0082	8.35994	0.1707	-0.0132	0.01686	0.4624	0.0931
F1	CLF	LAG6	9	39.598	69.1666	0.5827	-0.049	0.145	0.7442	0.0141
F1	DOC	LAG0	5	80.9021	89.9745	0.4194	-0.5381	0.73173	0.5029	0.1191
F1	DOC	LAG1	8	9.23979	53.2995	0.8673	0.06429	0.44197	0.8885	0.003
F1	DOC	LAG2	6	61.9808	25.0345	0.0561	-0.299	0.17167	0.1421	0.3776
F1	DOC	LAG3	8	4.09495	47.8771	0.9342	0.06019	0.39445	0.883	0.0033
F1	DOC	LAG4	8	15.6693	23.3135	0.5231	-0.0266	0.16323	0.875	0.0038
F1	DOC	LAG5	7	2.7839	3.09649	0.4033	0.02702	0.02156	0.2568	0.2074
F1	DOC	LAG6	8	33.289	58.0585	0.5843	-0.1281	0.47588	0.7955	0.0103
F1	FEF	LAG0	3	-13.637	11.5667	0.3597	1.98083	0.58011	0.0761	0.8536
F1	FEF	LAG1	6	-5.232	11.6979	0.6734	1.03169	0.57267	0.1315	0.3936
F1	FEF	LAG2	3	-6.9945	25.3736	0.8087	2.73437	2.26799	0.3512	0.4209
F1	FEF	LAG3	5	7.78067	1.41068	0.0053	-0.1223	0.0671	0.1425	0.4537
F1	FEF	LAG4	5	11.2638	16.8176	0.5397	0.24577	0.99929	0.8178	0.0149
F1	FEF	LAG5	3	5.01504	1.81241	0.1096	0.02554	0.15977	0.8877	0.0126
F1	FEF	LAG6	7	-7.2836	10.0736	0.4969	2.0442	0.66502	0.0218	0.6116
F1	KF	LAG0	5	22.9047	26.1132	0.4299	-1.8485	5.73455	0.7633	0.0253
F1	KF	LAG1	8	30.3726	17.5872	0.1278	-3.7524	4.41015	0.423	0.0937
F1	KF	LAG2	7	26.1627	19.7237	0.2329	-1.6147	4.29814	0.7201	0.023
F1	KF	LAG3	7	7.17025	18.2538	0.708	1.06391	3.78633	0.7882	0.013
F1	KF	LAG4	8	29.3456	18.3552	0.1539	-3.2422	4.37959	0.4832	0.0726
F1	KF	LAG5	7	10.0353	2.41302	0.006	-0.7102	0.45187	0.1671	0.2916
F1	KF	LAG6	7	46.5345	33.6162	0.2156	-5.4369	6.50765	0.4355	0.1042
F1	MGF	LAG0	5	256.627	49.9439	0.0068	-3.0264	0.62403	0.0083	0.8547
F1	MGF	LAG1	9	19.7101	67.956	0.7792	-0.051	0.86015	0.9542	0.0004
F1	MGF	LAG2	7	163.774	136.035	0.274	-1.8259	1.71868	0.3289	0.1583
F1	MGF	LAG3	8	-20.861	68.3578	0.7691	0.39456	0.83424	0.6506	0.031
F1	MGF	LAG4	9	-10.674	74.7268	0.89	0.33872	0.934	0.7263	0.0162
F1	MGF	LAG5	7	10.4377	14.1583	0.4888	-0.0484	0.17307	0.7893	0.0128
F1	MGF	LAG6	9	54.7631	83.3098	0.5294	-0.4897	1.05847	0.6559	0.0261
F1	NH3F	LAG0	5	18.8303	14.1426	0.2538	-2.8109	7.81878	0.7374	0.0313
F1	NH3F	LAG1	8	25.4009	10.6386	0.0483	-6.8726	6.25945	0.3085	0.1469
F1	NH3F	LAG2	7	26.3742	10.8392	0.0509	-5.6949	5.91444	0.3728	0.1338

F1	NH3F	LAG3	7	16.9772	11.0002	0.1737	-2.5143	4.3932	0.5879	0.0518
F1	NH3F	LAG4	8	15.2829	7.81141	0.0913	-2.1627	3.20627	0.5216	0.061
F1	NH3F	LAG5	6	8.39957	1.51808	0.0026	-0.6728	0.47174	0.2131	0.2892
F1	NH3F	LAG6	9	24.4037	11.3483	0.0637	-2.9581	3.33414	0.4009	0.0896
F1	PH	LAG0	5	-674.82	253.546	0.0563	100.129	36.7897	0.0529	0.6493
F1	PH	LAG1	8	451.52	377.483	0.2706	-62.376	54.187	0.2875	0.1592
F1	PH	LAG2	7	-274.11	498.348	0.6022	42.622	72.3317	0.5772	0.0547
F1	PH	LAG3	8	167.566	385.668	0.677	-22.391	55.2682	0.6975	0.0229
F1	PH	LAG4	9	-20.812	230.791	0.9304	5.40816	33.6121	0.8762	0.0032
F1	PH	LAG5	7	65.4365	62.446	0.3351	-8.5582	9.06551	0.3816	0.1293
F1	PH	LAG6	9	-198.26	224.026	0.402	31.0077	32.3519	0.3659	0.103
F1	PO4F	LAG0	4	36.2364	29.4573	0.3063	-158	220.754	0.5258	0.1458
F1	PO4F	LAG1	8	12.0098	16.32	0.4857	44.4987	145.332	0.7684	0.0132
F1	PO4F	LAG2	7	45.2559	12.3653	0.0106	-168.5	69.8282	0.0524	0.4925
F1	PO4F	LAG3	7	12.7394	11.5513	0.3123	-4.0396	76.3593	0.9595	0.0005
F1	PO4F	LAG4	9	27.4342	11.3574	0.0421	-67.314	55.9458	0.2633	0.1532
F1	PO4F	LAG5	6	6.00196	2.05311	0.0329	3.00439	7.70304	0.7126	0.0295
F1	PO4F	LAG6	8	18.527	10.182	0.1116	-33.424	41.794	0.4502	0.0837
F1	SO4F	LAG0	5	-2.0438	3.94702	0.6319	0.45215	0.0709	0.0031	0.9104
F1	SO4F	LAG1	9	13.9313	9.26641	0.1711	0.06476	0.21316	0.769	0.0114
F1	SO4F	LAG2	7	-0.4263	11.4387	0.9715	1.00011	0.46835	0.0766	0.4318
F1	SO4F	LAG3	8	13.3564	7.63421	0.1237	-0.0777	0.17237	0.6657	0.0282
F1	SO4F	LAG4	9	18.0292	9.0753	0.0822	-0.0633	0.2066	0.767	0.0116
F1	SO4F	LAG5	7	4.46168	1.36206	0.0169	0.14971	0.08049	0.1122	0.3657
F1	SO4F	LAG6	9	8.86655	6.50188	0.2098	0.36347	0.16113	0.0541	0.3888
F1	SULF	LAG0	5	-5.021	32.1829	0.8836	3.13922	4.81892	0.5503	0.0959
F1	SULF	LAG1	9	35.6268	18.9083	0.0963	-3.4861	3.09214	0.2922	0.1371
F1	SULF	LAG2	7	47.8903	22.7642	0.0801	-5.4979	4.14864	0.2333	0.2264
F1	SULF	LAG3	8	18.0489	22.3574	0.4461	-1.037	3.3176	0.7637	0.0138
F1	SULF	LAG4	9	-8.1765	22.3772	0.7243	4.11088	3.58864	0.2851	0.1409
F1	SULF	LAG5	7	7.96326	3.47797	0.062	-0.2216	0.50157	0.6741	0.0315
F1	SULF	LAG6	9	-27.129	14.9987	0.1081	7.63602	2.49219	0.0155	0.5399
F1	TKNF	LAG0	5	45.4324	53.9798	0.4474	-3.8596	6.75924	0.5985	0.0754
F1	TKNF	LAG1	9	49.2173	47.1629	0.3272	-4.4774	6.23085	0.4928	0.0606
F1	TKNF	LAG2	7	76.7628	37.1869	0.0846	-7.5772	4.82338	0.1673	0.2914
F1	TKNF	LAG3	8	17.2007	34.2167	0.6306	-0.7184	4.12193	0.8666	0.0043
F1	TKNF	LAG4	9	30.1603	31.1348	0.3611	-1.7139	3.75038	0.6598	0.0254
F1	TKNF	LAG5	7	11.0407	3.88123	0.0294	-0.5308	0.44011	0.2732	0.1951
F1	TKNF	LAG6	9	38.8317	29.0923	0.2187	-2.4724	3.10961	0.4495	0.0732
F1	TPF	LAG0	5	25.4144	22.589	0.3235	-67.647	134.386	0.6412	0.0596
F1	TPF	LAG1	9	3.91237	14.0607	0.7879	93.3232	97.1579	0.3649	0.1034
F1	TPF	LAG2	7	48.8859	11.7649	0.006	-165.28	57.8704	0.029	0.5762
F1	TPF	LAG3	8	12.9873	11.6027	0.2999	-12.19	72.188	0.8707	0.0041
F1	TPF	LAG4	9	28.6197	12.0672	0.0451	-62.709	51.5132	0.2582	0.1563
F1	TPF	LAG5	7	5.286	1.81942	0.0271	5.08807	6.48261	0.4624	0.0931
F1	TPF	LAG6	8	26.0464	13.7525	0.1001	-43.955	59.7345	0.4858	0.0718

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F2	CAF	LAG0	3	174.801	135.241	0.3254	-0.7266	0.65274	0.3815	0.3826
F2	CAF	LAG1	5	-103.1	192.307	0.6203	0.65906	0.94573	0.5243	0.1083
F2	CAF	LAG2	5	-100.71	164.964	0.5745	0.61314	0.77872	0.4751	0.1342
F2	CAF	LAG3	3	133.765	221.711	0.6076	-0.5322	1.10682	0.6781	0.1036
F2	CAF	LAG4	6	75.7292	129.607	0.5844	-0.288	0.64186	0.6724	0.0387
F2	CAF	LAG5	5	-14.201	106.569	0.9004	0.17003	0.50013	0.751	0.0281
F2	CAF	LAG6	6	1.70881	133.302	0.9903	0.13283	0.66665	0.8499	0.0079
F2	CLF	LAG0	3	339.976	274.816	0.3416	-0.9053	0.78943	0.3702	0.3967
F2	CLF	LAG1	6	108.594	111.076	0.3731	-0.2201	0.29824	0.4937	0.0982
F2	CLF	LAG2	5	-104.6	246.527	0.6932	0.37277	0.68827	0.6169	0.0683
F2	CLF	LAG3	4	84.8355	152.486	0.6168	-0.1604	0.39602	0.7126	0.0519
F2	CLF	LAG4	7	-49.239	107.704	0.6636	0.20273	0.29198	0.5135	0.0744
F2	CLF	LAG5	6	44.0413	123.408	0.7358	-0.0669	0.32653	0.8458	0.0083
F2	CLF	LAG6	6	67.5082	180.293	0.7234	-0.1091	0.49852	0.8354	0.0095
F2	DOC	LAG0	3	63.2171	129.126	0.6729	-0.3816	1.28588	0.7946	0.0422
F2	DOC	LAG1	5	-132.72	106.881	0.2822	1.63506	1.08267	0.2055	0.3631
F2	DOC	LAG2	4	-13.249	115.353	0.9158	0.46807	1.17206	0.7164	0.0505
F2	DOC	LAG3	4	162.077	154.351	0.3708	-1.534	1.70006	0.4334	0.2135
F2	DOC	LAG4	6	48.6384	100.161	0.6478	-0.3049	1.01961	0.777	0.0176
F2	DOC	LAG5	6	49.3799	88.2753	0.6	-0.3073	0.88225	0.7418	0.0237
F2	DOC	LAG6	6	-67.322	142.021	0.6555	1.03445	1.53294	0.5297	0.0835
F2	FEF	LAG1	4	33.5502	17.4983	0.151	-0.3902	0.3848	0.3852	0.2553
F2	FEF	LAG2	3	17.7713	26.4046	0.5703	1.39857	1.19107	0.3612	0.4081
F2	FEF	LAG3	2	-0.5019	10.2594	0.9689	0.24325	0.17564	0.3981	0.6573
F2	FEF	LAG4	3	27.708	23.7653	0.3639	-0.1727	0.51299	0.7684	0.0536
F2	FEF	LAG5	4	26.0256	24.7123	0.3696	-0.1329	1.20053	0.9189	0.0041
F2	FEF	LAG6	4	18.8998	23.9494	0.4876	0.44313	0.52574	0.4612	0.1915
F2	KF	LAG0	3	5.15982	47.5169	0.9234	3.28039	6.98775	0.685	0.0993
F2	KF	LAG1	6	38.6806	33.9201	0.3058	-1.788	4.84823	0.7274	0.0265
F2	KF	LAG2	5	48.4168	34.6945	0.2353	-3.1025	4.91103	0.5619	0.0907
F2	KF	LAG3	4	-40.917	112.225	0.7396	8.87131	15.3345	0.6035	0.1004
F2	KF	LAG4	7	-9.9817	30.8997	0.7576	5.41702	4.48639	0.2727	0.1955
F2	KF	LAG5	5	33.0226	30.8574	0.3448	-2.2351	5.15758	0.6871	0.0448
F2	KF	LAG6	6	-6.8825	44.5528	0.8833	5.58491	6.82882	0.4506	0.118
F2	MGF	LAG0	3	161.75	123.435	0.3203	-2.0146	1.80708	0.3809	0.3833
F2	MGF	LAG1	6	13.6196	179.725	0.9425	0.20102	2.66141	0.9427	0.0011
F2	MGF	LAG2	5	-200.49	138.628	0.2216	3.27992	1.97656	0.1724	0.4077
F2	MGF	LAG3	4	144.008	186.137	0.4955	-1.8178	2.79612	0.562	0.1235
F2	MGF	LAG4	7	-94.466	146.192	0.5421	1.80722	2.20266	0.4433	0.1009
F2	MGF	LAG5	6	0.87079	97.3626	0.9932	0.26037	1.39921	0.8597	0.0069
F2	MGF	LAG6	6	148.078	163.916	0.4077	-1.8607	2.53571	0.496	0.0972
F2	NH3F	LAG0	3	27.1953	61.7461	0.7027	-10.156	326.004	0.978	0.0005
F2	NH3F	LAG1	6	16.9366	13.9446	0.2788	14.3173	10.9499	0.2479	0.2548
F2	NH3F	LAG2	5	8.80338	31.1829	0.7917	95.3438	131.655	0.509	0.1159
F2	NH3F	LAG3	4	4.03776	44.2267	0.933	91.8077	196.249	0.6718	0.068
F2	NH3F	LAG4	7	29.4148	13.0161	0.0646	-7.2009	11.0537	0.5389	0.0661
F2	NH3F	LAG5	6	36.5808	21.189	0.1449	-104.22	109.335	0.3843	0.1538
F2	NH3F	LAG6	6	45.753	19.6549	0.0674	-61.992	55.5884	0.3155	0.1992
F2	PH	LAG0	3	-1766.9	103.461	0.0034	258.769	14.9355	0.0033	0.9934

F2	PH	LAG1	4	993.942	760.673	0.2825	-139.33	109.182	0.2918	0.3518
F2	PH	LAG2	5	-1113.5	1138.8	0.3835	164.819	164.317	0.3726	0.201
F2	PH	LAG3	4	611.727	935.815	0.56	-84.324	134.111	0.5741	0.1164
F2	PH	LAG4	6	377.152	828.962	0.6682	-50.503	119.939	0.6912	0.0342
F2	PH	LAG5	6	-989.1	803.73	0.2732	145.36	115.898	0.2652	0.2393
F2	PH	LAG6	6	-673.69	664.479	0.3572	101.046	95.6524	0.3391	0.1825
F2	PO4F	LAG0	3	77.3464	89.3732	0.478	-685.93	1151.56	0.6118	0.1507
F2	PO4F	LAG1	5	10.9179	22.662	0.6551	147.885	136.431	0.3394	0.227
F2	PO4F	LAG2	4	26.913	55.151	0.659	59.5989	506.306	0.9137	0.0046
F2	PO4F	LAG3	3	14.6481	44.2777	0.7722	202.77	614.136	0.7726	0.0517
F2	PO4F	LAG4	5	18.0379	18.6816	0.389	12.0817	114.094	0.9208	0.0028
F2	PO4F	LAG5	4	4.64857	8.06095	0.6046	95.7706	111.416	0.4532	0.1976
F2	PO4F	LAG6	5	80.2103	26.4787	0.0388	-737.32	376.565	0.1218	0.4894
F2	SO4F	LAG0	3	0.68522	1.44225	0.6815	0.41128	0.01532	0.0014	0.9972
F2	SO4F	LAG1	6	32.5795	14.6222	0.0763	-0.1545	0.20709	0.4891	0.1002
F2	SO4F	LAG2	5	22.8693	35.091	0.5501	0.34508	1.86772	0.8624	0.0085
F2	SO4F	LAG3	4	23.3955	19.6471	0.3194	0.00009	0.23396	0.9997	0
F2	SO4F	LAG4	7	28.7745	13.2167	0.0723	-0.1066	0.19803	0.6098	0.0461
F2	SO4F	LAG5	6	4.72992	23.1116	0.8459	0.78533	1.14095	0.5219	0.0866
F2	SO4F	LAG6	6	16.0097	12.3197	0.2505	0.30398	0.17139	0.1363	0.3862
F2	SULF	LAG0	3	66.7667	51.2264	0.3223	-7.0583	8.17969	0.4791	0.2713
F2	SULF	LAG1	6	53.8565	36.7152	0.2023	-3.5701	4.60926	0.4736	0.1071
F2	SULF	LAG2	5	-46.659	53.8589	0.4352	10.6844	7.42052	0.2233	0.3414
F2	SULF	LAG3	4	33.9004	35.505	0.4101	-1.5814	4.78406	0.7627	0.0351
F2	SULF	LAG4	7	-18.054	26.7764	0.5253	5.78779	3.35433	0.1352	0.3316
F2	SULF	LAG5	6	35.4251	27.6383	0.2562	-2.1262	3.27649	0.545	0.0777
F2	SULF	LAG6	6	95.5692	22.7408	0.0085	-10.654	3.38796	0.0255	0.6642
F2	TKNF	LAG0	3	70.544	142.586	0.6698	-7.4332	23.225	0.7793	0.0487
F2	TKNF	LAG1	6	-27.836	53.2521	0.6235	8.37756	7.90066	0.3375	0.1836
F2	TKNF	LAG2	5	-32.433	101.29	0.7648	10.3266	16.9283	0.5748	0.0851
F2	TKNF	LAG3	4	63.6331	159.225	0.7162	-6.901	27.1735	0.8159	0.021
F2	TKNF	LAG4	7	27.4731	53.753	0.6275	-0.3573	8.02758	0.9659	0.0003
F2	TKNF	LAG5	6	64.5366	57.9375	0.316	-7.9221	9.88705	0.4593	0.1138
F2	TKNF	LAG6	6	-5.3181	127.539	0.9684	5.8777	22.2869	0.8025	0.0137
F2	TPF	LAG0	3	37.6349	87.9067	0.7103	-131.34	915.41	0.8991	0.0102
F2	TPF	LAG1	6	5.45698	21.2668	0.8077	176.835	144.529	0.2756	0.2304
F2	TPF	LAG2	5	3.3368	31.9447	0.9218	254.571	286.489	0.4244	0.1649
F2	TPF	LAG3	4	10.7846	38.6057	0.7981	173.051	483.12	0.7439	0.041
F2	TPF	LAG4	7	28.4669	18.5621	0.176	-31.652	137.927	0.8261	0.0087
F2	TPF	LAG5	6	33.7146	19.8215	0.1497	-222.73	254.023	0.4207	0.1333
F2	TPF	LAG6	6	37.107	32.0987	0.2999	-122.68	401.897	0.7725	0.0183

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F3	CAF	LAG0	3	322.694	371.312	0.4764	-2.4843	3.12244	0.5097	0.2404
F3	CAF	LAG1	5	45.5421	132.112	0.7477	-0.1314	1.15284	0.9148	0.0032
F3	CAF	LAG2	5	-505.72	349.497	0.2214	4.40849	2.87961	0.2005	0.3695
F3	CAF	LAG3	4	32.4972	119.749	0.8037	-0.0623	1.00525	0.9545	0.0013
F3	CAF	LAG4	6	-243.01	226.271	0.3319	2.23796	1.8959	0.2909	0.2179
F3	CAF	LAG5	4	26.0925	93.2685	0.7978	0.02797	0.77546	0.9735	0.0004
F3	CAF	LAG6	7	-47.992	124.203	0.7125	0.63252	1.03399	0.5632	0.0587
F3	CLF	LAG0	3	439.896	158.795	0.1093	-1.9076	0.73388	0.1216	0.7716
F3	CLF	LAG1	6	-7.751	165.906	0.9645	0.17596	0.79415	0.8334	0.0097
F3	CLF	LAG2	5	287.519	334.491	0.4385	-1.2016	1.55507	0.4828	0.1299
F3	CLF	LAG3	5	-104.49	157.808	0.5441	0.59968	0.73873	0.4625	0.1414
F3	CLF	LAG4	7	-109.66	187.727	0.5804	0.64324	0.87749	0.4912	0.0822
F3	CLF	LAG5	5	152.739	97.3077	0.1916	-0.5735	0.43621	0.2589	0.3018
F3	CLF	LAG6	7	-153.82	200.057	0.4711	0.86246	0.94913	0.3985	0.121
F3	DOC	LAG0	3	82.6029	196.484	0.7151	-1.0274	3.64963	0.8048	0.0381
F3	DOC	LAG1	5	128.755	222.251	0.5934	-1.8987	4.16211	0.6719	0.0495
F3	DOC	LAG2	4	19.1026	227.175	0.9383	0.21809	4.15351	0.9614	0.0009
F3	DOC	LAG3	5	-70.097	183.615	0.7221	1.69046	3.31475	0.6369	0.0611
F3	DOC	LAG4	6	64.6305	158.528	0.7004	-0.7719	2.93262	0.8029	0.0137
F3	DOC	LAG5	5	69.4312	106.099	0.5486	-0.7865	1.8778	0.6968	0.042
F3	DOC	LAG6	6	-0.7182	178.97	0.997	0.56861	3.26687	0.8687	0.006
F3	FEF	LAG0	2	14.9638	2.01642	0.0853	0.32968	0.02842	0.0547	0.9926
F3	FEF	LAG1	4	35.5312	17.7119	0.1385	-0.2139	0.29253	0.5176	0.1512
F3	FEF	LAG2	4	46.5959	22.8791	0.1345	-0.5185	0.84922	0.5846	0.1105
F3	FEF	LAG3	4	19.8346	14.9028	0.2753	0.12898	0.25923	0.653	0.0762
F3	FEF	LAG4	4	16.9706	16.6423	0.3829	0.12085	0.28098	0.6961	0.0581
F3	FEF	LAG5	3	16.0432	21.4665	0.5328	1.04194	1.26644	0.4971	0.2529
F3	FEF	LAG6	6	19.7764	11.0101	0.1324	0.2817	0.21518	0.2474	0.2553
F3	KF	LAG0	3	49.2397	79.3559	0.5982	-2.6229	9.42648	0.8069	0.0373
F3	KF	LAG1	6	-11.506	72.2183	0.8797	5.19238	9.19372	0.5966	0.06
F3	KF	LAG2	5	-114.9	66.7636	0.1604	16.7819	7.73026	0.0957	0.5409
F3	KF	LAG3	5	153.855	180.734	0.4426	-15.643	21.6566	0.5101	0.1154
F3	KF	LAG4	7	59.1489	79.1886	0.4833	-3.7103	9.33298	0.7047	0.0257
F3	KF	LAG5	4	-2.1649	132.961	0.988	3.44099	16.0422	0.8439	0.0151
F3	KF	LAG6	7	179.26	166.091	0.3219	-17.807	19.5107	0.3966	0.1219
F3	MGF	LAG0	3	391.875	166.563	0.1429	-9.0586	4.13667	0.16	0.7057
F3	MGF	LAG1	6	10.6889	105.941	0.9236	0.48392	2.79628	0.8694	0.006
F3	MGF	LAG2	5	-1052.7	129.357	0.0012	26.2953	3.1436	0.0011	0.9459
F3	MGF	LAG3	5	5.88842	94.6834	0.9534	0.44646	2.39786	0.8614	0.0086
F3	MGF	LAG4	7	183.168	153.545	0.2779	-3.9239	3.87393	0.3502	0.146
F3	MGF	LAG5	5	-32.687	81.8621	0.7101	1.46206	2.06067	0.5172	0.1118
F3	MGF	LAG6	7	-27.43	135.666	0.8465	1.36976	3.3568	0.6974	0.027
F3	NH3F	LAG0	3	30.7519	14.6931	0.1714	-25.588	73.6273	0.7614	0.057
F3	NH3F	LAG1	5	37.0156	16.8016	0.0923	-49.748	98.2464	0.6392	0.0602
F3	NH3F	LAG2	5	35.4793	20.1083	0.1524	-27.651	74.9924	0.731	0.0329
F3	NH3F	LAG3	4	21.8557	18.9561	0.3325	12.4973	59.7775	0.8478	0.0144
F3	NH3F	LAG4	6	26.5097	11.1406	0.0632	-8.4004	24.9982	0.7505	0.0221
F3	NH3F	LAG5	4	32.5295	20.3678	0.2085	-9.1562	54.7693	0.8779	0.0092
F3	NH3F	LAG6	7	37.7686	13.8959	0.0347	-20.781	24.1695	0.4229	0.1097

F3	PH	LAG0	3	-514.5	508.125	0.4178	79.6445	74.6712	0.3979	0.3626
F3	PH	LAG1	5	678.452	547.617	0.2831	-94.515	80.0693	0.3032	0.2584
F3	PH	LAG2	5	-896.54	335.385	0.0556	135.488	49.078	0.0508	0.6558
F3	PH	LAG3	5	992.142	482.183	0.1087	-140.95	70.1554	0.1149	0.5023
F3	PH	LAG4	7	511.6	527.845	0.3699	-71.018	77.4807	0.3947	0.1228
F3	PH	LAG5	5	-313.48	412.605	0.4897	49.1683	59.9031	0.4579	0.1441
F3	PH	LAG6	7	10.6144	555.584	0.9854	2.50427	80.8035	0.9763	0.0002
F3	PO4F	LAG0	3	29.4888	18.9843	0.2606	-216.54	1564.47	0.9026	0.0095
F3	PO4F	LAG1	5	50.4548	22.3529	0.0869	-2192.5	2197.61	0.3749	0.1992
F3	PO4F	LAG2	4	33.0983	25.9351	0.2917	-164.19	1854.88	0.935	0.0026
F3	PO4F	LAG3	4	11.025	24.3836	0.6819	1051.12	1651.85	0.5698	0.1189
F3	PO4F	LAG4	5	33.7118	17.6224	0.1283	-872.29	1570.45	0.6082	0.0716
F3	PO4F	LAG5	3	14.4618	14.7165	0.4294	613.623	972.23	0.5925	0.1661
F3	PO4F	LAG6	6	36.7438	24.0548	0.1872	-390.73	1616.67	0.8186	0.0115
F3	SO4F	LAG0	3	13.1329	4.76194	0.1102	0.19614	0.0447	0.0482	0.9059
F3	SO4F	LAG1	6	34.8991	10.6988	0.0224	-0.126	0.13171	0.3826	0.1548
F3	SO4F	LAG2	5	36.9301	15.2451	0.0726	-0.4261	0.62339	0.5318	0.1046
F3	SO4F	LAG3	5	19.4262	9.92641	0.122	0.08548	0.11667	0.5044	0.1183
F3	SO4F	LAG4	7	29.2591	9.78707	0.0243	-0.0337	0.12866	0.8021	0.0113
F3	SO4F	LAG5	5	33.2026	12.4684	0.0562	-0.3986	0.48292	0.4556	0.1455
F3	SO4F	LAG6	7	20.8188	7.10049	0.0262	0.20068	0.09684	0.0836	0.4171
F3	SULF	LAG0	3	36.1119	14.6883	0.1332	-1.4202	1.76813	0.5061	0.2439
F3	SULF	LAG1	6	28.6672	16.7385	0.1475	0.04086	1.99413	0.9844	0.0001
F3	SULF	LAG2	5	1.50397	14.2273	0.9209	3.97382	1.76643	0.0877	0.5585
F3	SULF	LAG3	5	35.758	19.7597	0.1446	-1.3898	2.02169	0.5296	0.1057
F3	SULF	LAG4	7	32.7238	13.5091	0.0517	-0.5999	1.33089	0.668	0.0327
F3	SULF	LAG5	5	37.2214	14.6079	0.0634	-1.3408	1.38786	0.3887	0.1892
F3	SULF	LAG6	7	37.5648	15.0283	0.0466	-1.1153	1.4711	0.4771	0.0874
F3	TKNF	LAG0	3	21.4605	251.276	0.9397	1.86364	79.0612	0.9833	0.0003
F3	TKNF	LAG1	6	19.9239	72.8206	0.7953	2.7234	21.7857	0.9054	0.0031
F3	TKNF	LAG2	5	30.3336	65.3463	0.6666	-0.3583	19.9343	0.9865	0.0001
F3	TKNF	LAG3	5	-7.4003	129.766	0.9573	9.36971	39.3328	0.8234	0.014
F3	TKNF	LAG4	7	-7.1403	41.2916	0.8684	10.0819	11.6944	0.4217	0.1102
F3	TKNF	LAG5	5	122.724	44.3197	0.0504	-31.826	14.3365	0.0906	0.552
F3	TKNF	LAG6	7	40.2288	44.3897	0.3997	-3.5295	12.4243	0.7859	0.0133
F3	TPF	LAG0	3	23.317	24.1794	0.4366	212.315	1118.97	0.867	0.0177
F3	TPF	LAG1	6	48.7121	19.6327	0.0558	-1040.1	932.099	0.3152	0.1994
F3	TPF	LAG2	5	30.7584	25.9198	0.301	-81.201	1209.39	0.9497	0.0011
F3	TPF	LAG3	5	3.91328	28.9957	0.8992	739.245	1051.52	0.5208	0.11
F3	TPF	LAG4	7	33.0389	19.0634	0.1338	-222.79	737.965	0.7729	0.015
F3	TPF	LAG5	5	43.1137	24.2168	0.1496	-739.26	942.461	0.4767	0.1333
F3	TPF	LAG6	7	21.2805	29.1081	0.4923	261.378	1115.09	0.8225	0.0091

station	independent	month lag	df	intercept	se_int	pvalue_int	slope	se_slope	p value slope	r_square
F4	CAF	LAG0	4	61.6399	109.798	0.6137	-0.2689	0.97578	0.8008	0.0247
F4	CAF	LAG1	9	60.4376	47.0095	0.2345	-0.2622	0.45743	0.5822	0.0395
F4	CAF	LAG2	6	178.226	92.9345	0.1133	-1.2062	0.82679	0.2044	0.2986
F4	CAF	LAG3	8	-46.027	46.8447	0.3586	0.73146	0.44569	0.1448	0.2779
F4	CAF	LAG4	8	43.6207	67.2835	0.5375	-0.0649	0.64194	0.9223	0.0015
F4	CAF	LAG5	6	167.857	76.6303	0.08	-1.2509	0.67695	0.1239	0.4058
F4	CAF	LAG6	10	66.6022	53.1408	0.2417	-0.3062	0.49033	0.5478	0.0415
F4	CLF	LAG0	4	54.8358	196.819	0.7986	-0.1199	1.01246	0.9132	0.0047
F4	CLF	LAG1	9	-2.9521	51.6856	0.9559	0.2055	0.2841	0.4901	0.0614
F4	CLF	LAG2	6	38.4671	97.4759	0.7094	0.02443	0.48955	0.9621	0.0005
F4	CLF	LAG3	8	-38.802	46.5299	0.4319	0.36173	0.24175	0.1782	0.2423
F4	CLF	LAG4	8	74.7681	54.6932	0.2139	-0.2006	0.28556	0.5051	0.0658
F4	CLF	LAG5	6	92.8229	101.114	0.4007	-0.3198	0.48812	0.5413	0.0791
F4	CLF	LAG6	10	95.1189	46.9522	0.0734	-0.3237	0.24482	0.2187	0.1627
F4	DOC	LAG0	4	-9.2386	116.3	0.9417	0.79252	2.24551	0.7475	0.0399
F4	DOC	LAG1	9	-4.9712	67.7176	0.9433	0.79157	1.36686	0.5784	0.0402
F4	DOC	LAG2	6	184.576	88.8465	0.0924	-2.702	1.6907	0.1709	0.3381
F4	DOC	LAG3	8	-51.408	66.4662	0.4646	1.58103	1.28322	0.2577	0.1782
F4	DOC	LAG4	8	15.6813	73.7934	0.8378	0.41845	1.44482	0.7805	0.0118
F4	DOC	LAG5	6	194.224	118.317	0.1616	-3.1251	2.20425	0.2155	0.2867
F4	DOC	LAG6	10	146.793	52.4295	0.0207	-2.2283	1.02601	0.0579	0.3439
F4	FEF	LAG0	1	42.2533			-2.229			1
F4	FEF	LAG1	7	38.432	11.8173	0.0174	-0.2822	0.2989	0.3815	0.1294
F4	FEF	LAG2	3	39.2351	19.1591	0.1771	0.61933	0.87531	0.5526	0.2002
F4	FEF	LAG3	4	32.5266	15.8912	0.1332	-0.1166	0.3458	0.7582	0.0365
F4	FEF	LAG4	6	38.7808	13.7354	0.037	-0.1345	0.32733	0.6982	0.0327
F4	FEF	LAG5	2	57.728	56.6739	0.4941	-3.2802	7.45774	0.7362	0.1621
F4	FEF	LAG6	8	29.0555	10.8047	0.0311	0.3251	0.29018	0.2995	0.152
F4	KF	LAG0	4	-72.809	67.8447	0.3618	13.6898	8.8123	0.2181	0.4458
F4	KF	LAG1	9	75.2024	51.4807	0.1822	-5.6878	7.0015	0.4401	0.0762
F4	KF	LAG2	6	-83.805	96.8273	0.4263	15.3139	11.6106	0.2444	0.2581
F4	KF	LAG3	8	1.02818	84.8424	0.9907	3.97725	11.6182	0.7422	0.0165
F4	KF	LAG4	8	214.613	88.9312	0.0466	-22.066	11.0023	0.0849	0.3649
F4	KF	LAG5	6	90.0933	70.7687	0.259	-8.5754	9.52554	0.4092	0.1395
F4	KF	LAG6	9	87.8389	83.9889	0.3262	-7.5391	10.8657	0.5074	0.0568
F4	MGF	LAG0	4	59.4709	116.709	0.6455	-0.7399	3.07801	0.8255	0.0189
F4	MGF	LAG1	9	51.9095	43.3455	0.2654	-0.5288	1.24977	0.6834	0.0219
F4	MGF	LAG2	6	131.899	90.877	0.2064	-2.3554	2.4013	0.3717	0.1614
F4	MGF	LAG3	8	-35.67	44.8175	0.4522	1.85915	1.25257	0.1813	0.2394
F4	MGF	LAG4	8	40.9499	59.8851	0.5161	-0.1148	1.66904	0.9471	0.0007
F4	MGF	LAG5	6	156.004	59.0217	0.0458	-3.3967	1.543	0.079	0.4922
F4	MGF	LAG6	10	74.0461	44.7471	0.1324	-1.1093	1.21479	0.385	0.0848
F4	NH3F	LAG0	3	10.0314	9.02179	0.3819	113.342	31.145	0.0679	0.8688
F4	NH3F	LAG1	8	43.3625	15.3838	0.0258	-40.482	70.7797	0.5853	0.0446
F4	NH3F	LAG2	5	76.2528	1.90177	<.0001	-113.33	5.87083	<.0001	0.9894
F4	NH3F	LAG3	7	27.5521	11.4979	0.0536	-15.051	51.3316	0.7792	0.0141
F4	NH3F	LAG4	8	23.923	13.9027	0.129	72.8084	61.5943	0.2758	0.1664
F4	NH3F	LAG5	5	30.5793	14.0163	0.0946	-7.5781	57.4191	0.9014	0.0043
F4	NH3F	LAG6	10	48.2833	11.3074	0.0021	-86.784	53.6442	0.1402	0.2253

F4	PH	LAG0	4	185.175	847.463	0.8411	-22.313	123.093	0.8677	0.0108
F4	PH	LAG1	8	-363.31	708.642	0.624	57.9741	102.801	0.5904	0.0435
F4	PH	LAG2	6	-1273.6	565.868	0.0742	190.918	82.028	0.0674	0.52
F4	PH	LAG3	8	692.958	479.128	0.1913	-96.402	69.6546	0.2089	0.2148
F4	PH	LAG4	8	944.981	564.781	0.1382	-131.44	81.7389	0.1519	0.2698
F4	PH	LAG5	6	-827.19	496.457	0.1566	124.528	72.3853	0.146	0.3718
F4	PH	LAG6	10	-960.37	476.704	0.0748	144.926	69.4888	0.0667	0.3258
F4	PO4F	LAG0	2	-7.0328	62.303	0.9284	6192.11	7737.66	0.5703	0.3904
F4	PO4F	LAG1	7	36.6141	18.9382	0.1014	2.97674	1125.51	0.998	0
F4	PO4F	LAG2	4	51.4197	18.3457	0.0677	-687.5	1091.31	0.5734	0.1168
F4	PO4F	LAG3	4	21.3559	6.53948	0.0469	-265.99	484.605	0.6213	0.0913
F4	PO4F	LAG4	6	17.3936	12.29	0.2161	1617.8	836.502	0.1109	0.4279
F4	PO4F	LAG5	2	140.787	71.5638	0.2994	-12204	8424.13	0.3846	0.6773
F4	PO4F	LAG6	7	40.6153	14.2782	0.0294	-693.06	1008.44	0.5176	0.073
F4	SO4F	LAG0	4	37.9597	20.0167	0.1542	-0.2258	0.55956	0.7136	0.0515
F4	SO4F	LAG1	9	32.8461	13.8418	0.045	0.05547	0.54941	0.9221	0.0013
F4	SO4F	LAG2	6	20.531	11.2637	0.128	0.83058	0.31841	0.0478	0.5764
F4	SO4F	LAG3	8	27.7776	14.9054	0.1047	0.0951	0.54114	0.8655	0.0044
F4	SO4F	LAG4	8	53.086	11.5292	0.0025	-0.5934	0.31629	0.1027	0.3346
F4	SO4F	LAG5	6	33.8615	15.1486	0.0757	-0.3101	0.55075	0.5977	0.0596
F4	SO4F	LAG6	10	15.0576	9.85405	0.1608	0.92393	0.3829	0.0391	0.3928
F4	SULF	LAG0	4	5.35258	21.7385	0.8214	3.4733	2.56218	0.2683	0.3799
F4	SULF	LAG1	8	29.0064	19.1485	0.1736	0.13337	2.48232	0.9587	0.0004
F4	SULF	LAG2	6	71.2493	17.2781	0.0091	-3.7123	2.00383	0.1231	0.407
F4	SULF	LAG3	7	29.2874	21.9414	0.2304	0.38563	2.73693	0.8926	0.0033
F4	SULF	LAG4	8	11.7728	15.9517	0.4845	3.91665	2.17552	0.1148	0.3165
F4	SULF	LAG5	6	13.7987	16.9801	0.4534	1.67074	1.91137	0.4221	0.1326
F4	SULF	LAG6	10	53.6778	14.5468	0.005	-3.0413	1.9527	0.1538	0.2123
F4	TKNF	LAG0	4	-61.174	39.0159	0.2149	27.8529	11.5079	0.0941	0.6613
F4	TKNF	LAG1	9	67.9075	34.2338	0.0826	-12.513	12.2449	0.3367	0.1155
F4	TKNF	LAG2	6	137.986	48.6359	0.0364	-28.569	14.4647	0.1052	0.4383
F4	TKNF	LAG3	8	14.4573	30.6482	0.6515	5.37567	10.2449	0.616	0.0378
F4	TKNF	LAG4	8	-25.471	62.2503	0.6946	20.8619	20.6207	0.3454	0.1276
F4	TKNF	LAG5	6	71.768	43.7907	0.1622	-13.957	13.3674	0.3443	0.179
F4	TKNF	LAG6	10	98.4354	38.7121	0.0316	-22.408	13.2037	0.1239	0.2424
F4	TPF	LAG0	4	-34.472	11.1994	0.0542	6350.79	1026.22	0.0085	0.9274
F4	TPF	LAG1	9	44.262	15.1318	0.0191	-773.58	945.6	0.437	0.0772
F4	TPF	LAG2	6	51.9746	17.1498	0.0291	-656.39	1025.22	0.5502	0.0758
F4	TPF	LAG3	8	54.819	20.9281	0.0344	-2396	1873.74	0.2418	0.1894
F4	TPF	LAG4	8	17.401	13.8313	0.2487	1479.64	864.316	0.1306	0.2951
F4	TPF	LAG5	6	11.5621	23.9832	0.6501	1641.72	2419.14	0.5275	0.0843
F4	TPF	LAG6	10	38.5627	12.8805	0.0151	-411.23	882.792	0.6524	0.0235

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F5	CAF	LAG0	2	94.0183	2.92213	0.0198	-0.5529	0.02691	0.031	0.9976
F5	CAF	LAG1	4	-19.349	167.169	0.9152	0.65181	1.61944	0.7143	0.0512
F5	CAF	LAG2	3	185.276	94.6687	0.1895	-1.306	0.87558	0.2743	0.5266
F5	CAF	LAG3	3	141.439	257.975	0.6385	-0.9727	2.46774	0.7315	0.0721
F5	CAF	LAG4	5	-130.44	87.6918	0.2111	1.68983	0.86881	0.1237	0.4861
F5	CAF	LAG5	3	-33.739	80.5257	0.7159	0.74027	0.7563	0.4309	0.3239
F5	CAF	LAG6	5	295.718	78.0523	0.0193	-2.4065	0.74436	0.0319	0.7232
F5	CLF	LAG0	2	98.0564	1.58875	0.0103	-0.3241	0.00804	0.0158	0.9994
F5	CLF	LAG1	5	73.724	70.5626	0.3551	-0.1544	0.36823	0.6965	0.0421
F5	CLF	LAG2	3	229.229	85.7236	0.116	-0.9647	0.4466	0.1634	0.7
F5	CLF	LAG3	4	109.055	59.8154	0.1658	-0.3542	0.2953	0.3165	0.3241
F5	CLF	LAG4	5	57.8883	74.9844	0.4832	-0.1003	0.40748	0.8177	0.0149
F5	CLF	LAG5	3	146.41	110.595	0.3166	-0.4634	0.50051	0.4522	0.3001
F5	CLF	LAG6	6	115.837	48.3635	0.062	-0.3526	0.23519	0.1941	0.3102
F5	DOC	LAG0	2	77.9204	5.48755	0.0448	-0.8496	0.10583	0.0789	0.9847
F5	DOC	LAG1	5	-46.726	104.057	0.6767	1.71084	1.94104	0.4279	0.1626
F5	DOC	LAG2	3	134.675	68.5497	0.1884	-1.7214	1.29869	0.3162	0.4676
F5	DOC	LAG3	4	263.74	31.5311	0.0036	-4.1996	0.58501	0.0056	0.945
F5	DOC	LAG4	5	-51.013	59.4296	0.4391	1.81499	1.1806	0.199	0.3714
F5	DOC	LAG5	3	408.655	179.106	0.15	-6.3755	3.13292	0.1788	0.6743
F5	DOC	LAG6	6	266.739	21.8723	<.0001	-4.1689	0.40814	0.0002	0.9543
F5	FEF	LAG0	0	43			0			
F5	FEF	LAG1	4	42.0936	17.9917	0.1013	0.07024	0.15041	0.6724	0.0678
F5	FEF	LAG2	1	80.4606			-0.8661			1
F5	FEF	LAG3	2	14.1314	22.6231	0.6445	0.207	0.14854	0.3962	0.6601
F5	FEF	LAG4	4	38.7068	14.1313	0.0714	0.04106	0.12639	0.7666	0.034
F5	FEF	LAG5	1	35.418			-0.574			1
F5	FEF	LAG6	4	35.2334	14.4036	0.092	0.15013	0.12885	0.3282	0.3116
F5	KF	LAG0	2	-89.507	5.31253	0.0377	13.8809	0.59482	0.0273	0.9982
F5	KF	LAG1	5	32.9963	208.836	0.8821	1.2344	22.3392	0.9586	0.0008
F5	KF	LAG2	3	-380.74	79.5184	0.041	47.592	8.88652	0.0331	0.9348
F5	KF	LAG3	4	252.795	117.191	0.1199	-23.22	12.6527	0.1638	0.5289
F5	KF	LAG4	5	301.243	223.389	0.2488	-28.865	24.6257	0.3062	0.2557
F5	KF	LAG5	3	390.595	309.219	0.3338	-39.156	34.9624	0.3792	0.3854
F5	KF	LAG6	6	161.815	190.561	0.4346	-12.83	20.7809	0.564	0.0708
F5	MGF	LAG0	2	100.219	3.53842	0.0225	-1.7164	0.09174	0.034	0.9972
F5	MGF	LAG1	5	110.074	93.7945	0.3057	-1.7305	2.45922	0.5204	0.1101
F5	MGF	LAG2	3	268.646	61.1522	0.0481	-5.8944	1.60485	0.0668	0.8709
F5	MGF	LAG3	4	78.3011	90.9728	0.4527	-1.003	2.25938	0.6872	0.0616
F5	MGF	LAG4	5	-56.035	148.593	0.7253	2.60959	4.0475	0.5542	0.0941
F5	MGF	LAG5	3	-11.14	130.805	0.9399	1.40209	3.28552	0.7111	0.0835
F5	MGF	LAG6	6	138.27	83.8568	0.1601	-2.3631	2.09794	0.3111	0.2024
F5	NH3F	LAG0	2	38.4407	6.24837	0.1026	-12.263	12.8114	0.5139	0.4782
F5	NH3F	LAG1	5	66.1139	16.5789	0.0163	-39.205	25.1754	0.1944	0.3774
F5	NH3F	LAG2	2	78.5851	4.41966	0.0358	-59.049	7.66066	0.0821	0.9834
F5	NH3F	LAG3	4	46.2662	15.4598	0.058	-13.542	18.8672	0.5247	0.1466
F5	NH3F	LAG4	4	41.6977	16.8569	0.0898	-0.8711	21.6337	0.9704	0.0005
F5	NH3F	LAG5	3	63.5694	15.728	0.0561	-25.79	17.7609	0.2836	0.5132
F5	NH3F	LAG6	6	57.9965	14.0659	0.0091	-19.972	16.4696	0.2794	0.2273

F5	PH	LAG0	2	-178.48	145.57	0.4356	30.6544	20.9644	0.3819	0.6813
F5	PH	LAG1	4	188.043	611.711	0.7786	-19.933	88.8055	0.8368	0.0165
F5	PH	LAG2	3	-793.5	348.863	0.1508	120.849	50.2862	0.1382	0.7428
F5	PH	LAG3	4	1472.91	331.044	0.0211	-210.12	48.4793	0.0227	0.8623
F5	PH	LAG4	5	404.214	373.33	0.3398	-52.794	54.0389	0.3839	0.1926
F5	PH	LAG5	3	1529.6	903.659	0.2326	-216.85	131.94	0.242	0.5746
F5	PH	LAG6	6	-415.03	518.604	0.4599	67.3301	76.0066	0.4163	0.1357
F5	PO4F	LAG0	2	63.3435	20.8773	0.2027	-6006.9	4254.18	0.3923	0.666
F5	PO4F	LAG1	4	112.812	72.3147	0.2167	-9126.1	9491.3	0.4072	0.2356
F5	PO4F	LAG2	2	161.633	31.2974	0.1218	-22300	6177.65	0.172	0.9287
F5	PO4F	LAG3	3	74.7076	22.2171	0.0782	-6557.1	3163.8	0.174	0.6823
F5	PO4F	LAG4	3	48.7936	38.9037	0.3365	-1034.3	4561.15	0.8417	0.0251
F5	PO4F	LAG5	3	138.688	9.4763	0.0046	-15078	1491.36	0.0096	0.9808
F5	PO4F	LAG6	5	26.7688	24.1813	0.3304	1633.27	3001.24	0.6152	0.0689
F5	SO4F	LAG0	2	23.9338	0.87147	0.0232	0.30488	0.02194	0.0457	0.9948
F5	SO4F	LAG1	5	44.924	14.6618	0.0375	-0.012	0.26762	0.9665	0.0005
F5	SO4F	LAG2	3	26.6165	8.58033	0.0901	0.75878	0.26258	0.1018	0.8068
F5	SO4F	LAG3	4	24.1853	6.89007	0.0392	0.39067	0.11937	0.0467	0.7812
F5	SO4F	LAG4	5	43.4321	13.5937	0.0331	-0.0893	0.22562	0.7126	0.0377
F5	SO4F	LAG5	3	19.6077	22.0868	0.4683	1.49443	1.20571	0.3409	0.4344
F5	SO4F	LAG6	6	30.033	7.86022	0.0124	0.42108	0.15099	0.0385	0.6087
F5	SULF	LAG0	2	37.541	11.0608	0.1824	-0.7127	2.06207	0.7881	0.1067
F5	SULF	LAG1	4	56.5344	23.6363	0.0966	-3.3968	3.94423	0.4525	0.1982
F5	SULF	LAG2	3	101.335	32.7029	0.0903	-9.5331	5.32904	0.2155	0.6154
F5	SULF	LAG3	3	62.7051	13.6831	0.0445	-5.4465	3.30543	0.2412	0.5758
F5	SULF	LAG4	5	43.5268	19.075	0.0846	-0.7276	3.04102	0.8227	0.0141
F5	SULF	LAG5	3	66.1158	17.7736	0.0653	-3.6952	2.63774	0.2962	0.4953
F5	SULF	LAG6	6	63.2161	14.4312	0.0072	-3.1521	2.02086	0.1796	0.3273
F5	TKNF	LAG0	2	81.3189	27.4278	0.2071	-14.464	8.38395	0.3344	0.7485
F5	TKNF	LAG1	5	33.5916	51.2117	0.5477	3.12936	14.2957	0.8374	0.0118
F5	TKNF	LAG2	3	131.97	49.9197	0.1182	-22.586	12.7438	0.2184	0.611
F5	TKNF	LAG3	4	83.0445	43.65	0.1533	-12.348	11.7148	0.3693	0.2702
F5	TKNF	LAG4	5	24.7428	36.1237	0.531	4.06636	9.55071	0.6922	0.0434
F5	TKNF	LAG5	3	95.3854	63.7912	0.2735	-13.673	16.8824	0.503	0.247
F5	TKNF	LAG6	6	118.129	21.8123	0.0029	-19.392	5.56714	0.0176	0.7082
F5	TPF	LAG0	2	89.3829	31.8241	0.2178	-8695.7	5000.68	0.3322	0.7515
F5	TPF	LAG1	5	31.0584	30.1938	0.3618	1495.55	3115.63	0.6563	0.0545
F5	TPF	LAG2	3	52.1178	31.1105	0.2359	-856.26	3271.4	0.818	0.0331
F5	TPF	LAG3	4	70.653	37.1288	0.1532	-4324.1	4759.71	0.4306	0.2158
F5	TPF	LAG4	5	12.0744	17.8852	0.5366	3268.59	1934.71	0.1664	0.4164
F5	TPF	LAG5	3	122.744	106.151	0.367	-10799	14563.8	0.5356	0.2156
F5	TPF	LAG6	6	77.642	17.95	0.0075	-3794.9	1877.62	0.0992	0.4496

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
U3	CAF	LAG0	4	282.988	171.585	0.1977	-2.3271	1.93736	0.3159	0.3247
U3	CAF	LAG1	9	357.961	179.285	0.0809	-2.97	2.02656	0.1809	0.2117
U3	CAF	LAG2	6	786.151	258.855	0.0288	-7.7912	3.00893	0.0489	0.5728
U3	CAF	LAG3	8	67.9726	111.02	0.5597	0.10242	1.24519	0.9367	0.001
U3	CAF	LAG4	8	89.0817	233.283	0.7139	0.12667	2.67712	0.9636	0.0003
U3	CAF	LAG5	6	241.526	189.101	0.2576	-1.8822	2.16262	0.4239	0.1316
U3	CAF	LAG6	10	-170.32	186.089	0.3839	3.02559	2.10072	0.1837	0.1873
U3	CLF	LAG0	4	-41.893	238.559	0.8718	0.68335	1.35943	0.6498	0.0777
U3	CLF	LAG1	9	91.871	164.66	0.5921	0.02999	0.94451	0.9754	0.0001
U3	CLF	LAG2	6	346.542	270.326	0.2561	-1.3063	1.53579	0.4338	0.1264
U3	CLF	LAG3	8	100.467	91.0961	0.3065	-0.1305	0.5031	0.8028	0.0095
U3	CLF	LAG4	8	224.121	160.945	0.2064	-0.709	0.9083	0.4606	0.0801
U3	CLF	LAG5	6	151.663	263.976	0.5905	-0.4033	1.43041	0.7893	0.0156
U3	CLF	LAG6	10	390.194	125.233	0.0124	-1.6753	0.7073	0.042	0.384
U3	DOC	LAG0	4	63.1317	356.495	0.8707	0.33096	8.0913	0.9699	0.0006
U3	DOC	LAG1	9	25.8763	222.77	0.9104	1.62669	5.06306	0.7562	0.0127
U3	DOC	LAG2	6	821.334	453.262	0.1297	-15.557	10.0089	0.1808	0.3258
U3	DOC	LAG3	8	88.5186	129.996	0.5178	-0.2558	2.88669	0.9319	0.0011
U3	DOC	LAG4	8	100.565	269.922	0.7205	-0.0114	5.9258	0.9985	0
U3	DOC	LAG5	6	-124.66	217.219	0.5909	4.35763	4.67733	0.3943	0.1479
U3	DOC	LAG6	10	675.224	165.374	0.0027	-12.853	3.65824	0.0066	0.5783
U3	FEF	LAG0	2	121.34	33.7598	0.1728	-5.9224	3.48979	0.339	0.7423
U3	FEF	LAG1	7	118.657	32.7827	0.0111	-0.2663	0.27936	0.3773	0.1315
U3	FEF	LAG2	4	149.769	63.8046	0.1006	-0.6615	1.25729	0.6352	0.0845
U3	FEF	LAG3	5	78.8352	19.1254	0.0146	0.07679	0.14989	0.6354	0.0616
U3	FEF	LAG4	6	101.589	42.1831	0.061	0.02523	0.3363	0.9431	0.0011
U3	FEF	LAG5	3	107.75	48.4653	0.1562	-4.5031	5.96002	0.5288	0.222
U3	FEF	LAG6	8	68.9169	16.5758	0.0043	0.60197	0.14981	0.0051	0.6976
U3	KF	LAG0	4	-138.6	301.911	0.6774	27.6733	38.5657	0.5249	0.1465
U3	KF	LAG1	9	-690.34	430.259	0.1473	98.0977	53.5469	0.1043	0.2955
U3	KF	LAG2	6	-638.49	349.413	0.1272	94.4953	43.5605	0.0822	0.4848
U3	KF	LAG3	8	332.811	200.767	0.1413	-31.988	25.072	0.2427	0.1887
U3	KF	LAG4	8	1003.43	434.968	0.0544	-110.73	53.2554	0.0762	0.3818
U3	KF	LAG5	6	64.4367	228.158	0.7889	1.64707	29.0486	0.957	0.0006
U3	KF	LAG6	9	456.438	649.069	0.5019	-45.71	81.4494	0.59	0.0379
U3	MGF	LAG0	4	239.658	222.844	0.361	-4.8132	6.60307	0.5188	0.1505
U3	MGF	LAG1	9	383.974	179.116	0.0644	-8.5856	5.32363	0.1455	0.2453
U3	MGF	LAG2	6	574.477	323.968	0.1364	-13.616	9.63069	0.2165	0.2856
U3	MGF	LAG3	8	-41.001	121.428	0.7455	3.45231	3.5352	0.3613	0.1199
U3	MGF	LAG4	8	282.392	254.461	0.3038	-5.3903	7.48472	0.4948	0.069
U3	MGF	LAG5	6	343.55	238.323	0.209	-7.6889	6.87402	0.3142	0.2001
U3	MGF	LAG6	10	-216.63	217.361	0.345	9.11833	6.30948	0.1823	0.1884
U3	NH3F	LAG0	3	79.5289	54.6107	0.2826	0.68871	29.0407	0.9832	0.0003
U3	NH3F	LAG1	7	177.689	59.0538	0.0237	-44.067	31.9968	0.2176	0.2402
U3	NH3F	LAG2	6	274.695	41.7531	0.0012	-79.225	19.6787	0.0101	0.7642
U3	NH3F	LAG3	7	56.8484	29.7393	0.1045	14.2901	15.9389	0.4045	0.1181
U3	NH3F	LAG4	8	99.5217	61.8694	0.1517	0.30948	32.8729	0.9928	0
U3	NH3F	LAG5	5	214.71	52.9985	0.0155	-66.291	25.8044	0.062	0.6226
U3	NH3F	LAG6	9	230.174	48.8173	0.0015	-74.07	25.1397	0.0185	0.5204

U3	PH	LAG0	4	1070.96	1620.6	0.5559	-144.14	235.162	0.5833	0.1113
U3	PH	LAG1	8	-1485.6	1232.81	0.2673	231.06	179.243	0.2383	0.1918
U3	PH	LAG2	6	-2083.4	4469.07	0.6607	318.772	647.14	0.6432	0.0463
U3	PH	LAG3	8	717.536	608.183	0.2766	-93.441	88.7128	0.3272	0.1368
U3	PH	LAG4	8	-97.667	1512.3	0.9503	28.7773	220.08	0.8996	0.0024
U3	PH	LAG5	6	-626.51	985.659	0.553	102.094	142.954	0.5071	0.0926
U3	PH	LAG6	10	3113.29	806.65	0.0038	-439.74	117.556	0.0046	0.6086
U3	PO4F	LAG0	2	45.9594	48.919	0.5199	4179.09	4034.77	0.4888	0.5176
U3	PO4F	LAG1	3	164.714	57.3277	0.1028	-7713.7	4727.31	0.2443	0.571
U3	PO4F	LAG2	5	198.698	61.5234	0.032	-7911.1	5595.93	0.2303	0.3332
U3	PO4F	LAG3	3	91.4859	43.1194	0.1679	-790.66	3159.54	0.8258	0.0304
U3	PO4F	LAG4	6	45.1614	33.6114	0.2368	3343.67	3266.28	0.3529	0.1733
U3	PO4F	LAG5	3	110.948	48.8686	0.1512	-3159.8	4277.84	0.537	0.2143
U3	PO4F	LAG6	5	110.444	45.7308	0.0732	-3436.9	4133.92	0.4525	0.1473
U3	SO4F	LAG0	4	75.8371	26.9768	0.0672	0.10334	1.09632	0.9308	0.003
U3	SO4F	LAG1	9	105.74	26.0318	0.0036	-0.2542	0.35167	0.4904	0.0613
U3	SO4F	LAG2	6	35.0752	28.9231	0.2794	4.03389	1.14986	0.0171	0.7111
U3	SO4F	LAG3	8	71.2846	13.0335	0.0009	0.15867	0.16775	0.3757	0.1133
U3	SO4F	LAG4	8	103.101	30.9009	0.0125	-0.0725	0.38723	0.8568	0.005
U3	SO4F	LAG5	6	97.2027	28.8008	0.0198	-1.6575	2.13106	0.4719	0.1079
U3	SO4F	LAG6	10	66.9602	11.5951	0.0003	0.89668	0.16358	0.0004	0.7695
U3	SULF	LAG0	4	24.8584	58.1616	0.6979	6.9796	7.37918	0.414	0.2297
U3	SULF	LAG1	8	29.6163	22.5176	0.2299	8.55498	3.70535	0.0543	0.4323
U3	SULF	LAG2	6	204.841	77.5992	0.046	-14.658	12.2473	0.285	0.2227
U3	SULF	LAG3	7	89.2028	31.4349	0.0297	-1.133	4.25284	0.7988	0.0117
U3	SULF	LAG4	8	107.101	58.7854	0.1113	-1.3606	10.1446	0.8971	0.0026
U3	SULF	LAG5	6	114.243	68.2548	0.155	-4.7518	8.61172	0.6049	0.0574
U3	SULF	LAG6	10	173.033	45.5974	0.0043	-12.856	6.99417	0.0992	0.2729
U3	TKNF	LAG0	4	71.598	78.5572	0.4293	1.26999	15.909	0.9414	0.0021
U3	TKNF	LAG1	9	168.275	95.1034	0.1148	-16.682	21.6122	0.4624	0.0693
U3	TKNF	LAG2	6	472.247	84.7596	0.0026	-77.991	18.3836	0.0082	0.7826
U3	TKNF	LAG3	8	98.1141	48.1904	0.0812	-4.7575	10.5373	0.6653	0.0283
U3	TKNF	LAG4	8	63.0141	126.654	0.6341	8.90022	29.7816	0.7737	0.0126
U3	TKNF	LAG5	6	191.167	74.7761	0.0509	-23.399	15.1855	0.184	0.322
U3	TKNF	LAG6	10	264.881	82.764	0.0108	-38.605	18.5136	0.0667	0.3257
U3	TPF	LAG0	3	6.19702	16.6657	0.7457	4589.7	997.975	0.0442	0.9136
U3	TPF	LAG1	9	145.159	64.5008	0.0545	-4835.7	6059.01	0.4479	0.0737
U3	TPF	LAG2	5	115.807	22.3689	0.0066	-1963	1557.73	0.2761	0.2842
U3	TPF	LAG3	8	84.5961	23.957	0.0096	-650	1779.75	0.7257	0.0187
U3	TPF	LAG4	7	134.875	82.7169	0.1541	-2613.8	7396.57	0.7359	0.0204
U3	TPF	LAG5	6	81.8317	28.0101	0.033	-362.79	1959.9	0.8604	0.0068
U3	TPF	LAG6	10	176.183	46.8886	0.0045	-8141.4	4399.42	0.0973	0.2756

PORE WATER LAG 0 – LAG 6
 LOG MOSQUITOFISH THg vs Y
 BY STATION

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F1	LCAF	LAG0	5	991.319	270.798	0.0216	-175.66	48.7197	0.0226	0.7647
F1	LCAF	LAG1	8	-59.25	401.038	0.8867	13.8078	72.6021	0.8546	0.0051
F1	LCAF	LAG2	7	504.562	440.092	0.2952	-87.457	79.3373	0.3126	0.1684
F1	LCAF	LAG3	7	-357.18	389.125	0.3941	66.539	70.1054	0.3792	0.1305
F1	LCAF	LAG4	8	302.237	284.731	0.3237	-52.488	51.4247	0.3414	0.1295
F1	LCAF	LAG5	6	49.7393	79.0303	0.5567	-7.7513	14.2449	0.6097	0.0559
F1	LCAF	LAG6	9	356.629	411.108	0.4109	-61.295	74.0443	0.4318	0.0789
F1	LCLF	LAG0	5	358.644	398.485	0.419	-55.733	64.6246	0.4371	0.1568
F1	LCLF	LAG1	9	286.174	318.905	0.3957	-43.837	51.6745	0.4209	0.0825
F1	LCLF	LAG2	7	647.787	338.563	0.1042	-101.85	54.8743	0.1128	0.3648
F1	LCLF	LAG3	8	-131.16	286.5	0.661	22.9777	46.189	0.6341	0.0341
F1	LCLF	LAG4	9	-210.33	301.914	0.5058	36.7365	48.9274	0.4743	0.0658
F1	LCLF	LAG5	7	44.6079	53.0962	0.433	-6.1548	8.57235	0.4998	0.0791
F1	LCLF	LAG6	9	144.779	434.07	0.7473	-20.857	70.4897	0.7748	0.0108
F1	LDOC	LAG0	5	328.73	436.292	0.4931	-65.323	90.8422	0.5119	0.1145
F1	LDOC	LAG1	8	-39.765	235.966	0.8709	11.884	49.4563	0.817	0.0082
F1	LDOC	LAG2	6	278.587	112.071	0.0554	-52.87	22.9282	0.0693	0.5154
F1	LDOC	LAG3	8	-29.46	206.223	0.8904	8.53424	43.1193	0.8487	0.0056
F1	LDOC	LAG4	8	24.1353	134.243	0.8624	-2.478	27.3921	0.9305	0.0012
F1	LDOC	LAG5	7	-12.566	16.5646	0.4768	3.90388	3.38775	0.293	0.1812
F1	LDOC	LAG6	8	63.5942	253.963	0.8095	-9.5718	53.0543	0.8619	0.0046
F1	LFEF	LAG0	3	-40.363	38.5187	0.4047	23.1452	14.1817	0.2443	0.5711
F1	LFEF	LAG1	6	-32.366	29.4115	0.3213	16.8311	10.6974	0.1764	0.3312
F1	LFEF	LAG2	3	-32.101	47.0586	0.5655	24.1236	20.8957	0.3676	0.3999
F1	LFEF	LAG3	5	11.5636	2.36135	0.0081	-2.2829	0.87721	0.0599	0.6287
F1	LFEF	LAG4	5	-5.4812	40.3745	0.8986	8.14633	15.8637	0.6346	0.0618
F1	LFEF	LAG5	3	4.19484	3.25852	0.3268	0.48803	1.42953	0.7653	0.0551
F1	LFEF	LAG6	7	-59.156	24.7744	0.0542	32.7923	10.2141	0.0184	0.6321
F1	LKF	LAG0	5	17.8611	25.4195	0.521	-2.1021	17.7101	0.9112	0.0035
F1	LKF	LAG1	8	30.5148	12.3325	0.0426	-12.688	9.36264	0.2175	0.2078
F1	LKF	LAG2	7	29.2813	18.9904	0.174	-7.8223	13.5757	0.5854	0.0524
F1	LKF	LAG3	7	7.12866	13.2012	0.6086	3.70261	8.67227	0.6843	0.0295
F1	LKF	LAG4	8	22.3989	18.7369	0.2708	-4.4899	14.1561	0.7604	0.0142
F1	LKF	LAG5	7	10.6142	2.72701	0.0081	-2.7385	1.7198	0.1624	0.2971
F1	LKF	LAG6	7	45.4335	46.5756	0.367	-16.618	29.1418	0.5892	0.0514
F1	LMGF	LAG0	5	1035.35	195.979	0.0062	-233.11	44.7696	0.0065	0.8714
F1	LMGF	LAG1	9	18.3589	295.674	0.952	-0.6092	67.8245	0.9931	0
F1	LMGF	LAG2	7	612.18	586.369	0.3367	-135.69	134.235	0.3511	0.1455
F1	LMGF	LAG3	8	-135.53	291.646	0.6563	33.3966	66.3038	0.6299	0.035
F1	LMGF	LAG4	9	-70.338	326.883	0.835	19.8127	74.732	0.7976	0.0087
F1	LMGF	LAG5	7	21.5609	62.6287	0.7424	-3.4253	14.2345	0.8178	0.0096
F1	LMGF	LAG6	9	190.736	358.617	0.6093	-40.009	82.2641	0.6398	0.0287
F1	LNH3F	LAG0	5	15.0435	9.83535	0.2009	-0.1294	8.74745	0.9889	0.0001
F1	LNH3F	LAG1	8	13.4437	7.20575	0.1043	-9.3637	5.85109	0.1536	0.2679
F1	LNH3F	LAG2	7	14.8729	7.93629	0.1101	-10.461	6.62872	0.1656	0.2933
F1	LNH3F	LAG3	7	12.175	7.13684	0.1389	-0.8005	5.5542	0.8901	0.0035

F1	LNH3F	LAG4	8	11.3875	5.81606	0.0911	-2.2129	4.83459	0.661	0.0291
F1	LNH3F	LAG5	6	7.22403	0.96858	0.0007	-1.3466	0.80229	0.1541	0.3604
F1	LNH3F	LAG6	9	18.049	8.27049	0.0606	-2.8327	7.15763	0.7026	0.0192
F1	LPH	LAG0	5	-1316.2	499.691	0.0579	689.818	258.914	0.0561	0.6396
F1	LPH	LAG1	8	865.22	728.484	0.2737	-437.03	375.351	0.2824	0.1622
F1	LPH	LAG2	7	-535.93	962.93	0.598	287.829	498.974	0.585	0.0525
F1	LPH	LAG3	8	311.279	750.535	0.6907	-154.41	386.358	0.7013	0.0223
F1	LPH	LAG4	9	-62.027	436.697	0.8906	40.6774	226.748	0.8621	0.004
F1	LPH	LAG5	7	121.47	120.47	0.3522	-59.587	62.4309	0.3767	0.1318
F1	LPH	LAG6	9	-378.68	422.366	0.3961	204.241	218.344	0.3769	0.0986
F1	LPO4F	LAG0	4	-17.705	59.244	0.7846	-15.798	26.6926	0.5956	0.1046
F1	LPO4F	LAG1	8	26.2582	30.7279	0.4211	3.91065	11.7074	0.7481	0.0157
F1	LPO4F	LAG2	7	-38.03	13.8351	0.0333	-27.68	6.32844	0.0047	0.7613
F1	LPO4F	LAG3	7	19.0536	21.8854	0.4174	2.78068	8.47906	0.7541	0.0176
F1	LPO4F	LAG4	9	-12.435	16.8901	0.4826	-13.869	7.61522	0.1061	0.2931
F1	LPO4F	LAG5	6	8.2098	2.27973	0.0155	0.79903	1.02749	0.4719	0.1079
F1	LPO4F	LAG6	8	0.97108	14.7959	0.9495	-5.8269	7.41295	0.4576	0.0811
F1	LSO4F	LAG0	5	-22.38	18.2031	0.2863	12.4055	5.6321	0.0924	0.5481
F1	LSO4F	LAG1	9	-3.7729	18.3935	0.8426	7.14156	6.27849	0.2883	0.1392
F1	LSO4F	LAG2	7	-15.675	23.2994	0.5261	13.1917	8.28953	0.1626	0.2968
F1	LSO4F	LAG3	8	14.6709	15.8414	0.3852	-1.2948	5.65443	0.8254	0.0074
F1	LSO4F	LAG4	9	13.4336	18.1407	0.4801	1.07962	6.27185	0.8676	0.0037
F1	LSO4F	LAG5	7	2.42476	2.53158	0.3751	1.76854	1.03843	0.1394	0.3259
F1	LSO4F	LAG6	9	-6.2703	13.5392	0.6556	10.1256	5.43737	0.0996	0.3024
F1	LSULF	LAG0	5	-22.407	54.7821	0.7035	20.7026	29.8379	0.526	0.1074
F1	LSULF	LAG1	9	43.6308	29.0189	0.1711	-16.771	16.9363	0.3511	0.1092
F1	LSULF	LAG2	7	60.1222	34.2921	0.1301	-25.795	21.2002	0.2694	0.1979
F1	LSULF	LAG3	8	15.8618	35.5056	0.6686	-2.4877	19.2169	0.9006	0.0024
F1	LSULF	LAG4	9	-20.513	33.2575	0.5545	21.3095	18.8609	0.2913	0.1376
F1	LSULF	LAG5	7	8.84274	5.49672	0.1588	-1.2782	2.93847	0.6788	0.0306
F1	LSULF	LAG6	9	-39.52	25.8864	0.1654	33.367	15.0877	0.0579	0.3794
F1	LTKNF	LAG0	5	78.0376	115.669	0.5369	-30.74	56.2837	0.614	0.0694
F1	LTKNF	LAG1	9	77.6273	94.6766	0.436	-30.936	47.167	0.5303	0.051
F1	LTKNF	LAG2	7	151.306	74.6091	0.0889	-65.79	37.0732	0.1263	0.3442
F1	LTKNF	LAG3	8	18.6393	70.2428	0.7984	-3.507	33.6027	0.9198	0.0016
F1	LTKNF	LAG4	9	42.3705	72.1217	0.5731	-12.609	34.7181	0.7259	0.0162
F1	LTKNF	LAG5	7	15.879	8.05205	0.0961	-4.4311	3.776	0.2851	0.1867
F1	LTKNF	LAG6	9	61.5268	63.0024	0.3574	-20.738	28.7507	0.4913	0.0611
F1	LTPF	LAG0	5	0.86554	41.811	0.9845	-7.161	20.5239	0.7447	0.0295
F1	LTPF	LAG1	9	32.16	27.6293	0.278	7.36471	11.9528	0.5549	0.0453
F1	LTPF	LAG2	7	-32.524	12.2943	0.0383	-26.905	5.97646	0.0041	0.7716
F1	LTPF	LAG3	8	13.5794	22.4838	0.5649	1.01972	9.82123	0.9202	0.0015
F1	LTPF	LAG4	9	-9.1775	19.0132	0.6422	-13.874	9.74852	0.1925	0.202
F1	LTPF	LAG5	7	8.5589	2.09746	0.0065	1.19176	1.08326	0.3134	0.1679
F1	LTPF	LAG6	8	6.63457	22.8187	0.7797	-5.8856	11.4906	0.6243	0.0361

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F2	LCAF	LAG0	3	892.501	704.225	0.3326	-163.03	132.372	0.3433	0.4313
F2	LCAF	LAG1	5	-706.54	996.795	0.5176	138.834	187.736	0.5006	0.1203
F2	LCAF	LAG2	5	-665.97	914.732	0.5069	129.887	171.018	0.4899	0.126
F2	LCAF	LAG3	3	569.973	1186.7	0.6784	-102.49	224.222	0.6924	0.0946
F2	LCAF	LAG4	6	303.527	686.635	0.6769	-53.901	129.485	0.6945	0.0335
F2	LCAF	LAG5	5	-185.36	541.796	0.7495	38.7373	101.298	0.7216	0.0353
F2	LCAF	LAG6	6	-88.896	707.741	0.9049	22.1308	133.803	0.8751	0.0054
F2	LCLF	LAG0	3	1932.71	1606.54	0.3521	-326.09	274.655	0.357	0.4134
F2	LCLF	LAG1	6	499.647	670.356	0.4896	-79.987	113.463	0.5123	0.0904
F2	LCLF	LAG2	5	-763.4	1428.78	0.6214	134.77	243.091	0.6088	0.0714
F2	LCLF	LAG3	4	369.953	910.35	0.7117	-58.316	153.165	0.7288	0.0461
F2	LCLF	LAG4	7	-347.99	663.018	0.6185	63.2439	112.363	0.5939	0.0502
F2	LCLF	LAG5	6	136.535	761.274	0.8647	-19.852	128.43	0.8832	0.0048
F2	LCLF	LAG6	6	249.402	1020.22	0.8166	-37.595	173.335	0.8369	0.0093
F2	LDOC	LAG0	3	183.982	610.799	0.7917	-34.598	133.171	0.8193	0.0326
F2	LDOC	LAG1	5	-709.86	498.996	0.2279	161.077	108.967	0.2134	0.3533
F2	LDOC	LAG2	4	-133.56	544.186	0.822	36.3289	119.195	0.7805	0.03
F2	LDOC	LAG3	4	653.419	695.58	0.4168	-140.01	154.543	0.4318	0.2148
F2	LDOC	LAG4	6	129.842	470.009	0.7934	-24.253	102.696	0.8227	0.011
F2	LDOC	LAG5	6	151.779	415.778	0.73	-28.953	90.5414	0.7621	0.02
F2	LDOC	LAG6	6	-389.99	632.933	0.5648	92.4877	139.974	0.538	0.0803
F2	LFEF	LAG0	1	-44.376			26.8749			1
F2	LFEF	LAG1	4	55.8312	37.5539	0.2338	-11.939	12.1935	0.3997	0.2422
F2	LFEF	LAG2	3	-28.856	63.7235	0.695	27.9358	24.4844	0.3721	0.3943
F2	LFEF	LAG3	2	-12.307	31.6969	0.7642	6.66133	8.71666	0.5846	0.3687
F2	LFEF	LAG4	3	34.5994	52.0427	0.5746	-4.3925	17.8885	0.8289	0.0293
F2	LFEF	LAG5	4	42.9165	62.9813	0.5445	-7.5755	24.3394	0.776	0.0313
F2	LFEF	LAG6	4	-2.6726	54.9525	0.9643	12.1164	17.6398	0.5415	0.1359
F2	LKF	LAG0	3	8.11734	44.4124	0.8718	10.8684	24.9016	0.7051	0.087
F2	LKF	LAG1	6	42.6272	43.5627	0.3728	-8.9132	23.92	0.7247	0.027
F2	LKF	LAG2	5	57.0579	35.1031	0.1794	-17.243	19.4367	0.4251	0.1644
F2	LKF	LAG3	4	-106.46	210.382	0.6477	65.8839	106.457	0.5798	0.1132
F2	LKF	LAG4	7	-22.712	43.3706	0.6193	26.8305	23.5891	0.2987	0.1774
F2	LKF	LAG5	5	25.7584	32.509	0.4725	-3.2168	19.5408	0.8772	0.0067
F2	LKF	LAG6	6	-33.36	67.4938	0.6421	34.4076	37.1495	0.3969	0.1464
F2	LMGF	LAG0	3	658.838	506.118	0.3228	-150.6	120.271	0.3371	0.4395
F2	LMGF	LAG1	6	-68.225	725.058	0.9287	22.6728	172.322	0.9005	0.0035
F2	LMGF	LAG2	5	-994.63	611.382	0.1791	241.176	144.065	0.1694	0.412
F2	LMGF	LAG3	4	492.78	762.693	0.5642	-111.98	181.925	0.5817	0.1121
F2	LMGF	LAG4	7	-459.68	603.886	0.4754	115.722	144.119	0.4526	0.097
F2	LMGF	LAG5	6	-77.722	396.347	0.8523	22.8391	93.6781	0.8171	0.0117
F2	LMGF	LAG6	6	524.097	677.308	0.474	-119.13	162.666	0.4968	0.0969
F2	LNH3F	LAG0	3	38.2401	95.3171	0.7271	7.13148	51.5879	0.9027	0.0095
F2	LNH3F	LAG1	6	32.7243	18.362	0.1348	5.32094	12.2662	0.6825	0.0363
F2	LNH3F	LAG2	5	60.1564	38.2403	0.1908	17.6476	19.8494	0.4242	0.165
F2	LNH3F	LAG3	4	55.2217	59.3875	0.421	19.3688	34.9146	0.6177	0.093
F2	LNH3F	LAG4	7	22.0781	17.9612	0.265	-2.215	9.93958	0.831	0.0082
F2	LNH3F	LAG5	6	-25.986	28.7663	0.4077	-22.948	13.9887	0.1618	0.3499
F2	LNH3F	LAG6	6	10.7396	26.1093	0.6979	-11.087	14.6423	0.4831	0.1029

F2	LPH	LAG0	3	-3475.2	204.084	0.0034	1808.94	105.456	0.0034	0.9932
F2	LPH	LAG1	4	1911.89	1479.68	0.2869	-973	762.339	0.2917	0.3519
F2	LPH	LAG2	5	-2181.4	2218.89	0.3812	1141.71	1146.23	0.3756	0.1987
F2	LPH	LAG3	4	1169.98	1819.24	0.5659	-590.27	936.517	0.5733	0.1169
F2	LPH	LAG4	6	697.433	1613.15	0.6835	-346.25	834.527	0.6954	0.0333
F2	LPH	LAG5	6	-1944.7	1559.88	0.2677	1014.05	805.539	0.2637	0.2407
F2	LPH	LAG6	6	-1334.9	1287.96	0.3475	703.327	664.564	0.3383	0.183
F2	LPO4F	LAG0	3	-112.07	235.651	0.6813	-52.782	90.1787	0.6176	0.1462
F2	LPO4F	LAG1	5	70.9083	52.6752	0.2495	17.9462	22.5139	0.47	0.1371
F2	LPO4F	LAG2	4	80.2355	125.619	0.5684	20.1615	53.0416	0.7292	0.0459
F2	LPO4F	LAG3	3	62.4672	71.307	0.4734	11.5379	22.6643	0.6613	0.1147
F2	LPO4F	LAG4	5	36.6652	41.3441	0.4253	7.40144	17.2174	0.6894	0.0442
F2	LPO4F	LAG5	4	21.6504	15.1022	0.2471	3.63407	4.84996	0.5081	0.1576
F2	LPO4F	LAG6	5	-50.509	42.4558	0.3	-28.422	14.0855	0.1138	0.5044
F2	LSO4F	LAG0	3	-60.793	21.5627	0.1061	25.2627	6.00549	0.0521	0.8985
F2	LSO4F	LAG1	6	40.3428	35.9826	0.3132	-4.8941	12.4283	0.71	0.0301
F2	LSO4F	LAG2	5	28.0694	86.0876	0.7607	0.22165	31.4069	0.9947	0
F2	LSO4F	LAG3	4	27.2983	43.3403	0.5735	-1.2982	13.3971	0.9289	0.0031
F2	LSO4F	LAG4	7	46.052	32.7698	0.2095	-7.5391	11.1005	0.5224	0.0714
F2	LSO4F	LAG5	6	-17.088	51.3737	0.7529	13.1433	18.3771	0.5065	0.0928
F2	LSO4F	LAG6	6	-29.146	28.7574	0.3573	19.2328	9.11117	0.0885	0.4712
F2	LSULF	LAG0	3	107.87	82.291	0.3202	-48.476	47.3091	0.4133	0.3443
F2	LSULF	LAG1	6	69.1165	64.2413	0.3311	-21.644	32.4716	0.5346	0.0816
F2	LSULF	LAG2	5	-104.1	93.8024	0.3293	69.1536	48.4003	0.2263	0.3379
F2	LSULF	LAG3	4	32.1923	60.9743	0.6341	-4.9569	33.158	0.8906	0.0074
F2	LSULF	LAG4	7	-45.249	50.0951	0.4012	36.3886	25.3734	0.2015	0.2553
F2	LSULF	LAG5	6	35.9483	47.2678	0.4812	-8.7459	23.5527	0.7256	0.0268
F2	LSULF	LAG6	6	154.11	27.5671	0.0025	-70.818	15.1691	0.0055	0.8134
F2	LTKNF	LAG0	3	108.016	272.702	0.7303	-46.046	151.533	0.7899	0.0441
F2	LTKNF	LAG1	6	-74.491	110.787	0.5312	54.7007	59.2461	0.3982	0.1457
F2	LTKNF	LAG2	5	-68.9	189.791	0.735	55.2096	107.047	0.6332	0.0624
F2	LTKNF	LAG3	4	81.7456	285.536	0.7933	-33.187	162.159	0.8509	0.0138
F2	LTKNF	LAG4	7	12.8012	110.131	0.9113	6.6445	58.9872	0.914	0.0021
F2	LTKNF	LAG5	6	91.5219	101.781	0.4098	-41.868	58.3394	0.5051	0.0934
F2	LTKNF	LAG6	6	-52.913	230.248	0.8273	46.7369	132.551	0.7388	0.0243
F2	LTPF	LAG0	3	10.6102	219.542	0.9658	-6.1563	91.0394	0.9522	0.0023
F2	LTPF	LAG1	6	68.958	45.8483	0.1929	18.1578	19.1836	0.3873	0.152
F2	LTPF	LAG2	5	72.4479	48.4218	0.2089	17.3299	18.3166	0.3977	0.1829
F2	LTPF	LAG3	4	70.9988	84.9314	0.4645	17.3968	30.5311	0.6087	0.0977
F2	LTPF	LAG4	7	20.3562	37.3863	0.6057	-1.8589	13.8166	0.8974	0.003
F2	LTPF	LAG5	6	-42.225	39.306	0.3318	-20.906	13.0917	0.1712	0.3378
F2	LTPF	LAG6	6	29.0072	57.7847	0.637	0.31149	20.2831	0.9883	0

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F3	LCAF	LAG0	3	1466.01	1785.28	0.4979	-301.11	373.661	0.5049	0.2451
F3	LCAF	LAG1	5	100.065	608.721	0.8774	-14.686	128.562	0.9146	0.0033
F3	LCAF	LAG2	5	-2527.9	1668.05	0.2042	532.918	347.633	0.2001	0.3701
F3	LCAF	LAG3	4	34.979	566.722	0.9547	-2.0682	118.743	0.9872	0.0001
F3	LCAF	LAG4	6	-1247	1086.61	0.3031	265.837	227.272	0.2948	0.2148
F3	LCAF	LAG5	4	-12.042	431.213	0.9795	8.67685	90.1748	0.9294	0.0031
F3	LCAF	LAG6	7	-322.17	604.033	0.6129	73.1548	126.238	0.5833	0.053
F3	LCLF	LAG0	3	2243.21	824.55	0.1127	-412.18	153.377	0.1151	0.7831
F3	LCLF	LAG1	6	-162.97	876.601	0.8598	35.9488	164.19	0.8353	0.0095
F3	LCLF	LAG2	5	1389.32	1799.19	0.4831	-253.28	335.028	0.4917	0.125
F3	LCLF	LAG3	5	-649.91	835.478	0.4801	125.59	155.822	0.4654	0.1397
F3	LCLF	LAG4	7	-714.11	1001.02	0.5024	138.32	186.614	0.4866	0.0839
F3	LCLF	LAG5	5	775.066	530.432	0.2178	-138.81	98.1753	0.2303	0.3332
F3	LCLF	LAG6	7	-948.05	1079.46	0.4136	182.43	201.788	0.4008	0.1199
F3	LDOC	LAG0	3	247.152	805.749	0.788	-55.181	202.288	0.8106	0.0359
F3	LDOC	LAG1	5	421.695	896.282	0.6625	-99.162	225.442	0.6828	0.0461
F3	LDOC	LAG2	4	-16.077	916.568	0.9871	11.7766	229.214	0.9623	0.0009
F3	LDOC	LAG3	5	-340.71	737.853	0.6682	90.7597	183.886	0.6475	0.0574
F3	LDOC	LAG4	6	174.666	644.947	0.7974	-38.043	161.713	0.8233	0.0109
F3	LDOC	LAG5	5	215.961	440.736	0.6498	-47.372	109.388	0.6873	0.0448
F3	LDOC	LAG6	6	-99.826	718.959	0.895	32.5477	179.687	0.8634	0.0065
F3	LFEF	LAG0	2	-19.893	14.2395	0.3955	15.313	4.05122	0.1647	0.9346
F3	LFEF	LAG1	4	41.0955	55.264	0.511	-4.4016	15.3549	0.793	0.0267
F3	LFEF	LAG2	4	79.494	63.3546	0.2984	-14.914	20.6121	0.5216	0.1486
F3	LFEF	LAG3	4	9.70468	47.383	0.8508	4.59595	13.7709	0.7605	0.0358
F3	LFEF	LAG4	4	-12.764	41.4945	0.7785	10.4719	12.0414	0.4485	0.2013
F3	LFEF	LAG5	3	-10.799	45.1454	0.8332	16.5228	17.137	0.4367	0.3173
F3	LFEF	LAG6	6	8.26227	28.4188	0.7829	6.96505	8.80386	0.4647	0.1113
F3	LKF	LAG0	3	70.2247	173.538	0.7249	-20.298	82.0388	0.8277	0.0297
F3	LKF	LAG1	6	-50.395	135.248	0.7247	38.8201	66.0194	0.5821	0.0647
F3	LKF	LAG2	5	-277.5	143.883	0.126	143.041	67.0217	0.0997	0.5324
F3	LKF	LAG3	5	308.377	384.58	0.4676	-134.43	181.396	0.4998	0.1207
F3	LKF	LAG4	7	92.5092	171.344	0.6087	-30.394	80.4312	0.7185	0.0232
F3	LKF	LAG5	4	-35.843	268.791	0.9024	29.4563	127.381	0.832	0.0175
F3	LKF	LAG6	7	366.195	348.558	0.3339	-158.16	162.883	0.3691	0.1358
F3	LMGF	LAG0	3	1376.14	594.134	0.1465	-365.11	160.825	0.1512	0.7204
F3	LMGF	LAG1	6	-42.257	378.503	0.9154	19.635	104.338	0.8581	0.007
F3	LMGF	LAG2	5	-4012.5	481.373	0.0011	1087.39	129.51	0.0011	0.9463
F3	LMGF	LAG3	5	-56.195	345.176	0.8786	21.7152	94.092	0.8288	0.0131
F3	LMGF	LAG4	7	594.225	549.623	0.3212	-154.03	149.451	0.3425	0.1504
F3	LMGF	LAG5	5	-193.71	291.687	0.543	59.5857	79.3946	0.4947	0.1234
F3	LMGF	LAG6	7	-157.49	504.969	0.7657	50.1465	136.62	0.7262	0.022
F3	LNH3F	LAG0	3	23.5206	30.3747	0.5197	-1.4725	10.7637	0.9037	0.0093
F3	LNH3F	LAG1	5	9.94193	33.2817	0.78	-8.634	13.212	0.5491	0.0965
F3	LNH3F	LAG2	5	17.4904	20.4117	0.4398	-6.2007	9.37735	0.5446	0.0985
F3	LNH3F	LAG3	4	29.8033	21.0114	0.2511	2.63993	10.146	0.8116	0.0221
F3	LNH3F	LAG4	6	23.9446	14.6388	0.1628	-0.0029	6.5391	0.9997	0
F3	LNH3F	LAG5	4	32.5028	16.3426	0.1408	2.33749	10.6313	0.8401	0.0159
F3	LNH3F	LAG6	7	16.1326	11.3242	0.2041	-11.515	8.62094	0.2301	0.2292

F3	LPH	LAG0	3	-1011.2	972.516	0.4076	541.708	507.206	0.3973	0.3632
F3	LPH	LAG1	5	1273.14	1049.75	0.2919	-645.55	546.04	0.3026	0.2589
F3	LPH	LAG2	5	-1747.6	643.792	0.0533	924.667	335.028	0.0509	0.6557
F3	LPH	LAG3	5	1888.55	925.248	0.1108	-967.66	480.028	0.114	0.5039
F3	LPH	LAG4	7	950.054	1012.74	0.3844	-480.68	527.849	0.3976	0.1214
F3	LPH	LAG5	5	-622.54	790.835	0.4752	335.679	409.865	0.4588	0.1436
F3	LPH	LAG6	7	-9.6502	1068.78	0.9931	19.4428	554.392	0.9732	0.0002
F3	LPO4F	LAG0	3	35.3727	84.8664	0.7173	1.643	17.2838	0.9329	0.0045
F3	LPO4F	LAG1	5	-100.88	104.707	0.3899	-27.342	21.6952	0.2761	0.2842
F3	LPO4F	LAG2	4	15.8039	91.3074	0.8736	-3.305	19.4839	0.8761	0.0095
F3	LPO4F	LAG3	4	75.3016	89.6102	0.4624	11.3142	20.0644	0.6122	0.0958
F3	LPO4F	LAG4	5	7.20848	85.6501	0.937	-3.7801	17.6596	0.841	0.0113
F3	LPO4F	LAG5	3	47.3965	46.5499	0.4157	5.54265	10.5176	0.6508	0.1219
F3	LPO4F	LAG6	6	7.72448	93.548	0.9374	-5.421	21.4212	0.8103	0.0126
F3	LSO4F	LAG0	3	-17.94	23.677	0.5277	12.2357	6.14152	0.1846	0.6649
F3	LSO4F	LAG1	6	40.9312	25.7408	0.1727	-3.8653	7.75044	0.6391	0.0474
F3	LSO4F	LAG2	5	33.5594	34.9037	0.3908	-1.7154	12.9938	0.9013	0.0043
F3	LSO4F	LAG3	5	9.42554	25.7306	0.7327	4.54156	7.87278	0.5949	0.0768
F3	LSO4F	LAG4	7	36.1868	21.9021	0.1496	-2.8168	6.86503	0.6958	0.0273
F3	LSO4F	LAG5	5	56.4751	30.3901	0.1367	-11.402	10.7218	0.3475	0.2204
F3	LSO4F	LAG6	7	-1.4723	16.1257	0.9302	11.1559	5.64112	0.0953	0.3946
F3	LSULF	LAG0	3	33.8832	10.607	0.0856	-6.6695	5.93256	0.3777	0.3872
F3	LSULF	LAG1	6	27.0254	14.1325	0.1141	1.36229	7.44539	0.862	0.0067
F3	LSULF	LAG2	5	0.85173	16.1368	0.9604	17.0927	8.58249	0.1172	0.4979
F3	LSULF	LAG3	5	32.7374	14.8621	0.0924	-5.1447	6.84169	0.4939	0.1239
F3	LSULF	LAG4	7	30.2399	12.7673	0.0556	-1.5498	6.33073	0.8148	0.0099
F3	LSULF	LAG5	5	31.6728	17.6188	0.1466	-3.4962	8.33255	0.6963	0.0422
F3	LSULF	LAG6	7	43.9155	13.5853	0.0179	-8.9361	6.43093	0.214	0.2435
F3	LTKNF	LAG0	3	14.8654	285.393	0.9632	10.8399	247.056	0.969	0.001
F3	LTKNF	LAG1	6	20.9235	93.9981	0.8327	6.7417	78.551	0.9349	0.0015
F3	LTKNF	LAG2	5	25.3302	79.3027	0.7654	3.31306	67.7035	0.9633	0.0006
F3	LTKNF	LAG3	5	-19.274	155.32	0.9072	35.9219	130.409	0.7966	0.0186
F3	LTKNF	LAG4	7	-18.305	51.6688	0.7353	37.6155	41.6597	0.4014	0.1196
F3	LTKNF	LAG5	5	136.778	48.5263	0.0479	-100.35	43.338	0.0815	0.5727
F3	LTKNF	LAG6	7	34.5923	55.8546	0.5585	-5.455	44.5811	0.9066	0.0025
F3	LTPF	LAG0	3	64.2827	87.6407	0.5396	9.02238	21.2603	0.7126	0.0826
F3	LTPF	LAG1	6	-67.128	75.8108	0.4165	-23.628	18.5337	0.2584	0.2453
F3	LTPF	LAG2	5	35.1963	95.3348	0.7307	1.4897	23.4357	0.9524	0.001
F3	LTPF	LAG3	5	91.2399	95.9702	0.3956	18.411	25.9634	0.5174	0.1117
F3	LTPF	LAG4	7	4.54858	61.8808	0.9438	-6.0013	15.8137	0.7174	0.0234
F3	LTPF	LAG5	5	-5.4393	74.104	0.945	-8.0615	19.4258	0.6994	0.0413
F3	LTPF	LAG6	7	66.9906	102.586	0.5379	10.501	27.4241	0.715	0.0239

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F4	LCAF	LAG0	4	152.317	514.118	0.7864	-25.634	109.118	0.8294	0.0181
F4	LCAF	LAG1	9	134.638	217.01	0.5522	-21.896	47.1478	0.6547	0.0263
F4	LCAF	LAG2	6	687.512	434.968	0.1748	-136.71	92.2838	0.1986	0.305
F4	LCAF	LAG3	8	-319.6	212.573	0.1764	75.4847	45.8811	0.1439	0.2789
F4	LCAF	LAG4	8	51.1045	309.625	0.8736	-3.0699	66.8057	0.9646	0.0003
F4	LCAF	LAG5	6	718.569	358.377	0.1013	-146.52	75.8922	0.1114	0.4271
F4	LCAF	LAG6	10	212.634	239.963	0.3986	-38.349	51.4198	0.4748	0.0582
F4	LCLF	LAG0	4	127.281	1033.07	0.9097	-18.175	196.17	0.932	0.0029
F4	LCLF	LAG1	9	-160.98	245.714	0.5308	37.6612	47.4503	0.4503	0.073
F4	LCLF	LAG2	6	24.9338	501.032	0.9622	3.47796	94.8519	0.9722	0.0003
F4	LCLF	LAG3	8	-249.38	220.7	0.2957	53.3884	42.1595	0.2459	0.1864
F4	LCLF	LAG4	8	184.779	256.385	0.4944	-28.305	49.0376	0.5819	0.0454
F4	LCLF	LAG5	6	375.275	537.485	0.5162	-65.422	100.896	0.5453	0.0776
F4	LCLF	LAG6	10	335.683	216.057	0.1547	-57.718	41.2811	0.1956	0.1784
F4	LDOC	LAG0	4	-120.59	440.464	0.802	38.6642	111.873	0.7525	0.0383
F4	LDOC	LAG1	9	-128.84	252.881	0.6242	41.8811	65.029	0.5376	0.0493
F4	LDOC	LAG2	6	579.904	339.311	0.1481	-135.8	85.8406	0.1745	0.3336
F4	LDOC	LAG3	8	-247.4	242.922	0.3424	70.5142	61.7351	0.2909	0.1571
F4	LDOC	LAG4	8	-51.106	270.611	0.8556	22.4659	69.0533	0.7544	0.0149
F4	LDOC	LAG5	6	653.427	458.5	0.2134	-157.48	115.216	0.2299	0.272
F4	LDOC	LAG6	10	466.696	189.987	0.0364	-110.48	48.4582	0.0486	0.3661
F4	LFEF	LAG0	1	57.615			-16.785			1
F4	LFEF	LAG1	7	55.3982	27.3142	0.0889	-8.9159	9.52882	0.3856	0.1273
F4	LFEF	LAG2	3	33.885	41.5063	0.5001	6.40411	16.2658	0.7318	0.0719
F4	LFEF	LAG3	4	48.105	29.1731	0.1977	-7.3282	10.3711	0.5308	0.1427
F4	LFEF	LAG4	6	48.0614	27.6417	0.1426	-4.852	9.63707	0.636	0.0483
F4	LFEF	LAG5	2	70.903	105.18	0.6224	-19.634	56.2823	0.7863	0.1085
F4	LFEF	LAG6	8	21.1036	23.6606	0.402	6.11651	8.75472	0.5073	0.0652
F4	LKF	LAG0	4	-182.93	136.844	0.2736	106.093	67.5259	0.2142	0.4514
F4	LKF	LAG1	9	86.5414	91.9269	0.374	-26.755	46.5514	0.5813	0.0397
F4	LKF	LAG2	6	-200.13	187.042	0.3336	115.32	88.4953	0.2493	0.2535
F4	LKF	LAG3	8	-25.303	168.278	0.8847	27.9192	84.9568	0.752	0.0152
F4	LKF	LAG4	8	401.257	185.603	0.0674	-174.96	89.0447	0.0902	0.3555
F4	LKF	LAG5	6	157.625	139.938	0.3111	-65.669	70.129	0.3921	0.1492
F4	LKF	LAG6	9	144.601	172.144	0.4253	-56.346	84.3989	0.5232	0.0528
F4	LMGF	LAG0	4	116.314	432.248	0.8053	-23.382	119.221	0.857	0.0127
F4	LMGF	LAG1	9	76.3169	152.474	0.6302	-12.088	43.4165	0.7878	0.0096
F4	LMGF	LAG2	6	379.233	342.953	0.3192	-92.758	94.6559	0.3721	0.1611
F4	LMGF	LAG3	8	-188	152.398	0.2572	61.4147	42.8949	0.1953	0.2265
F4	LMGF	LAG4	8	40.1675	206.008	0.8509	-0.9239	57.8893	0.9877	0
F4	LMGF	LAG5	6	512.331	204.557	0.0542	-133.65	56.2836	0.0636	0.53
F4	LMGF	LAG6	10	198.286	151.542	0.2231	-45.989	42.3094	0.3053	0.116
F4	LNH3F	LAG0	3	82.2279	21.3026	0.061	25.3083	10.39	0.1352	0.7479
F4	LNH3F	LAG1	8	32.9858	27.0086	0.2615	-1.6414	12.57	0.8998	0.0024
F4	LNH3F	LAG2	5	10.8394	6.09678	0.1501	-19.051	2.67663	0.0021	0.9268
F4	LNH3F	LAG3	7	7.56029	23.2597	0.7562	-8.4501	10.6645	0.4583	0.0947
F4	LNH3F	LAG4	8	67.3867	19.7505	0.0113	14.5651	8.64381	0.1359	0.2886
F4	LNH3F	LAG5	5	34.1319	25.6631	0.2543	2.16947	10.5866	0.8476	0.0104
F4	LNH3F	LAG6	10	6.96611	20.3076	0.7395	-12.868	9.14277	0.1929	0.1804

F4	LPH	LAG0	4	335.73	1649.32	0.8517	-157.67	854.945	0.8654	0.0112
F4	LPH	LAG1	8	-742.49	1376.92	0.6064	403.435	713.272	0.5893	0.0437
F4	LPH	LAG2	6	-2519	1097.83	0.0702	1326.87	568.478	0.0669	0.5214
F4	LPH	LAG3	8	1320.59	924.216	0.1961	-669.37	479.307	0.2052	0.2179
F4	LPH	LAG4	8	1801.28	1095.08	0.144	-912.91	566.588	0.1512	0.2705
F4	LPH	LAG5	6	-1609.2	957.593	0.1537	849.752	497.361	0.1482	0.3686
F4	LPH	LAG6	10	-1874.1	923.356	0.073	990.797	479.517	0.0688	0.3217
F4	LPO4F	LAG0	2	223.221	287.828	0.5801	37.0793	58.2401	0.6391	0.2884
F4	LPO4F	LAG1	7	31.8456	81.0708	0.708	-1.0706	17.8819	0.9542	0.0006
F4	LPO4F	LAG2	4	-23.427	77.1639	0.7813	-14.181	16.347	0.4495	0.2005
F4	LPO4F	LAG3	4	8.61253	31.9599	0.805	-2.1049	6.96722	0.7823	0.0295
F4	LPO4F	LAG4	6	167.755	58.8633	0.0358	27.8932	12.283	0.0724	0.5077
F4	LPO4F	LAG5	2	-475.2	307.188	0.3653	-106.99	63.8527	0.3425	0.7374
F4	LPO4F	LAG6	7	-5.5733	82.4311	0.9483	-8.2026	17.4025	0.654	0.0357
F4	LSO4F	LAG0	4	62.4843	45.2841	0.2615	-10.207	14.4497	0.5309	0.1426
F4	LSO4F	LAG1	9	14.1209	35.1225	0.6982	7.28195	12.5239	0.577	0.0405
F4	LSO4F	LAG2	6	-21.037	25.8506	0.4528	21.7468	8.39709	0.0488	0.5729
F4	LSO4F	LAG3	8	10.2355	37.3174	0.7918	6.80279	12.564	0.605	0.0402
F4	LSO4F	LAG4	8	89.2308	22.1335	0.005	-18.192	7.31716	0.0418	0.4689
F4	LSO4F	LAG5	6	54.8625	34.3972	0.1716	-9.7342	11.5887	0.4392	0.1237
F4	LSO4F	LAG6	10	-16.604	24.4324	0.5139	18.4594	8.64622	0.0615	0.3362
F4	LSULF	LAG0	4	-2.5437	34.659	0.9461	18.3828	17.7423	0.3763	0.2635
F4	LSULF	LAG1	8	31.7752	28.5032	0.3017	-1.0327	15.1992	0.9477	0.0007
F4	LSULF	LAG2	6	85.3495	22.5822	0.0129	-23.202	11.6191	0.1023	0.4437
F4	LSULF	LAG3	7	19.9863	30.5683	0.5375	6.59687	15.8858	0.6924	0.0279
F4	LSULF	LAG4	8	3.45358	22.0067	0.8797	19.9867	12.2637	0.1472	0.2751
F4	LSULF	LAG5	6	15.9643	22.3036	0.5062	5.94624	11.2984	0.6212	0.0525
F4	LSULF	LAG6	10	66.9676	16.3515	0.0027	-19.78	8.98824	0.0553	0.3499
F4	LTKNF	LAG0	4	-78.606	52.2191	0.2293	92.9158	43.5247	0.1225	0.603
F4	LTKNF	LAG1	9	64.7152	28.2997	0.0515	-31.989	28.1927	0.2894	0.1386
F4	LTKNF	LAG2	6	160.277	57.915	0.0395	-98.786	48.4305	0.0969	0.4542
F4	LTKNF	LAG3	8	12.3777	27.2112	0.663	17.3732	25.6639	0.5202	0.0614
F4	LTKNF	LAG4	8	-26.33	64.4058	0.6949	58.3051	58.8526	0.3548	0.123
F4	LTKNF	LAG5	6	87.4753	52.0641	0.1538	-52.569	44.6082	0.2916	0.2174
F4	LTKNF	LAG6	10	104.578	36.9788	0.0198	-67.9	34.8935	0.0835	0.2961
F4	LTPF	LAG0	4	350.982	75.7519	0.0189	69.2725	16.3963	0.0242	0.8561
F4	LTPF	LAG1	9	-24.975	73.4912	0.7427	-13.179	16.3341	0.4431	0.0752
F4	LTPF	LAG2	6	-10.947	80.7713	0.8975	-11.955	17.6501	0.5283	0.084
F4	LTPF	LAG3	8	-132.18	85.802	0.1673	-34.942	18.4341	0.0999	0.3392
F4	LTPF	LAG4	8	163.811	65.7597	0.0415	28.2581	14.5433	0.0931	0.3504
F4	LTPF	LAG5	6	121.863	110.857	0.3217	20.0414	23.3088	0.4292	0.1288
F4	LTPF	LAG6	10	12.6605	66.8937	0.8541	-4.5581	14.3542	0.7581	0.0111

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F5	LCAF	LAG0	2	304.511	6.78129	0.0142	-57.782	1.44977	0.016	0.9994
F5	LCAF	LAG1	4	-264.08	778.229	0.7567	67.3364	168.044	0.7155	0.0508
F5	LCAF	LAG2	3	703.257	418.402	0.2348	-140.9	89.5031	0.2561	0.5534
F5	LCAF	LAG3	3	541.485	1191.52	0.6941	-107.95	256.431	0.7147	0.0814
F5	LCAF	LAG4	5	-744.99	420.856	0.1514	170.255	91.3134	0.1357	0.465
F5	LCAF	LAG5	3	-296.68	348.048	0.4838	73.3454	74.7994	0.4302	0.3247
F5	LCAF	LAG6	5	1209.8	353.185	0.0266	-250.87	75.9999	0.0299	0.7315
F5	LCLF	LAG0	2	359.944	1.50145	0.0027	-61.714	0.2845	0.0029	1
F5	LCLF	LAG1	5	185.995	384.377	0.6538	-27.049	73.4573	0.7314	0.0328
F5	LCLF	LAG2	3	1040.39	423.723	0.1335	-189.65	80.6994	0.1432	0.7341
F5	LCLF	LAG3	4	435.957	290.326	0.2302	-75.257	54.907	0.264	0.3851
F5	LCLF	LAG4	5	124.134	394.716	0.7689	-16.264	75.9046	0.8408	0.0113
F5	LCLF	LAG5	3	618.977	619.196	0.4228	-106.6	114.874	0.4514	0.301
F5	LCLF	LAG6	6	435.551	237.544	0.1262	-73.847	44.8121	0.1603	0.352
F5	LDOC	LAG0	2	199.416	13.9739	0.0445	-42.037	3.55532	0.0537	0.9929
F5	LDOC	LAG1	5	-285.78	402.919	0.5173	83.1741	101.426	0.4582	0.1439
F5	LDOC	LAG2	3	402.221	247.659	0.2458	-90.612	62.7295	0.2854	0.5106
F5	LDOC	LAG3	4	883.902	129.461	0.0064	-212.51	32.524	0.0073	0.9343
F5	LDOC	LAG4	5	-319.77	232.546	0.2411	92.0951	59.564	0.197	0.3741
F5	LDOC	LAG5	3	1503.71	702.637	0.1657	-360.81	173.72	0.1734	0.6832
F5	LDOC	LAG6	6	895.032	90.8136	0.0002	-214.16	22.8542	0.0002	0.9461
F5	LFEF	LAG1	4	6.55299	29.7324	0.8397	11.4518	7.73603	0.2354	0.4221
F5	LFEF	LAG3	2	4.05664	61.4683	0.958	8.51804	14.3777	0.6595	0.2598
F5	LFEF	LAG4	4	21.3697	20.604	0.3759	6.99221	6.31829	0.3492	0.2899
F5	LFEF	LAG6	4	27.8219	25.203	0.3502	6.05762	7.83838	0.4959	0.166
F5	LKF	LAG0	2	-240.67	9.67126	0.0256	125.73	4.42092	0.0224	0.9988
F5	LKF	LAG1	5	25.8437	467.572	0.9586	8.36617	209.406	0.97	0.0004
F5	LKF	LAG2	3	-895.59	184.846	0.0401	429.445	84.4031	0.0365	0.9283
F5	LKF	LAG3	4	522.967	260.585	0.1384	-218.22	117.254	0.1597	0.5359
F5	LKF	LAG4	5	608.495	496.577	0.2877	-258.16	225.303	0.3158	0.2471
F5	LKF	LAG5	3	802.039	679.37	0.3592	-347.71	311.777	0.3808	0.3834
F5	LKF	LAG6	6	316.604	425.606	0.4904	-123.01	192.222	0.5504	0.0757
F5	LMGF	LAG0	2	265.97	15.372	0.0368	-63.584	4.21765	0.0422	0.9956
F5	LMGF	LAG1	5	303.169	362.996	0.4506	-71.286	100	0.5153	0.1127
F5	LMGF	LAG2	3	845.546	201.168	0.0522	-220.36	55.3427	0.0577	0.888
F5	LMGF	LAG3	4	183.619	333.59	0.6204	-39.507	90.5924	0.6922	0.0596
F5	LMGF	LAG4	5	-318.18	527.293	0.5788	99.3994	146.479	0.5346	0.1032
F5	LMGF	LAG5	3	-166.25	453.414	0.749	57.3241	123.313	0.6877	0.0975
F5	LMGF	LAG6	6	423.905	306.226	0.2249	-103.21	83.2305	0.27	0.2352
F5	LNH3F	LAG0	2	26.6699	7.12497	0.1662	-4.4825	3.51391	0.4233	0.6194
F5	LNH3F	LAG1	5	31.3354	14.5912	0.0983	-15.158	12.403	0.2887	0.2719
F5	LNH3F	LAG2	2	30.3481	2.63465	0.0551	-16.896	1.63077	0.0613	0.9908
F5	LNH3F	LAG3	4	28.7803	14.2761	0.1372	-8.6159	9.17575	0.417	0.2271
F5	LNH3F	LAG4	4	48.8883	16.2648	0.0574	6.49771	9.95245	0.5604	0.1244
F5	LNH3F	LAG5	3	34.3094	7.38878	0.0434	-15.737	6.38376	0.1326	0.7524
F5	LNH3F	LAG6	6	35.5724	10.3269	0.0183	-11.396	8.31067	0.2286	0.2733
F5	LPH	LAG0	2	-376.65	286.001	0.4135	212.136	147.621	0.387	0.6737
F5	LPH	LAG1	4	309.419	1184.2	0.8108	-134.06	613.718	0.8411	0.0157
F5	LPH	LAG2	3	-1587.2	687.462	0.1473	842.684	354.971	0.1409	0.7381

F5	LPH	LAG3	4	2804.12	630.973	0.0212	-1439.9	328.462	0.022	0.865
F5	LPH	LAG4	5	745.578	726.297	0.3627	-365.38	375.861	0.386	0.1911
F5	LPH	LAG5	3	2900.63	1726.33	0.2349	-1484.5	897.238	0.2399	0.5778
F5	LPH	LAG6	6	-838.09	1010.51	0.4447	459.571	526.276	0.4225	0.1323
F5	LPO4F	LAG0	2	-130.77	106.459	0.435	-30.873	19.8998	0.3645	0.7065
F5	LPO4F	LAG1	4	-263.32	306.434	0.4534	-62.645	62.3362	0.389	0.2519
F5	LPO4F	LAG2	2	-541.57	127.532	0.1472	-111.39	23.997	0.1351	0.9556
F5	LPO4F	LAG3	3	-169.02	96.1431	0.2208	-39.685	19.186	0.1745	0.6814
F5	LPO4F	LAG4	3	24.1251	175.401	0.9032	-3.3517	35.1493	0.9327	0.0045
F5	LPO4F	LAG5	3	-406.54	24.5659	0.0036	-88.541	4.81932	0.0029	0.9941
F5	LPO4F	LAG6	5	122.581	115.121	0.347	16.8322	23.1242	0.507	0.117
F5	LSO4F	LAG0	2	1.85576	8.98273	0.8703	9.72232	2.64559	0.1691	0.9311
F5	LSO4F	LAG1	5	43.8206	29.4805	0.2114	0.25069	9.75139	0.9807	0.0002
F5	LSO4F	LAG2	3	2.09871	30.4805	0.9514	15.3914	10.4854	0.2798	0.5186
F5	LSO4F	LAG3	4	-3.4295	18.8616	0.8673	14.3769	6.07187	0.0987	0.6514
F5	LSO4F	LAG4	5	60.0322	25.7574	0.0802	-6.4547	7.62811	0.4451	0.1518
F5	LSO4F	LAG5	3	-3.2334	48.0789	0.9525	17.8556	17.6072	0.4173	0.3396
F5	LSO4F	LAG6	6	-1.9514	15.7361	0.9061	15.8567	5.05021	0.0257	0.6635
F5	LSULF	LAG0	2	35.1947	12.2655	0.2135	-0.7003	8.36129	0.9468	0.007
F5	LSULF	LAG1	4	49.6793	23.216	0.1219	-7.8189	13.9638	0.6146	0.0946
F5	LSULF	LAG2	3	151.482	46.8918	0.0839	-61.104	26.5424	0.1479	0.726
F5	LSULF	LAG3	3	61.3712	9.18591	0.0217	-18.742	7.5831	0.132	0.7533
F5	LSULF	LAG4	5	42.1512	21.1147	0.1166	-1.7508	12.8097	0.8979	0.0046
F5	LSULF	LAG5	3	72.4139	15.6125	0.0435	-18.337	9.12012	0.1821	0.669
F5	LSULF	LAG6	6	64.6372	14.6885	0.007	-13.829	8.50079	0.1647	0.3461
F5	LTKNF	LAG0	2	91.3571	30.5832	0.2057	-48.668	25.9701	0.3121	0.7784
F5	LTKNF	LAG1	5	31.8423	62.2478	0.6359	10.3555	49.9837	0.846	0.0106
F5	LTKNF	LAG2	3	158.547	57.3003	0.1096	-85.209	42.5115	0.1829	0.6676
F5	LTKNF	LAG3	4	99.8592	52.8957	0.1555	-48.821	41.2139	0.3215	0.3187
F5	LTKNF	LAG4	5	21.3924	44.1674	0.6535	14.474	34.3213	0.6949	0.0426
F5	LTKNF	LAG5	3	115.209	86.1088	0.3128	-54.365	65.6544	0.4947	0.2553
F5	LTKNF	LAG6	6	137.455	24.821	0.0026	-71.39	18.6609	0.0123	0.7454
F5	LTPF	LAG0	2	-242.51	148.774	0.3503	-54.633	29.3559	0.3139	0.776
F5	LTPF	LAG1	5	88.9879	141.507	0.5636	9.29062	29.4681	0.7683	0.0242
F5	LTPF	LAG2	3	-15.444	156.397	0.9303	-12.428	32.1912	0.7366	0.0694
F5	LTPF	LAG3	4	-169.71	176.702	0.4077	-42.178	35.7911	0.3236	0.3164
F5	LTPF	LAG4	5	171.971	93.4724	0.1396	27.1918	19.1305	0.2283	0.3356
F5	LTPF	LAG5	3	-348.34	544.813	0.588	-79.644	110.446	0.5457	0.2064
F5	LTPF	LAG6	6	-112.04	84.206	0.2408	-32.405	17.3873	0.1214	0.4099

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
U3	LCAF	LAG0	4	936.807	746.928	0.2986	-191.95	166.85	0.3333	0.3061
U3	LCAF	LAG1	9	1229.95	785.372	0.156	-253.54	175.697	0.187	0.2065
U3	LCAF	LAG2	6	3193.27	1090.94	0.0327	-691.32	245.199	0.0371	0.6139
U3	LCAF	LAG3	8	32.6164	486.992	0.9485	9.92226	108.717	0.9298	0.0012
U3	LCAF	LAG4	8	3.09338	1046.24	0.9977	21.7644	234.784	0.9287	0.0012
U3	LCAF	LAG5	6	811.621	851.183	0.3841	-164.41	190.563	0.4277	0.1296
U3	LCAF	LAG6	10	-1028.8	836.796	0.2501	251.522	187.023	0.2116	0.1673
U3	LCLF	LAG0	4	-480.92	1213.39	0.7184	108.219	235.04	0.6765	0.066
U3	LCLF	LAG1	9	47.7227	833.607	0.9558	9.59621	162.125	0.9543	0.0004
U3	LCLF	LAG2	6	1273.84	1354.9	0.3903	-224.07	262.581	0.4325	0.1271
U3	LCLF	LAG3	8	201.511	443.789	0.6635	-24.027	85.6389	0.7872	0.0111
U3	LCLF	LAG4	8	744.696	801.328	0.3836	-125.13	155.465	0.4474	0.0847
U3	LCLF	LAG5	6	498.974	1349.94	0.7268	-80.848	258.84	0.7674	0.0191
U3	LCLF	LAG6	10	1633.72	604.636	0.0243	-298.08	117.183	0.0315	0.4183
U3	LDOC	LAG0	4	13.2422	1333.34	0.9927	17.038	352.438	0.9645	0.0008
U3	LDOC	LAG1	9	-197.39	837.273	0.8195	78.0417	221.834	0.7341	0.0152
U3	LDOC	LAG2	6	2881.02	1679.32	0.1469	-725.25	440.739	0.1608	0.3513
U3	LDOC	LAG3	8	123.151	486.852	0.8076	-12.137	128.131	0.9272	0.0013
U3	LDOC	LAG4	8	70.2128	1003.51	0.9462	7.83281	263.358	0.9771	0.0001
U3	LDOC	LAG5	6	-626.53	840.765	0.4897	183.563	219.233	0.4406	0.123
U3	LDOC	LAG6	10	2349.8	584.729	0.003	-592.41	153.674	0.0039	0.6228
U3	LFEF	LAG0	2	196.208	76.7052	0.2372	-59.218	34.6852	0.3373	0.7446
U3	LFEF	LAG1	7	152.019	62.4797	0.0509	-16.764	18.6954	0.4044	0.1182
U3	LFEF	LAG2	4	213.359	128.016	0.1942	-28.594	39.2005	0.5185	0.1506
U3	LFEF	LAG3	5	74.7939	34.5868	0.0966	3.32979	11.6882	0.7899	0.0199
U3	LFEF	LAG4	6	67.1136	79.9306	0.4394	11.3997	22.7488	0.6376	0.0478
U3	LFEF	LAG5	3	118.832	84.2199	0.2937	-23.691	43.8551	0.6432	0.1273
U3	LFEF	LAG6	8	31.7346	45.3006	0.5062	25.4326	14.2571	0.1176	0.3125
U3	LKF	LAG0	4	-384.32	622.711	0.5808	224.868	302.97	0.5118	0.1551
U3	LKF	LAG1	9	-1506.3	912.746	0.1375	770.213	438.359	0.117	0.2784
U3	LKF	LAG2	6	-1458.8	726.87	0.101	758.758	349.623	0.0821	0.4851
U3	LKF	LAG3	8	600.688	416.964	0.1929	-252.07	200.647	0.2493	0.184
U3	LKF	LAG4	8	2038.95	900.692	0.058	-924.21	429.218	0.0683	0.3984
U3	LKF	LAG5	6	57.5589	479.691	0.9092	9.61933	233.066	0.9687	0.0003
U3	LKF	LAG6	9	813.303	1346.97	0.5627	-347.54	649.266	0.607	0.0346
U3	LMGF	LAG0	4	619.153	761.24	0.4756	-154.13	216.64	0.5281	0.1444
U3	LMGF	LAG1	9	1084.83	613.945	0.1152	-282.04	175.201	0.1461	0.2447
U3	LMGF	LAG2	6	1788.69	1101.92	0.1655	-476.12	313.936	0.1898	0.3151
U3	LMGF	LAG3	8	-332.57	410.875	0.4449	116.127	116.438	0.3518	0.1244
U3	LMGF	LAG4	8	711.44	885.281	0.448	-173.88	251.668	0.5119	0.0638
U3	LMGF	LAG5	6	1026.51	823.816	0.2679	-267.89	232.49	0.3013	0.2098
U3	LMGF	LAG6	10	-953.22	758.399	0.2404	297.176	214.683	0.1996	0.1755
U3	LNH3F	LAG0	3	81.1382	26.8074	0.094	-1.5055	33.5151	0.9683	0.001
U3	LNH3F	LAG1	7	120.468	31.1184	0.0083	-45.961	43.8117	0.3346	0.155
U3	LNH3F	LAG2	6	174.869	13.7474	<.0001	-104.73	16.5985	0.0015	0.8884
U3	LNH3F	LAG3	7	76.6789	14.8637	0.0021	11.8915	20.4624	0.5823	0.0533
U3	LNH3F	LAG4	8	95.0706	29.3035	0.0142	14.1226	38.0112	0.7212	0.0193
U3	LNH3F	LAG5	5	164.35	37.763	0.0121	-122.23	53.1153	0.0828	0.5697
U3	LNH3F	LAG6	9	152.688	17.3815	<.0001	-114.46	24.3501	0.0015	0.7342

U3	LPH	LAG0	4	1982.38	3122.66	0.5706	-986.8	1617.8	0.585	0.1103
U3	LPH	LAG1	8	-2901.9	2345.18	0.2558	1558.73	1216.35	0.2408	0.19
U3	LPH	LAG2	6	-4135.1	8612.31	0.6514	2200.99	4456.94	0.6423	0.0465
U3	LPH	LAG3	8	1294.05	1159.16	0.3011	-632.3	602.22	0.3286	0.1361
U3	LPH	LAG4	8	-278.57	2868.03	0.9253	196.47	1488.21	0.8987	0.0025
U3	LPH	LAG5	6	-1268	1912.67	0.5367	696.851	990.687	0.5132	0.09
U3	LPH	LAG6	10	5869.96	1520.05	0.0038	-2998.2	789.32	0.0042	0.6159
U3	LPO4F	LAG0	2	245.618	229.086	0.4778	32.7968	47.5932	0.6159	0.322
U3	LPO4F	LAG1	3	-328.39	237.299	0.3006	-89.652	52.6149	0.2305	0.5921
U3	LPO4F	LAG2	5	-288	228.284	0.2757	-85.39	47.1004	0.1441	0.4511
U3	LPO4F	LAG3	3	27.407	172.302	0.8882	-12.165	38.6653	0.7828	0.0472
U3	LPO4F	LAG4	6	218.289	129.33	0.1522	29.5917	26.8278	0.3203	0.1957
U3	LPO4F	LAG5	3	-51.21	211.394	0.8312	-27.452	44.1517	0.5975	0.162
U3	LPO4F	LAG6	5	-117.65	176.099	0.5406	-41.49	37.8648	0.3347	0.2309
U3	LSO4F	LAG0	4	86.9447	66.0828	0.2798	-3.6122	24.7847	0.8934	0.007
U3	LSO4F	LAG1	9	116.609	63.9577	0.1057	-7.3301	22.2613	0.7504	0.0134
U3	LSO4F	LAG2	6	-46.518	88.9195	0.6232	59.6226	31.0833	0.1132	0.4239
U3	LSO4F	LAG3	8	33.9618	30.0258	0.2953	15.7291	10.2573	0.169	0.2515
U3	LSO4F	LAG4	8	100.009	74.0633	0.2189	0.01349	23.4106	0.9996	0
U3	LSO4F	LAG5	6	137.539	64.4746	0.0861	-25.507	26.7624	0.3843	0.1537
U3	LSO4F	LAG6	10	-15.948	40.3555	0.7019	42.5335	14.1786	0.015	0.5
U3	LSULF	LAG0	4	11.1132	110.23	0.9261	33.6719	55.0474	0.584	0.1109
U3	LSULF	LAG1	8	37.0408	25.0659	0.183	25.9404	14.8432	0.124	0.3038
U3	LSULF	LAG2	6	296.189	142.763	0.0927	-103.61	81.4869	0.2595	0.2443
U3	LSULF	LAG3	7	92.8801	30.5572	0.0228	-6.6366	16.2842	0.6977	0.0269
U3	LSULF	LAG4	8	107.457	63.1124	0.1324	-5.0372	39.0126	0.9009	0.0024
U3	LSULF	LAG5	6	142.356	137.78	0.3489	-32.043	67.5722	0.6553	0.043
U3	LSULF	LAG6	10	209.631	39.4327	0.0005	-69.632	22.4235	0.0126	0.5172
U3	LTKNF	LAG0	4	73.7986	109.002	0.5469	2.53621	69.9452	0.9734	0.0004
U3	LTKNF	LAG1	9	193.1	130.792	0.1781	-67.646	90.6691	0.477	0.0651
U3	LTKNF	LAG2	6	611.102	97.7956	0.0015	-329.59	64.8229	0.0038	0.8379
U3	LTKNF	LAG3	8	102.768	65.1828	0.1589	-17.714	44.1143	0.7	0.0225
U3	LTKNF	LAG4	8	41.1378	159.068	0.8034	42.0641	112.045	0.7185	0.0197
U3	LTKNF	LAG5	6	264.756	121.492	0.0812	-119.35	77.0181	0.1819	0.3244
U3	LTKNF	LAG6	10	380.434	101.343	0.0045	-196.02	69.0724	0.0195	0.4723
U3	LTPF	LAG0	3	406.726	93.6449	0.0491	77.1447	21.675	0.0707	0.8636
U3	LTPF	LAG1	9	-125.68	291.865	0.6781	-47.594	62.1746	0.466	0.0682
U3	LTPF	LAG2	5	-55.974	99.9087	0.6052	-32.602	21.9702	0.212	0.355
U3	LTPF	LAG3	8	-7.6018	97.0875	0.9398	-18.355	20.9005	0.409	0.0992
U3	LTPF	LAG4	7	-12.123	362.562	0.9744	-25.861	78.1839	0.7521	0.0179
U3	LTPF	LAG5	6	87.4869	112.444	0.4717	2.22537	24.4865	0.9311	0.0016
U3	LTPF	LAG6	10	-227.14	185.578	0.252	-68.422	39.0688	0.1138	0.2542

UNIVARIATE LAG 0-6
 PORE WATER
 MOSQUITOFISH THg vs LOG Y
 BY STATION

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F1	CAF	LAG0	5	11.3808	1.70102	0.0026	-0.0354	0.00651	0.0056	0.8807
F1	CAF	LAG1	8	0.63872	3.40929	0.8567	0.00626	0.01346	0.6561	0.03
F1	CAF	LAG2	7	6.16407	3.61386	0.1389	-0.0144	0.01396	0.3405	0.1515
F1	CAF	LAG3	7	-2.5477	3.32272	0.4723	0.01743	0.01281	0.2225	0.2358
F1	CAF	LAG4	8	5.2552	2.60013	0.083	-0.0128	0.01014	0.2485	0.1846
F1	CAF	LAG5	6	3.13323	2.01333	0.1804	-0.005	0.0078	0.5479	0.0766
F1	CAF	LAG6	9	5.24749	3.62507	0.1858	-0.0117	0.01395	0.4256	0.0809
F1	CLF	LAG0	5	6.25501	2.78761	0.0882	-0.0085	0.00576	0.2141	0.3524
F1	CLF	LAG1	9	3.93486	2.54054	0.16	-0.0037	0.00522	0.4941	0.0603
F1	CLF	LAG2	7	6.95338	2.64092	0.0389	-0.0094	0.00545	0.136	0.3305
F1	CLF	LAG3	8	-0.1873	2.20293	0.9346	0.00424	0.00439	0.3663	0.1176
F1	CLF	LAG4	9	0.10802	2.38155	0.9649	0.00435	0.00489	0.3995	0.0901
F1	CLF	LAG5	7	2.91339	1.13823	0.0429	-0.0023	0.0023	0.3648	0.1381
F1	CLF	LAG6	9	3.95077	3.29937	0.2654	-0.0037	0.00692	0.6117	0.0337
F1	DOC	LAG0	5	6.35953	3.95199	0.1829	-0.0342	0.03214	0.3474	0.2205
F1	DOC	LAG1	8	1.35635	2.55851	0.6124	0.007	0.02122	0.7511	0.0153
F1	DOC	LAG2	6	4.32662	1.1327	0.0124	-0.0136	0.00777	0.1399	0.3808
F1	DOC	LAG3	8	0.72779	2.2943	0.7603	0.00993	0.0189	0.6157	0.0379
F1	DOC	LAG4	8	1.98972	1.16067	0.1302	0.00012	0.00813	0.9885	0
F1	DOC	LAG5	7	1.2925	0.43358	0.0246	0.00374	0.00302	0.2622	0.2032
F1	DOC	LAG6	8	4.04343	2.62672	0.1676	-0.0142	0.02153	0.5308	0.0585
F1	FEF	LAG0	3	0.98833	0.38266	0.1229	0.0885	0.01919	0.044	0.914
F1	FEF	LAG1	6	1.18966	0.6087	0.1081	0.04793	0.0298	0.1687	0.341
F1	FEF	LAG2	3	1.40428	0.91437	0.2644	0.12394	0.08173	0.2687	0.5348
F1	FEF	LAG3	5	2.02804	0.2207	0.0008	-0.0207	0.0105	0.1193	0.4941
F1	FEF	LAG4	5	1.74203	0.8375	0.106	0.02908	0.04976	0.5904	0.0787
F1	FEF	LAG5	3	1.55535	0.33422	0.0432	0.00862	0.02946	0.7975	0.041
F1	FEF	LAG6	7	1.12669	0.53805	0.0811	0.09091	0.03552	0.0429	0.5219
F1	KF	LAG0	5	2.96911	1.15947	0.0626	-0.1868	0.25462	0.5038	0.1186
F1	KF	LAG1	8	2.6313	0.87341	0.0196	-0.123	0.21901	0.5919	0.0431
F1	KF	LAG2	7	2.69358	0.88846	0.023	-0.0609	0.19361	0.7636	0.0162
F1	KF	LAG3	7	1.34258	0.86288	0.1707	0.13038	0.17898	0.4938	0.0813
F1	KF	LAG4	8	2.79071	0.89457	0.0169	-0.1561	0.21345	0.4885	0.0709
F1	KF	LAG5	7	2.31045	0.33403	0.0005	-0.1013	0.06255	0.1565	0.3041
F1	KF	LAG6	7	2.88241	1.64669	0.1306	-0.0967	0.31878	0.772	0.0151
F1	MGF	LAG0	5	14.0499	1.40821	0.0006	-0.1487	0.01759	0.0011	0.947
F1	MGF	LAG1	9	1.90856	3.28607	0.5774	0.00283	0.04159	0.9474	0.0006
F1	MGF	LAG2	7	10.2678	5.83653	0.129	-0.099	0.07374	0.2278	0.2312
F1	MGF	LAG3	8	-0.5447	3.25499	0.8718	0.03023	0.03972	0.4715	0.0764
F1	MGF	LAG4	9	1.32997	3.63585	0.724	0.01101	0.04544	0.8147	0.0073
F1	MGF	LAG5	7	2.42187	1.97408	0.2658	-0.0076	0.02413	0.7647	0.0161
F1	MGF	LAG6	9	3.9323	4.02177	0.3568	-0.0219	0.0511	0.68	0.0224
F1	NH3F	LAG0	5	2.41784	0.65094	0.0206	-0.1798	0.35987	0.6437	0.0587
F1	NH3F	LAG1	8	2.5035	0.52758	0.0021	-0.2369	0.31041	0.4702	0.0768
F1	NH3F	LAG2	7	2.67279	0.5029	0.0018	-0.1911	0.27441	0.5122	0.0748

F1	NH3F	LAG3	7	2.01427	0.55124	0.0107	-0.0309	0.22015	0.8928	0.0033
F1	NH3F	LAG4	8	2.16592	0.40683	0.0011	-0.099	0.16699	0.5719	0.0478
F1	NH3F	LAG5	6	2.06076	0.21578	0.0002	-0.0894	0.06705	0.2399	0.2623
F1	NH3F	LAG6	9	2.53277	0.55582	0.0019	-0.116	0.1633	0.4977	0.0593
F1	PH	LAG0	5	-26.281	14.0402	0.1346	4.13032	2.03725	0.1125	0.5068
F1	PH	LAG1	8	21.5994	17.9106	0.267	-2.7807	2.57103	0.3153	0.1432
F1	PH	LAG2	7	-12.015	22.2395	0.6085	2.09862	3.22791	0.5397	0.0658
F1	PH	LAG3	8	14.3635	18.4398	0.4615	-1.7831	2.64251	0.5215	0.0611
F1	PH	LAG4	9	-3.6961	11.0004	0.7455	0.86007	1.60209	0.606	0.0348
F1	PH	LAG5	7	8.46502	8.94208	0.3804	-0.9669	1.29815	0.4845	0.0846
F1	PH	LAG6	9	-7.283	10.8908	0.5225	1.37257	1.57275	0.4082	0.0869
F1	PO4F	LAG0	4	3.41314	1.3099	0.08	-9.5955	9.81644	0.4004	0.2416
F1	PO4F	LAG1	8	1.77941	0.78365	0.0574	3.42099	6.97855	0.639	0.0332
F1	PO4F	LAG2	7	3.61975	0.54488	0.0006	-7.7049	3.07698	0.0463	0.511
F1	PO4F	LAG3	7	1.91034	0.5529	0.0135	0.66692	3.65491	0.8612	0.0055
F1	PO4F	LAG4	9	2.70563	0.55719	0.0013	-3.0184	2.74467	0.3034	0.1313
F1	PO4F	LAG5	6	1.71201	0.28614	0.0019	0.51314	1.07358	0.6528	0.0437
F1	PO4F	LAG6	8	2.27572	0.53388	0.0037	-1.2946	2.19141	0.5733	0.0475
F1	SO4F	LAG0	5	1.37447	0.17507	0.0014	0.02121	0.00314	0.0025	0.9192
F1	SO4F	LAG1	9	2.06831	0.44932	0.0017	0.00228	0.01034	0.8306	0.0061
F1	SO4F	LAG2	7	1.65671	0.55642	0.0247	0.03942	0.02278	0.1343	0.3329
F1	SO4F	LAG3	8	2.05602	0.36777	0.0008	-0.0051	0.0083	0.555	0.052
F1	SO4F	LAG4	9	2.20796	0.44215	0.0011	-5.21E-05	0.01007	0.996	0
F1	SO4F	LAG5	7	1.53843	0.19643	0.0002	0.01967	0.01161	0.1411	0.3236
F1	SO4F	LAG6	9	1.86387	0.31738	0.0004	0.01715	0.00787	0.0609	0.3727
F1	SULF	LAG0	5	1.37784	1.52434	0.4172	0.12493	0.22825	0.6133	0.0697
F1	SULF	LAG1	9	3.02157	0.92488	0.0114	-0.1559	0.15125	0.3329	0.1172
F1	SULF	LAG2	7	3.84499	0.98971	0.0081	-0.2717	0.18037	0.1827	0.2744
F1	SULF	LAG3	8	2.07985	1.09631	0.0996	-0.0243	0.16268	0.8853	0.0032
F1	SULF	LAG4	9	0.54203	0.99387	0.6004	0.27951	0.15939	0.1176	0.2777
F1	SULF	LAG5	7	1.9833	0.48769	0.0066	-0.0268	0.07033	0.716	0.0237
F1	SULF	LAG6	9	0.38328	0.81588	0.6511	0.32204	0.13557	0.0449	0.4136
F1	TKNF	LAG0	5	4.03013	2.44663	0.1749	-0.2355	0.30636	0.4849	0.1287
F1	TKNF	LAG1	9	2.95995	2.33447	0.2405	-0.1108	0.30841	0.7288	0.0159
F1	TKNF	LAG2	7	4.53271	1.7818	0.0439	-0.2766	0.23111	0.2765	0.1928
F1	TKNF	LAG3	8	1.54547	1.66624	0.3845	0.04618	0.20072	0.8246	0.0075
F1	TKNF	LAG4	9	2.91008	1.50613	0.0894	-0.087	0.18142	0.6443	0.028
F1	TKNF	LAG5	7	2.42288	0.54561	0.0044	-0.0721	0.06187	0.2882	0.1845
F1	TKNF	LAG6	9	3.20508	1.41105	0.0528	-0.1087	0.15082	0.4917	0.0609
F1	TPF	LAG0	5	2.86224	1.02042	0.0486	-4.4786	6.07064	0.5016	0.1198
F1	TPF	LAG1	9	1.47742	0.66758	0.0578	5.17144	4.61288	0.2948	0.1358
F1	TPF	LAG2	7	3.80385	0.50398	0.0003	-7.6597	2.47904	0.0214	0.6141
F1	TPF	LAG3	8	1.86633	0.56651	0.0132	0.41375	3.52464	0.9098	0.002
F1	TPF	LAG4	9	2.7693	0.59042	0.0016	-2.8654	2.52044	0.2885	0.1391
F1	TPF	LAG5	7	1.62888	0.25285	0.0007	0.74375	0.9009	0.4406	0.102
F1	TPF	LAG6	8	2.58422	0.671	0.0063	-1.5579	2.91449	0.6095	0.0392

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F2	CAF	LAG0	3	6.73903	4.98952	0.3093	-0.0199	0.02408	0.495	0.255
F2	CAF	LAG1	5	-5.4135	8.7726	0.5706	0.03941	0.04314	0.4126	0.1726
F2	CAF	LAG2	5	-2.9248	7.3285	0.7102	0.02585	0.03459	0.4965	0.1225
F2	CAF	LAG3	3	8.33595	10.8464	0.5225	-0.0294	0.05415	0.6414	0.1286
F2	CAF	LAG4	6	5.02793	6.79622	0.4927	-0.014	0.03366	0.6946	0.0335
F2	CAF	LAG5	5	2.73462	4.14581	0.5455	-0.001	0.01946	0.9633	0.0006
F2	CAF	LAG6	6	4.92768	5.91277	0.4426	-0.0116	0.02957	0.712	0.0297
F2	CLF	LAG0	3	13.1817	9.24526	0.29	-0.0303	0.02656	0.3717	0.3947
F2	CLF	LAG1	6	4.70449	5.30285	0.4156	-0.006	0.01424	0.6912	0.0342
F2	CLF	LAG2	5	-4.2956	10.7393	0.7096	0.01909	0.02998	0.5589	0.092
F2	CLF	LAG3	4	6.2512	7.17623	0.4478	-0.0102	0.01864	0.6229	0.0905
F2	CLF	LAG4	7	1.89778	5.06845	0.721	0.00157	0.01374	0.9125	0.0022
F2	CLF	LAG5	6	7.85343	5.35472	0.2024	-0.015	0.01417	0.3395	0.1822
F2	CLF	LAG6	6	4.51125	8.08098	0.6007	-0.0052	0.02234	0.8245	0.0108
F2	DOC	LAG0	3	3.141	4.41697	0.5508	-0.005	0.04399	0.9193	0.0065
F2	DOC	LAG1	5	-4.3389	5.00131	0.4346	0.0684	0.05066	0.2483	0.3131
F2	DOC	LAG2	4	0.69503	5.27981	0.9036	0.01916	0.05365	0.7447	0.0408
F2	DOC	LAG3	4	3.57826	8.3324	0.6966	-0.0136	0.09178	0.8919	0.0072
F2	DOC	LAG4	6	1.92534	4.82659	0.7064	0.00306	0.04913	0.9528	0.0008
F2	DOC	LAG5	6	4.78578	4.10972	0.2968	-0.0258	0.04107	0.5575	0.0731
F2	DOC	LAG6	6	3.62726	6.63839	0.6083	-0.0108	0.07165	0.8857	0.0046
F2	FEF	LAG0	1	2.21528			0.02326			1
F2	FEF	LAG1	4	3.18096	0.74566	0.0236	-0.0303	0.0164	0.1618	0.5322
F2	FEF	LAG2	3	2.50267	0.91726	0.1122	0.04373	0.04138	0.4013	0.3584
F2	FEF	LAG3	2	0.92047	1.68705	0.682	0.01929	0.02888	0.6252	0.3084
F2	FEF	LAG4	3	2.50661	0.97265	0.1233	-0.0008	0.021	0.9722	0.0008
F2	FEF	LAG5	4	2.25422	0.93754	0.0955	0.01938	0.04555	0.6991	0.0569
F2	FEF	LAG6	4	1.8813	1.02925	0.165	0.02425	0.02259	0.3618	0.2774
F2	KF	LAG0	3	2.25664	1.65453	0.3058	0.06247	0.24331	0.8214	0.0319
F2	KF	LAG1	6	2.73643	1.58129	0.1441	-0.0388	0.22602	0.8705	0.0059
F2	KF	LAG2	5	3.38794	1.53313	0.0916	-0.135	0.21702	0.5677	0.0882
F2	KF	LAG3	4	1.5747	5.66719	0.7992	0.10722	0.77437	0.8987	0.0063
F2	KF	LAG4	7	0.98299	1.42096	0.5149	0.2302	0.20631	0.3072	0.1718
F2	KF	LAG5	5	2.21476	1.53085	0.2215	0.01046	0.25587	0.9693	0.0004
F2	KF	LAG6	6	-0.2531	1.65263	0.8843	0.45931	0.25331	0.1295	0.3967
F2	MGF	LAG0	3	6.363	4.56267	0.2979	-0.055	0.0668	0.497	0.253
F2	MGF	LAG1	6	-2.0703	8.04019	0.8071	0.06766	0.11906	0.5944	0.0607
F2	MGF	LAG2	5	-7.1484	6.2919	0.3194	0.13851	0.08971	0.1975	0.3734
F2	MGF	LAG3	4	11.258	8.0404	0.256	-0.1342	0.12078	0.3475	0.2916
F2	MGF	LAG4	7	-0.4413	6.88515	0.951	0.04407	0.10374	0.6858	0.0292
F2	MGF	LAG5	6	3.58679	4.62777	0.4733	-0.0197	0.06651	0.7789	0.0173
F2	MGF	LAG6	6	10.2331	6.94508	0.2006	-0.118	0.10744	0.3221	0.1944
F2	NH3F	LAG0	3	2.65882	2.07433	0.3284	-0.0952	10.9519	0.9939	0
F2	NH3F	LAG1	6	2.04519	0.6568	0.0264	0.61813	0.51575	0.2844	0.2232
F2	NH3F	LAG2	5	1.28937	1.28265	0.3717	5.94956	5.41538	0.3336	0.2318
F2	NH3F	LAG3	4	2.84837	2.17984	0.2825	-2.3535	9.67272	0.8234	0.0194
F2	NH3F	LAG4	7	2.70787	0.58074	0.0035	-0.3914	0.49318	0.4577	0.095
F2	NH3F	LAG5	6	2.74836	1.06763	0.0498	-3.085	5.50893	0.5996	0.059
F2	NH3F	LAG6	6	2.95123	0.96847	0.0285	-1.1398	2.73904	0.6946	0.0335

F2	PH	LAG0	3	-56.512	8.62537	0.0225	8.54054	1.24514	0.0206	0.9592
F2	PH	LAG1	4	60.685	30.4384	0.1402	-8.374	4.36893	0.1511	0.5505
F2	PH	LAG2	5	-52.036	49.1527	0.3495	7.8737	7.0922	0.3292	0.2356
F2	PH	LAG3	4	28.3022	45.4298	0.5774	-3.7194	6.5105	0.6078	0.0981
F2	PH	LAG4	6	7.47316	37.7712	0.851	-0.7012	5.46494	0.9029	0.0033
F2	PH	LAG5	6	-65.19	32.0898	0.0979	9.72189	4.62736	0.0896	0.4689
F2	PH	LAG6	6	-19.618	31.4234	0.5598	3.20274	4.52343	0.5106	0.0911
F2	PO4F	LAG0	3	3.8333	3.14071	0.3466	-15.728	40.4677	0.735	0.0702
F2	PO4F	LAG1	5	1.49494	1.01496	0.2148	8.16688	6.11034	0.2523	0.3087
F2	PO4F	LAG2	4	1.22762	2.3612	0.6391	13.8736	21.6766	0.5677	0.1201
F2	PO4F	LAG3	3	2.77252	2.24289	0.3419	-4.7636	31.1091	0.8924	0.0116
F2	PO4F	LAG4	5	2.38116	0.99027	0.074	-0.9313	6.0479	0.8851	0.0059
F2	PO4F	LAG5	4	1.86431	0.70692	0.0778	4.82532	9.77082	0.6553	0.0752
F2	PO4F	LAG6	5	4.3316	1.05036	0.0146	-20.565	14.9377	0.2406	0.3215
F2	SO4F	LAG0	3	1.8173	0.11273	0.0038	0.01373	0.0012	0.0075	0.985
F2	SO4F	LAG1	6	2.95914	0.56985	0.0035	-0.0135	0.00807	0.1559	0.3579
F2	SO4F	LAG2	5	2.33411	1.55124	0.2069	0.01159	0.08256	0.8951	0.0049
F2	SO4F	LAG3	4	2.05753	0.89565	0.1053	0.00615	0.01067	0.6044	0.0999
F2	SO4F	LAG4	7	2.49872	0.61305	0.0065	-0.0007	0.00919	0.9431	0.0009
F2	SO4F	LAG5	6	1.68037	1.1226	0.1947	0.0302	0.05542	0.6092	0.0561
F2	SO4F	LAG6	6	2.1906	0.61125	0.0158	0.01094	0.0085	0.2544	0.2489
F2	SULF	LAG0	3	3.71026	1.84691	0.1823	-0.1822	0.29491	0.5996	0.1603
F2	SULF	LAG1	6	2.57917	1.79194	0.2096	-0.0124	0.22496	0.9582	0.0006
F2	SULF	LAG2	5	-1.9939	1.77642	0.3245	0.64153	0.24475	0.0587	0.632
F2	SULF	LAG3	4	3.11016	1.66648	0.1588	-0.1142	0.22455	0.6461	0.0793
F2	SULF	LAG4	7	1.15566	1.36807	0.4306	0.17685	0.17138	0.3419	0.1507
F2	SULF	LAG5	6	3.67282	1.18244	0.0267	-0.1861	0.14018	0.2418	0.2606
F2	SULF	LAG6	6	4.97561	1.36284	0.0147	-0.371	0.20304	0.1272	0.4004
F2	TKNF	LAG0	3	3.19682	4.89409	0.5807	-0.0913	0.79717	0.9192	0.0065
F2	TKNF	LAG1	6	-0.1736	2.42901	0.9458	0.40523	0.36038	0.3119	0.2018
F2	TKNF	LAG2	5	-1.0618	4.30576	0.8174	0.60687	0.71961	0.4465	0.151
F2	TKNF	LAG3	4	0.64364	7.66878	0.9384	0.29303	1.30876	0.8372	0.0164
F2	TKNF	LAG4	7	3.04147	2.42522	0.2565	-0.0866	0.36219	0.819	0.0094
F2	TKNF	LAG5	6	5.92584	2.41156	0.0574	-0.6422	0.41153	0.1794	0.3275
F2	TKNF	LAG6	6	0.71369	5.6953	0.9052	0.33617	0.99523	0.7493	0.0223
F2	TPF	LAG0	3	2.4844	2.96546	0.4903	1.68877	30.8806	0.9614	0.0015
F2	TPF	LAG1	6	1.39365	0.95252	0.2033	8.90521	6.47332	0.2274	0.2746
F2	TPF	LAG2	5	1.18821	1.34721	0.4276	13.474	12.0822	0.3272	0.2372
F2	TPF	LAG3	4	2.65487	1.88454	0.2537	-4.1544	23.5835	0.8714	0.0102
F2	TPF	LAG4	7	2.71956	0.83533	0.0173	-2.3213	6.20695	0.7213	0.0228
F2	TPF	LAG5	6	2.41896	1.01219	0.0624	-2.9235	12.9717	0.8306	0.0101
F2	TPF	LAG6	6	1.8883	1.40738	0.2374	10.1152	17.6213	0.5908	0.0618

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F3	CAF	LAG0	3	11.6674	11.6786	0.423	-0.0715	0.09821	0.5424	0.2094
F3	CAF	LAG1	5	2.50384	6.0147	0.6986	0.0044	0.05249	0.9373	0.0018
F3	CAF	LAG2	5	-20.244	15.4826	0.2611	0.19167	0.12757	0.2074	0.3608
F3	CAF	LAG3	4	2.89366	6.2107	0.673	-0.0005	0.05214	0.9927	0
F3	CAF	LAG4	6	-5.9634	11.2278	0.6181	0.07393	0.09408	0.4675	0.1099
F3	CAF	LAG5	4	3.46647	2.98966	0.3302	-0.0017	0.02486	0.9497	0.0016
F3	CAF	LAG6	7	1.32242	5.62064	0.8218	0.01399	0.04679	0.775	0.0147
F3	CLF	LAG0	3	15.7222	5.10564	0.0913	-0.058	0.0236	0.1331	0.7516
F3	CLF	LAG1	6	-0.9422	7.24384	0.9016	0.0189	0.03467	0.6091	0.0561
F3	CLF	LAG2	5	16.9677	14.1487	0.2966	-0.0649	0.06578	0.3796	0.1958
F3	CLF	LAG3	5	-3.5018	8.0387	0.6856	0.0296	0.03763	0.4755	0.1339
F3	CLF	LAG4	7	3.24504	8.66661	0.721	-0.0011	0.04051	0.9783	0.0001
F3	CLF	LAG5	5	7.30383	5.60529	0.2625	-0.0197	0.02513	0.4777	0.1327
F3	CLF	LAG6	7	-5.8998	8.70955	0.5234	0.04225	0.04132	0.346	0.1484
F3	DOC	LAG0	3	4.51268	6.10267	0.5366	-0.025	0.11336	0.8461	0.0237
F3	DOC	LAG1	5	3.4648	9.95087	0.7452	-0.0107	0.18635	0.9571	0.0008
F3	DOC	LAG2	4	-0.4277	9.98977	0.9685	0.06307	0.18265	0.7527	0.0382
F3	DOC	LAG3	5	3.3644	9.60673	0.7438	-0.01	0.17343	0.9569	0.0008
F3	DOC	LAG4	6	10.6985	7.29367	0.2023	-0.1456	0.13493	0.33	0.1888
F3	DOC	LAG5	5	3.55461	5.59398	0.5597	-0.0111	0.09901	0.9162	0.0031
F3	DOC	LAG6	6	-1.4125	7.78666	0.8632	0.08248	0.14214	0.5869	0.0631
F3	FEF	LAG0	2	2.84323	0.06599	0.0148	0.00958	0.00093	0.0616	0.9907
F3	FEF	LAG1	4	3.54329	0.70617	0.0152	-0.016	0.01166	0.2646	0.3844
F3	FEF	LAG2	4	3.66308	0.68349	0.0127	-0.0127	0.02537	0.6513	0.077
F3	FEF	LAG3	4	2.50921	0.75982	0.0457	0.00789	0.01322	0.5926	0.1062
F3	FEF	LAG4	4	2.29935	0.71053	0.048	0.00893	0.012	0.5108	0.1558
F3	FEF	LAG5	3	2.74431	0.65968	0.0532	0.03868	0.03892	0.425	0.3306
F3	FEF	LAG6	6	2.71516	0.53656	0.0039	0.00928	0.01049	0.4168	0.1353
F3	KF	LAG0	3	3.54152	2.47927	0.2894	-0.0445	0.29451	0.8938	0.0113
F3	KF	LAG1	6	0.80445	3.18067	0.8104	0.28181	0.40491	0.5175	0.0883
F3	KF	LAG2	5	-4.0336	2.49674	0.1815	0.82075	0.28909	0.0469	0.6683
F3	KF	LAG3	5	7.82462	9.41769	0.4528	-0.6012	1.12848	0.6224	0.0663
F3	KF	LAG4	7	4.95656	3.45635	0.2016	-0.2318	0.40736	0.5899	0.0512
F3	KF	LAG5	4	2.50559	7.00172	0.7442	0.05043	0.84478	0.9561	0.0012
F3	KF	LAG6	7	8.56213	7.50296	0.2973	-0.6541	0.88137	0.486	0.0841
F3	MGF	LAG0	3	13.7379	5.80362	0.1415	-0.2626	0.14414	0.21	0.624
F3	MGF	LAG1	6	1.5718	4.7086	0.7521	0.03785	0.12428	0.773	0.0182
F3	MGF	LAG2	5	-40.341	11.3553	0.0237	1.05377	0.27595	0.0188	0.7847
F3	MGF	LAG3	5	3.06933	4.82126	0.559	-0.0065	0.1221	0.9599	0.0007
F3	MGF	LAG4	7	10.7696	6.62755	0.1553	-0.1963	0.16721	0.285	0.1868
F3	MGF	LAG5	5	-0.8582	4.06632	0.8432	0.09579	0.10236	0.4023	0.1796
F3	MGF	LAG6	7	1.40056	6.04808	0.8246	0.03964	0.14965	0.8	0.0116
F3	NH3F	LAG0	3	3.25776	0.45709	0.0191	-0.6588	2.29049	0.8007	0.0397
F3	NH3F	LAG1	5	2.99915	0.78846	0.019	0.05197	4.6105	0.9915	0
F3	NH3F	LAG2	5	2.79571	0.89056	0.0349	0.95071	3.32127	0.7889	0.0201
F3	NH3F	LAG3	4	2.76443	0.98853	0.068	0.25906	3.11729	0.939	0.0023
F3	NH3F	LAG4	6	2.94172	0.52097	0.0024	-0.2824	1.169	0.8187	0.0115
F3	NH3F	LAG5	4	3.41944	0.64864	0.0133	-0.465	1.74421	0.8071	0.0231
F3	NH3F	LAG6	7	3.15882	0.64669	0.0028	-0.3329	1.12481	0.7772	0.0144

F3	PH	LAG0	3	-15.089	14.772	0.4145	2.68376	2.17081	0.3418	0.4332
F3	PH	LAG1	5	33.3855	24.8743	0.2507	-4.4261	3.63697	0.2905	0.2702
F3	PH	LAG2	5	-39.95	13.0771	0.0378	6.28801	1.91362	0.0303	0.7297
F3	PH	LAG3	5	53.7171	23.5312	0.0845	-7.407	3.42369	0.0965	0.5392
F3	PH	LAG4	7	13.9728	24.5223	0.5895	-1.6109	3.59955	0.6702	0.0323
F3	PH	LAG5	5	-14.669	21.3058	0.529	2.5554	3.09323	0.4552	0.1458
F3	PH	LAG6	7	5.74409	24.5505	0.8228	-0.3992	3.57059	0.9146	0.0021
F3	PO4F	LAG0	3	3.20835	0.58714	0.0319	-3.8428	48.3851	0.9439	0.0031
F3	PO4F	LAG1	5	3.48226	1.10466	0.0344	-52.442	108.604	0.6544	0.0551
F3	PO4F	LAG2	4	2.70328	1.14673	0.0996	26.5439	82.0136	0.7675	0.0337
F3	PO4F	LAG3	4	2.69121	1.34347	0.1389	10.4987	91.0123	0.9155	0.0044
F3	PO4F	LAG4	5	3.7421	0.69973	0.0059	-90.836	62.3573	0.2189	0.3466
F3	PO4F	LAG5	3	2.76276	0.58005	0.0414	22.4077	38.3204	0.6179	0.146
F3	PO4F	LAG6	6	3.13382	0.80746	0.0116	8.16569	54.2675	0.8863	0.0045
F3	SO4F	LAG0	3	2.74868	0.19299	0.0049	0.00581	0.00181	0.0849	0.8374
F3	SO4F	LAG1	6	3.45218	0.38714	0.0003	-0.0096	0.00477	0.1008	0.4466
F3	SO4F	LAG2	5	3.72465	0.52299	0.0021	-0.0391	0.02139	0.1413	0.4556
F3	SO4F	LAG3	5	2.57411	0.49085	0.0063	0.00507	0.00577	0.429	0.1619
F3	SO4F	LAG4	7	2.96616	0.43467	0.0005	0.00079	0.00571	0.8945	0.0032
F3	SO4F	LAG5	5	3.26334	0.66394	0.008	-0.0165	0.02572	0.5567	0.093
F3	SO4F	LAG6	7	2.76184	0.35741	0.0002	0.0068	0.00487	0.2122	0.2452
F3	SULF	LAG0	3	3.38976	0.47697	0.0192	-0.0356	0.05742	0.5986	0.1611
F3	SULF	LAG1	6	2.72122	0.73316	0.0138	0.0403	0.08735	0.6639	0.0408
F3	SULF	LAG2	5	1.73778	0.58664	0.0415	0.18306	0.07284	0.0658	0.6123
F3	SULF	LAG3	5	3.36377	1.01518	0.0296	-0.0622	0.10387	0.5814	0.0823
F3	SULF	LAG4	7	3.27842	0.59081	0.0014	-0.0342	0.05821	0.5784	0.0544
F3	SULF	LAG5	5	3.57587	0.74895	0.0088	-0.0716	0.07116	0.371	0.2022
F3	SULF	LAG6	7	3.03934	0.69557	0.0047	-0.0046	0.06809	0.9489	0.0007
F3	TKNF	LAG0	3	1.85469	7.69141	0.8319	0.41455	2.42002	0.8798	0.0145
F3	TKNF	LAG1	6	1.60955	3.20091	0.6364	0.41959	0.95761	0.6796	0.037
F3	TKNF	LAG2	5	2.39897	2.85835	0.4485	0.18974	0.87196	0.8384	0.0117
F3	TKNF	LAG3	5	-2.2181	6.12995	0.7358	1.52824	1.85802	0.457	0.1447
F3	TKNF	LAG4	7	1.72819	1.86271	0.3893	0.36654	0.52755	0.5132	0.0745
F3	TKNF	LAG5	5	7.86445	2.35056	0.0287	-1.6092	0.76036	0.1018	0.5283
F3	TKNF	LAG6	7	2.61404	1.97007	0.2328	0.10978	0.55141	0.8488	0.0066
F3	TPF	LAG0	3	2.99978	0.73958	0.0557	8.9466	34.2258	0.8182	0.033
F3	TPF	LAG1	6	3.57742	0.93861	0.0125	-30.381	44.5626	0.5257	0.0851
F3	TPF	LAG2	5	2.60486	1.11886	0.0804	20.903	52.205	0.7093	0.0385
F3	TPF	LAG3	5	1.98074	1.49719	0.2564	31.4808	54.2952	0.5931	0.0775
F3	TPF	LAG4	7	3.40531	0.82962	0.0063	-17.355	32.1156	0.6084	0.0464
F3	TPF	LAG5	5	4.43651	1.08379	0.0149	-61.93	42.1783	0.2159	0.3502
F3	TPF	LAG6	7	2.28492	1.25715	0.119	28.5169	48.1599	0.5754	0.0552

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F4	CAF	LAG0	4	4.50092	2.83968	0.2111	-0.0111	0.02524	0.6908	0.0602
F4	CAF	LAG1	9	3.57628	1.33007	0.0275	-0.0029	0.01294	0.8257	0.0064
F4	CAF	LAG2	6	6.95316	2.4242	0.0351	-0.0301	0.02157	0.2212	0.2808
F4	CAF	LAG3	8	0.97345	1.30139	0.4788	0.02116	0.01238	0.1312	0.2944
F4	CAF	LAG4	8	3.93492	1.87542	0.0741	-0.0054	0.01789	0.77	0.013
F4	CAF	LAG5	6	7.66124	1.84729	0.0089	-0.0404	0.01632	0.0563	0.5504
F4	CAF	LAG6	10	4.03536	1.49411	0.0244	-0.0069	0.01379	0.6289	0.0271
F4	CLF	LAG0	4	4.26515	5.16524	0.4695	-0.0052	0.02657	0.8585	0.0124
F4	CLF	LAG1	9	1.91841	1.40181	0.2083	0.00758	0.00771	0.3542	0.1079
F4	CLF	LAG2	6	3.83526	2.50912	0.1869	-0.0013	0.0126	0.9231	0.0021
F4	CLF	LAG3	8	1.42226	1.34496	0.3254	0.0092	0.00699	0.2293	0.1986
F4	CLF	LAG4	8	4.55015	1.52071	0.0202	-0.0062	0.00794	0.4573	0.0812
F4	CLF	LAG5	6	4.97782	2.7969	0.1352	-0.0091	0.0135	0.5322	0.0825
F4	CLF	LAG6	10	4.69591	1.35176	0.007	-0.0074	0.00705	0.3219	0.1088
F4	DOC	LAG0	4	2.70412	3.1101	0.4486	0.01088	0.06005	0.8678	0.0108
F4	DOC	LAG1	9	1.66031	1.83441	0.3919	0.03293	0.03703	0.3998	0.09
F4	DOC	LAG2	6	7.42295	2.22134	0.0205	-0.0735	0.04227	0.1428	0.3765
F4	DOC	LAG3	8	0.89998	1.87071	0.6451	0.04414	0.03612	0.2612	0.1759
F4	DOC	LAG4	8	2.77399	2.06881	0.2218	0.01177	0.04051	0.7798	0.0119
F4	DOC	LAG5	6	8.43433	3.06252	0.0401	-0.0994	0.05705	0.1419	0.3778
F4	DOC	LAG6	10	6.25967	1.50731	0.0025	-0.0584	0.0295	0.0789	0.3036
F4	FEF	LAG0	1	3.90249			-0.0949			1
F4	FEF	LAG1	7	3.447	0.31872	<.0001	-0.01	0.00806	0.2622	0.2033
F4	FEF	LAG2	3	3.57751	0.41568	0.0132	0.0139	0.01899	0.5404	0.2113
F4	FEF	LAG3	4	3.18596	0.43565	0.0053	-0.0009	0.00948	0.9323	0.0028
F4	FEF	LAG4	6	3.36669	0.39523	0.0004	-0.0015	0.00942	0.8806	0.005
F4	FEF	LAG5	2	3.90465	1.48415	0.2312	-0.0903	0.1953	0.7243	0.1761
F4	FEF	LAG6	8	3.16587	0.28845	<.0001	0.00896	0.00775	0.2855	0.1604
F4	KF	LAG0	4	0.1453	1.56823	0.932	0.40905	0.2037	0.1382	0.5734
F4	KF	LAG1	9	4.14499	1.45737	0.0217	-0.1194	0.19821	0.5636	0.0434
F4	KF	LAG2	6	-0.0464	2.39334	0.9853	0.43719	0.28699	0.1882	0.317
F4	KF	LAG3	8	1.49434	2.31852	0.5398	0.23074	0.31749	0.491	0.0702
F4	KF	LAG4	8	9.15442	2.23058	0.0045	-0.7181	0.27596	0.0353	0.4917
F4	KF	LAG5	6	4.20588	2.05569	0.0961	-0.1486	0.2767	0.6142	0.0546
F4	KF	LAG6	9	5.00242	2.41981	0.0725	-0.2346	0.31305	0.475	0.0656
F4	MGF	LAG0	4	4.35251	3.03936	0.2475	-0.0289	0.08016	0.7426	0.0414
F4	MGF	LAG1	9	3.37722	1.21874	0.0243	-0.0029	0.03514	0.9363	0.0009
F4	MGF	LAG2	6	5.79072	2.3554	0.0573	-0.0587	0.06224	0.3888	0.1511
F4	MGF	LAG3	8	1.31799	1.25761	0.3295	0.05252	0.03515	0.1788	0.2418
F4	MGF	LAG4	8	3.76873	1.67259	0.0589	-0.0112	0.04662	0.8164	0.0082
F4	MGF	LAG5	6	6.92803	1.52253	0.0061	-0.1004	0.0398	0.053	0.56
F4	MGF	LAG6	10	4.30361	1.26002	0.0077	-0.0278	0.03421	0.4381	0.0682
F4	NH3F	LAG0	3	2.73347	0.33848	0.015	2.77525	1.16852	0.1408	0.7382
F4	NH3F	LAG1	8	3.49331	0.42208	<.0001	-0.7603	1.94195	0.7071	0.0214
F4	NH3F	LAG2	5	4.41337	0.05386	<.0001	-2.7701	0.16628	<.0001	0.9858
F4	NH3F	LAG3	7	3.02032	0.33136	<.0001	0.10604	1.47931	0.9452	0.0009
F4	NH3F	LAG4	8	2.98353	0.38456	0.0001	2.17317	1.70373	0.2428	0.1886
F4	NH3F	LAG5	5	3.2575	0.35908	0.0008	-0.254	1.47099	0.8713	0.0074
F4	NH3F	LAG6	10	3.77344	0.29714	<.0001	-2.8547	1.40968	0.0735	0.313

F4	PH	LAG0	4	0.43961	22.3902	0.9856	0.41033	3.25215	0.9076	0.0053
F4	PH	LAG1	8	-1.8824	19.542	0.926	0.76065	2.83491	0.7962	0.0102
F4	PH	LAG2	6	-28.092	15.5577	0.1308	4.59184	2.25524	0.0974	0.4533
F4	PH	LAG3	8	21.2889	13.5664	0.1606	-2.6343	1.97225	0.2234	0.2031
F4	PH	LAG4	8	27.2479	16.1827	0.1361	-3.4561	2.34207	0.1835	0.2373
F4	PH	LAG5	6	-20.611	13.7397	0.1939	3.45885	2.0033	0.1448	0.3735
F4	PH	LAG6	10	-20.604	14.1074	0.1782	3.4842	2.05642	0.1245	0.2418
F4	PO4F	LAG0	2	2.61002	1.83953	0.3908	116.88	228.459	0.699	0.2074
F4	PO4F	LAG1	7	3.22888	0.53397	0.0009	6.34846	31.7345	0.8481	0.0066
F4	PO4F	LAG2	4	3.75841	0.47516	0.0042	-12.201	28.2655	0.6951	0.0585
F4	PO4F	LAG3	4	3.03761	0.3587	0.0035	-15.752	26.5812	0.5951	0.1048
F4	PO4F	LAG4	6	2.84398	0.3596	0.0005	43.9042	24.4758	0.1328	0.3916
F4	PO4F	LAG5	2	5.98801	1.54615	0.1609	-300.28	182.006	0.3469	0.7313
F4	PO4F	LAG6	7	3.57739	0.37248	<.0001	-26.764	26.3073	0.3482	0.1471
F4	SO4F	LAG0	4	3.3189	0.54002	0.0087	-0.0019	0.0151	0.9063	0.0054
F4	SO4F	LAG1	9	3.34235	0.38423	<.0001	-0.0032	0.01525	0.8368	0.0056
F4	SO4F	LAG2	6	3.04571	0.32078	0.0002	0.01957	0.00907	0.0833	0.4824
F4	SO4F	LAG3	8	3.11411	0.41903	0.0001	0.00251	0.01521	0.8735	0.0039
F4	SO4F	LAG4	8	3.81649	0.32611	<.0001	-0.0163	0.00895	0.1105	0.3227
F4	SO4F	LAG5	6	3.20091	0.43005	0.0007	-0.004	0.01564	0.8062	0.0132
F4	SO4F	LAG6	10	2.73717	0.26175	<.0001	0.02759	0.01017	0.0239	0.4499
F4	SULF	LAG0	4	2.65133	0.60891	0.0224	0.08119	0.07177	0.3402	0.299
F4	SULF	LAG1	8	2.9769	0.53202	0.0008	0.02809	0.06897	0.6959	0.0232
F4	SULF	LAG2	6	4.26646	0.45968	0.0002	-0.0909	0.05331	0.149	0.3676
F4	SULF	LAG3	7	3.04775	0.5938	0.0022	0.02786	0.07407	0.7198	0.023
F4	SULF	LAG4	8	2.72287	0.46291	0.0006	0.10099	0.06313	0.1537	0.2677
F4	SULF	LAG5	6	2.88117	0.4917	0.0021	0.02925	0.05535	0.6198	0.0529
F4	SULF	LAG6	10	3.89565	0.39681	<.0001	-0.0916	0.05327	0.1196	0.2473
F4	TKNF	LAG0	4	1.03384	1.18359	0.4467	0.66982	0.3491	0.1508	0.551
F4	TKNF	LAG1	9	3.89402	0.98752	0.0043	-0.2267	0.35322	0.539	0.0489
F4	TKNF	LAG2	6	6.03705	1.24663	0.0047	-0.7407	0.37076	0.1022	0.4439
F4	TKNF	LAG3	8	2.48238	0.83545	0.0208	0.23925	0.27927	0.42	0.0949
F4	TKNF	LAG4	8	1.82627	1.7731	0.3373	0.51661	0.58735	0.4083	0.0995
F4	TKNF	LAG5	6	4.23037	1.23844	0.0189	-0.3481	0.37804	0.3994	0.145
F4	TKNF	LAG6	10	5.24387	1.05137	0.0008	-0.675	0.35859	0.0925	0.2825
F4	TPF	LAG0	4	1.56064	0.36487	0.0235	163.816	33.4336	0.0163	0.8889
F4	TPF	LAG1	9	3.53533	0.4245	<.0001	-19.226	26.5272	0.4892	0.0616
F4	TPF	LAG2	6	3.72817	0.45207	0.0004	-11.04	27.0248	0.6998	0.0323
F4	TPF	LAG3	8	3.62983	0.6261	0.0007	-44.175	56.0564	0.4565	0.0815
F4	TPF	LAG4	8	2.81653	0.38549	0.0002	42.0623	24.0893	0.1243	0.3034
F4	TPF	LAG5	6	2.63599	0.65685	0.0102	50.9305	66.255	0.4768	0.1057
F4	TPF	LAG6	10	3.51657	0.35193	<.0001	-18.91	24.1204	0.4532	0.0639

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F5	CAF	LAG0	2	5.19402	0.01992	0.0024	-0.0155	0.00018	0.0075	0.9999
F5	CAF	LAG1	4	3.35529	4.5821	0.517	0.00328	0.04439	0.9458	0.0018
F5	CAF	LAG2	3	6.30505	2.10578	0.0958	-0.024	0.01948	0.3431	0.4316
F5	CAF	LAG3	3	3.90284	7.61855	0.6594	-0.0038	0.07288	0.9634	0.0013
F5	CAF	LAG4	5	-0.5905	2.6439	0.8342	0.04113	0.02619	0.1914	0.3814
F5	CAF	LAG5	3	1.84707	1.56688	0.3597	0.01777	0.01472	0.3507	0.4216
F5	CAF	LAG6	5	9.97168	2.15326	0.0098	-0.0607	0.02053	0.0417	0.6859
F5	CLF	LAG0	2	5.30569	0.02155	0.0026	-0.0091	0.00011	0.0076	0.9999
F5	CLF	LAG1	5	4.43127	1.83047	0.0727	-0.0042	0.00955	0.6825	0.0462
F5	CLF	LAG2	3	7.49961	1.70482	0.048	-0.0197	0.00888	0.1562	0.712
F5	CLF	LAG3	4	4.73808	1.90937	0.0892	-0.0062	0.00943	0.5573	0.1263
F5	CLF	LAG4	5	3.87207	2.06976	0.1347	-0.0018	0.01125	0.8823	0.0062
F5	CLF	LAG5	3	6.02192	2.25177	0.116	-0.0104	0.01019	0.4131	0.3444
F5	CLF	LAG6	6	4.77918	1.42976	0.0205	-0.0055	0.00695	0.4611	0.113
F5	DOC	LAG0	2	4.74601	0.10821	0.0145	-0.0239	0.00209	0.0555	0.9924
F5	DOC	LAG1	5	2.36228	2.88612	0.459	0.02388	0.05384	0.6803	0.0469
F5	DOC	LAG2	3	5.33276	1.52117	0.0726	-0.0308	0.02882	0.3968	0.3638
F5	DOC	LAG3	4	9.21631	1.80571	0.0145	-0.1065	0.0335	0.0501	0.7711
F5	DOC	LAG4	5	1.1164	1.65515	0.537	0.04872	0.03288	0.2125	0.3544
F5	DOC	LAG5	3	10.8879	4.2304	0.1236	-0.1254	0.074	0.2322	0.5895
F5	DOC	LAG6	6	9.02401	1.13629	0.0005	-0.1007	0.0212	0.0051	0.8184
F5	FEF	LAG0	0	3.7612			0			
F5	FEF	LAG1	4	3.47825	0.46234	0.0049	0.00268	0.00387	0.5382	0.1379
F5	FEF	LAG2	1	4.40772			-0.0149			1
F5	FEF	LAG3	2	2.86228	0.79621	0.1727	0.0047	0.00523	0.5336	0.4474
F5	FEF	LAG4	4	3.46116	0.38455	0.0029	0.00176	0.00344	0.645	0.0799
F5	FEF	LAG5	1	3.581			-0.0192			1
F5	FEF	LAG6	4	3.40552	0.39681	0.0033	0.0032	0.00355	0.4336	0.2133
F5	KF	LAG0	2	0.05919	0.27649	0.8657	0.38794	0.03096	0.0507	0.9937
F5	KF	LAG1	5	4.02708	5.42766	0.4993	-0.0419	0.5806	0.9459	0.0013
F5	KF	LAG2	3	-4.8447	1.79029	0.1137	0.95829	0.20007	0.0409	0.9198
F5	KF	LAG3	4	9.77941	3.12428	0.0521	-0.6799	0.33732	0.1372	0.5752
F5	KF	LAG4	5	12.5878	5.49314	0.0837	-0.9972	0.60555	0.175	0.404
F5	KF	LAG5	3	11.9876	5.88912	0.1787	-0.9348	0.66586	0.2955	0.4963
F5	KF	LAG6	6	5.09548	5.11331	0.3648	-0.1574	0.55761	0.789	0.0157
F5	MGF	LAG0	2	5.36097	0.16729	0.0199	-0.048	0.00434	0.0574	0.9919
F5	MGF	LAG1	5	5.04445	2.48572	0.1123	-0.0372	0.06517	0.5988	0.0753
F5	MGF	LAG2	3	8.18551	1.38315	0.0274	-0.1175	0.0363	0.0837	0.8397
F5	MGF	LAG3	4	3.45437	2.63661	0.2814	0.00106	0.06548	0.9881	0.0001
F5	MGF	LAG4	5	0.12652	3.93308	0.9759	0.09339	0.10713	0.4326	0.1596
F5	MGF	LAG5	3	2.29836	2.69033	0.4829	0.03595	0.06758	0.6479	0.124
F5	MGF	LAG6	6	5.06103	2.36473	0.0853	-0.0354	0.05916	0.5757	0.0668
F5	NH3F	LAG0	2	3.63973	0.16874	0.0295	-0.3565	0.34598	0.4905	0.5149
F5	NH3F	LAG1	5	4.24697	0.40604	0.0005	-1.1097	0.61658	0.1463	0.4475
F5	NH3F	LAG2	2	4.40162	0.01589	0.0023	-1.1526	0.02755	0.0152	0.9994
F5	NH3F	LAG3	4	3.61527	0.46026	0.0043	-0.1997	0.5617	0.7458	0.0404
F5	NH3F	LAG4	4	3.52507	0.46878	0.0049	0.07991	0.60162	0.9027	0.0058
F5	NH3F	LAG5	3	4.10155	0.35091	0.0072	-0.5095	0.39626	0.3273	0.4525
F5	NH3F	LAG6	6	3.90892	0.39217	0.0002	-0.3723	0.45919	0.4543	0.1162

F5	PH	LAG0	2	-2.2869	4.29425	0.6885	0.83648	0.61844	0.4053	0.6466
F5	PH	LAG1	4	7.81863	12.3373	0.5713	-0.5769	1.79107	0.7685	0.0334
F5	PH	LAG2	3	-12.152	8.30179	0.2808	2.28861	1.19664	0.1959	0.6465
F5	PH	LAG3	4	46.2301	4.30166	0.0017	-6.2586	0.62995	0.0022	0.9705
F5	PH	LAG4	5	16.1785	9.51158	0.1642	-1.8287	1.37679	0.2548	0.3061
F5	PH	LAG5	3	31.8364	21.3162	0.2739	-4.1048	3.1123	0.318	0.4652
F5	PH	LAG6	6	-6.241	13.8528	0.6712	1.45037	2.03027	0.5069	0.0926
F5	PO4F	LAG0	2	4.35356	0.55402	0.0806	-172.53	112.893	0.3689	0.7002
F5	PO4F	LAG1	4	5.01804	1.96266	0.0834	-189.04	257.598	0.5162	0.1522
F5	PO4F	LAG2	2	6.05606	0.37314	0.0392	-441.96	73.6529	0.1051	0.973
F5	PO4F	LAG3	3	4.85118	1.06614	0.0451	-225.68	151.822	0.2755	0.5249
F5	PO4F	LAG4	3	3.40682	1.0808	0.0876	14.6792	126.715	0.9184	0.0067
F5	PO4F	LAG5	3	5.72164	0.09174	0.0003	-319.64	14.4377	0.002	0.9959
F5	PO4F	LAG6	5	3.13166	0.67845	0.0099	54.5462	84.2049	0.5524	0.0949
F5	SO4F	LAG0	2	3.22843	0.01192	0.0023	0.00856	0.0003	0.0223	0.9988
F5	SO4F	LAG1	5	3.5744	0.37803	0.0007	0.00181	0.0069	0.8064	0.0168
F5	SO4F	LAG2	3	3.37794	0.21413	0.004	0.01443	0.00655	0.1586	0.708
F5	SO4F	LAG3	4	3.17548	0.28684	0.0016	0.00894	0.00497	0.1699	0.5189
F5	SO4F	LAG4	5	3.62846	0.37667	0.0006	-0.0019	0.00625	0.7811	0.0216
F5	SO4F	LAG5	3	3.24644	0.49332	0.0223	0.02872	0.02693	0.3979	0.3625
F5	SO4F	LAG6	6	3.33403	0.2431	<.0001	0.00943	0.00467	0.0994	0.4493
F5	SULF	LAG0	2	3.61973	0.30568	0.0536	-0.0221	0.05699	0.7647	0.1305
F5	SULF	LAG1	4	4.19671	0.58942	0.0057	-0.1299	0.09836	0.2785	0.3675
F5	SULF	LAG2	3	4.85712	0.67683	0.0189	-0.1911	0.11029	0.2253	0.6002
F5	SULF	LAG3	3	4.12296	0.27178	0.0043	-0.1191	0.06565	0.2114	0.6219
F5	SULF	LAG4	5	3.62238	0.5262	0.0023	-0.0137	0.08389	0.8786	0.0066
F5	SULF	LAG5	3	4.15661	0.39158	0.0088	-0.0738	0.05811	0.3318	0.4465
F5	SULF	LAG6	6	4.04849	0.40775	0.0002	-0.0658	0.0571	0.3012	0.2099
F5	TKNF	LAG0	2	4.86363	0.719	0.0934	-0.4135	0.21978	0.311	0.7798
F5	TKNF	LAG1	5	3.53414	1.33829	0.0575	0.02908	0.37358	0.9417	0.0015
F5	TKNF	LAG2	3	5.35824	1.12399	0.0413	-0.4235	0.28694	0.2779	0.5214
F5	TKNF	LAG3	4	4.25085	1.36322	0.0525	-0.2078	0.36586	0.6098	0.0971
F5	TKNF	LAG4	5	3.15314	0.99408	0.0338	0.10829	0.26282	0.7015	0.0407
F5	TKNF	LAG5	3	4.71397	1.37384	0.0755	-0.2658	0.36359	0.5408	0.2109
F5	TKNF	LAG6	6	5.3755	0.69286	0.0006	-0.4523	0.17684	0.0508	0.5668
F5	TPF	LAG0	2	5.02863	0.94787	0.1186	-238.26	148.943	0.3557	0.719
F5	TPF	LAG1	5	3.40617	0.79773	0.013	25.5008	82.316	0.7722	0.0234
F5	TPF	LAG2	3	3.78223	0.64054	0.0275	-6.9338	67.3557	0.9274	0.0053
F5	TPF	LAG3	4	4.08395	1.12306	0.0358	-78.303	143.97	0.6243	0.0898
F5	TPF	LAG4	5	2.92345	0.54421	0.0058	74.2498	58.8696	0.2758	0.2845
F5	TPF	LAG5	3	5.66979	2.10824	0.1149	-268.4	289.248	0.4514	0.301
F5	TPF	LAG6	6	4.59502	0.43363	0.0001	-107.15	45.359	0.0646	0.5274

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
U3	CAF	LAG0	4	6.96801	1.97882	0.0389	-0.0305	0.02234	0.2653	0.3835
U3	CAF	LAG1	9	6.40491	1.56915	0.0035	-0.0229	0.01774	0.2324	0.1727
U3	CAF	LAG2	6	9.31056	1.84397	0.0039	-0.0545	0.02143	0.0517	0.5639
U3	CAF	LAG3	8	4.03999	1.4567	0.0276	0.00242	0.01634	0.8863	0.0031
U3	CAF	LAG4	8	4.02122	1.96553	0.08	0.00457	0.02256	0.8453	0.0058
U3	CAF	LAG5	6	6.39664	2.39484	0.0443	-0.0244	0.02739	0.4135	0.1371
U3	CAF	LAG6	10	2.68287	1.66766	0.1421	0.01949	0.01883	0.3276	0.1064
U3	CLF	LAG0	4	3.32208	2.94693	0.3416	0.00545	0.01679	0.767	0.0339
U3	CLF	LAG1	9	3.99295	1.39963	0.0214	0.00231	0.00803	0.7808	0.0103
U3	CLF	LAG2	6	6.07091	1.9343	0.0257	-0.0082	0.01099	0.4893	0.1001
U3	CLF	LAG3	8	4.43073	1.20043	0.0077	-0.001	0.00663	0.8865	0.0031
U3	CLF	LAG4	8	5.0107	1.39938	0.009	-0.0034	0.0079	0.6802	0.0257
U3	CLF	LAG5	6	5.17391	3.35593	0.1838	-0.0049	0.01818	0.7975	0.0144
U3	CLF	LAG6	10	6.65974	1.13208	0.0002	-0.0129	0.00639	0.0748	0.3108
U3	DOC	LAG0	4	4.87662	4.28994	0.3382	-0.0137	0.09737	0.8973	0.0065
U3	DOC	LAG1	9	2.91002	1.8416	0.1527	0.03387	0.04186	0.4419	0.0756
U3	DOC	LAG2	6	8.89591	3.39204	0.047	-0.0942	0.0749	0.264	0.2403
U3	DOC	LAG3	8	4.19708	1.70835	0.0437	0.00128	0.03794	0.9739	0.0002
U3	DOC	LAG4	8	3.89495	2.2719	0.1302	0.01151	0.04988	0.8241	0.0075
U3	DOC	LAG5	6	2.12589	2.8317	0.4866	0.04619	0.06097	0.4829	0.1029
U3	DOC	LAG6	10	9.25472	1.44898	0.0001	-0.1078	0.03205	0.0084	0.5568
U3	FEF	LAG0	2	5.06559	0.43995	0.0552	-0.0979	0.04548	0.2769	0.8225
U3	FEF	LAG1	7	4.59388	0.25919	<.0001	-0.0027	0.00221	0.2746	0.1941
U3	FEF	LAG2	4	4.75811	0.44636	0.0018	-0.0023	0.0088	0.8129	0.0218
U3	FEF	LAG3	5	4.25219	0.24469	<.0001	0.00122	0.00192	0.5584	0.0923
U3	FEF	LAG4	6	4.35878	0.35203	<.0001	0.00069	0.00281	0.8162	0.0119
U3	FEF	LAG5	3	4.69537	0.52884	0.0124	-0.0648	0.06503	0.4238	0.332
U3	FEF	LAG6	8	4.23573	0.18897	<.0001	0.00393	0.00171	0.0549	0.4307
U3	KF	LAG0	4	0.75339	3.37784	0.8378	0.4506	0.43148	0.3731	0.2666
U3	KF	LAG1	9	-0.481	4.02576	0.9078	0.60707	0.50102	0.2602	0.1551
U3	KF	LAG2	6	-1.5444	2.02699	0.4805	0.77211	0.2527	0.0282	0.6512
U3	KF	LAG3	8	7.73721	2.61416	0.0211	-0.4356	0.32646	0.2239	0.2027
U3	KF	LAG4	8	11.2928	3.88283	0.0227	-0.8428	0.47539	0.1195	0.3099
U3	KF	LAG5	6	3.42649	2.87516	0.2868	0.10722	0.36606	0.7814	0.0169
U3	KF	LAG6	9	7.96212	5.36209	0.1759	-0.4536	0.67287	0.5192	0.0538
U3	MGF	LAG0	4	6.40739	2.64413	0.0939	-0.0634	0.07835	0.4779	0.179
U3	MGF	LAG1	9	6.54869	1.58541	0.0033	-0.0645	0.04712	0.208	0.19
U3	MGF	LAG2	6	7.19905	2.44551	0.0321	-0.0764	0.0727	0.3412	0.1811
U3	MGF	LAG3	8	2.75195	1.60158	0.1294	0.04395	0.04663	0.3773	0.1126
U3	MGF	LAG4	8	5.41175	2.19582	0.0432	-0.0294	0.06459	0.6626	0.0288
U3	MGF	LAG5	6	6.67272	3.20966	0.0922	-0.0695	0.09258	0.4867	0.1013
U3	MGF	LAG6	10	1.84057	1.87563	0.3521	0.07458	0.05445	0.2039	0.1725
U3	NH3F	LAG0	3	4.40483	0.66108	0.0218	-0.064	0.35154	0.8724	0.0163
U3	NH3F	LAG1	7	4.96813	0.50356	<.0001	-0.3071	0.27284	0.3034	0.1743
U3	NH3F	LAG2	6	5.68174	0.3409	<.0001	-0.5284	0.16067	0.0218	0.6838
U3	NH3F	LAG3	7	3.97654	0.38272	<.0001	0.1976	0.20512	0.3726	0.134
U3	NH3F	LAG4	8	4.4174	0.52273	<.0001	-0.0005	0.27774	0.9987	0
U3	NH3F	LAG5	5	6.14521	0.58848	0.0005	-0.9103	0.28652	0.0336	0.7162
U3	NH3F	LAG6	9	5.35488	0.46485	<.0001	-0.5395	0.23939	0.0543	0.3883

U3	PH	LAG0	4	14.5327	19.8856	0.5178	-1.4885	2.88557	0.6416	0.0815
U3	PH	LAG1	8	-11.571	9.43511	0.2597	2.33221	1.3718	0.1329	0.2922
U3	PH	LAG2	6	-8.8056	31.6987	0.7923	1.94649	4.5901	0.6891	0.0347
U3	PH	LAG3	8	13.0861	7.92385	0.1426	-1.2884	1.15581	0.3018	0.1508
U3	PH	LAG4	8	7.25101	12.7478	0.5873	-0.4125	1.85514	0.8304	0.007
U3	PH	LAG5	6	-1.9513	12.8486	0.8852	0.90196	1.86349	0.6488	0.0448
U3	PH	LAG6	10	26.2583	8.26508	0.0112	-3.186	1.2045	0.0267	0.4374
U3	PO4F	LAG0	2	3.9422	0.69522	0.1111	43.5934	57.3408	0.5862	0.3663
U3	PO4F	LAG1	3	5.3752	0.58754	0.0117	-99.034	48.4488	0.1776	0.6763
U3	PO4F	LAG2	5	5.20305	0.43575	0.0003	-56.427	39.6338	0.2276	0.3363
U3	PO4F	LAG3	3	4.47518	0.54081	0.0143	-8.8999	39.6272	0.8432	0.0246
U3	PO4F	LAG4	6	3.85212	0.4462	0.0003	40.9131	43.3605	0.3887	0.1511
U3	PO4F	LAG5	3	4.71683	0.5959	0.0156	-45.787	52.1637	0.4727	0.2781
U3	PO4F	LAG6	5	4.61649	0.58183	0.0014	-37.899	52.5956	0.511	0.1149
U3	SO4F	LAG0	4	4.2172	0.32283	0.001	0.00323	0.01312	0.8213	0.0198
U3	SO4F	LAG1	9	4.48933	0.21704	<.0001	-0.0029	0.00293	0.3586	0.106
U3	SO4F	LAG2	6	4.09834	0.23904	<.0001	0.02619	0.0095	0.04	0.603
U3	SO4F	LAG3	8	4.17305	0.16941	<.0001	0.00225	0.00218	0.337	0.1317
U3	SO4F	LAG4	8	4.42067	0.26171	<.0001	-0.0001	0.00328	0.9773	0.0001
U3	SO4F	LAG5	6	4.45914	0.3751	<.0001	-0.016	0.02775	0.5884	0.0626
U3	SO4F	LAG6	10	4.20222	0.14897	<.0001	0.00605	0.0021	0.0183	0.4791
U3	SULF	LAG0	4	3.74883	0.73457	0.0146	0.06955	0.0932	0.5097	0.1566
U3	SULF	LAG1	8	3.63793	0.29803	<.0001	0.11124	0.04904	0.0576	0.4236
U3	SULF	LAG2	6	5.35624	0.51641	0.0001	-0.1214	0.0815	0.1965	0.3074
U3	SULF	LAG3	7	4.43337	0.40045	<.0001	-0.0165	0.05418	0.7716	0.0151
U3	SULF	LAG4	8	4.39159	0.49719	<.0001	0.00483	0.0858	0.9567	0.0005
U3	SULF	LAG5	6	4.85586	0.85179	0.0023	-0.0758	0.10747	0.5119	0.0906
U3	SULF	LAG6	10	4.83025	0.42933	<.0001	-0.0721	0.06585	0.3021	0.1175
U3	TKNF	LAG0	4	4.28837	0.94914	0.0203	-0.0027	0.19221	0.9896	0.0001
U3	TKNF	LAG1	9	4.64967	0.83696	0.0005	-0.0604	0.1902	0.7588	0.0125
U3	TKNF	LAG2	6	7.07473	0.64628	0.0001	-0.5367	0.14017	0.0123	0.7457
U3	TKNF	LAG3	8	4.50249	0.63482	0.0002	-0.056	0.13881	0.6988	0.0227
U3	TKNF	LAG4	8	4.08737	1.06934	0.0065	0.07912	0.25145	0.7622	0.0139
U3	TKNF	LAG5	6	5.78746	0.92594	0.0015	-0.3126	0.18804	0.1573	0.3559
U3	TKNF	LAG6	10	5.56861	0.76355	<.0001	-0.2676	0.1708	0.1516	0.2143
U3	TPF	LAG0	3	3.43966	0.25747	0.0056	52.2854	15.4177	0.077	0.8519
U3	TPF	LAG1	9	4.66283	0.56331	<.0001	-27.258	52.9158	0.6204	0.0321
U3	TPF	LAG2	5	4.73391	0.2571	<.0001	-21.114	17.9037	0.3036	0.258
U3	TPF	LAG3	8	4.29059	0.31728	<.0001	-3.0922	23.5703	0.8993	0.0025
U3	TPF	LAG4	7	4.60712	0.66935	0.0005	-9.7749	59.8532	0.8756	0.0044
U3	TPF	LAG5	6	4.39334	0.35106	<.0001	-10.223	24.5643	0.6945	0.0335
U3	TPF	LAG6	10	5.16183	0.38162	<.0001	-77.623	35.8059	0.0583	0.343

UNIVARIATE LAG 0-6
 PORE WATER
 LOG MOSQUITOFISH THg vs LOG Y
 BY STATION

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F1	LCAF	LAG0	5	51.4816	8.46053	0.0037	-8.8717	1.52214	0.0043	0.8947
F1	LCAF	LAG1	8	-7.3312	18.8244	0.7085	1.72839	3.4079	0.6276	0.0354
F1	LCAF	LAG2	7	22.6524	20.0314	0.3013	-3.644	3.61115	0.3519	0.1451
F1	LCAF	LAG3	7	-21.978	17.9046	0.2656	4.31228	3.22572	0.2297	0.2295
F1	LCAF	LAG4	8	20.0223	14.2377	0.2024	-3.2555	2.57144	0.246	0.1863
F1	LCAF	LAG5	6	8.9883	10.8892	0.4467	-1.2886	1.96274	0.5405	0.0794
F1	LCAF	LAG6	9	19.4428	19.7206	0.3531	-3.1029	3.55186	0.4078	0.0871
F1	LCLF	LAG0	5	25.4683	16.5794	0.1993	-3.7782	2.68877	0.2327	0.3305
F1	LCLF	LAG1	9	13.2008	15.6175	0.4225	-1.7942	2.53062	0.4985	0.0591
F1	LCLF	LAG2	7	30.1339	15.3548	0.0974	-4.4892	2.48871	0.1213	0.3516
F1	LCLF	LAG3	8	-11.727	13.2494	0.4055	2.20106	2.13604	0.3371	0.1317
F1	LCLF	LAG4	9	-10.204	14.4797	0.501	2.01181	2.34653	0.4162	0.0841
F1	LCLF	LAG5	7	8.39631	7.24351	0.2904	-1.0643	1.16946	0.3979	0.1213
F1	LCLF	LAG6	9	12.0896	20.7376	0.576	-1.6034	3.36763	0.6467	0.0276
F1	LDOC	LAG0	5	22.5492	19.1009	0.3032	-4.2426	3.97708	0.3462	0.2215
F1	LDOC	LAG1	8	-2.4374	11.3098	0.8355	0.97062	2.37043	0.6944	0.0234
F1	LDOC	LAG2	6	13.9533	5.1712	0.0429	-2.3592	1.05796	0.0762	0.4986
F1	LDOC	LAG3	8	-3.2443	9.89553	0.7526	1.08079	2.06906	0.6175	0.0375
F1	LDOC	LAG4	8	1.43475	6.67118	0.8358	0.11678	1.36125	0.934	0.0011
F1	LDOC	LAG5	7	-0.7951	2.32502	0.744	0.53264	0.47551	0.3055	0.173
F1	LDOC	LAG6	8	9.02189	11.5332	0.4597	-1.3991	2.40935	0.5796	0.046
F1	LFEF	LAG0	3	-0.414	1.36935	0.791	1.11352	0.50416	0.1578	0.7092
F1	LFEF	LAG1	6	-0.0943	1.50901	0.9526	0.79062	0.54885	0.2093	0.2933
F1	LFEF	LAG2	3	0.22529	1.68215	0.9057	1.11214	0.74693	0.2749	0.5257
F1	LFEF	LAG3	5	2.64152	0.37457	0.0021	-0.3763	0.13915	0.0538	0.6465
F1	LFEF	LAG4	5	0.60252	1.99369	0.7776	0.62492	0.78335	0.4697	0.1373
F1	LFEF	LAG5	3	1.36525	0.59361	0.1482	0.1257	0.26042	0.677	0.1043
F1	LFEF	LAG6	7	-1.0627	1.38577	0.4723	1.40865	0.57133	0.0487	0.5033
F1	LKF	LAG0	5	2.76309	1.14606	0.0735	-0.4411	0.79848	0.61	0.0709
F1	LKF	LAG1	8	2.74318	0.61848	0.003	-0.5158	0.46954	0.3084	0.147
F1	LKF	LAG2	7	2.83251	0.85742	0.0163	-0.3122	0.61295	0.6286	0.0415
F1	LKF	LAG3	7	1.48658	0.62207	0.054	0.33791	0.40866	0.4399	0.1023
F1	LKF	LAG4	8	2.41217	0.9145	0.0335	-0.1792	0.69092	0.8028	0.0095
F1	LKF	LAG5	7	2.39384	0.37716	0.0007	-0.3911	0.23786	0.1513	0.3106
F1	LKF	LAG6	7	2.53133	2.23335	0.3003	-0.0844	1.39738	0.9538	0.0006
F1	LMGF	LAG0	5	52.0261	5.4656	0.0007	-11.389	1.24856	0.0008	0.9541
F1	LMGF	LAG1	9	0.21786	14.2826	0.9882	0.43895	3.27628	0.8967	0.0022
F1	LMGF	LAG2	7	35.0182	25.1791	0.2137	-7.4582	5.76415	0.2433	0.2182
F1	LMGF	LAG3	8	-9.0732	13.8709	0.5339	2.50031	3.15346	0.4539	0.0824
F1	LMGF	LAG4	9	0.09977	15.8851	0.9951	0.48176	3.63165	0.8977	0.0022
F1	LMGF	LAG5	7	4.21113	8.73365	0.6468	-0.5469	1.98502	0.7922	0.0125
F1	LMGF	LAG6	9	9.77194	17.3285	0.5883	-1.7333	3.97503	0.6743	0.0232
F1	LNH3F	LAG0	5	2.15242	0.4541	0.009	-0.122	0.40387	0.7776	0.0223
F1	LNH3F	LAG1	8	2.07841	0.36552	0.0007	-0.3567	0.2968	0.2686	0.171
F1	LNH3F	LAG2	7	2.2653	0.3761	0.0009	-0.3996	0.31413	0.2504	0.2124

F1	LNH3F	LAG3	7	1.94583	0.34688	0.0014	0.08044	0.26996	0.7758	0.0146
F1	LNH3F	LAG4	8	1.99465	0.30455	0.0003	-0.0461	0.25316	0.8608	0.0047
F1	LNH3F	LAG5	6	1.90547	0.13767	<.0001	-0.1815	0.11403	0.1724	0.3362
F1	LNH3F	LAG6	9	2.28146	0.39998	0.0005	-0.1075	0.34616	0.7641	0.0119
F1	LPH	LAG0	5	-52.669	27.5368	0.1284	28.4203	14.2681	0.1172	0.498
F1	LPH	LAG1	8	39.9816	34.5815	0.2855	-19.452	17.8181	0.3111	0.1455
F1	LPH	LAG2	7	-25.045	42.9681	0.5812	14.2441	22.2653	0.546	0.0639
F1	LPH	LAG3	8	26.0436	35.8821	0.4915	-12.418	18.4713	0.523	0.0606
F1	LPH	LAG4	9	-9.1612	20.81	0.6714	5.90332	10.8053	0.5997	0.036
F1	LPH	LAG5	7	14.8016	17.2596	0.424	-6.7353	8.94439	0.4799	0.0863
F1	LPH	LAG6	9	-15.152	20.5367	0.4817	8.98014	10.6165	0.4222	0.0821
F1	LPO4F	LAG0	4	-0.1104	2.61494	0.969	-1.0731	1.17817	0.4295	0.2166
F1	LPO4F	LAG1	8	2.80773	1.47767	0.0992	0.27416	0.56299	0.6412	0.0328
F1	LPO4F	LAG2	7	-0.0817	0.66422	0.9062	-1.2142	0.30383	0.0071	0.7269
F1	LPO4F	LAG3	7	2.57703	1.02889	0.0462	0.2402	0.39862	0.5689	0.0571
F1	LPO4F	LAG4	9	0.959	0.85083	0.2924	-0.602	0.38361	0.1552	0.2354
F1	LPO4F	LAG5	6	2.05157	0.31834	0.0013	0.11709	0.14348	0.4516	0.1175
F1	LPO4F	LAG6	8	1.44788	0.75953	0.0983	-0.3058	0.38053	0.4481	0.0844
F1	LSO4F	LAG0	5	0.31114	0.77498	0.7086	0.61819	0.23978	0.0614	0.6243
F1	LSO4F	LAG1	9	1.3192	0.90783	0.1843	0.2976	0.30988	0.365	0.1034
F1	LSO4F	LAG2	7	1.14981	1.11645	0.3428	0.48464	0.39721	0.2682	0.1988
F1	LSO4F	LAG3	8	2.34819	0.75551	0.0171	-0.1654	0.26967	0.559	0.051
F1	LSO4F	LAG4	9	1.98998	0.87635	0.0528	0.08146	0.30298	0.7948	0.009
F1	LSO4F	LAG5	7	1.2572	0.35944	0.0129	0.23827	0.14744	0.1572	0.3033
F1	LSO4F	LAG6	9	1.13535	0.65453	0.121	0.48415	0.26286	0.1028	0.2978
F1	LSULF	LAG0	5	0.77773	2.61276	0.7808	0.77317	1.42308	0.6158	0.0687
F1	LSULF	LAG1	9	3.47502	1.40413	0.0384	-0.8072	0.81949	0.3535	0.1082
F1	LSULF	LAG2	7	4.47577	1.49238	0.024	-1.2914	0.92262	0.2111	0.2462
F1	LSULF	LAG3	8	1.79539	1.73316	0.3347	0.0698	0.93805	0.9428	0.0008
F1	LSULF	LAG4	9	-0.3018	1.47979	0.8435	1.45185	0.83921	0.1219	0.2723
F1	LSULF	LAG5	7	2.09209	0.77052	0.0349	-0.156	0.41191	0.7179	0.0234
F1	LSULF	LAG6	9	-0.0872	1.34541	0.9499	1.37611	0.78416	0.1174	0.278
F1	LTKNF	LAG0	5	6.16589	5.22888	0.3037	-1.9471	2.54434	0.4868	0.1277
F1	LTKNF	LAG1	9	3.5843	4.67163	0.465	-0.7261	2.32736	0.763	0.012
F1	LTKNF	LAG2	7	7.31352	3.6214	0.09	-2.4315	1.79947	0.2253	0.2333
F1	LTKNF	LAG3	8	0.95113	3.40886	0.7883	0.46646	1.63073	0.7831	0.0116
F1	LTKNF	LAG4	9	3.48925	3.49242	0.347	-0.6205	1.68119	0.7216	0.0167
F1	LTKNF	LAG5	7	3.08104	1.13133	0.0345	-0.6023	0.53054	0.2996	0.1768
F1	LTKNF	LAG6	9	4.33578	3.04089	0.1917	-0.9727	1.38769	0.5032	0.0579
F1	LTPF	LAG0	5	1.00101	1.88742	0.6239	-0.593	0.92648	0.5569	0.0929
F1	LTPF	LAG1	9	3.13802	1.31691	0.0443	0.45075	0.56971	0.4517	0.0726
F1	LTPF	LAG2	7	0.13453	0.57361	0.8224	-1.1934	0.27884	0.0052	0.7533
F1	LTPF	LAG3	8	2.34607	1.08474	0.0673	0.19274	0.47383	0.6963	0.0231
F1	LTPF	LAG4	9	1.12022	0.94684	0.2707	-0.5915	0.48547	0.2578	0.1565
F1	LTPF	LAG5	7	2.09603	0.29248	0.0004	0.16771	0.15105	0.3094	0.1704
F1	LTPF	LAG6	8	1.74105	1.09291	0.1552	-0.2917	0.55034	0.6125	0.0386

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F2	LCAF	LAG0	3	26.9252	26.2445	0.4128	-4.5657	4.93313	0.4524	0.2999
F2	LCAF	LAG1	5	-41.909	45.1479	0.4058	8.37956	8.50313	0.3802	0.1954
F2	LCAF	LAG2	5	-26.435	40.6751	0.5512	5.41569	7.60461	0.5157	0.1125
F2	LCAF	LAG3	3	34.3606	57.6229	0.6115	-6.0268	10.8876	0.6355	0.1329
F2	LCAF	LAG4	6	16.7671	35.9389	0.6604	-2.7457	6.77735	0.7021	0.0318
F2	LCAF	LAG5	5	2.07147	21.1606	0.9267	0.0863	3.95632	0.9836	0.0001
F2	LCAF	LAG6	6	15.0997	31.337	0.6503	-2.3584	5.92446	0.707	0.0307
F2	LCLF	LAG0	3	66.3379	54.1745	0.3454	-10.89	9.26169	0.3607	0.4087
F2	LCLF	LAG1	6	15.0927	31.9313	0.6564	-2.1341	5.40462	0.7092	0.0302
F2	LCLF	LAG2	5	-37.526	62.284	0.5793	6.81533	10.597	0.5551	0.0937
F2	LCLF	LAG3	4	26.3637	42.5865	0.5797	-4.0405	7.16509	0.6122	0.0958
F2	LCLF	LAG4	7	2.7985	30.8341	0.9306	-0.0548	5.22551	0.992	0
F2	LCLF	LAG5	6	34.8116	33.422	0.3453	-5.4982	5.63841	0.3743	0.1598
F2	LCLF	LAG6	6	13.4179	45.7186	0.7809	-1.8335	7.76759	0.8228	0.011
F2	LDOC	LAG0	3	4.39937	20.8211	0.8522	-0.3834	4.53958	0.9404	0.0036
F2	LDOC	LAG1	5	-28.033	23.4613	0.2981	6.6402	5.12329	0.2647	0.2958
F2	LDOC	LAG2	4	-3.8361	24.8898	0.8873	1.40075	5.45172	0.8138	0.0215
F2	LDOC	LAG3	4	7.37837	37.6066	0.857	-1.117	8.35536	0.9021	0.0059
F2	LDOC	LAG4	6	-1.7964	22.511	0.9395	0.87871	4.91859	0.8652	0.0063
F2	LDOC	LAG5	6	14.406	19.3146	0.4893	-2.6537	4.20601	0.5558	0.0737
F2	LDOC	LAG6	6	7.45618	29.5223	0.8107	-1.0681	6.52888	0.8765	0.0053
F2	LFEF	LAG0	1	0.76522			0.79237			1
F2	LFEF	LAG1	4	4.67135	1.76815	0.0775	-0.8443	0.5741	0.2378	0.4189
F2	LFEF	LAG2	3	1.01059	2.19042	0.6899	0.88716	0.84162	0.4024	0.3572
F2	LFEF	LAG3	2	0.53997	4.41709	0.9226	0.37031	1.2147	0.8116	0.085
F2	LFEF	LAG4	3	2.40899	2.10312	0.3706	0.02708	0.7229	0.9735	0.0007
F2	LFEF	LAG5	4	1.98592	2.47121	0.4804	0.22901	0.95501	0.8259	0.0188
F2	LFEF	LAG6	4	0.30888	2.27445	0.9006	0.79584	0.7301	0.3554	0.2837
F2	LKF	LAG0	3	2.33167	1.54156	0.2696	0.19522	0.86434	0.8423	0.0249
F2	LKF	LAG1	6	2.918	2.02726	0.2096	-0.2486	1.11316	0.8321	0.0099
F2	LKF	LAG2	5	3.79885	1.54478	0.0698	-0.7713	0.85535	0.4182	0.1689
F2	LKF	LAG3	4	0.44123	10.6777	0.9696	0.96943	5.4031	0.869	0.0106
F2	LKF	LAG4	7	0.41253	1.98585	0.8423	1.1567	1.0801	0.3254	0.1605
F2	LKF	LAG5	5	2.05197	1.57731	0.2632	0.14425	0.9481	0.8864	0.0058
F2	LKF	LAG6	6	-2.2668	2.40555	0.3893	2.73808	1.32405	0.0935	0.461
F2	LMGF	LAG0	3	20.344	18.9388	0.3951	-4.2087	4.50051	0.4484	0.3042
F2	LMGF	LAG1	6	-18.205	32.2027	0.5963	4.91847	7.65349	0.5488	0.0763
F2	LMGF	LAG2	5	-40.572	27.8061	0.2183	10.1582	6.55219	0.196	0.3754
F2	LMGF	LAG3	4	38.3899	32.8569	0.3271	-8.5978	7.83737	0.3528	0.2863
F2	LMGF	LAG4	7	-8.9127	28.4263	0.7645	2.71826	6.78402	0.7025	0.0261
F2	LMGF	LAG5	6	6.64979	18.9472	0.7399	-1.0464	4.47824	0.8245	0.0108
F2	LMGF	LAG6	6	33.4837	28.8328	0.2979	-7.4119	6.92465	0.3334	0.1864
F2	LNH3F	LAG0	3	3.22814	3.18847	0.4179	0.3253	1.72568	0.8679	0.0175
F2	LNH3F	LAG1	6	2.81973	0.8361	0.0198	0.31854	0.55853	0.5931	0.0611
F2	LNH3F	LAG2	5	4.24669	1.59692	0.0564	0.96271	0.82891	0.3101	0.2522
F2	LNH3F	LAG3	4	2.15459	2.99404	0.5237	-0.1202	1.76023	0.9499	0.0016
F2	LNH3F	LAG4	7	2.12866	0.7962	0.0369	-0.251	0.44061	0.5895	0.0513
F2	LNH3F	LAG5	6	0.56171	1.51472	0.726	-0.8504	0.73659	0.3005	0.2105
F2	LNH3F	LAG6	6	2.74483	1.23491	0.0769	0.07479	0.69255	0.9182	0.0023

F2	LPH	LAG0	3	-112.9	16.8643	0.0216	59.7043	8.71424	0.0206	0.9591
F2	LPH	LAG1	4	115.654	59.3339	0.1464	-58.376	30.5692	0.1522	0.5486
F2	LPH	LAG2	5	-103.4	95.7043	0.3407	54.7233	49.4386	0.3304	0.2345
F2	LPH	LAG3	4	53.004	88.3054	0.5907	-26.076	45.4584	0.6064	0.0988
F2	LPH	LAG4	6	11.848	73.4711	0.8782	-4.7702	38.0085	0.905	0.0031
F2	LPH	LAG5	6	-128.92	62.2587	0.0932	67.7249	32.1511	0.089	0.4702
F2	LPH	LAG6	6	-40.434	60.9391	0.5364	22.2198	31.4435	0.5113	0.0908
F2	LPO4F	LAG0	3	-0.5376	8.26348	0.954	-1.2209	3.16226	0.7366	0.0694
F2	LPO4F	LAG1	5	5.27699	2.28969	0.0825	1.19954	0.97863	0.2875	0.273
F2	LPO4F	LAG2	4	7.65169	5.07579	0.2288	2.13665	2.1432	0.3923	0.2489
F2	LPO4F	LAG3	3	2.83518	3.75056	0.5286	0.12142	1.19208	0.9282	0.0052
F2	LPO4F	LAG4	5	2.29286	2.24505	0.3649	0.01336	0.93493	0.9893	0.0001
F2	LPO4F	LAG5	4	2.79671	1.2909	0.1188	0.20832	0.41456	0.6499	0.0776
F2	LPO4F	LAG6	5	0.59577	1.66348	0.7383	-0.8235	0.55189	0.21	0.3576
F2	LSO4F	LAG0	3	-0.323	0.54427	0.6131	0.86912	0.15159	0.0291	0.9426
F2	LSO4F	LAG1	6	4.14311	1.4856	0.0385	-0.6149	0.51312	0.2845	0.2231
F2	LSO4F	LAG2	5	2.83533	3.79561	0.4966	-0.1137	1.38473	0.9385	0.0017
F2	LSO4F	LAG3	4	1.36658	1.99368	0.5423	0.32816	0.61627	0.6313	0.0864
F2	LSO4F	LAG4	7	2.60785	1.54025	0.1414	-0.0478	0.52175	0.9301	0.0014
F2	LSO4F	LAG5	6	0.71161	2.48283	0.7859	0.55283	0.88814	0.5609	0.0719
F2	LSO4F	LAG6	6	0.97178	1.59079	0.568	0.55583	0.50401	0.3203	0.1957
F2	LSULF	LAG0	3	4.88798	3.00222	0.245	-1.3201	1.72598	0.5243	0.2263
F2	LSULF	LAG1	6	2.21072	3.08989	0.5063	0.14223	1.56183	0.931	0.0017
F2	LSULF	LAG2	5	-5.6957	2.93995	0.1248	4.28405	1.51696	0.0476	0.666
F2	LSULF	LAG3	4	3.64928	2.83635	0.2885	-0.7314	1.54241	0.6678	0.0697
F2	LSULF	LAG4	7	0.64146	2.51766	0.8074	0.94811	1.27521	0.4853	0.0844
F2	LSULF	LAG5	6	4.11731	2.11764	0.1095	-0.9696	1.05518	0.4003	0.1445
F2	LSULF	LAG6	6	7.07235	2.01689	0.0172	-2.4989	1.10982	0.0741	0.5035
F2	LTKNF	LAG0	3	3.5655	9.34535	0.7395	-0.5147	5.19294	0.9301	0.0049
F2	LTKNF	LAG1	6	-2.6417	5.02473	0.6215	2.75964	2.6871	0.3515	0.1742
F2	LTKNF	LAG2	5	-3.5941	8.08514	0.6796	3.46476	4.56023	0.4897	0.1261
F2	LTKNF	LAG3	4	-1.6548	13.6198	0.911	2.27913	7.73481	0.7875	0.0281
F2	LTKNF	LAG4	7	3.01073	4.99212	0.5685	-0.2883	2.67382	0.9176	0.0019
F2	LTKNF	LAG5	6	8.36409	4.2972	0.1092	-3.5384	2.4631	0.2103	0.2922
F2	LTKNF	LAG6	6	-1.6628	10.2763	0.8778	2.47375	5.91598	0.6932	0.0338
F2	LTPF	LAG0	3	3.57332	7.35247	0.675	0.38804	3.04891	0.9104	0.008
F2	LTPF	LAG1	6	4.58485	2.07989	0.0787	0.91152	0.87026	0.3429	0.1799
F2	LTPF	LAG2	5	4.40175	2.15105	0.1101	0.74134	0.81368	0.4138	0.1719
F2	LTPF	LAG3	4	2.62248	4.29319	0.5845	0.09885	1.54331	0.953	0.0014
F2	LTPF	LAG4	7	2.05158	1.68729	0.2697	-0.1648	0.62356	0.8004	0.0115
F2	LTPF	LAG5	6	0.89624	2.22578	0.7038	-0.4544	0.74134	0.5667	0.0699
F2	LTPF	LAG6	6	4.89044	2.37439	0.0945	0.8155	0.83344	0.3728	0.1607

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F3	LCAF	LAG0	3	44.6485	56.1473	0.5099	-8.6815	11.7517	0.537	0.2144
F3	LCAF	LAG1	5	1.06042	27.7208	0.9713	0.41096	5.85462	0.9474	0.0012
F3	LCAF	LAG2	5	-107.86	74.0103	0.2188	23.1067	15.4243	0.2085	0.3594
F3	LCAF	LAG3	4	2.53978	29.3754	0.9365	0.06122	6.15488	0.9927	0
F3	LCAF	LAG4	6	-39.089	53.8663	0.5006	8.77327	11.2665	0.4714	0.1082
F3	LCAF	LAG5	4	3.30606	13.8513	0.8267	-0.0091	2.89658	0.9977	0
F3	LCAF	LAG6	7	-4.1344	27.2996	0.8846	1.49108	5.70541	0.8026	0.0113
F3	LCLF	LAG0	3	70.6042	26.5666	0.1172	-12.544	4.94174	0.1264	0.7631
F3	LCLF	LAG1	6	-17.468	38.3125	0.6676	3.83399	7.17603	0.616	0.054
F3	LCLF	LAG2	5	77.2929	76.0418	0.3669	-13.832	14.1598	0.384	0.1926
F3	LCLF	LAG3	5	-30.194	42.6007	0.5176	6.15617	7.94529	0.4817	0.1305
F3	LCLF	LAG4	7	3.9145	46.2572	0.9353	-0.1706	8.62349	0.9849	0.0001
F3	LCLF	LAG5	5	29.1652	30.9062	0.3988	-4.8562	5.72029	0.4437	0.1527
F3	LCLF	LAG6	7	-44.699	47.0212	0.3785	8.91662	8.78985	0.3495	0.1464
F3	LDOC	LAG0	3	8.48179	25.0179	0.7669	-1.3335	6.28089	0.8515	0.022
F3	LDOC	LAG1	5	4.86634	40.0638	0.9092	-0.4958	10.0773	0.9631	0.0006
F3	LDOC	LAG2	4	-10.886	40.3059	0.8046	3.47692	10.0796	0.7529	0.0381
F3	LDOC	LAG3	5	5.30797	38.5255	0.8971	-0.622	9.60121	0.9515	0.001
F3	LDOC	LAG4	6	33.7674	29.8514	0.3093	-7.7556	7.48492	0.3476	0.1768
F3	LDOC	LAG5	5	6.0232	23.2563	0.8084	-0.768	5.77205	0.9006	0.0044
F3	LDOC	LAG6	6	-15.073	31.2864	0.6503	4.54246	7.81928	0.5865	0.0632
F3	LFEF	LAG0	2	1.83306	0.43111	0.1471	0.44419	0.12265	0.1715	0.9292
F3	LFEF	LAG1	4	4.41275	2.44367	0.1687	-0.4579	0.67896	0.5483	0.1317
F3	LFEF	LAG2	4	4.49953	1.90021	0.0987	-0.3754	0.61822	0.5866	0.1094
F3	LFEF	LAG3	4	2.0481	2.45762	0.4658	0.23383	0.71426	0.7649	0.0345
F3	LFEF	LAG4	4	0.87527	1.79545	0.6593	0.5416	0.52103	0.375	0.2648
F3	LFEF	LAG5	3	1.85329	1.4176	0.3212	0.57249	0.53811	0.3988	0.3614
F3	LFEF	LAG6	6	2.44034	1.3339	0.1269	0.19539	0.41323	0.6562	0.0428
F3	LKF	LAG0	3	3.80445	5.41267	0.5549	-0.3001	2.55879	0.9173	0.0068
F3	LKF	LAG1	6	-1.0879	5.97973	0.8628	2.00014	2.91893	0.5237	0.0858
F3	LKF	LAG2	5	-12.462	5.06898	0.0698	7.21735	2.36117	0.0378	0.7002
F3	LKF	LAG3	5	14.0664	20.0254	0.5211	-5.3095	9.44546	0.604	0.0732
F3	LKF	LAG4	7	7.25211	7.46885	0.3691	-1.9984	3.50597	0.5894	0.0514
F3	LKF	LAG5	4	2.14229	14.1731	0.8894	0.36993	6.71667	0.9595	0.001
F3	LKF	LAG6	7	15.3779	15.7951	0.3679	-5.7858	7.38113	0.4629	0.0929
F3	LMGF	LAG0	3	42.3399	20.8059	0.1788	-10.603	5.63191	0.2004	0.6393
F3	LMGF	LAG1	6	-2.125	16.8319	0.9045	1.41324	4.63985	0.773	0.0182
F3	LMGF	LAG2	5	-159.26	42.0812	0.0194	43.6593	11.3216	0.0182	0.788
F3	LMGF	LAG3	5	3.2998	17.6214	0.8606	-0.1329	4.80343	0.9793	0.0002
F3	LMGF	LAG4	7	31.0499	23.7583	0.2391	-7.628	6.46026	0.2824	0.1886
F3	LMGF	LAG5	5	-10.983	14.5214	0.4916	3.78814	3.95259	0.3921	0.1867
F3	LMGF	LAG6	7	-2.0017	22.4922	0.932	1.35329	6.0853	0.8314	0.0082
F3	LNH3F	LAG0	3	3.06835	0.93754	0.082	-0.0391	0.33223	0.917	0.0069
F3	LNH3F	LAG1	5	2.84406	1.59058	0.1483	-0.0678	0.63142	0.9196	0.0029
F3	LNH3F	LAG2	5	3.01156	0.94589	0.0334	-0.0005	0.43455	0.9992	0
F3	LNH3F	LAG3	4	2.86134	1.10111	0.0805	0.01657	0.53171	0.9771	0.0003
F3	LNH3F	LAG4	6	2.7521	0.67859	0.0098	-0.0559	0.30313	0.8609	0.0068
F3	LNH3F	LAG5	4	3.32371	0.52673	0.008	0.04664	0.34265	0.9004	0.0061
F3	LNH3F	LAG6	7	2.71004	0.54965	0.0026	-0.285	0.41844	0.5211	0.0718

F3	LPH	LAG0	3	-31.837	28.2622	0.377	18.2586	14.7399	0.3411	0.4341
F3	LPH	LAG1	5	61.2481	47.6772	0.2683	-30.238	24.7999	0.2897	0.271
F3	LPH	LAG2	5	-79.616	24.9649	0.0332	43.0018	12.9917	0.0297	0.7325
F3	LPH	LAG3	5	100.478	45.3282	0.0909	-50.671	23.5167	0.0975	0.5372
F3	LPH	LAG4	7	23.9132	47.0211	0.6292	-10.901	24.5078	0.6721	0.0319
F3	LPH	LAG5	5	-30.52	40.88	0.4968	17.3368	21.1868	0.4591	0.1434
F3	LPH	LAG6	7	8.25453	47.2293	0.867	-2.7259	24.4986	0.915	0.0021
F3	LPO4F	LAG0	3	3.53421	2.60939	0.3083	0.07466	0.53143	0.9011	0.0098
F3	LPO4F	LAG1	5	-0.621	5.32772	0.9128	-0.7546	1.1039	0.5318	0.1046
F3	LPO4F	LAG2	4	4.15892	4.06755	0.3818	0.24525	0.86797	0.7959	0.0259
F3	LPO4F	LAG3	4	3.30394	4.87692	0.5467	0.10641	1.09198	0.9285	0.0032
F3	LPO4F	LAG4	5	-0.4527	3.71633	0.9089	-0.6914	0.76624	0.4179	0.1691
F3	LPO4F	LAG5	3	3.91441	1.84041	0.1673	0.19078	0.41583	0.6914	0.0952
F3	LPO4F	LAG6	6	3.60842	3.14485	0.3031	0.08297	0.72013	0.9128	0.0026
F3	LSO4F	LAG0	3	1.87886	0.82816	0.1514	0.34885	0.21481	0.2459	0.5687
F3	LSO4F	LAG1	6	4.17599	1.0362	0.01	-0.3793	0.31199	0.2783	0.2282
F3	LSO4F	LAG2	5	4.26366	1.39153	0.0375	-0.4895	0.51803	0.3982	0.1825
F3	LSO4F	LAG3	5	1.91859	1.2731	0.2063	0.2896	0.38953	0.4985	0.1214
F3	LSO4F	LAG4	7	2.99018	0.98224	0.0227	0.00319	0.30788	0.9921	0
F3	LSO4F	LAG5	5	4.42901	1.60232	0.0506	-0.5453	0.56531	0.3893	0.1887
F3	LSO4F	LAG6	7	1.88808	0.77231	0.0501	0.42317	0.27017	0.1683	0.2902
F3	LSULF	LAG0	3	3.34411	0.35227	0.0109	-0.1776	0.19703	0.4625	0.2889
F3	LSULF	LAG1	6	2.65174	0.59859	0.0068	0.24663	0.31535	0.4696	0.109
F3	LSULF	LAG2	5	1.46835	0.4863	0.0392	0.93186	0.25864	0.0227	0.7644
F3	LSULF	LAG3	5	3.31207	0.74718	0.0114	-0.2766	0.34396	0.4664	0.1391
F3	LSULF	LAG4	7	3.25872	0.55068	0.001	-0.1667	0.27306	0.5639	0.0585
F3	LSULF	LAG5	5	3.42421	0.88758	0.0182	-0.2641	0.41977	0.5634	0.0901
F3	LSULF	LAG6	7	3.36368	0.66846	0.0024	-0.2023	0.31643	0.5463	0.0638
F3	LTKNF	LAG0	3	1.49812	8.72262	0.8794	1.44921	7.55089	0.8655	0.0181
F3	LTKNF	LAG1	6	1.35786	4.14161	0.7563	1.37944	3.461	0.7067	0.0308
F3	LTKNF	LAG2	5	2.17896	3.46477	0.5635	0.71824	2.95799	0.8201	0.0145
F3	LTKNF	LAG3	5	-3.529	7.29034	0.6536	5.33272	6.12108	0.4328	0.1595
F3	LTKNF	LAG4	7	1.42285	2.3471	0.5666	1.28558	1.89242	0.5223	0.0714
F3	LTKNF	LAG5	5	8.51254	2.6136	0.0312	-5.018	2.33416	0.098	0.536
F3	LTKNF	LAG6	7	2.04138	2.44177	0.4352	0.77314	1.94893	0.7053	0.0256
F3	LTPF	LAG0	3	4.50871	2.65491	0.2316	0.32706	0.64404	0.662	0.1142
F3	LTPF	LAG1	6	-0.1807	3.63094	0.9622	-0.7823	0.88767	0.4185	0.1344
F3	LTPF	LAG2	5	5.45073	4.01329	0.246	0.60324	0.98657	0.5739	0.0855
F3	LTPF	LAG3	5	5.545	4.97894	0.3278	0.74206	1.34699	0.611	0.0705
F3	LTPF	LAG4	7	1.40283	2.69053	0.6208	-0.4116	0.68757	0.5713	0.0564
F3	LTPF	LAG5	5	-0.2408	3.57178	0.9495	-0.8362	0.93632	0.4223	0.1662
F3	LTPF	LAG6	7	6.06289	4.41796	0.2191	0.82145	1.18104	0.5127	0.0746

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F4	LCAF	LAG0	4	8.63433	13.3127	0.5628	-1.1401	2.82554	0.7136	0.0515
F4	LCAF	LAG1	9	3.95859	6.11318	0.5354	-0.1478	1.32816	0.9141	0.0015
F4	LCAF	LAG2	6	19.7827	11.3203	0.141	-3.4379	2.40175	0.2117	0.2907
F4	LCAF	LAG3	8	-6.8419	5.92933	0.2864	2.1624	1.27977	0.1349	0.2897
F4	LCAF	LAG4	8	5.75558	8.63508	0.5264	-0.5149	1.86313	0.7903	0.0108
F4	LCAF	LAG5	6	25.3401	8.56074	0.0315	-4.7086	1.81288	0.0484	0.5743
F4	LCAF	LAG6	10	7.41482	6.76212	0.3013	-0.8831	1.449	0.5573	0.0396
F4	LCLF	LAG0	4	7.8937	27.1252	0.79	-0.8791	5.15081	0.8753	0.0096
F4	LCLF	LAG1	9	-3.8902	6.63125	0.5736	1.38519	1.28057	0.3109	0.1276
F4	LCLF	LAG2	6	5.20777	12.8883	0.7029	-0.3078	2.43993	0.9045	0.0032
F4	LCLF	LAG3	8	-3.7162	6.36438	0.5776	1.31641	1.21576	0.3148	0.1435
F4	LCLF	LAG4	8	8.39508	7.10749	0.2761	-0.9617	1.35942	0.5022	0.0667
F4	LCLF	LAG5	6	13.2099	14.8362	0.414	-1.8964	2.78503	0.5262	0.0849
F4	LCLF	LAG6	10	10.3448	6.22268	0.1308	-1.3476	1.18894	0.2863	0.1249
F4	LDOC	LAG0	4	1.30353	11.7791	0.9189	0.49822	2.99177	0.8783	0.0092
F4	LDOC	LAG1	9	-3.3848	6.81913	0.633	1.71448	1.75356	0.3569	0.1067
F4	LDOC	LAG2	6	18.168	8.48946	0.0853	-3.6912	2.14771	0.1463	0.3714
F4	LDOC	LAG3	8	-4.4105	6.86159	0.5408	1.9277	1.74377	0.3055	0.1486
F4	LDOC	LAG4	8	1.0984	7.59563	0.8891	0.58009	1.93822	0.7734	0.0126
F4	LDOC	LAG5	6	23.0963	11.9104	0.1102	-5.0233	2.99295	0.1541	0.3604
F4	LDOC	LAG6	10	14.6478	5.47816	0.0255	-2.897	1.39726	0.068	0.3233
F4	LFEF	LAG1	7	3.9934	0.74836	0.0018	-0.2954	0.26107	0.301	0.1759
F4	LFEF	LAG2	3	3.43773	0.90051	0.0623	0.15192	0.3529	0.7088	0.0848
F4	LFEF	LAG3	4	3.45879	0.82794	0.025	-0.1158	0.29434	0.7203	0.0491
F4	LFEF	LAG4	6	3.53157	0.79775	0.0068	-0.0771	0.27813	0.7926	0.0152
F4	LFEF	LAG5	2	4.27765	2.75912	0.3647	-0.5461	1.47642	0.7745	0.1203
F4	LFEF	LAG6	8	2.94043	0.63287	0.0024	0.17108	0.23417	0.4888	0.0708
F4	LKF	LAG0	4	-3.1017	3.18155	0.4015	3.14867	1.56994	0.1386	0.5728
F4	LKF	LAG1	9	4.21669	2.58826	0.1419	-0.4771	1.31069	0.7253	0.0163
F4	LKF	LAG2	6	-3.4095	4.61517	0.4932	3.31226	2.18358	0.1897	0.3152
F4	LKF	LAG3	8	-0.1033	4.60195	0.9827	1.6551	2.32334	0.4993	0.0676
F4	LKF	LAG4	8	15.2263	4.67945	0.014	-5.6927	2.24501	0.0389	0.4788
F4	LKF	LAG5	6	5.41308	4.07572	0.2415	-1.1567	2.04252	0.5957	0.0603
F4	LKF	LAG6	9	6.8617	4.95291	0.2033	-1.7991	2.42832	0.4799	0.0642
F4	LMGF	LAG0	4	6.82528	11.2749	0.5877	-0.9826	3.10981	0.7727	0.0322
F4	LMGF	LAG1	9	2.9542	4.26067	0.5077	0.09254	1.21321	0.9411	0.0007
F4	LMGF	LAG2	6	12.1407	8.85343	0.2286	-2.3632	2.44357	0.3779	0.1576
F4	LMGF	LAG3	8	-2.8854	4.29715	0.5234	1.70673	1.2095	0.2011	0.2215
F4	LMGF	LAG4	8	4.68178	5.75446	0.4427	-0.3689	1.61703	0.8261	0.0074
F4	LMGF	LAG5	6	17.37	5.25975	0.0214	-3.9256	1.44721	0.0421	0.5954
F4	LMGF	LAG6	10	7.4382	4.28024	0.1163	-1.1579	1.19501	0.3579	0.0945
F4	LNH3F	LAG0	3	4.49729	0.68438	0.0224	0.6176	0.33379	0.2055	0.6312
F4	LNH3F	LAG1	8	3.41869	0.7327	0.0023	0.02884	0.341	0.935	0.001
F4	LNH3F	LAG2	5	2.83881	0.19542	0.0001	-0.4532	0.0858	0.0062	0.8746
F4	LNH3F	LAG3	7	2.77014	0.69026	0.007	-0.1295	0.31648	0.6967	0.0271
F4	LNH3F	LAG4	8	4.27465	0.54031	<.0001	0.43179	0.23647	0.1106	0.3226
F4	LNH3F	LAG5	5	3.25316	0.66158	0.0079	0.01741	0.27292	0.9522	0.001
F4	LNH3F	LAG6	10	2.37075	0.53261	0.0016	-0.4442	0.23979	0.097	0.276
F4	LPH	LAG0	4	-2.1033	43.5892	0.9645	2.78247	22.595	0.9098	0.005

F4	LPH	LAG1	8	-6.8754	37.9741	0.8615	5.30254	19.6713	0.7953	0.0103
F4	LPH	LAG2	6	-58.033	30.1988	0.1127	31.9065	15.6376	0.0968	0.4543
F4	LPH	LAG3	8	38.4222	26.1758	0.1856	-18.282	13.575	0.22	0.2058
F4	LPH	LAG4	8	49.7422	31.3846	0.157	-23.993	16.2382	0.183	0.2377
F4	LPH	LAG5	6	-42.324	26.5052	0.1712	23.5981	13.7665	0.1472	0.3701
F4	LPH	LAG6	10	-42.494	27.3118	0.1542	23.7798	14.1836	0.1279	0.238
F4	LPO4F	LAG0	2	6.65129	8.25364	0.5682	0.63804	1.67007	0.7677	0.1274
F4	LPO4F	LAG1	7	3.5116	2.29272	0.1765	0.0435	0.50571	0.9342	0.0012
F4	LPO4F	LAG2	4	2.23675	2.0121	0.3474	-0.2931	0.42626	0.5411	0.1361
F4	LPO4F	LAG3	4	2.22103	1.75514	0.2951	-0.1382	0.38262	0.7419	0.0417
F4	LPO4F	LAG4	6	7.01701	1.70191	0.0091	0.77644	0.35514	0.0805	0.4887
F4	LPO4F	LAG5	2	-9.1008	6.53915	0.3966	-2.6184	1.35924	0.3048	0.7877
F4	LPO4F	LAG6	7	1.63723	2.18043	0.4811	-0.35	0.46032	0.4759	0.0879
F4	LSO4F	LAG0	4	3.79106	1.24945	0.0561	-0.1739	0.39869	0.6921	0.0597
F4	LSO4F	LAG1	9	3.05077	0.99405	0.0154	0.08375	0.35446	0.8191	0.0069
F4	LSO4F	LAG2	6	2.11447	0.75616	0.0382	0.49614	0.24563	0.0994	0.4493
F4	LSO4F	LAG3	8	2.77785	1.05965	0.0343	0.13578	0.35676	0.7148	0.0203
F4	LSO4F	LAG4	8	4.81241	0.62994	0.0001	-0.5011	0.20825	0.047	0.4527
F4	LSO4F	LAG5	6	3.66473	0.98558	0.0137	-0.1928	0.33205	0.5866	0.0632
F4	LSO4F	LAG6	10	1.69676	0.62895	0.0245	0.58605	0.22258	0.0272	0.4351
F4	LSULF	LAG0	4	2.45053	0.94216	0.0803	0.43845	0.4823	0.4303	0.216
F4	LSULF	LAG1	8	2.96468	0.79718	0.0075	0.11525	0.42509	0.7941	0.0104
F4	LSULF	LAG2	6	4.61388	0.60294	0.0006	-0.5692	0.31023	0.126	0.4024
F4	LSULF	LAG3	7	2.78027	0.8233	0.0149	0.25597	0.42785	0.5715	0.0563
F4	LSULF	LAG4	8	2.53206	0.63997	0.0055	0.5012	0.35663	0.2027	0.2201
F4	LSULF	LAG5	6	3.02269	0.63361	0.005	0.04729	0.32097	0.8886	0.0043
F4	LSULF	LAG6	10	4.23482	0.45298	<.0001	-0.5594	0.249	0.0513	0.3593
F4	LTKNF	LAG0	4	0.61454	1.54024	0.7166	2.23455	1.2838	0.1801	0.5025
F4	LTKNF	LAG1	9	3.90123	0.8166	0.0014	-0.647	0.81351	0.4494	0.0733
F4	LTKNF	LAG2	6	6.5879	1.49515	0.007	-2.5382	1.2503	0.0981	0.4518
F4	LTKNF	LAG3	8	2.47155	0.73905	0.0123	0.69232	0.69703	0.3537	0.1235
F4	LTKNF	LAG4	8	1.83838	1.83742	0.3504	1.41305	1.67899	0.4278	0.0919
F4	LTKNF	LAG5	6	4.65136	1.47423	0.0252	-1.3365	1.26311	0.3384	0.183
F4	LTKNF	LAG6	10	5.37515	1.0084	0.0005	-1.9938	0.95154	0.0656	0.3279
F4	LTPF	LAG0	4	11.5747	2.13781	0.0124	1.80234	0.46272	0.03	0.8349
F4	LTPF	LAG1	9	1.66658	2.04717	0.4392	-0.3606	0.455	0.4509	0.0728
F4	LTPF	LAG2	6	2.56238	2.1249	0.2818	-0.2248	0.46433	0.6488	0.0448
F4	LTPF	LAG3	8	-0.2785	2.66256	0.9196	-0.7435	0.57204	0.2348	0.1944
F4	LTPF	LAG4	8	7.05842	1.80645	0.0058	0.82107	0.39951	0.0789	0.3763
F4	LTPF	LAG5	6	5.98095	3.02901	0.1053	0.60553	0.63688	0.3854	0.1531
F4	LTPF	LAG6	10	2.10996	1.83451	0.2797	-0.2562	0.39365	0.5315	0.0449

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
F5	LCAF	LAG0	2	11.0902	0.08875	0.0051	-1.6189	0.01897	0.0075	0.9999
F5	LCAF	LAG1	4	2.28655	21.3304	0.9214	0.30366	4.60588	0.9516	0.0014
F5	LCAF	LAG2	3	15.8631	9.36943	0.2325	-2.5977	2.00428	0.3244	0.4565
F5	LCAF	LAG3	3	6.16501	35.3398	0.8776	-0.5716	7.60561	0.9469	0.0028
F5	LCAF	LAG4	5	-15.75	12.5251	0.277	4.1878	2.71759	0.1982	0.3725
F5	LCAF	LAG5	3	-4.4314	6.7902	0.581	1.75342	1.45929	0.3525	0.4192
F5	LCAF	LAG6	5	32.8268	9.91478	0.0296	-6.2842	2.1335	0.0422	0.6844
F5	LCLF	LAG0	2	12.6364	0.29367	0.0148	-1.7278	0.05565	0.0205	0.999
F5	LCLF	LAG1	5	7.90207	9.934	0.4709	-0.8157	1.89846	0.6896	0.0441
F5	LCLF	LAG2	3	24.0705	8.4378	0.1041	-3.8759	1.60701	0.1374	0.7441
F5	LCLF	LAG3	4	10.7921	9.50216	0.3386	-1.3804	1.79707	0.4983	0.1644
F5	LCLF	LAG4	5	5.15107	10.8798	0.6606	-0.3083	2.0922	0.89	0.0054
F5	LCLF	LAG5	3	16.6264	12.6292	0.3186	-2.394	2.34299	0.4144	0.343
F5	LCLF	LAG6	6	10.0794	7.1355	0.2169	-1.2128	1.34609	0.4089	0.1397
F5	LDOC	LAG0	2	8.15576	0.22087	0.0172	-1.1804	0.05619	0.0303	0.9977
F5	LDOC	LAG1	5	-0.7201	11.1094	0.9514	1.09687	2.79655	0.7149	0.037
F5	LDOC	LAG2	3	10.1836	5.54408	0.2076	-1.6377	1.40426	0.3638	0.4048
F5	LDOC	LAG3	4	24.7658	7.09625	0.0398	-5.3448	1.78277	0.0578	0.7498
F5	LDOC	LAG4	5	-6.3103	6.39706	0.3798	2.52655	1.63854	0.1979	0.3728
F5	LDOC	LAG5	3	32.442	16.655	0.1908	-7.1006	4.11778	0.2268	0.5979
F5	LDOC	LAG6	6	24.0051	4.5999	0.0034	-5.1232	1.15761	0.0069	0.7966
F5	LFEF	LAG1	4	2.49033	0.73589	0.043	0.33448	0.19147	0.179	0.5043
F5	LFEF	LAG3	2	2.82875	1.87243	0.3722	0.14473	0.43797	0.7968	0.0984
F5	LFEF	LAG4	4	2.99117	0.56403	0.0131	0.20341	0.17296	0.3244	0.3156
F5	LFEF	LAG6	4	3.36084	0.69237	0.0167	0.08766	0.21533	0.7113	0.0523
F5	LKF	LAG0	2	-4.1676	0.55422	0.0842	3.51491	0.25334	0.0458	0.9948
F5	LKF	LAG1	5	4.76351	12.1448	0.7149	-0.5053	5.43919	0.9305	0.0022
F5	LKF	LAG2	3	-15.232	4.07589	0.0647	8.6565	1.8611	0.0432	0.9154
F5	LKF	LAG3	4	17.6631	6.95478	0.0847	-6.3773	3.1294	0.1343	0.5806
F5	LKF	LAG4	5	23.2772	12.248	0.1302	-8.9525	5.55709	0.1825	0.3935
F5	LKF	LAG5	3	21.8309	12.9364	0.2335	-8.3105	5.93677	0.2965	0.4949
F5	LKF	LAG6	6	7.13886	11.4355	0.5598	-1.5745	5.16475	0.7728	0.0182
F5	LMGF	LAG0	2	9.98851	0.66916	0.0426	-1.7755	0.1836	0.0656	0.9894
F5	LMGF	LAG1	5	9.31773	9.60675	0.387	-1.566	2.64652	0.5859	0.0805
F5	LMGF	LAG2	3	19.6593	4.67007	0.0521	-4.3854	1.28477	0.0762	0.8535
F5	LMGF	LAG3	4	3.19368	9.65667	0.7626	0.08233	2.62244	0.9769	0.0003
F5	LMGF	LAG4	5	-9.176	13.9161	0.5457	3.53531	3.86581	0.4122	0.1729
F5	LMGF	LAG5	3	-1.6077	9.30589	0.8787	1.45049	2.53088	0.6244	0.1411
F5	LMGF	LAG6	6	9.58547	8.73474	0.3225	-1.6128	2.37405	0.5271	0.0845
F5	LNH3F	LAG0	2	3.29962	0.19008	0.0366	-0.1291	0.09374	0.3998	0.6548
F5	LNH3F	LAG1	5	3.24628	0.35813	0.0008	-0.4477	0.30442	0.2153	0.351
F5	LNH3F	LAG2	2	3.46914	0.10619	0.0195	-0.322	0.06573	0.1282	0.96
F5	LNH3F	LAG3	4	3.3233	0.43321	0.0046	-0.1582	0.27844	0.6096	0.0972
F5	LNH3F	LAG4	4	3.84126	0.43289	0.003	0.23101	0.26488	0.4473	0.2023
F5	LNH3F	LAG5	3	3.52379	0.1817	0.0026	-0.3105	0.15699	0.1866	0.6617
F5	LNH3F	LAG6	6	3.46298	0.28392	<.0001	-0.2489	0.22849	0.3257	0.1918
F5	LPH	LAG0	2	-7.6893	8.42945	0.5292	5.78601	4.35091	0.4105	0.6388
F5	LPH	LAG1	4	11.4194	23.8853	0.6653	-3.9255	12.3787	0.7719	0.0324
F5	LPH	LAG2	3	-27.161	16.3254	0.2381	15.9476	8.42963	0.1991	0.6415

F5	LPH	LAG3	4	85.75	8.29228	0.0019	-42.819	4.31666	0.0022	0.9704
F5	LPH	LAG4	5	28.0056	18.5184	0.205	-12.658	9.58333	0.2571	0.3037
F5	LPH	LAG5	3	57.8239	40.7543	0.2917	-28.118	21.1816	0.3156	0.4684
F5	LPH	LAG6	6	-15.329	26.9779	0.5945	9.88642	14.0502	0.5131	0.0901
F5	LPO4F	LAG0	2	-1.211	2.80979	0.7409	-0.8847	0.52522	0.3411	0.7394
F5	LPO4F	LAG1	4	-3.0034	8.29456	0.7413	-1.3445	1.68732	0.4838	0.1747
F5	LPO4F	LAG2	2	-7.8067	1.25308	0.1013	-2.1937	0.23578	0.0682	0.9886
F5	LPO4F	LAG3	3	-3.4758	4.656	0.5332	-1.3536	0.92914	0.2825	0.5148
F5	LPO4F	LAG4	3	4.76111	4.75762	0.4224	0.24969	0.95339	0.8179	0.0332
F5	LPO4F	LAG5	3	-5.761	0.54356	0.0088	-1.8621	0.10664	0.0033	0.9935
F5	LPO4F	LAG6	5	6.1357	3.23431	0.1307	0.52271	0.64967	0.4662	0.1393
F5	LSO4F	LAG0	2	2.60208	0.21742	0.0531	0.27488	0.06404	0.1457	0.9485
F5	LSO4F	LAG1	5	3.39211	0.75497	0.0109	0.08752	0.24972	0.7437	0.0298
F5	LSO4F	LAG2	3	2.95814	0.68818	0.0501	0.27592	0.23673	0.364	0.4045
F5	LSO4F	LAG3	4	2.58708	0.69818	0.0341	0.31396	0.22475	0.2568	0.3941
F5	LSO4F	LAG4	5	4.04334	0.7219	0.005	-0.1562	0.21379	0.5054	0.1178
F5	LSO4F	LAG5	3	2.79124	1.04618	0.1164	0.34922	0.38313	0.4582	0.2935
F5	LSO4F	LAG6	6	2.53799	0.46486	0.0028	0.38246	0.14919	0.0504	0.5679
F5	LSULF	LAG0	2	3.55531	0.34228	0.0611	-0.0282	0.23333	0.9234	0.0144
F5	LSULF	LAG1	4	3.96244	0.61333	0.0075	-0.3179	0.3689	0.4522	0.1984
F5	LSULF	LAG2	3	5.85107	0.99501	0.0277	-1.2184	0.56321	0.163	0.7006
F5	LSULF	LAG3	3	4.09212	0.17128	0.0017	-0.4079	0.1414	0.1021	0.8062
F5	LSULF	LAG4	5	3.64833	0.57888	0.0032	-0.0682	0.35119	0.8555	0.0093
F5	LSULF	LAG5	3	4.2792	0.36281	0.0071	-0.3642	0.21194	0.2279	0.5962
F5	LSULF	LAG6	6	4.11305	0.40739	0.0002	-0.3124	0.23577	0.2424	0.2599
F5	LTKNF	LAG0	2	5.14791	0.79702	0.0978	-1.3891	0.6768	0.2886	0.8082
F5	LTKNF	LAG1	5	3.58062	1.62668	0.0925	0.04498	1.30619	0.9742	0.0003
F5	LTKNF	LAG2	3	5.87209	1.31061	0.0464	-1.6094	0.97235	0.2397	0.578
F5	LTKNF	LAG3	4	4.58106	1.68289	0.0724	-0.8589	1.31123	0.5592	0.1251
F5	LTKNF	LAG4	5	3.0827	1.21733	0.0645	0.3705	0.94595	0.7153	0.0369
F5	LTKNF	LAG5	3	5.08535	1.86163	0.112	-1.0461	1.41941	0.5379	0.2136
F5	LTKNF	LAG6	6	5.81775	0.81922	0.0009	-1.6585	0.61591	0.0432	0.5919
F5	LTPF	LAG0	2	-4.0759	4.44991	0.5279	-1.499	0.87805	0.3373	0.7445
F5	LTPF	LAG1	5	4.06895	3.71786	0.3352	0.09052	0.77423	0.9126	0.0034
F5	LTPF	LAG2	3	2.99807	3.2505	0.4537	-0.1496	0.66905	0.8438	0.0244
F5	LTPF	LAG3	4	-0.5356	5.52907	0.9289	-0.8179	1.11992	0.518	0.151
F5	LTPF	LAG4	5	6.61447	2.75025	0.074	0.62977	0.56288	0.3259	0.2384
F5	LTPF	LAG5	3	-6.1187	10.8199	0.6287	-1.9957	2.19344	0.4589	0.2927
F5	LTPF	LAG6	6	-0.5929	2.12911	0.7918	-0.8802	0.43963	0.1017	0.445

station	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
U3	LCAF	LAG0	4	15.6476	8.60245	0.1665	-2.5409	1.92163	0.2779	0.3682
U3	LCAF	LAG1	9	12.9833	6.89246	0.0964	-1.9228	1.54192	0.2477	0.1627
U3	LCAF	LAG2	6	26.0361	7.84796	0.0211	-4.8105	1.7639	0.0414	0.598
U3	LCAF	LAG3	8	3.28302	6.39003	0.6232	0.21698	1.42651	0.8834	0.0033
U3	LCAF	LAG4	8	2.35895	8.81063	0.7966	0.4619	1.97717	0.822	0.0077
U3	LCAF	LAG5	6	13.8303	10.7734	0.2555	-2.1413	2.41197	0.4153	0.1362
U3	LCAF	LAG6	10	-2.8914	7.45057	0.707	1.63001	1.6652	0.3532	0.0962
U3	LCLF	LAG0	4	0.04453	14.9557	0.9978	0.81961	2.897	0.7956	0.026
U3	LCLF	LAG1	9	2.20704	7.0814	0.7633	0.42504	1.37723	0.7655	0.0118
U3	LCLF	LAG2	6	11.9993	9.6794	0.2701	-1.4273	1.87587	0.4811	0.1038
U3	LCLF	LAG3	8	5.37181	5.84673	0.3888	-0.2157	1.12826	0.8538	0.0052
U3	LCLF	LAG4	8	7.76741	6.96224	0.3014	-0.6504	1.35074	0.6448	0.0321
U3	LCLF	LAG5	6	9.546	17.156	0.6019	-1.0123	3.28954	0.7707	0.0186
U3	LCLF	LAG6	10	15.7902	5.61	0.0202	-2.2084	1.08726	0.0728	0.3143
U3	LDOC	LAG0	4	6.39937	16.0525	0.7168	-0.5615	4.24312	0.9031	0.0058
U3	LDOC	LAG1	9	-1.4761	6.90309	0.836	1.55526	1.82897	0.4199	0.0829
U3	LDOC	LAG2	6	21.5	12.6176	0.1491	-4.4264	3.3115	0.2389	0.2633
U3	LDOC	LAG3	8	4.16101	6.39893	0.5363	0.02466	1.68409	0.9887	0
U3	LDOC	LAG4	8	2.42337	8.44543	0.7825	0.52328	2.2164	0.8201	0.0079
U3	LDOC	LAG5	6	-3.0676	10.9245	0.7901	1.91276	2.8486	0.5317	0.0827
U3	LDOC	LAG6	10	22.9509	5.28664	0.0019	-4.8767	1.38939	0.0066	0.5779
U3	LFEF	LAG0	2	6.30234	0.9984	0.1	-0.9785	0.45147	0.2752	0.8245
U3	LFEF	LAG1	7	4.85093	0.51063	<.0001	-0.1419	0.15279	0.3889	0.1257
U3	LFEF	LAG2	4	5.07619	0.90732	0.0113	-0.1305	0.27784	0.6707	0.0685
U3	LFEF	LAG3	5	4.15545	0.44394	0.0007	0.06568	0.15003	0.6841	0.0457
U3	LFEF	LAG4	6	4.14066	0.67451	0.0017	0.08394	0.19197	0.6802	0.0368
U3	LFEF	LAG5	3	4.89526	0.94027	0.035	-0.363	0.48962	0.5357	0.2156
U3	LFEF	LAG6	8	4.04753	0.4185	<.0001	0.14655	0.13171	0.3026	0.1503
U3	LKF	LAG0	4	-3.1969	6.94531	0.6766	3.63684	3.37912	0.3607	0.2786
U3	LKF	LAG1	9	-5.453	8.49437	0.5389	4.72917	4.07954	0.2798	0.1438
U3	LKF	LAG2	6	-8.2796	4.19574	0.1055	6.21545	2.01815	0.0275	0.6548
U3	LKF	LAG3	8	11.3782	5.43191	0.0745	-3.4291	2.61388	0.2309	0.1973
U3	LKF	LAG4	8	19.1663	8.07273	0.0493	-7.0307	3.847	0.1103	0.323
U3	LKF	LAG5	6	2.57973	6.04868	0.6875	0.82015	2.93885	0.7914	0.0153
U3	LKF	LAG6	9	11.4804	11.1379	0.3328	-3.4378	5.36869	0.5399	0.0488
U3	LMGF	LAG0	4	11.5113	9.01111	0.2913	-2.0598	2.56445	0.4806	0.177
U3	LMGF	LAG1	9	11.702	5.45315	0.0642	-2.0873	1.55616	0.2166	0.1836
U3	LMGF	LAG2	6	14.1336	8.37083	0.1521	-2.7065	2.38484	0.3079	0.2048
U3	LMGF	LAG3	8	-0.9668	5.41924	0.8635	1.48028	1.53576	0.3672	0.1172
U3	LMGF	LAG4	8	7.68374	7.63103	0.3475	-0.9292	2.16936	0.6813	0.0255
U3	LMGF	LAG5	6	12.9194	11.1206	0.2978	-2.4421	3.13837	0.4717	0.108
U3	LMGF	LAG6	10	-4.3309	6.51753	0.523	2.47222	1.84495	0.2131	0.1663
U3	LNH3F	LAG0	3	4.32774	0.32245	0.0055	-0.0993	0.40314	0.8285	0.0294
U3	LNH3F	LAG1	7	4.54877	0.26636	<.0001	-0.2611	0.37501	0.5124	0.0747
U3	LNH3F	LAG2	6	5.00427	0.14606	<.0001	-0.6769	0.17635	0.0121	0.7466
U3	LNH3F	LAG3	7	4.2506	0.19226	<.0001	0.16485	0.26468	0.5563	0.0607
U3	LNH3F	LAG4	8	4.37104	0.24716	<.0001	0.12925	0.3206	0.6989	0.0227
U3	LNH3F	LAG5	5	5.45722	0.43016	0.0002	-1.6838	0.60505	0.0497	0.6594
U3	LNH3F	LAG6	9	4.7795	0.19703	<.0001	-0.8118	0.27603	0.0187	0.5195

U3	LPH	LAG0	4	23.9391	38.3117	0.5764	-10.188	19.8487	0.6432	0.0807
U3	LPH	LAG1	8	-25.916	17.9513	0.192	15.7592	9.31058	0.1344	0.2904
U3	LPH	LAG2	6	-21.372	61.0849	0.7407	13.4596	31.6119	0.688	0.035
U3	LPH	LAG3	8	21.052	15.1005	0.2059	-8.7272	7.84518	0.3027	0.1502
U3	LPH	LAG4	8	9.7444	24.1778	0.699	-2.7647	12.5458	0.8319	0.0069
U3	LPH	LAG5	6	-7.557	24.9199	0.7739	6.1245	12.9076	0.6552	0.0431
U3	LPH	LAG6	10	46.1759	15.6645	0.0163	-21.694	8.13415	0.0257	0.4414
U3	LPO4F	LAG0	2	5.88134	3.10568	0.3093	0.31202	0.64521	0.7132	0.1895
U3	LPO4F	LAG1	3	-0.9177	2.4367	0.7427	-1.1426	0.54027	0.1687	0.691
U3	LPO4F	LAG2	5	1.74647	1.62119	0.342	-0.606	0.33449	0.1443	0.4507
U3	LPO4F	LAG3	3	3.7287	2.16109	0.2266	-0.1426	0.48496	0.7964	0.0414
U3	LPO4F	LAG4	6	5.962	1.72221	0.018	0.36031	0.35725	0.3595	0.169
U3	LPO4F	LAG5	3	2.23443	2.55979	0.4748	-0.4257	0.53464	0.5094	0.2407
U3	LPO4F	LAG6	5	2.1203	2.27501	0.4041	-0.4534	0.48917	0.4064	0.1768
U3	LSO4F	LAG0	4	4.29277	0.80035	0.0127	-0.0068	0.30018	0.9833	0.0002
U3	LSO4F	LAG1	9	4.63777	0.54207	<.0001	-0.0922	0.18868	0.6381	0.029
U3	LSO4F	LAG2	6	3.55227	0.65529	0.0029	0.39302	0.22907	0.1469	0.3706
U3	LSO4F	LAG3	8	3.68635	0.39384	<.0001	0.20747	0.13454	0.167	0.2536
U3	LSO4F	LAG4	8	4.4588	0.62551	0.0002	-0.0143	0.19772	0.9445	0.0007
U3	LSO4F	LAG5	6	4.86871	0.84703	0.0022	-0.255	0.35159	0.5008	0.0952
U3	LSO4F	LAG6	10	3.66526	0.41	<.0001	0.27843	0.14405	0.0853	0.2933
U3	LSULF	LAG0	4	3.68015	1.36739	0.0743	0.30099	0.68286	0.6892	0.0608
U3	LSULF	LAG1	8	3.71919	0.32648	<.0001	0.3472	0.19333	0.1156	0.3154
U3	LSULF	LAG2	6	6.09137	0.9495	0.0014	-0.8458	0.54196	0.1794	0.3275
U3	LSULF	LAG3	7	4.49547	0.38759	<.0001	-0.1015	0.20655	0.6407	0.0387
U3	LSULF	LAG4	8	4.49439	0.53288	<.0001	-0.0529	0.3294	0.877	0.0037
U3	LSULF	LAG5	6	5.33868	1.7234	0.0269	-0.5283	0.84522	0.5594	0.0725
U3	LSULF	LAG6	10	5.08362	0.41789	<.0001	-0.42	0.23764	0.111	0.2577
U3	LTKNF	LAG0	4	4.38221	1.31443	0.0446	-0.0696	0.84345	0.9394	0.0023
U3	LTKNF	LAG1	9	4.69339	1.15054	0.0035	-0.2125	0.79759	0.7966	0.0088
U3	LTKNF	LAG2	6	7.97197	0.81921	0.0002	-2.2293	0.54301	0.0093	0.7712
U3	LTKNF	LAG3	8	4.55842	0.85808	0.0011	-0.2092	0.58073	0.7293	0.0182
U3	LTKNF	LAG4	8	3.92584	1.34431	0.0223	0.35042	0.94691	0.7223	0.0192
U3	LTKNF	LAG5	6	6.7935	1.49619	0.0062	-1.609	0.94848	0.1506	0.3653
U3	LTKNF	LAG6	10	6.39397	0.98427	0.0001	-1.3756	0.67085	0.0706	0.3184
U3	LTPF	LAG0	3	8.00069	1.32279	0.0263	0.87842	0.30617	0.103	0.8045
U3	LTPF	LAG1	9	3.44984	2.56155	0.215	-0.2012	0.54568	0.7218	0.0167
U3	LTPF	LAG2	5	2.90054	1.16105	0.0669	-0.3475	0.25532	0.2451	0.3165
U3	LTPF	LAG3	8	3.48782	1.31159	0.0325	-0.1663	0.28235	0.5744	0.0472
U3	LTPF	LAG4	7	4.00441	2.92951	0.2206	-0.1082	0.63173	0.8697	0.0049
U3	LTPF	LAG5	6	4.04678	1.42635	0.0364	-0.0483	0.31061	0.8824	0.0048
U3	LTPF	LAG6	10	1.2716	1.50812	0.421	-0.6618	0.3175	0.0668	0.3256

UNIVARIATE LAG AVE 0-6
 PORE WATER
 MOSQUITOFISH THg vs Y
 BY STATION

station	independent	month lag	df	intercept	se_int	p value	slope	se_slope	p value	r_square
			intercept			slope				
F1	CAF	avg_0_1	3	271.592	168.484	0.24829	-0.9466	0.62954	0.27156	0.5306
F1	CAF	avg_0_1_2	3	327.498	181.259	0.21254	-1.1731	0.68766	0.23015	0.5927
F1	CAF	avg_0_1_2_3	2	377.295	329.229	0.45676	-1.3313	1.23649	0.47651	0.5369
F1	CLF	avg_0_1	4	201.714	117.375	0.18419	-0.3592	0.22615	0.21041	0.4568
F1	CLF	avg_0_1_2	3	350.747	170.805	0.17641	-0.6557	0.33688	0.19099	0.6545
F1	CLF	avg_0_1_2_3	3	438.245	202.022	0.16229	-0.819	0.39404	0.17324	0.6835
F1	CLF	avg_0_1_2_3_4	2	170.945	865.226	0.87582	-0.2918	1.70926	0.89235	0.0283
F1	DOC	avg_0_1	4	53.9032	120.505	0.68498	-0.3051	0.9608	0.77163	0.0325
F1	DOC	avg_0_1_2	3	81.0425	69.1188	0.36175	-0.4711	0.51299	0.45543	0.2966
F1	DOC	avg_0_1_2_3	3	108.955	88.2349	0.34228	-0.6916	0.66947	0.41012	0.348
F1	DOC	avg_0_1_2_3_4	2	202.026	29.079	0.09101	-1.2629	0.20359	0.10175	0.9747
F1	KF	avg_0_1	3	101.221	133.784	0.52827	-17.957	28.8785	0.5975	0.162
F1	KF	avg_0_1_2	2	223.191	232.784	0.51339	-38.879	45.1544	0.54745	0.4257
F1	MGF	avg_0_1	4	306.304	138.3	0.11359	-3.5159	1.6713	0.12612	0.596
F1	MGF	avg_0_1_2	3	625.225	111.023	0.03011	-7.5024	1.37258	0.03188	0.9373
F1	MGF	avg_0_1_2_3	3	719.629	104.79	0.02055	-8.4944	1.26944	0.02161	0.9572
F1	MGF	avg_0_1_2_3_4	2	1529.08	1900.82	0.56873	-18.407	23.2343	0.57348	0.3856
F1	NH3F	avg_0_1	3	35.0153	24.6281	0.29101	-8.9639	11.212	0.50787	0.2422
F1	NH3F	avg_0_1_2	3	36.79	24.7777	0.27589	-10.976	12.6095	0.47583	0.2748
F1	NH3F	avg_0_1_2_3	2	72.5343	3.70845	0.03252	-22.359	1.50716	0.04285	0.9955
F1	PH	avg_0_1	4	-2311.6	3062.92	0.50526	336.141	442.36	0.50258	0.1614
F1	PH	avg_0_1_2	3	-4602.6	860.024	0.03319	666.259	123.988	0.03293	0.9352
F1	PH	avg_0_1_2_3	3	-4384.1	1955.24	0.15418	634.772	281.885	0.15315	0.7172
F1	PH	avg_0_1_2_3_4	2	-1527.4	2146.23	0.60624	224.664	310.93	0.60166	0.343
F1	PO4F	avg_0_1	3	2.46842	50.9729	0.96578	137.446	426.921	0.77803	0.0493
F1	PO4F	avg_0_1_2	2	53.9476	54.5139	0.50332	-222.9	358.957	0.64623	0.2783
F1	PO4F	avg_0_1_2_3	2	42.6706	48.6166	0.54141	-140.02	302.528	0.72405	0.1764
F1	SO4F	avg_0_1	4	-2.9045	5.67616	0.64415	0.72577	0.15091	0.01712	0.8852
F1	SO4F	avg_0_1_2	3	-4.6799	7.96708	0.61641	0.96963	0.24353	0.05768	0.888
F1	SO4F	avg_0_1_2_3	3	-5.8248	9.25527	0.59343	1.21268	0.34693	0.073	0.8593
F1	SO4F	avg_0_1_2_3_4	2	-4.1243	0.6413	0.0982	1.50298	0.02619	0.01109	0.9997
F1	SULF	avg_0_1	4	13.6505	62.484	0.84108	0.36714	10.3521	0.97394	0.0004
F1	SULF	avg_0_1_2	3	59.5339	76.9482	0.52005	-7.0106	12.9857	0.64336	0.1272
F1	SULF	avg_0_1_2_3	3	128.452	104.935	0.34554	-18.183	17.2677	0.40278	0.3567
F1	SULF	avg_0_1_2_3_4	2	381.468	21.3521	0.0356	-55.021	3.27223	0.03782	0.9965
F1	TKNF	avg_0_1	4	63.9987	75.1408	0.45696	-6.0483	9.32442	0.56279	0.123
F1	TKNF	avg_0_1_2	3	101.734	85.9551	0.3582	-10.511	10.7631	0.43177	0.3229
F1	TKNF	avg_0_1_2_3	3	114.446	92.4645	0.34141	-11.837	11.3303	0.4058	0.3531
F1	TKNF	avg_0_1_2_3_4	2	194.086	64.1701	0.20328	-19.954	7.42935	0.22691	0.8783
F1	TPF	avg_0_1	4	-24.841	42.6434	0.60111	256.883	260.936	0.39748	0.2442
F1	TPF	avg_0_1_2	3	67.6282	62.8902	0.39473	-274.34	344.426	0.50927	0.2408
F1	TPF	avg_0_1_2_3	3	47.5015	48.0217	0.42684	-165.51	263.607	0.59422	0.1647
F1	TPF	avg_0_1_2_3_4	2	84.0932	34.1198	0.24538	-286.31	151.281	0.30945	0.7818

station	independent	month	df	intercept	se_int	p value	slope	se_slope	p value	r_square
		lag		intercept			slope			
F2	CLF	avg_0_1	2	286.42	229.879	0.43056	-0.6972	0.62264	0.46405	0.5563
F2	CLF	avg_0_1_2	2	434.815	354.159	0.43514	-1.0903	0.95252	0.45712	0.5672
F2	CLF	avg_0_1_2_3	2	724.344	169.189	0.14608	-1.8308	0.44574	0.15204	0.944
F2	CLF	avg_0_1_2_3_4	2	1684.95	751.799	0.26717	-4.3205	1.9626	0.27144	0.829
F2	CLF	avg_0_1_2_3_4_5	2	2335.9	625.134	0.16647	-6.0456	1.63894	0.16854	0.9315
F2	CLF	avg_0_1_2_3_4_5_6	2	3092.31	3346.07	0.52508	-8.109	8.86073	0.52818	0.4558
F2	DOC	avg_0_1	2	-915.04	229.159	0.15622	10.4157	2.5237	0.15133	0.9445
F2	DOC	avg_0_1_2	2	-294.6	1379.56	0.86606	3.62215	15.3813	0.85276	0.0525
F2	DOC	avg_0_1_2_3	2	581.163	828.543	0.61059	-6.0882	9.15011	0.62624	0.3069
F2	DOC	avg_0_1_2_3_4	2	854.213	841.679	0.49529	-8.9698	9.15834	0.50662	0.4896
F2	DOC	avg_0_1_2_3_4_5	2	1636.03	989.055	0.34617	-17.257	10.627	0.35139	0.725
F2	DOC	avg_0_1_2_3_4_5_6	2	4582.66	2174.62	0.28206	-48.615	23.222	0.28369	0.8142
F2	KF	avg_0_1	2	-174.47	562.059	0.80839	26.7954	73.4793	0.77739	0.1174
F2	KF	avg_0_1_2	2	-91.537	200.668	0.72755	16.7955	27.4136	0.65006	0.2729
F2	KF	avg_0_1_2_3	2	-132.41	193.393	0.6178	22.9205	27.0291	0.55225	0.4183
F2	KF	avg_0_1_2_3_4	2	-254.44	144.729	0.32924	42.2162	21.3521	0.2981	0.7963
F2	MGF	avg_0_1	2	671.645	137.193	0.12827	-9.6897	2.06976	0.13397	0.9564
F2	MGF	avg_0_1_2	2	785.324	503.049	0.36269	-11.261	7.49699	0.37392	0.6929
F2	MGF	avg_0_1_2_3	2	1070.24	153.726	0.09082	-15.432	2.27982	0.09337	0.9786
F2	MGF	avg_0_1_2_3_4	2	1684.1	894.164	0.31073	-24.423	13.2018	0.31548	0.7739
F2	MGF	avg_0_1_2_3_4_5	2	19.5477	1705.97	0.99271	0.15841	25.4048	0.99603	0
F2	MGF	avg_0_1_2_3_4_5_6	2	-481.86	1583.54	0.81195	7.70131	23.8123	0.80087	0.0947
F2	NH3F	avg_0_1	2	167.884	44.3403	0.16439	-725.38	227.662	0.19361	0.9103
F2	NH3F	avg_0_1_2	2	65.0497	299.968	0.86405	-176.59	1510.1	0.92589	0.0135
F2	NH3F	avg_0_1_2_3	2	-59.229	194.624	0.81193	459.213	987.607	0.72292	0.1778
F2	NH3F	avg_0_1_2_3_4	2	-553.35	183.618	0.20397	2975.68	934.978	0.19381	0.9101
F2	NH3F	avg_0_1_2_3_4_5	2	77.3829	416.13	0.88295	-254.06	2232.93	0.92787	0.0128
F2	NH3F	avg_0_1_2_3_4_5_6	2	133.527	114.058	0.45004	-480.19	517.834	0.524	0.4623
F2	PH	avg_0_1	2	-2362.7	3189.82	0.59413	344.885	459.722	0.59025	0.3601
F2	PH	avg_0_1_2	2	-4345	1314.41	0.18701	629.223	189.029	0.18579	0.9172
F2	PH	avg_0_1_2_3	2	-6991.1	79.2502	0.00722	1012.07	11.4233	0.00719	0.9999
F2	PH	avg_0_1_2_3_4	2	-6383.7	4904.01	0.41702	926.323	708.257	0.41557	0.6311
F2	PH	avg_0_1_2_3_4_5	2	-7205.4	4900.38	0.38022	1043.98	707.035	0.37898	0.6856
F2	PH	avg_0_1_2_3_4_5_6	2	-6900.7	2434.52	0.21592	1001.71	351.854	0.21504	0.8902
F2	SO4F	avg_0_1	2	-1.4817	1.98718	0.59213	0.77626	0.03369	0.02761	0.9981
F2	SO4F	avg_0_1_2	2	-9.3661	2.28429	0.15229	1.22973	0.05449	0.02819	0.998
F2	SO4F	avg_0_1_2_3	2	-17.094	8.98498	0.30809	1.69225	0.26448	0.0987	0.9762
F2	SO4F	avg_0_1_2_3_4	2	-27.501	3.65041	0.08401	2.29086	0.12578	0.03492	0.997
F2	SO4F	avg_0_1_2_3_4_5	2	-33.575	4.16191	0.07851	2.6009	0.15073	0.03685	0.9967
F2	SO4F	avg_0_1_2_3_4_5_6	2	-33.852	1.56394	0.02939	2.73907	0.05943	0.01381	0.9995
F2	SULF	avg_0_1	2	101.765	64.4903	0.35959	-11.214	9.52849	0.44839	0.5807
F2	SULF	avg_0_1_2	2	140.576	114.695	0.43568	-17.056	17.3418	0.50528	0.4917
F2	SULF	avg_0_1_2_3	2	260.298	53.4708	0.12898	-34.388	7.91326	0.14399	0.9497
F2	SULF	avg_0_1_2_3_4	2	588.683	290.323	0.29168	-76.472	39.6973	0.30483	0.7877
F2	SULF	avg_0_1_2_3_4_5	2	170.567	267.889	0.63905	-19.348	36.7007	0.69113	0.2175
F2	SULF	avg_0_1_2_3_4_5_6	2	292.437	152.328	0.30572	-36.412	21.0245	0.33336	0.75
F2	TKNF	avg_0_1	2	129.854	425.658	0.8115	-17.589	74.9005	0.85316	0.0523
F2	TKNF	avg_0_1_2	2	381.852	615.895	0.64668	-63.364	110.851	0.66941	0.2463

F2	TKNF	avg_0_1_2_3	2	897.467	362.274	0.24425	-152.16	63.5175	0.25176	0.8516
F2	TKNF	avg_0_1_2_3_4	2	352.436	840.06	0.74711	-55.275	143.995	0.76666	0.1284
F2	TKNF	avg_0_1_2_3_4_5	2	1875.35	1791.06	0.48537	-322.77	313.279	0.4905	0.5149
F2	TKNF	avg_0_1_2_3_4_5_6	2	1934.92	1588.57	0.43762	-330.16	275.336	0.44251	0.5898
F2	TPF	avg_0_1	2	26.3994	185.045	0.90979	48.8245	2349.18	0.98677	0.0004
F2	TPF	avg_0_1_2	2	-27.645	103.756	0.83423	757.573	1306.44	0.66546	0.2516
F2	TPF	avg_0_1_2_3	2	-53.66	85.3911	0.64283	1191.38	1167.84	0.49365	0.51
F2	TPF	avg_0_1_2_3_4	2	-129.31	94.923	0.40313	2454.98	1438.22	0.33737	0.7445
F2	TPF	avg_0_1_2_3_4_5	2	-224.47	150.423	0.37585	4216.94	2475.4	0.33793	0.7437
F2	TPF	avg_0_1_2_3_4_5_6	2	-340.42	494.719	0.61631	6035.49	8045.14	0.59025	0.3601

station	dependent	independent	month	df	intercept	se_int	p value	slope	se_slope	p value	r_square
			lag		intercept			slope			
F3	mos_thg	CLF	avg_0_1	2	445.39	588.261	0.58744	-1.9106	2.70381	0.60838	0.333
F3	mos_thg	CLF	avg_0_1_2	2	1253.4	121.01	0.06127	-5.6618	0.55989	0.06275	0.9903
F3	mos_thg	CLF	avg_0_1_2_3	2	1844.8	263.177	0.09021	-8.3286	1.20764	0.09167	0.9794
F3	mos_thg	CLF	avg_0_1_2_3_4	2	-1661.9	3737.67	0.73365	7.82	17.2772	0.72942	0.17
F3	mos_thg	CLF	avg_0_1_2_3_4_5	2	1052.1	982.502	0.47822	-4.6882	4.50538	0.48734	0.5199
F3	mos_thg	CLF	avg_0_1_2_3_4_5_6	2	578.72	1992.23	0.82002	-2.5333	9.19456	0.82884	0.0706
F3	mos_thg	DOC	avg_0_1	2	434.95	256.709	0.33944	-7.3881	4.67838	0.35937	0.7138
F3	mos_thg	DOC	avg_0_1_2	2	1099.6	224.153	0.12802	-19.314	4.04636	0.13147	0.958
F3	mos_thg	DOC	avg_0_1_2_3	2	2159.8	2160.29	0.50007	-38.263	38.8069	0.50449	0.4929
F3	mos_thg	DOC	avg_0_1_2_3_4_5	2	668.92	904.544	0.59463	-11.463	16.2229	0.60838	0.333
F3	mos_thg	DOC	avg_0_1_2_3_4_5_6	2	1305.9	1469.05	0.53739	-23.012	26.4909	0.54467	0.4301
F3	mos_thg	KF	avg_0_1	2	318.06	272.258	0.4507	-36.921	34.8396	0.48154	0.529
F3	mos_thg	KF	avg_0_1_2	2	392.34	424.244	0.52486	-45.304	52.9922	0.54969	0.4223
F3	mos_thg	KF	avg_0_1_2_3	2	328.4	420.309	0.57776	-36.709	51.6462	0.60662	0.3356
F3	mos_thg	KF	avg_0_1_2_3_4	2	438.99	483.605	0.53076	-49.984	59.056	0.55285	0.4174
F3	mos_thg	MGF	avg_0_1	2	191.92	503.188	0.76803	-4.1034	12.7317	0.80151	0.0941
F3	mos_thg	MGF	avg_0_1_2	2	30.782	806.151	0.9757	-0.0236	20.1181	0.99925	0
F3	mos_thg	MGF	avg_0_1_2_3	2	-1062.1	2048.59	0.69551	27.207	51.0431	0.68824	0.2213
F3	mos_thg	MGF	avg_0_1_2_3_4	2	2246.8	834.491	0.2264	-55.759	20.9876	0.22918	0.8759
F3	mos_thg	MGF	avg_0_1_2_3_4_5	2	325.98	958.907	0.79138	-7.4502	24.1196	0.80928	0.0871
F3	mos_thg	MGF	avg_0_1_2_3_4_5_6	2	-294.13	835.604	0.78454	8.13979	20.9909	0.7645	0.1307
F3	mos_thg	PH	avg_0_1	2	1422.1	4445.65	0.80291	-205.04	654.729	0.80679	0.0893
F3	mos_thg	PH	avg_0_1_2	2	-4233.4	1706	0.24388	624.953	250.084	0.24233	0.862
F3	mos_thg	PH	avg_0_1_2_3	2	-1446.1	6414.07	0.85883	216.478	940.763	0.85601	0.0503
F3	mos_thg	PH	avg_0_1_2_3_4	2	25662	20992.9	0.4365	-3757	3077.09	0.43687	0.5985
F3	mos_thg	PH	avg_0_1_2_3_4_5	2	3112.1	9499.5	0.79846	-450.33	1387.91	0.80026	0.0952
F3	mos_thg	PH	avg_0_1_2_3_4_5_6	2	394.98	5439.4	0.95385	-53.298	793.959	0.95733	0.0045
F3	mos_thg	SO4F	avg_0_1	2	8.1589	5.80113	0.39348	0.35885	0.07471	0.13068	0.9585
F3	mos_thg	SO4F	avg_0_1_2	2	6.5126	6.5734	0.50296	0.53123	0.1199	0.14132	0.9515
F3	mos_thg	SO4F	avg_0_1_2_3	2	4.1056	9.75868	0.74648	0.6985	0.22084	0.19494	0.9091
F3	mos_thg	SO4F	avg_0_1_2_3_4	2	3.5379	9.18979	0.76605	0.81027	0.23712	0.18124	0.9211
F3	mos_thg	SO4F	avg_0_1_2_3_4_5	2	1.321	8.91728	0.90637	0.99377	0.26581	0.16638	0.9332
F3	mos_thg	SO4F	avg_0_1_2_3_4_5_6	2	-2.4915	8.20374	0.81229	1.22356	0.27323	0.13987	0.9525
F3	mos_thg	SULF	avg_0_1	2	45.413	20.0793	0.26503	-2.7145	2.71743	0.50034	0.4995
F3	mos_thg	SULF	avg_0_1_2	2	67.027	27.0541	0.24423	-5.7729	3.90138	0.37834	0.6865
F3	mos_thg	SULF	avg_0_1_2_3	2	98.184	25.3864	0.16108	-9.0347	3.25855	0.22037	0.8849
F3	mos_thg	SULF	avg_0_1_2_3_4	2	75.603	66.5851	0.45968	-5.4021	7.66772	0.60927	0.3317
F3	mos_thg	SULF	avg_0_1_2_3_4_5	2	69.211	52.2182	0.41149	-4.4749	5.7149	0.57709	0.3801
F3	mos_thg	SULF	avg_0_1_2_3_4_5_6	2	85.369	47.7008	0.32439	-5.8344	4.86505	0.44248	0.5899
F3	mos_thg	TKNF	avg_0_1	2	107.5	293.677	0.77661	-24.72	93.3162	0.83514	0.0656
F3	mos_thg	TKNF	avg_0_1_2	2	1434.4	780.571	0.31726	-456.36	253.6	0.3229	0.7641
F3	mos_thg	TKNF	avg_0_1_2_3	2	828.81	464.187	0.32502	-251.31	145.982	0.33501	0.7477
F3	mos_thg	TKNF	avg_0_1_2_3_4	2	81.694	281.589	0.82024	-15.907	86.2084	0.88384	0.0329
F3	mos_thg	TKNF	avg_0_1_2_3_4_5	2	281.01	318.917	0.54017	-78.152	99.1346	0.575	0.3833
F3	mos_thg	TKNF	avg_0_1_2_3_4_5_6	2	537.83	117.468	0.13689	-153.17	35.3965	0.14458	0.9493
F3	mos_thg	TPF	avg_0_1	2	51.786	40.2782	0.42083	-957.81	1624.04	0.66077	0.2581
F3	mos_thg	TPF	avg_0_1_2	2	89.355	58.3131	0.3681	-2440.4	2336.6	0.48617	0.5217
F3	mos_thg	TPF	avg_0_1_2_3	2	167.63	79.9346	0.28327	-5207.8	3002.24	0.33292	0.7506

F3	mos_thg	TPF	avg_0_1_2_3_4	2	110.58	165.643	0.62527	-2925.4	5973.29	0.71008	0.1934
F3	mos_thg	TPF	avg_0_1_2_3_4_5	2	133.07	164.762	0.56748	-3811.8	6057.81	0.64245	0.2836
F3	mos_thg	TPF	avg_0_1_2_3_4_5_6	2	272.3	143.764	0.30925	-8909.4	5272.04	0.34016	0.7407

station	independent	month	df	intercept	se_int	p value	slope	se_slope	p value	r_square
		lag		intercept			slope			
F3	CLF	avg_0_1	2	445.39	588.261	0.58744	-1.9106	2.70381	0.60838	0.333
F3	CLF	avg_0_1_2	2	1253.4	121.01	0.06127	-5.6618	0.55989	0.06275	0.9903
F3	CLF	avg_0_1_2_3	2	1844.8	263.177	0.09021	-8.3286	1.20764	0.09167	0.9794
F3	CLF	avg_0_1_2_3_4	2	-1661.9	3737.67	0.73365	7.82	17.2772	0.72942	0.17
F3	CLF	avg_0_1_2_3_4_5	2	1052.1	982.502	0.47822	-4.6882	4.50538	0.48734	0.5199
F3	CLF	avg_0_1_2_3_4_5_6	2	578.72	1992.23	0.82002	-2.5333	9.19456	0.82884	0.0706
F3	DOC	avg_0_1	2	434.95	256.709	0.33944	-7.3881	4.67838	0.35937	0.7138
F3	DOC	avg_0_1_2	2	1099.6	224.153	0.12802	-19.314	4.04636	0.13147	0.958
F3	DOC	avg_0_1_2_3	2	2159.8	2160.29	0.50007	-38.263	38.8069	0.50449	0.4929
F3	DOC	avg_0_1_2_3_4_5	2	668.92	904.544	0.59463	-11.463	16.2229	0.60838	0.333
F3	DOC	avg_0_1_2_3_4_5_6	2	1305.9	1469.05	0.53739	-23.012	26.4909	0.54467	0.4301
F3	KF	avg_0_1	2	318.06	272.258	0.4507	-36.921	34.8396	0.48154	0.529
F3	KF	avg_0_1_2	2	392.34	424.244	0.52486	-45.304	52.9922	0.54969	0.4223
F3	KF	avg_0_1_2_3	2	328.4	420.309	0.57776	-36.709	51.6462	0.60662	0.3356
F3	KF	avg_0_1_2_3_4	2	438.99	483.605	0.53076	-49.984	59.056	0.55285	0.4174
F3	MGF	avg_0_1	2	191.92	503.188	0.76803	-4.1034	12.7317	0.80151	0.0941
F3	MGF	avg_0_1_2	2	30.782	806.151	0.9757	-0.0236	20.1181	0.99925	0
F3	MGF	avg_0_1_2_3	2	-1062.1	2048.59	0.69551	27.207	51.0431	0.68824	0.2213
F3	MGF	avg_0_1_2_3_4	2	2246.8	834.491	0.2264	-55.759	20.9876	0.22918	0.8759
F3	MGF	avg_0_1_2_3_4_5	2	325.98	958.907	0.79138	-7.4502	24.1196	0.80928	0.0871
F3	MGF	avg_0_1_2_3_4_5_6	2	-294.13	835.604	0.78454	8.13979	20.9909	0.7645	0.1307
F3	PH	avg_0_1	2	1422.1	4445.65	0.80291	-205.04	654.729	0.80679	0.0893
F3	PH	avg_0_1_2	2	-4233.4	1706	0.24388	624.953	250.084	0.24233	0.862
F3	PH	avg_0_1_2_3	2	-1446.1	6414.07	0.85883	216.478	940.763	0.85601	0.0503
F3	PH	avg_0_1_2_3_4	2	25662	20992.9	0.4365	-3757	3077.09	0.43687	0.5985
F3	PH	avg_0_1_2_3_4_5	2	3112.1	9499.5	0.79846	-450.33	1387.91	0.80026	0.0952
F3	PH	avg_0_1_2_3_4_5_6	2	394.98	5439.4	0.95385	-53.298	793.959	0.95733	0.0045
F3	SO4F	avg_0_1	2	8.1589	5.80113	0.39348	0.35885	0.07471	0.13068	0.9585
F3	SO4F	avg_0_1_2	2	6.5126	6.5734	0.50296	0.53123	0.1199	0.14132	0.9515
F3	SO4F	avg_0_1_2_3	2	4.1056	9.75868	0.74648	0.6985	0.22084	0.19494	0.9091
F3	SO4F	avg_0_1_2_3_4	2	3.5379	9.18979	0.76605	0.81027	0.23712	0.18124	0.9211
F3	SO4F	avg_0_1_2_3_4_5	2	1.321	8.91728	0.90637	0.99377	0.26581	0.16638	0.9332
F3	SO4F	avg_0_1_2_3_4_5_6	2	-2.4915	8.20374	0.81229	1.22356	0.27323	0.13987	0.9525
F3	SULF	avg_0_1	2	45.413	20.0793	0.26503	-2.7145	2.71743	0.50034	0.4995
F3	SULF	avg_0_1_2	2	67.027	27.0541	0.24423	-5.7729	3.90138	0.37834	0.6865
F3	SULF	avg_0_1_2_3	2	98.184	25.3864	0.16108	-9.0347	3.25855	0.22037	0.8849
F3	SULF	avg_0_1_2_3_4	2	75.603	66.5851	0.45968	-5.4021	7.66772	0.60927	0.3317
F3	SULF	avg_0_1_2_3_4_5	2	69.211	52.2182	0.41149	-4.4749	5.7149	0.57709	0.3801
F3	SULF	avg_0_1_2_3_4_5_6	2	85.369	47.7008	0.32439	-5.8344	4.86505	0.44248	0.5899
F3	TKNF	avg_0_1	2	107.5	293.677	0.77661	-24.72	93.3162	0.83514	0.0656
F3	TKNF	avg_0_1_2	2	1434.4	780.571	0.31726	-456.36	253.6	0.3229	0.7641
F3	TKNF	avg_0_1_2_3	2	828.81	464.187	0.32502	-251.31	145.982	0.33501	0.7477
F3	TKNF	avg_0_1_2_3_4	2	81.694	281.589	0.82024	-15.907	86.2084	0.88384	0.0329
F3	TKNF	avg_0_1_2_3_4_5	2	281.01	318.917	0.54017	-78.152	99.1346	0.575	0.3833
F3	TKNF	avg_0_1_2_3_4_5_6	2	537.83	117.468	0.13689	-153.17	35.3965	0.14458	0.9493
F3	TPF	avg_0_1	2	51.786	40.2782	0.42083	-957.81	1624.04	0.66077	0.2581
F3	TPF	avg_0_1_2	2	89.355	58.3131	0.3681	-2440.4	2336.6	0.48617	0.5217
F3	TPF	avg_0_1_2_3	2	167.63	79.9346	0.28327	-5207.8	3002.24	0.33292	0.7506

F3	TPF	avg_0_1_2_3_4	2	110.58	165.643	0.62527	-2925.4	5973.29	0.71008	0.1934
F3	TPF	avg_0_1_2_3_4_5	2	133.07	164.762	0.56748	-3811.8	6057.81	0.64245	0.2836
F3	TPF	avg_0_1_2_3_4_5_6	2	272.3	143.764	0.30925	-8909.4	5272.04	0.34016	0.7407

station	independent	month	lag	df	intercept	se_int	pvalue_in	slope	se_slope	pvalue_slope	r_square
F4	CAF	avg_0_1		3	170.519	143.514	0.35674	-1.2389	1.27239	0.43292	0.3216
F4	CAF	avg_0_1_2		2	317.934	202.058	0.36042	-2.4932	1.77711	0.39423	0.6631
F4	CAF	avg_0_1_2_3		2	463.775	571.047	0.56576	-3.8801	5.16764	0.58999	0.3605
F4	CLF	avg_0_1		3	-98.256	331.902	0.79511	0.6466	1.65226	0.7333	0.0711
F4	CLF	avg_0_1_2		2	-474.19	429.382	0.46846	2.4921	2.0985	0.44554	0.5851
F4	CLF	avg_0_1_2_3		2	-383.69	340.119	0.46172	2.0315	1.64698	0.43369	0.6034
F4	DOC	avg_0_1		3	-117.89	247.68	0.68101	2.7756	4.59321	0.60708	0.1544
F4	DOC	avg_0_1_2		2	-219.05	566.327	0.76504	4.6816	10.4133	0.73103	0.1681
F4	DOC	avg_0_1_2_3		2	-219.63	600.893	0.77691	4.685	11.0329	0.74436	0.1528
F4	KF	avg_0_1		3	-101.37	305.251	0.7714	17.421	39.9745	0.7055	0.0867
F4	KF	avg_0_1_2		2	-147.86	515.836	0.82228	23.384	65.7708	0.78253	0.1122
F4	KF	avg_0_1_2_3		2	-380.56	561.548	0.62083	53.667	72.4111	0.59396	0.3545
F4	MGF	avg_0_1		3	125.836	134.686	0.44878	-2.4752	3.50948	0.55371	0.1992
F4	MGF	avg_0_1_2		2	214.062	261.629	0.56345	-4.6678	6.80708	0.61734	0.3198
F4	MGF	avg_0_1_2_3		2	174.898	576.773	0.81257	-3.6907	15.2342	0.84869	0.0554
F4	NH3F	avg_0_1		2	2.5429	40.8571	0.96043	136.92	148.988	0.52685	0.4579
F4	PH	avg_0_1		3	-1252.6	4960.93	0.82424	187.54	724.55	0.81996	0.0324
F4	PH	avg_0_1_2		2	-4124.2	3149.31	0.41517	606.69	459.337	0.41256	0.6356
F4	PH	avg_0_1_2_3		2	572.302	14524.3	0.97493	-78.431	2121.36	0.97647	0.0014
F4	SO4F	avg_0_1		3	53.9984	35.5177	0.2678	-1.4488	2.05712	0.55422	0.1987
F4	SO4F	avg_0_1_2		2	8.49325	65.6002	0.91803	1.3587	3.07714	0.73529	0.1632
F4	SO4F	avg_0_1_2_3		2	-11.206	62.78	0.88755	2.5117	3.189	0.57528	0.3828
F4	SULF	avg_0_1		3	-50.238	23.6798	0.16792	10.526	2.93938	0.0699	0.8651
F4	SULF	avg_0_1_2		2	16.0606	175.028	0.94175	2.463	22.1252	0.92942	0.0122
F4	SULF	avg_0_1_2_3		2	51.8168	171.277	0.81298	-2.1526	22.062	0.93808	0.0094
F4	TKNF	avg_0_1		3	-81.227	105.777	0.52281	35.287	32.8397	0.39502	0.366
F4	TKNF	avg_0_1_2		2	-14.077	199.911	0.95525	14.646	58.767	0.84451	0.0585
F4	TKNF	avg_0_1_2_3		2	-31.682	267.876	0.92505	20.64	82.1313	0.84326	0.0594
F4	TPF	avg_0_1		3	-75.231	8.5877	0.01278	11614	911.496	0.0061	0.9878
F4	TPF	avg_0_1_2		2	-49.765	132.463	0.77121	8750.9	13423.4	0.63221	0.2982
F4	TPF	avg_0_1_2_3		2	-6.7534	254.591	0.98312	4527.4	27248.6	0.89518	0.0269

No F5 Results are Valid

station	independent	month	df	intercept	se_int	p value	slope	se_slope	p value	r_square
		lag								
						intercept			slope	
U3	CAF	avg_0_1	3	462.14	169.679	0.1125	-4.3146	1.88558	0.1494	0.7236
U3	CAF	avg_0_1_2	2	621.44	180.42	0.1799	-6.1346	2.06018	0.2063	0.8987
U3	CAF	avg_0_1_2_3	2	700.66	128.665	0.1156	-7.1168	1.48555	0.131	0.9582
U3	CLF	avg_0_1	3	-247.71	233.242	0.3995	1.72712	1.24448	0.2996	0.4906
U3	CLF	avg_0_1_2	2	-348.21	215.297	0.3525	2.31518	1.14692	0.2928	0.8029
U3	CLF	avg_0_1_2_3	2	-399.27	517.862	0.5819	2.5389	2.71035	0.5208	0.4674
U3	DOC	avg_0_1	3	-344.79	345.852	0.4238	9.07756	7.46671	0.3481	0.425
U3	DOC	avg_0_1_2	2	-596.53	249.038	0.2518	14.7145	5.3686	0.2227	0.8825
U3	DOC	avg_0_1_2_3	2	-598.59	750.712	0.5715	14.5755	15.9913	0.5295	0.4538
U3	KF	avg_0_1	3	-1724.7	1221.04	0.2933	227.047	154.023	0.2784	0.5207
U3	KF	avg_0_1_2	2	-833.39	352.713	0.2549	115.535	44.3318	0.2332	0.8717
U3	KF	avg_0_1_2_3	2	-1389.8	660.264	0.2824	183.621	82.1753	0.2679	0.8331
U3	MGF	avg_0_1	3	476.68	254.114	0.2015	-11.654	7.3579	0.2541	0.5564
U3	MGF	avg_0_1_2	2	757.04	609.505	0.4315	-19.583	17.7536	0.4688	0.5489
U3	MGF	avg_0_1_2_3	2	2878.2	483.1	0.1059	-81.725	14.135	0.109	0.971
U3	NH3F	avg_0_1	2	193.98	255.854	0.587	-55.601	121.549	0.7269	0.173
U3	PH	avg_0_1	3	-2760.8	6877.01	0.7269	411.024	996.752	0.7201	0.0784
U3	PH	avg_0_1_2	2	64270	20662.3	0.198	-9311.1	2997.44	0.1983	0.9061
U3	PH	avg_0_1_2_3	2	5960.6	9677.65	0.6486	-852.73	1404.59	0.6526	0.2693
U3	SO4F	avg_0_1	3	107.24	79.8871	0.3115	-2.8977	6.86026	0.7138	0.0819
U3	SO4F	avg_0_1_2	2	96.825	110.582	0.5422	-1.0128	9.17003	0.93	0.0121
U3	SO4F	avg_0_1_2_3	2	9.5326	134.213	0.9549	6.13636	10.5943	0.6658	0.2512
U3	SULF	avg_0_1	3	-60.669	26.1883	0.1465	19.1988	3.59329	0.0333	0.9345
U3	SULF	avg_0_1_2	2	-109.23	260.058	0.7469	25.1832	33.4788	0.5894	0.3614
U3	SULF	avg_0_1_2_3	2	-25.481	187.398	0.914	14.9286	24.9365	0.6566	0.2638
U3	TKNF	avg_0_1	3	130.32	206.515	0.5925	-11.153	41.3739	0.8128	0.0351
U3	TKNF	avg_0_1_2	2	168.8	310.879	0.6833	-16.919	62.5676	0.8319	0.0681
U3	TKNF	avg_0_1_2_3	2	404.08	424.863	0.516	-66.425	88.3186	0.5895	0.3613
U3	TPF	avg_0_1	3	-58.316	51.8663	0.3777	9568.3	3624.3	0.1185	0.777
U3	TPF	avg_0_1_2	2	28.375	174.424	0.8973	3998.33	12036.9	0.7958	0.0994
U3	TPF	avg_0_1_2_3	2	201.16	274.355	0.5972	-8666.7	20368.9	0.7439	0.1533

PORE WATER
LAG 0 – 6
Mosquitofish THg vs Y
POOLED

independ	month_lag	df	intercept	se_int	p value	slope	se_slope	p value	r_square
		intercept				slope			
CAF	LAG0	26	74.4488	12.866	4.95E-06	-0.2532	0.07588	0.00265	0.3081
CAF	LAG1	45	85.3893	15.713	2.27E-06	-0.283	0.09973	0.00684	0.1547
CAF	LAG2	37	102.841	18.4028	2.47E-06	-0.3574	0.10912	0.00234	0.2296
CAF	LAG3	38	68.8059	11.7558	9.93E-07	-0.219	0.07399	0.00534	0.1915
CAF	LAG4	46	86.109	15.2478	1.04E-06	-0.318	0.09521	0.00169	0.1986
CAF	LAG5	35	75.3311	11.097	8.31E-08	-0.2695	0.06659	0.00028	0.3251
CAF	LAG6	52	82.5996	14.3161	4.70E-07	-0.2721	0.08965	0.00377	0.153
CAF	avg_0_1	16	75.1383	18.5715	0.001056	-0.2265	0.10987	0.05701	0.2208
CAF	avg_0_1_2	14	82.7766	21.2021	0.001812	-0.2588	0.12145	0.05277	0.2589
CAF	avg_0_1_2_3	10	88.9119	24.8145	0.005902	-0.2437	0.1447	0.12643	0.2396
CAF	avg_0_1_2_3_4	5	117.289	32.9401	0.023572	-0.4348	0.1897	0.08368	0.5677
CAF	avg_0_1_2_3_4_5	5	117.575	32.9743	0.023467	-0.4391	0.19109	0.08314	0.569
CAF	avg_0_1_2_3_4_5_6	5	117.772	32.8468	0.023054	-0.4432	0.19159	0.08172	0.5723
CLF	LAG0	26	69.0982	13.6225	3.09E-05	-0.1209	0.04443	0.01169	0.2284
CLF	LAG1	49	79.07	14.4439	1.58E-06	-0.135	0.04814	0.00724	0.1408
CLF	LAG2	37	98.2187	18.7737	7.39E-06	-0.1803	0.06125	0.00566	0.1939
CLF	LAG3	42	64.8318	10.7895	4.20E-07	-0.1062	0.03487	0.00405	0.1845
CLF	LAG4	49	77.2546	14.8252	3.91E-06	-0.1305	0.04864	0.00999	0.1304
CLF	LAG5	38	73.6093	11.2141	1.09E-07	-0.1414	0.03502	0.00026	0.3057
CLF	LAG6	53	85.9688	14.0148	1.18E-07	-0.1611	0.04806	0.0015	0.1778
CLF	avg_0_1	20	66.4917	16.3125	0.000644	-0.1032	0.04941	0.05052	0.1866
CLF	avg_0_1_2	17	69.4207	19.8567	0.002988	-0.1065	0.06109	0.10048	0.1596
CLF	avg_0_1_2_3	17	69.6023	19.9542	0.003039	-0.1056	0.06056	0.10051	0.1596
CLF	avg_0_1_2_3_4	14	71.4229	24.8401	0.01301	-0.1033	0.0759	0.19655	0.1248
CLF	avg_0_1_2_3_4_5	13	84.1161	26.2002	0.007485	-0.1575	0.08506	0.08878	0.2223
CLF	avg_0_1_2_3_4_5_6	13	84.6573	26.5725	0.007835	-0.1612	0.08742	0.08995	0.2209
DOC	LAG0	26	68.0425	13.562	3.57E-05	-0.4483	0.16902	0.01367	0.2196
DOC	LAG1	46	77.7556	16.3044	1.98E-05	-0.4939	0.21607	0.02701	0.104
DOC	LAG2	34	88.4908	16.7676	8.14E-06	-0.5077	0.19565	0.014	0.1695
DOC	LAG3	42	70.7378	11.4543	2.43E-07	-0.509	0.15048	0.00159	0.2182
DOC	LAG4	46	71.7705	13.8558	5.04E-06	-0.4338	0.16562	0.01198	0.1323
DOC	LAG5	38	61.3082	10.0191	4.33E-07	-0.3757	0.11376	0.00213	0.2277
DOC	LAG6	51	88.047	14.8278	2.73E-07	-0.64	0.19981	0.00237	0.1703
DOC	avg_0_1	20	65.1328	17.5782	0.001501	-0.397	0.21652	0.08242	0.1504
DOC	avg_0_1_2	17	67.7115	18.5921	0.002196	-0.3947	0.22129	0.09348	0.1658
DOC	avg_0_1_2_3	17	70.3649	19.2558	0.00214	-0.4297	0.23126	0.08168	0.1775
DOC	avg_0_1_2_3_4	14	72.2496	21.7382	0.005492	-0.4087	0.25106	0.1275	0.1694
DOC	avg_0_1_2_3_4_5	13	77.0142	22.5957	0.005189	-0.5041	0.27138	0.08792	0.2233
DOC	avg_0_1_2_3_4_5_6	13	77.942	22.9931	0.00537	-0.5207	0.27948	0.0871	0.2244
FEF	LAG0	14	29.0807	8.20985	0.00361	0.31981	0.19876	0.13162	0.1661
FEF	LAG1	37	44.1478	10.0672	9.65E-05	-0.0306	0.1306	0.81614	0.0015
FEF	LAG2	23	48.2384	16.4897	0.007835	0.38437	0.53516	0.48017	0.0229
FEF	LAG3	27	26.959	7.83516	0.001971	0.15455	0.09107	0.10165	0.0997
FEF	LAG4	33	37.3208	10.4929	0.001194	0.1401	0.13264	0.29876	0.0337

FEF	LAG5	21	40.8825	11.7603	0.002382	-0.6623	0.83032	0.43441	0.0308
FEF	LAG6	42	28.6168	6.79524	0.000135	0.50303	0.09595	5.12E-06	0.4013
FEF	avg_0_1	3	52.6274	91.8523	0.624505	-3.347	10.3888	0.77788	0.0493
FEF	avg_0_1_2	0	6.88			0			
FEF	avg_0_1_2_3	0	6.88			0			
KF	LAG0	26	1.25627	19.2452	0.948472	4.89243	2.63989	0.07568	0.1208
KF	LAG1	48	9.9338	21.1846	0.641297	4.79744	2.89253	0.10386	0.0553
KF	LAG2	37	11.067	25.8243	0.670805	5.10025	3.41501	0.14403	0.0583
KF	LAG3	41	-2.9805	20.7555	0.886538	5.34422	2.77027	0.06083	0.0851
KF	LAG4	48	11.1836	22.6222	0.62335	4.23505	2.99496	0.16393	0.0408
KF	LAG5	36	1.55622	18.6126	0.933842	4.52641	2.5855	0.08876	0.0805
KF	LAG6	49	6.38582	29.3929	0.828929	4.794	3.8513	0.21926	0.0313
KF	avg_0_1	19	-6.908	38.2691	0.858768	6.05359	5.17476	0.25733	0.0707
KF	avg_0_1_2	16	-15.137	50.5158	0.768564	7.35301	6.69963	0.28972	0.0743
KF	avg_0_1_2_3	15	-4.1301	52.0381	0.937864	6.07131	6.81348	0.38795	0.0537
KF	avg_0_1_2_3_4	12	30.8281	66.7366	0.653129	1.88761	8.60431	0.83037	0.0044
KF	avg_0_1_2_3_4_5	9	79.1736	136.628	0.578213	-3.6077	17.0692	0.83789	0.0056
KF	avg_0_1_2_3_4_5_6	7	59.5563	88.3562	0.525384	-2.8218	10.9843	0.80585	0.0109
MGF	LAG0	26	80.1396	14.9148	1.42E-05	-0.8774	0.27243	0.00353	0.2932
MGF	LAG1	49	87.9153	16.5633	2.80E-06	-0.9367	0.31705	0.00484	0.1539
MGF	LAG2	37	107.934	21.7837	1.72E-05	-1.1759	0.39851	0.00555	0.1948
MGF	LAG3	42	69.1731	12.6225	2.37E-06	-0.6868	0.23679	0.00597	0.1702
MGF	LAG4	49	85.3707	17.2148	9.26E-06	-0.8898	0.32315	0.0083	0.1364
MGF	LAG5	38	76.9735	12.4406	3.50E-07	-0.8624	0.22252	0.00042	0.2887
MGF	LAG6	53	88.889	16.9594	2.94E-06	-0.9476	0.32907	0.00577	0.1375
MGF	avg_0_1	20	77.5901	18.4902	0.000489	-0.8017	0.32938	0.02497	0.2377
MGF	avg_0_1_2	17	81.1364	22.6384	0.002482	-0.83	0.40657	0.05806	0.2066
MGF	avg_0_1_2_3	17	78.7329	22.4419	0.002912	-0.7773	0.39862	0.06891	0.192
MGF	avg_0_1_2_3_4	14	81.0354	27.6546	0.011707	-0.7725	0.49232	0.14063	0.1592
MGF	avg_0_1_2_3_4_5	13	92.0273	28.5353	0.007286	-1.0502	0.5327	0.07218	0.2446
MGF	avg_0_1_2_3_4_5_6	13	92.7788	28.8465	0.007405	-1.0732	0.54338	0.07171	0.2453
NH3F	LAG0	24	30.5224	8.20753	0.001128	5.71873	6.92402	0.41733	0.0288
NH3F	LAG1	44	40.0822	9.39728	0.000107	4.35958	7.65564	0.57201	0.0075
NH3F	LAG2	35	45.5922	11.2402	0.000276	4.30803	8.65068	0.62169	0.0072
NH3F	LAG3	38	31.1836	7.06956	8.55E-05	4.56999	4.86002	0.35315	0.0233
NH3F	LAG4	46	37.3167	8.81828	0.000113	3.80962	6.00728	0.52918	0.0089
NH3F	LAG5	34	33.1602	7.04035	4.32E-05	0.15397	4.11907	0.97041	0
NH3F	LAG6	52	45.4147	7.96748	6.03E-07	-3.3582	4.54782	0.46365	0.0106
NH3F	avg_0_1	16	35.69	11.9572	0.009254	1.80726	8.45959	0.83371	0.003
NH3F	avg_0_1_2	13	37.9607	14.7408	0.024311	1.2694	11.3032	0.91244	0.001
NH3F	avg_0_1_2_3	11	46.142	16.7211	0.020147	-2.1089	11.0822	0.85289	0.0036
NH3F	avg_0_1_2_3_4	7	43.6705	25.0603	0.132032	-2.4576	15.0512	0.87566	0.0044
NH3F	avg_0_1_2_3_4_5	7	45.4706	24.4736	0.112544	-3.7916	13.3907	0.78658	0.0132
NH3F	avg_0_1_2_3_4_5_6	7	47.5464	24.1105	0.096081	-5.134	12.1592	0.68757	0.0289
PH	LAG0	26	-437.84	315.843	0.177905	68.6843	45.8497	0.14665	0.0824
PH	LAG1	42	252.798	407.821	0.538769	-29.966	59.0535	0.61457	0.0062
PH	LAG2	37	-884.33	516.688	0.095585	135.145	74.9147	0.07961	0.0829
PH	LAG3	42	912.496	254.202	0.000876	-127.17	36.8418	0.00131	0.2252
PH	LAG4	48	177.963	317.993	0.57838	-19.788	46.2322	0.6706	0.0039
PH	LAG5	38	-297.16	345.694	0.39555	47.7654	50.1846	0.34738	0.0239
PH	LAG6	53	342.848	308.609	0.271702	-43.579	44.8474	0.33569	0.0178
PH	avg_0_1	20	-465.51	879.691	0.602816	72.7629	127.76	0.57567	0.0168

PH	avg_0_1_2	17	-976.69	1017.03	0.351178	147.105	147.498	0.33345	0.0585
PH	avg_0_1_2_3	17	-278.14	1148.85	0.811773	45.8375	166.777	0.78695	0.0047
PH	avg_0_1_2_3_4	14	-588.02	1375.74	0.67607	91.3135	200.017	0.65554	0.0158
PH	avg_0_1_2_3_4_5	13	-1348.2	1675.91	0.436771	201.599	243.591	0.42404	0.054
PH	avg_0_1_2_3_4_5_6	13	-3180.8	1771.62	0.097792	468.517	257.807	0.09421	0.2158
PO4F	LAG0	21	46.807	8.89047	3.75E-05	-236.73	123.277	0.0692	0.1557
PO4F	LAG1	37	37.2409	6.39588	1.20E-06	-44.913	74.1397	0.54846	0.0101
PO4F	LAG2	31	65.9416	11.2117	1.94E-06	-275.67	113.295	0.02114	0.1648
PO4F	LAG3	29	33.646	6.34567	1.21E-05	-99.05	76.4284	0.20556	0.0566
PO4F	LAG4	39	42.0911	5.87343	1.47E-08	-115.4	48.9335	0.02361	0.1277
PO4F	LAG5	26	37.475	6.73945	8.81E-06	-103.3	48.319	0.04249	0.1546
PO4F	LAG6	41	42.1691	5.02289	2.32E-10	-121.36	43.1876	0.00763	0.1649
PO4F	avg_0_1	13	50.5496	13.567	0.002895	-229.6	194.895	0.2616	0.1037
PO4F	avg_0_1_2	8	61.7596	19.9757	0.017524	-272.1	209.779	0.23571	0.1938
PO4F	avg_0_1_2_3	5	52.4903	17.7922	0.041961	-159.32	150.876	0.35055	0.218
PO4F	avg_0_1_2_3_4	1	80.2357			-266.94			1
PO4F	avg_0_1_2_3_4_5	0	4.96			0			
PO4F	avg_0_1_2_3_4_5_6	0	4.96			0			
SO4F	LAG0	26	28.2852	7.7124	0.001157	0.17143	0.11891	0.1618	0.0768
SO4F	LAG1	49	46.5889	7.87602	3.38E-07	-0.1274	0.13158	0.33785	0.0192
SO4F	LAG2	37	24.8078	12.4562	0.054044	1.08418	0.45939	0.02381	0.134
SO4F	LAG3	42	31.3462	6.00702	5.54E-06	0.11311	0.09439	0.23767	0.0338
SO4F	LAG4	49	42.8922	8.08607	2.84E-06	-0.0497	0.1304	0.70452	0.003
SO4F	LAG5	38	37.7606	8.88595	0.000139	-0.3469	0.42462	0.41912	0.0177
SO4F	LAG6	53	27.6702	6.01274	2.73E-05	0.52344	0.10503	7.29E-06	0.3233
SO4F	avg_0_1	20	27.8728	9.45396	0.008253	0.27324	0.2202	0.22976	0.075
SO4F	avg_0_1_2	17	26.6392	12.1255	0.043099	0.43038	0.35243	0.23971	0.0853
SO4F	avg_0_1_2_3	17	23.4909	13.0611	0.090983	0.63328	0.46122	0.18868	0.1054
SO4F	avg_0_1_2_3_4	14	24.7528	16.0068	0.146001	0.71647	0.60806	0.2598	0.0965
SO4F	avg_0_1_2_3_4_5	13	23.5488	18.1479	0.218813	0.80624	0.79908	0.33291	0.0782
SO4F	avg_0_1_2_3_4_5_6	13	21.4331	18.9842	0.280963	0.964	0.89612	0.30319	0.088
SULF	LAG0	26	26.3896	13.3627	0.059424	1.35634	1.81881	0.46279	0.0218
SULF	LAG1	46	39.9074	10.748	0.000562	-0.5791	1.51718	0.70449	0.0032
SULF	LAG2	37	61.8263	19.7322	0.003429	-2.2137	2.79183	0.43302	0.0172
SULF	LAG3	39	45.9116	12.1693	0.000551	-1.4441	1.6129	0.37623	0.0207
SULF	LAG4	49	42.9393	13.3686	0.002355	-0.2809	1.80426	0.87691	0.0005
SULF	LAG5	38	37.1374	12.0061	0.003757	-0.7029	1.43731	0.6277	0.0064
SULF	LAG6	53	66.4541	12.653	2.83E-06	-3.6061	1.71266	0.04009	0.0786
SULF	avg_0_1	20	24.5844	19.8111	0.229731	1.68404	2.8387	0.56001	0.0182
SULF	avg_0_1_2	17	31.9502	34.7465	0.371479	0.84451	5.03577	0.86892	0.0018
SULF	avg_0_1_2_3	17	43.7812	43.4447	0.328576	-0.899	6.19555	0.88644	0.0013
SULF	avg_0_1_2_3_4	14	34.8325	59.7731	0.570035	0.70129	7.9504	0.93106	0.0006
SULF	avg_0_1_2_3_4_5	13	28.5031	52.7495	0.598842	1.34579	6.78924	0.84619	0.0033
SULF	avg_0_1_2_3_4_5_6	13	58.9022	52.051	0.279899	-2.6058	6.59264	0.69959	0.0129
TKNF	LAG0	26	50.3439	16.1253	0.004495	-3.0351	2.98996	0.31978	0.0396
TKNF	LAG1	49	65.2678	16.27	0.00021	-4.8412	3.16899	0.13316	0.0464
TKNF	LAG2	37	90.1503	22.1056	0.00024	-8.692	4.21714	0.04657	0.1055
TKNF	LAG3	42	54.618	11.9767	4.56E-05	-4.0484	2.27154	0.08212	0.0719
TKNF	LAG4	49	61.696	15.6329	0.000258	-4.1599	2.87508	0.15443	0.0418
TKNF	LAG5	38	56.8243	11.7173	2.24E-05	-4.9017	2.09341	0.0247	0.1291
TKNF	LAG6	53	70.7115	13.3764	2.51E-06	-5.6351	2.43581	0.02469	0.0933
TKNF	avg_0_1	20	52.3826	19.8257	0.016069	-3.3526	3.65542	0.37055	0.0424

TKNF	avg_0_1_2	17	56.55	23.3711	0.027808	-3.8014	4.38015	0.3983	0.045
TKNF	avg_0_1_2_3	17	60.3035	23.0552	0.018737	-4.4946	4.26244	0.30733	0.065
TKNF	avg_0_1_2_3_4	14	64.8026	26.2869	0.02839	-4.7923	4.74166	0.33061	0.0729
TKNF	avg_0_1_2_3_4_5	13	66.7266	25.6398	0.023121	-5.5802	4.71136	0.25918	0.1047
TKNF	avg_0_1_2_3_4_5_6	13	68.0246	24.4335	0.016525	-5.746	4.38805	0.21489	0.125
TPF	LAG0	25	41.7088	7.55009	1.11E-05	-148.18	83.9869	0.09041	0.1148
TPF	LAG1	49	49.6598	8.17713	1.94E-07	-140.14	95.268	0.14782	0.0431
TPF	LAG2	36	52.5758	6.48326	1.50E-09	-176.07	61.4727	0.00702	0.1899
TPF	LAG3	42	43.2129	5.9426	6.83E-09	-174.33	74.7113	0.02461	0.1172
TPF	LAG4	48	50.7601	7.74745	3.92E-08	-145.3	64.6907	0.02944	0.0969
TPF	LAG5	38	39.2553	5.61765	2.94E-08	-107.56	42.5723	0.01593	0.1471
TPF	LAG6	52	51.8457	7.07997	1.68E-09	-157.02	70.7078	0.03084	0.0882
TPF	avg_0_1	20	43.8776	9.58644	0.000206	-146.8	111.478	0.20355	0.0836
TPF	avg_0_1_2	17	47.7395	10.6571	0.000379	-165.78	114.774	0.16793	0.1153
TPF	avg_0_1_2_3	17	47.22	10.5311	0.000376	-162.11	114.661	0.17658	0.1111
TPF	avg_0_1_2_3_4	14	49.951	11.6824	0.000903	-152.26	110.176	0.19026	0.1281
TPF	avg_0_1_2_3_4_5	13	48.4238	11.6845	0.00136	-151.4	102.194	0.16424	0.1546
TPF	avg_0_1_2_3_4_5_6	12	49.7399	12.5497	0.002221	-184.01	154.368	0.25835	0.1144

UNIVARIATE LAG 0-6
 PORE WATER
 LOG Mosquitofish THg vs Y
 POOLED STATIONS

independ	month_lag	df	intercept	se_int	p value	slope	se_slope	p value	r_square
			intercept			slope			
LCAF	LAG0	26	253.116	59.939	0.000279	-44.008	12.062	0.00121	0.3475
LCAF	LAG1	45	281.08	74.021	0.000445	-48.536	15.1564	0.00253	0.189
LCAF	LAG2	37	376.374	83.3463	6.53E-05	-66.42	16.7805	0.00034	0.3032
LCAF	LAG3	38	214.175	56.9282	0.000583	-36.306	11.6419	0.00351	0.2081
LCAF	LAG4	46	300.507	72.3069	0.000143	-53.329	14.7318	0.00074	0.2255
LCAF	LAG5	35	263.035	51.006	1.07E-05	-46.346	10.2943	7.5E-05	0.3735
LCAF	LAG6	52	270.239	69.2479	0.00028	-46.468	14.1095	0.0018	0.1754
LCAF	avg_0_1	16	240.587	87.66	0.01505	-40.571	17.6964	0.03674	0.2595
LCAF	avg_0_1_2	14	270.649	96.8361	0.015176	-46.055	19.3869	0.03359	0.3027
LCAF	avg_0_1_2_3	10	256.429	115.557	0.053646	-41.619	23.3391	0.10822	0.2611
LCAF	avg_0_1_2_3_4	5	418.023	140.026	0.040524	-74.98	28.4168	0.05767	0.6351
LCAF	avg_0_1_2_3_4_5	5	419.017	140.185	0.040377	-75.247	28.4739	0.05742	0.6358
LCAF	avg_0_1_2_3_4_5_6	5	420.046	138.915	0.039019	-75.552	28.2513	0.05556	0.6413
LCLF	LAG0	26	251.454	75.5945	0.002722	-38.961	13.5847	0.00827	0.2476
LCLF	LAG1	49	263.055	78.6375	0.001603	-40.102	14.2551	0.00709	0.1415
LCLF	LAG2	37	381.655	101.765	0.00062	-60.178	18.2868	0.00224	0.2312
LCLF	LAG3	42	221.534	59.0481	0.000544	-33.69	10.6433	0.00292	0.1964
LCLF	LAG4	49	283.27	78.9275	0.000777	-43.804	14.2362	0.00345	0.1647
LCLF	LAG5	38	301.497	61.0663	1.71E-05	-48.067	10.8594	8.2E-05	0.3462
LCLF	LAG6	53	337.167	75.3162	4.17E-05	-53.493	13.6604	0.00026	0.2277
LCLF	avg_0_1	20	220.888	91.3161	0.025769	-33.038	16.2272	0.05594	0.1791
LCLF	avg_0_1_2	17	227.345	111.017	0.057358	-33.797	19.7246	0.10594	0.155
LCLF	avg_0_1_2_3	17	230.311	111.608	0.055671	-34.237	19.7794	0.1027	0.1577
LCLF	avg_0_1_2_3_4	14	240.394	138.407	0.10603	-35.532	24.4915	0.17053	0.1393
LCLF	avg_0_1_2_3_4_5	13	328.465	149.554	0.048458	-51.777	26.6774	0.07613	0.2389
LCLF	avg_0_1_2_3_4_5_6	13	331.69	150.856	0.048248	-52.447	26.9588	0.07552	0.2398
LDOC	LAG0	26	189.088	55.4826	0.002222	-36.62	13.1394	0.01001	0.2371
LDOC	LAG1	46	212.114	68.5868	0.003402	-40.637	16.4818	0.01756	0.119
LDOC	LAG2	34	287.765	75.268	0.000554	-56.461	17.8151	0.00329	0.2334
LDOC	LAG3	42	210.875	48.2645	8.3E-05	-42.183	11.5392	0.00072	0.2458
LDOC	LAG4	46	221.344	61.2861	0.000762	-43.324	14.5447	0.00465	0.1647
LDOC	LAG5	38	207.566	43.7487	3.1E-05	-41.228	10.2138	0.00026	0.3057
LDOC	LAG6	51	281.767	62.1772	3.66E-05	-57.279	14.9431	0.00035	0.2271
LDOC	avg_0_1	20	176.414	74.5145	0.028674	-33.321	17.5432	0.07281	0.1596
LDOC	avg_0_1_2	17	192.863	83.6154	0.034794	-36.607	19.6297	0.08065	0.1785
LDOC	avg_0_1_2_3	17	201.492	85.1043	0.030843	-38.597	19.9604	0.07105	0.1894
LDOC	avg_0_1_2_3_4	14	206.166	97.9123	0.055246	-38.877	22.8172	0.11218	0.1825
LDOC	avg_0_1_2_3_4_5	13	244.595	103.019	0.035127	-48.539	24.1968	0.06793	0.2511
LDOC	avg_0_1_2_3_4_5_6	13	247.103	103.476	0.034259	-49.201	24.3404	0.06612	0.254
LFEF	LAG0	14	12.202	19.7538	0.547439	9.42692	7.07702	0.20573	0.1201
LFEF	LAG1	37	56.3073	23.476	0.021768	-4.4733	7.29019	0.54333	0.0104
LFEF	LAG2	23	45.1407	37.9842	0.247344	4.29367	13.4694	0.75291	0.0046
LFEF	LAG3	27	34.9368	18.0492	0.063856	-0.2943	5.61538	0.95861	0.0001
LFEF	LAG4	33	17.9937	22.8568	0.436936	8.76446	7.34473	0.24152	0.0426

LFEF	LAG5	21	65.3235	26.2001	0.021542	-14.347	11.3508	0.22079	0.074
LFEF	LAG6	42	5.20659	17.5107	0.76771	15.208	5.91521	0.01387	0.1388
LFEF	avg_0_1	3	26.1015	219.453	0.916194	-1.2197	104.575	0.99175	0.0001
LFEF	avg_0_1_2	0	6.88			0			
LFEF	avg_0_1_2_3	0	6.88			0			
LKF	LAG0	26	0.13366	21.648	0.995123	19.0537	11.3055	0.10437	0.102
LKF	LAG1	48	16.5341	23.166	0.478927	14.5747	12.0709	0.23331	0.0301
LKF	LAG2	37	17.3606	29.1685	0.555445	16.253	15.0053	0.28595	0.0316
LKF	LAG3	41	0.8287	20.7764	0.968382	18.2894	10.5172	0.08973	0.0703
LKF	LAG4	48	0.6878	27.4598	0.980123	21.6651	14.0566	0.12996	0.0481
LKF	LAG5	36	-1.5722	22.0349	0.943527	18.514	11.5143	0.11684	0.0688
LKF	LAG6	49	-19.265	45.0844	0.671068	31.0634	22.5912	0.17551	0.0379
LKF	avg_0_1	19	-36.099	61.9576	0.567362	37.4249	31.4884	0.25007	0.0728
LKF	avg_0_1_2	16	-55.55	84.5042	0.520904	47.9818	42.4351	0.27593	0.0785
LKF	avg_0_1_2_3	15	-38.774	85.0556	0.655478	40.3027	42.4403	0.35841	0.0605
LKF	avg_0_1_2_3_4	12	12.36	108.415	0.911287	16.3799	53.6824	0.76597	0.0084
LKF	avg_0_1_2_3_4_5	9	67.3565	238.625	0.784903	-8.2171	115.662	0.94511	0.0006
LKF	avg_0_1_2_3_4_5_6	7	74.6075	155.838	0.649064	-18.247	75.4591	0.81698	0.0097
LMGF	LAG0	26	224.883	56.7896	0.000549	-49.016	14.6142	0.00254	0.3103
LMGF	LAG1	49	233.804	61.7923	0.000429	-50.263	16.1576	0.00314	0.1678
LMGF	LAG2	37	317.983	80.8774	0.000368	-69.81	20.799	0.00187	0.2383
LMGF	LAG3	42	170.508	48.8986	0.00118	-35.343	12.7123	0.00817	0.1586
LMGF	LAG4	49	233.03	65.1091	0.000801	-49.999	16.8892	0.00476	0.1544
LMGF	LAG5	38	223.959	46.9799	2.89E-05	-49.37	12.0219	0.00021	0.3131
LMGF	LAG6	53	235.511	65.8614	0.000765	-50.399	17.1775	0.00497	0.142
LMGF	avg_0_1	20	215.828	70.1999	0.00624	-46.323	17.9557	0.01836	0.2594
LMGF	avg_0_1_2	17	223.991	85.8716	0.019012	-47.816	21.9452	0.04463	0.2288
LMGF	avg_0_1_2_3	17	212.412	85.6521	0.024648	-44.782	21.8554	0.05723	0.2079
LMGF	avg_0_1_2_3_4	14	220.103	104.866	0.055925	-46.037	26.7135	0.10851	0.186
LMGF	avg_0_1_2_3_4_5	13	272.562	109.805	0.02884	-60.409	28.2752	0.05393	0.2756
LMGF	avg_0_1_2_3_4_5_6	13	276.103	110.342	0.0278	-61.429	28.4636	0.05188	0.2796
LNH3F	LAG0	24	41.3776	8.58256	7.27E-05	5.5781	4.65997	0.24349	0.0586
LNH3F	LAG1	44	48.5555	9.20525	4.10E-06	5.01748	5.60675	0.37582	0.0183
LNH3F	LAG2	35	52.3684	10.9899	3.46E-05	3.21491	6.40684	0.61905	0.0074
LNH3F	LAG3	38	40.9235	6.47202	2.30E-07	6.12414	3.97289	0.13171	0.0603
LNH3F	LAG4	46	49.5993	8.33718	3.71E-07	8.96133	4.83202	0.07022	0.071
LNH3F	LAG5	34	36.0841	6.45606	3.24E-06	3.27013	3.91317	0.40935	0.0207
LNH3F	LAG6	52	41.3822	7.0349	3.13E-07	-0.5273	4.68335	0.91079	0.0002
LNH3F	avg_0_1	16	40.3084	10.356	0.001444	3.48486	6.68666	0.60986	0.0178
LNH3F	avg_0_1_2	13	41.673	13.4639	0.009273	3.04263	9.74247	0.76017	0.0081
LNH3F	avg_0_1_2_3	11	45.4376	14.0768	0.009054	2.0633	10.0925	0.84211	0.0042
LNH3F	avg_0_1_2_3_4	7	44.6249	22.4555	0.094073	4.27307	14.7672	0.78204	0.0138
LNH3F	avg_0_1_2_3_4_5	7	43.3781	22.1975	0.098485	2.79487	13.9145	0.84744	0.0067
LNH3F	avg_0_1_2_3_4_5_6	7	41.3612	21.7608	0.106063	0.54273	13.7818	0.96987	0.0003
LPH	LAG0	26	-882.3	612.489	0.16213	475.515	317.417	0.14663	0.0824
LPH	LAG1	42	434.803	786.214	0.583244	-201.3	406.916	0.62346	0.0059
LPH	LAG2	37	-1760.2	998.158	0.086317	936.285	516.937	0.07846	0.0835
LPH	LAG3	42	1733.51	489.899	0.001017	-879.42	253.668	0.00125	0.2267
LPH	LAG4	48	283.849	608.045	0.642784	-125.5	315.372	0.69247	0.0034
LPH	LAG5	38	-598.7	666.69	0.374982	326.767	345.492	0.35039	0.0236
LPH	LAG6	53	623.111	589.56	0.295439	-300.81	305.708	0.32968	0.0183
LPH	avg_0_1	20	-929.91	1702.33	0.591248	500.404	882.384	0.57728	0.0166

LPH	avg_0_1_2	17	-1935.8	1974.04	0.341369	1022.15	1022.47	0.33234	0.0588
LPH	avg_0_1_2_3	17	-559.64	2223.93	0.80452	309.498	1152.47	0.79171	0.0045
LPH	avg_0_1_2_3_4	14	-1201.9	2640.32	0.656473	644.094	1369.34	0.64589	0.0167
LPH	avg_0_1_2_3_4_5	13	-2637.7	3204.67	0.426524	1387.85	1661.77	0.41994	0.0549
LPH	avg_0_1_2_3_4_5_6	13	-6200.8	3380.08	0.091479	3237.51	1753.82	0.0897	0.2212
LPO4F	LAG0	21	7.20542	21.1497	0.736892	-7.3067	5.10894	0.1681	0.0928
LPO4F	LAG1	37	7.74405	16.0207	0.631755	-7.2027	4.02768	0.08215	0.0816
LPO4F	LAG2	31	-18.414	23.7508	0.44424	-18.113	5.9309	0.0047	0.2372
LPO4F	LAG3	29	8.46771	17.8176	0.638299	-5.3769	4.46505	0.23859	0.0492
LPO4F	LAG4	39	4.71781	13.5996	0.730574	-7.9169	3.37891	0.02446	0.1262
LPO4F	LAG5	26	-15.575	14.0447	0.278011	-12.259	3.53434	0.00191	0.3249
LPO4F	LAG6	41	-5.9927	12.6336	0.637833	-10.748	3.13554	0.00142	0.2271
LPO4F	avg_0_1	13	9.57073	33.8418	0.782143	-7.9	8.50068	0.37103	0.0671
LPO4F	avg_0_1_2	8	-4.6319	41.3003	0.913851	-14.009	11.3985	0.25878	0.1775
LPO4F	avg_0_1_2_3	5	23.899	36.4584	0.547924	-4.6889	10.8256	0.68726	0.0448
LPO4F	avg_0_1_2_3_4	1	-47.198			-38.719			1
LPO4F	avg_0_1_2_3_4_5	0	4.96			0			
LPO4F	avg_0_1_2_3_4_5_6	0	4.96			0			
LSO4F	LAG0	26	22.4916	20.0314	0.272185	4.06333	6.0815	0.51016	0.0175
LSO4F	LAG1	49	47.8519	19.0689	0.015521	-1.9209	6.44465	0.76694	0.0018
LSO4F	LAG2	37	-9.7407	28.0718	0.730617	20.9828	9.84423	0.03995	0.1121
LSO4F	LAG3	42	18.8799	14.7703	0.208358	5.75709	4.89304	0.24615	0.0327
LSO4F	LAG4	49	49.4742	18.5703	0.010478	-2.8955	6.02091	0.63277	0.0048
LSO4F	LAG5	38	43.79	19.9975	0.034922	-4.5958	7.42913	0.53996	0.0102
LSO4F	LAG6	53	-11.513	14.9941	0.446057	20.5009	5.24079	0.00027	0.2274
LSO4F	avg_0_1	20	16.8065	25.3752	0.515721	6.79597	8.8355	0.45125	0.0302
LSO4F	avg_0_1_2	17	7.21059	35.8685	0.84321	11.1746	12.8291	0.39661	0.0453
LSO4F	avg_0_1_2_3	17	-10.157	40.0727	0.803135	18.1452	14.9071	0.24117	0.0848
LSO4F	avg_0_1_2_3_4	14	-18.887	49.4361	0.708591	22.9671	18.9219	0.24642	0.1018
LSO4F	avg_0_1_2_3_4_5	13	-19.965	60.262	0.746123	23.5874	23.8642	0.34247	0.0753
LSO4F	avg_0_1_2_3_4_5_6	13	-21.623	60.8538	0.72851	24.5436	24.3948	0.33422	0.0778
LSULF	LAG0	26	31.1277	14.3588	0.039894	2.47743	7.83428	0.75445	0.004
LSULF	LAG1	46	36.9489	11.9131	0.003319	-0.4251	6.60032	0.94893	0.0001
LSULF	LAG2	37	60.0744	28.0188	0.038853	-7.1774	15.4429	0.6449	0.006
LSULF	LAG3	39	49.2199	13.0556	0.000555	-7.6788	6.98834	0.27877	0.0308
LSULF	LAG4	49	43.3824	16.0003	0.00927	-1.3667	8.84417	0.87784	0.0005
LSULF	LAG5	38	35.5321	16.094	0.033538	-1.9822	8.17602	0.80978	0.0016
LSULF	LAG6	53	83.2157	14.481	4.83E-07	-24.042	7.9409	0.00383	0.1499
LSULF	avg_0_1	20	31.1841	21.191	0.157506	2.57304	11.8671	0.83066	0.0025
LSULF	avg_0_1_2	17	40.674	36.6627	0.283651	-1.785	20.7027	0.93236	0.0005
LSULF	avg_0_1_2_3	17	48.1223	52.0076	0.368559	-5.9266	28.8959	0.84008	0.0026
LSULF	avg_0_1_2_3_4	14	32.0243	75.397	0.67797	4.34697	40.5739	0.91632	0.0009
LSULF	avg_0_1_2_3_4_5	13	20.3181	77.7767	0.79834	9.83214	41.1094	0.81501	0.0047
LSULF	avg_0_1_2_3_4_5_6	13	71.6961	85.1266	0.416131	-17.472	44.7997	0.70337	0.0125
LTKNF	LAG0	26	52.0635	24.7568	0.045699	-11.04	15.7002	0.48845	0.0194
LTKNF	LAG1	49	72.261	22.6464	0.002502	-20.495	14.9338	0.17633	0.0378
LTKNF	LAG2	37	114.627	34.0589	0.001827	-44.11	21.806	0.05057	0.1021
LTKNF	LAG3	42	56.8091	17.3154	0.002118	-14.718	11.2789	0.1992	0.0399
LTKNF	LAG4	49	65.6504	24.2733	0.009434	-16.292	15.5266	0.29929	0.0224
LTKNF	LAG5	38	70.0625	19.0188	0.000731	-24.827	11.9346	0.04448	0.1047
LTKNF	LAG6	53	91.1876	21.0371	6.71E-05	-32.351	13.5524	0.02065	0.0988
LTKNF	avg_0_1	20	53.0142	30.6198	0.099593	-11.389	19.3013	0.5621	0.018

LTKNF	avg_0_1_2	17	57.5506	36.7446	0.136856	-13.017	23.3322	0.58464	0.0191
LTKNF	avg_0_1_2_3	17	64.89	36.7453	0.096478	-17.676	23.1731	0.4567	0.0351
LTKNF	avg_0_1_2_3_4	14	72.5665	43.4316	0.118642	-20.793	27.0632	0.45604	0.0434
LTKNF	avg_0_1_2_3_4_5	13	79.8524	43.5141	0.091387	-26.935	27.7289	0.35054	0.0729
LTKNF	avg_0_1_2_3_4_5_6	13	85.4558	41.945	0.064293	-30.421	26.5314	0.27389	0.0987
LTPF	LAG0	25	12.0396	18.3768	0.518601	-5.8877	4.84157	0.23578	0.058
LTPF	LAG1	49	-11.838	20.5737	0.567703	-14.527	5.23692	0.00786	0.1382
LTPF	LAG2	36	-4.0095	15.0892	0.792016	-12.634	3.94917	0.00293	0.2263
LTPF	LAG3	42	-15.875	15.6681	0.316907	-13.435	3.9432	0.00148	0.2207
LTPF	LAG4	48	-5.0777	18.7979	0.788251	-12.823	4.90936	0.01205	0.1267
LTPF	LAG5	38	-12.157	13.1816	0.362379	-12.092	3.40731	0.00107	0.2539
LTPF	LAG6	52	-16.678	18.7872	0.378847	-15.796	4.67611	0.00141	0.1828
LTPF	avg_0_1	20	9.64797	23.6582	0.687974	-7.1622	6.24446	0.26563	0.0648
LTPF	avg_0_1_2	17	5.23909	26.3332	0.844805	-9.0563	7.01113	0.21481	0.0944
LTPF	avg_0_1_2_3	17	0.39488	26.3839	0.988244	-10.357	6.99927	0.15837	0.1204
LTPF	avg_0_1_2_3_4	14	-1.0929	29.7143	0.97122	-11.633	7.99642	0.16944	0.14
LTPF	avg_0_1_2_3_4_5	13	-11.67	31.1507	0.714478	-13.854	8.15482	0.11511	0.1939
LTPF	avg_0_1_2_3_4_5_6	12	-16.44	39.4743	0.685075	-15.123	9.99011	0.15828	0.1724

UNIVARIATE LAG 0-6
 PORE WATER
 Mosquitofish THg vs LOG Y
 POOLED STATIONS

independ	month_lag	df	intercept	se_int	p value	slope	se_slope	p value	r_square
			intercept			slope			
CAF	LAG0	26	4.79704	0.31644	4.13E-14	-0.0107	0.00187	5.35E-06	0.57
CAF	LAG1	45	4.54975	0.36485	4.85E-16	-0.0092	0.00232	0.000248	0.2655
CAF	LAG2	37	4.87383	0.39788	2.11E-14	-0.0102	0.00236	0.000113	0.3428
CAF	LAG3	38	4.48409	0.36391	1.16E-14	-0.0097	0.00229	0.000147	0.3261
CAF	LAG4	46	4.78673	0.31505	2.47E-19	-0.0117	0.00197	3.81E-07	0.4396
CAF	LAG5	35	4.82082	0.27331	1.11E-18	-0.0114	0.00164	5.13E-08	0.5871
CAF	LAG6	52	4.69252	0.31039	1.76E-20	-0.0101	0.00194	3.77E-06	0.3451
CAF	avg_0_1	16	4.67842	0.48173	7.33E-08	-0.0092	0.00285	0.005449	0.4123
CAF	avg_0_1_2	14	4.81161	0.56181	1.05E-06	-0.0098	0.00322	0.009194	0.4181
CAF	avg_0_1_2_3	10	4.81172	0.6411	3.67E-05	-0.0082	0.00374	0.054874	0.3508
CAF	avg_0_1_2_3_4	5	5.44756	0.56882	0.000664	-0.014	0.00328	0.012785	0.8212
CAF	avg_0_1_2_3_4_5	5	5.45816	0.56569	0.000645	-0.0142	0.00328	0.012368	0.824
CAF	avg_0_1_2_3_4_5_6	5	5.46347	0.5592	0.000615	-0.0143	0.00326	0.011791	0.8281
CLF	LAG0	26	4.69551	0.34228	3.88E-13	-0.0056	0.00112	3.78E-05	0.4995
CLF	LAG1	49	4.5442	0.32828	2.22E-18	-0.0051	0.00109	2.54E-05	0.3115
CLF	LAG2	37	4.83914	0.40069	3.19E-14	-0.0055	0.00131	0.000162	0.33
CLF	LAG3	42	4.37113	0.33603	3.85E-16	-0.0048	0.00109	6.89E-05	0.3236
CLF	LAG4	49	4.43093	0.34272	2.99E-17	-0.0046	0.00112	0.000143	0.2624
CLF	LAG5	38	4.82393	0.33022	6.09E-17	-0.0064	0.00103	3.08E-07	0.5118
CLF	LAG6	53	4.67983	0.31302	1.81E-20	-0.0054	0.00107	5.89E-06	0.3286
CLF	avg_0_1	20	4.62268	0.42634	1.41E-09	-0.0051	0.00129	0.000901	0.4483
CLF	avg_0_1_2	17	4.60261	0.5209	1.49E-07	-0.0048	0.0016	0.008256	0.362
CLF	avg_0_1_2_3	17	4.59589	0.52651	1.76E-07	-0.0047	0.0016	0.009137	0.3545
CLF	avg_0_1_2_3_4	14	4.52549	0.65987	1.16E-05	-0.0043	0.00202	0.054261	0.2561
CLF	avg_0_1_2_3_4_5	13	5.05189	0.6115	2.70E-06	-0.0065	0.00199	0.006446	0.4744
CLF	avg_0_1_2_3_4_5_6	13	5.06689	0.62357	3.20E-06	-0.0067	0.00205	0.006994	0.4677
DOC	LAG0	26	4.5989	0.35506	1.37E-12	-0.02	0.00443	0.000127	0.4504
DOC	LAG1	46	4.43323	0.38126	3.76E-15	-0.0181	0.00505	0.000816	0.2225
DOC	LAG2	34	4.56969	0.35727	2.44E-14	-0.0163	0.00417	0.000446	0.3155
DOC	LAG3	42	4.5648	0.35759	7.17E-16	-0.022	0.0047	3.09E-05	0.3484
DOC	LAG4	46	4.26307	0.30814	8.07E-18	-0.016	0.00368	7.73E-05	0.296
DOC	LAG5	38	4.19761	0.32433	2.63E-15	-0.0162	0.00368	8.77E-05	0.3438
DOC	LAG6	51	4.7626	0.31987	5.19E-20	-0.0216	0.00431	7.42E-06	0.3334
DOC	avg_0_1	20	4.55277	0.48427	1.41E-08	-0.0195	0.00597	0.004056	0.3597
DOC	avg_0_1_2	17	4.50503	0.48834	8.33E-08	-0.0176	0.00581	0.00791	0.3651
DOC	avg_0_1_2_3	17	4.60343	0.50332	9.37E-08	-0.0189	0.00604	0.00644	0.38
DOC	avg_0_1_2_3_4	14	4.55256	0.55667	1.76E-06	-0.0168	0.00643	0.021563	0.344
DOC	avg_0_1_2_3_4_5	13	4.75681	0.52675	1.07E-06	-0.0209	0.00633	0.006294	0.4764
DOC	avg_0_1_2_3_4_5_6	13	4.79011	0.53681	1.21E-06	-0.0215	0.00652	0.006362	0.4755
FEF	LAG0	14	3.02634	0.27851	6.81E-08	0.01043	0.00674	0.146029	0.1553
FEF	LAG1	37	3.09267	0.24304	6.90E-15	0.00078	0.00315	0.805838	0.0017
FEF	LAG2	23	3.32252	0.27468	3.41E-11	0.01389	0.00891	0.133463	0.0994
FEF	LAG3	27	2.68931	0.26393	1.43E-10	0.00495	0.00307	0.118601	0.0911
FEF	LAG4	33	3.00118	0.22524	1.32E-14	0.00441	0.00285	0.131407	0.0697

FEF	LAG5	21	3.04698	0.39362	1.93E-07	-0.0031	0.02779	0.91201	0.0006
FEF	LAG6	42	3.00962	0.19292	7.63E-19	0.00772	0.00272	0.007086	0.1639
FEF	avg_0_1	3	3.3257	3.77373	0.471126	-0.0799	0.42682	0.868779	0.0172
FEF	avg_0_1_2	0	1.92862			0			
FEF	avg_0_1_2_3	0	1.92862			0			
KF	LAG0	26	1.754	0.57109	0.005084	0.19858	0.07834	0.017878	0.2045
KF	LAG1	48	1.93243	0.51147	0.000444	0.18175	0.06984	0.012339	0.126
KF	LAG2	37	2.1745	0.59107	0.000761	0.1562	0.07816	0.053274	0.0999
KF	LAG3	41	0.99117	0.65931	0.140609	0.2839	0.088	0.002503	0.2065
KF	LAG4	48	1.71563	0.53558	0.00244	0.20029	0.07091	0.006923	0.1451
KF	LAG5	36	1.32551	0.61863	0.039173	0.23523	0.08593	0.009668	0.1763
KF	LAG6	49	1.20223	0.65613	0.073114	0.27497	0.08597	0.002448	0.1757
KF	avg_0_1	19	0.9159	1.09198	0.412611	0.31101	0.14766	0.049476	0.1977
KF	avg_0_1_2	16	0.89043	1.37865	0.528121	0.31765	0.18284	0.102821	0.1675
KF	avg_0_1_2_3	15	1.2131	1.37751	0.393375	0.28186	0.18036	0.140425	0.1485
KF	avg_0_1_2_3_4	12	2.49585	1.69359	0.168592	0.12526	0.21835	0.577746	0.029
KF	avg_0_1_2_3_4_5	9	2.3495	3.20635	0.484616	0.1563	0.40057	0.706571	0.0187
KF	avg_0_1_2_3_4_5_6	7	1.93078	2.83643	0.521444	0.1767	0.35262	0.634139	0.0402
MGF	LAG0	26	5.05462	0.3706	4.41E-13	-0.0375	0.00677	9.14E-06	0.5516
MGF	LAG1	49	4.73282	0.38656	2.25E-16	-0.0324	0.0074	6.53E-05	0.285
MGF	LAG2	37	5.06268	0.47356	1.01E-12	-0.0345	0.00866	0.000319	0.3056
MGF	LAG3	42	4.65451	0.38694	4.97E-15	-0.0329	0.00726	5.07E-05	0.3332
MGF	LAG4	49	4.75753	0.39241	3.22E-16	-0.0324	0.00737	5.93E-05	0.2878
MGF	LAG5	38	4.95409	0.37616	1.54E-15	-0.0387	0.00673	1.33E-06	0.4727
MGF	LAG6	53	4.97416	0.37136	1.73E-18	-0.0359	0.00721	7.34E-06	0.3231
MGF	avg_0_1	20	5.00562	0.48243	2.90E-09	-0.0363	0.00859	0.000455	0.4847
MGF	avg_0_1_2	17	4.98045	0.5934	2.96E-07	-0.0347	0.01066	0.004951	0.3986
MGF	avg_0_1_2_3	17	4.90256	0.59174	3.51E-07	-0.0329	0.01051	0.006416	0.3803
MGF	avg_0_1_2_3_4	14	4.83304	0.73057	1.68E-05	-0.0302	0.01301	0.03706	0.2933
MGF	avg_0_1_2_3_4_5	13	5.29471	0.6705	4.29E-06	-0.0419	0.01252	0.005829	0.4826
MGF	avg_0_1_2_3_4_5_6	13	5.31004	0.68152	4.92E-06	-0.0425	0.01284	0.006214	0.4774
NH3F	LAG0	24	3.11277	0.25965	2.25E-11	-0.0238	0.21904	0.914264	0.0005
NH3F	LAG1	44	3.1067	0.23479	9.27E-17	0.09414	0.19128	0.625114	0.0056
NH3F	LAG2	35	3.21136	0.26398	6.16E-14	0.12021	0.20317	0.557978	0.0102
NH3F	LAG3	38	2.99515	0.24208	1.03E-14	0.02869	0.16642	0.864059	0.0008
NH3F	LAG4	46	3.1539	0.21958	2.03E-18	-0.0604	0.14959	0.688516	0.0036
NH3F	LAG5	34	3.09607	0.23695	1.35E-14	-0.0983	0.13863	0.48327	0.015
NH3F	LAG6	52	3.36773	0.19578	7.04E-23	-0.1452	0.11175	0.199649	0.032
NH3F	avg_0_1	16	3.23779	0.36178	2.11E-07	-0.0937	0.25596	0.719529	0.0088
NH3F	avg_0_1_2	13	3.26235	0.44281	8.65E-06	-0.1631	0.33954	0.639555	0.0189
NH3F	avg_0_1_2_3	11	3.54079	0.48089	2.42E-05	-0.2568	0.31872	0.439202	0.0609
NH3F	avg_0_1_2_3_4	7	3.27313	0.66775	0.002706	-0.2756	0.40105	0.517657	0.073
NH3F	avg_0_1_2_3_4_5	7	3.30447	0.64662	0.002199	-0.2833	0.3538	0.453829	0.0965
NH3F	avg_0_1_2_3_4_5_6	7	3.35027	0.63074	0.001809	-0.299	0.31809	0.383521	0.1284
PH	LAG0	26	-15.244	9.60661	0.125114	2.66815	1.39455	0.067233	0.1277
PH	LAG1	42	24.6096	9.35266	0.011931	-3.0919	1.35429	0.027684	0.1128
PH	LAG2	37	-25.492	11.6837	0.035733	4.17425	1.69402	0.018644	0.1443
PH	LAG3	42	36.7403	8.35468	7.59E-05	-4.8866	1.21085	0.000232	0.2843
PH	LAG4	48	5.03393	7.85929	0.524954	-0.2696	1.14264	0.814517	0.0012
PH	LAG5	38	-6.1068	12.1973	0.61957	1.31145	1.7707	0.463587	0.0146
PH	LAG6	53	4.56411	7.69453	0.555643	-0.1929	1.11818	0.863685	0.0006
PH	avg_0_1	20	6.94617	28.1404	0.80768	-0.559	4.08692	0.892649	0.001

PH	avg_0_1_2	17	-13.972	31.2652	0.660947	2.48468	4.53432	0.591275	0.0184
PH	avg_0_1_2_3	17	8.38092	34.6454	0.811926	-0.758	5.02944	0.882093	0.0014
PH	avg_0_1_2_3_4	14	-9.8179	39.7938	0.808979	1.897	5.78558	0.748219	0.0082
PH	avg_0_1_2_3_4_5	13	-14.681	48.6472	0.767984	2.59468	7.0708	0.72004	0.0111
PH	avg_0_1_2_3_4_5_6	13	-72.497	52.4306	0.191941	11.0113	7.62973	0.174556	0.1479
PO4F	LAG0	21	3.66535	0.22925	7.38E-13	-11.663	3.17887	0.001523	0.4023
PO4F	LAG1	37	3.11328	0.24118	4.50E-15	-2.2659	2.79568	0.422982	0.0179
PO4F	LAG2	31	3.81159	0.23753	2.88E-16	-8.5788	2.4003	0.001212	0.2986
PO4F	LAG3	29	3.09101	0.24017	2.81E-13	-5.5648	2.89267	0.064605	0.1167
PO4F	LAG4	39	3.36556	0.19491	1.40E-19	-5.542	1.62384	0.00154	0.2346
PO4F	LAG5	26	3.23243	0.20434	1.57E-14	-4.4714	1.46502	0.005326	0.2715
PO4F	LAG6	41	3.46761	0.14887	7.03E-25	-5.5466	1.27998	9.62E-05	0.3195
PO4F	avg_0_1	13	3.67539	0.38729	6.28E-07	-10.845	5.56348	0.075027	0.2405
PO4F	avg_0_1_2	8	3.90533	0.51722	0.000132	-10.566	5.43171	0.092811	0.3509
PO4F	avg_0_1_2_3	5	3.94543	0.66356	0.004014	-8.6946	5.62691	0.197192	0.3738
PO4F	avg_0_1_2_3_4	1	5.09133			-12.376			1
PO4F	avg_0_1_2_3_4_5	0	1.60141			0			
PO4F	avg_0_1_2_3_4_5_6	0	1.60141			0			
SO4F	LAG0	26	2.84741	0.23311	4.90E-12	0.00705	0.00359	0.061045	0.1334
SO4F	LAG1	49	3.33754	0.19638	6.06E-22	-0.0054	0.00328	0.10435	0.054
SO4F	LAG2	37	2.94122	0.30403	1.49E-11	0.01679	0.01121	0.143064	0.0586
SO4F	LAG3	42	2.9018	0.20567	2.49E-17	0.00373	0.00323	0.254484	0.0316
SO4F	LAG4	49	3.1308	0.20324	3.31E-20	0.0004	0.00328	0.904529	0.0003
SO4F	LAG5	38	2.957	0.31479	2.45E-11	-0.0018	0.01504	0.90462	0.0004
SO4F	LAG6	53	2.95973	0.16436	5.32E-24	0.00944	0.00287	0.001806	0.1722
SO4F	avg_0_1	20	2.77067	0.28975	1.08E-08	0.01173	0.00675	0.098349	0.1372
SO4F	avg_0_1_2	17	2.6894	0.34704	8.36E-07	0.01847	0.01009	0.085705	0.1733
SO4F	avg_0_1_2_3	17	2.59175	0.37451	3.45E-06	0.0255	0.01322	0.071757	0.1886
SO4F	avg_0_1_2_3_4	14	2.56643	0.42885	4.56E-05	0.0311	0.01629	0.078618	0.2189
SO4F	avg_0_1_2_3_4_5	13	2.49624	0.48276	0.000233	0.03575	0.02126	0.118425	0.1907
SO4F	avg_0_1_2_3_4_5_6	13	2.39741	0.49928	0.000432	0.04302	0.02357	0.092895	0.2174
SULF	LAG0	26	2.96158	0.41971	2.14E-07	0.02624	0.05713	0.649912	0.0084
SULF	LAG1	46	3.14288	0.37559	1.01E-10	-0.0124	0.05302	0.815907	0.0012
SULF	LAG2	37	3.17884	0.46546	5.50E-08	0.01813	0.06586	0.784685	0.0021
SULF	LAG3	39	3.37567	0.41728	8.69E-10	-0.0505	0.05531	0.367384	0.0214
SULF	LAG4	49	3.12504	0.33563	2.49E-12	0.00307	0.0453	0.946255	0.0001
SULF	LAG5	38	3.28614	0.41786	2.07E-09	-0.0478	0.05002	0.345846	0.024
SULF	LAG6	53	3.53135	0.32247	4.11E-15	-0.0453	0.04365	0.303708	0.0203
SULF	avg_0_1	20	3.01168	0.63415	0.00014	0.01325	0.09087	0.885595	0.0011
SULF	avg_0_1_2	17	3.21203	1.04695	0.007357	-0.0078	0.15173	0.959663	0.0002
SULF	avg_0_1_2_3	17	3.61778	1.30363	0.013516	-0.0666	0.18591	0.724874	0.008
SULF	avg_0_1_2_3_4	14	3.35642	1.72249	0.07326	-0.0171	0.22911	0.941622	0.0004
SULF	avg_0_1_2_3_4_5	13	2.81015	1.49629	0.084879	0.0473	0.19258	0.810152	0.005
SULF	avg_0_1_2_3_4_5_6	13	3.28344	1.48698	0.04744	-0.0146	0.18834	0.939335	0.0005
TKNF	LAG0	26	4.21617	0.45662	1.56E-09	-0.2174	0.08467	0.016593	0.2087
TKNF	LAG1	49	4.09786	0.39654	8.54E-14	-0.1987	0.07724	0.013228	0.1212
TKNF	LAG2	37	4.55492	0.49871	6.61E-11	-0.2577	0.09514	0.010276	0.1693
TKNF	LAG3	42	4.01442	0.39003	6.25E-13	-0.2054	0.07398	0.008232	0.1583
TKNF	LAG4	49	4.1773	0.36581	2.75E-15	-0.2089	0.06728	0.00319	0.1673
TKNF	LAG5	38	4.27	0.36816	6.94E-14	-0.2637	0.06577	0.000284	0.3028
TKNF	LAG6	53	4.2381	0.3106	8.12E-19	-0.2038	0.05656	0.000702	0.1998
TKNF	avg_0_1	20	4.27007	0.5741	4.86E-07	-0.2326	0.10585	0.040558	0.2027

TKNF	avg_0_1_2	17	4.33629	0.64755	5.13E-06	-0.236	0.12136	0.069638	0.1911
TKNF	avg_0_1_2_3	17	4.43546	0.63142	2.87E-06	-0.2525	0.11674	0.046011	0.2263
TKNF	avg_0_1_2_3_4	14	4.5092	0.68841	1.85E-05	-0.2476	0.12418	0.067597	0.2342
TKNF	avg_0_1_2_3_4_5	13	4.58469	0.62881	9.59E-06	-0.2821	0.11554	0.031065	0.3319
TKNF	avg_0_1_2_3_4_5_6	13	4.57456	0.5947	5.60E-06	-0.2756	0.1068	0.024063	0.3569
TPF	LAG0	25	3.54698	0.20786	6.35E-15	-8.0973	2.31224	0.001834	0.3382
TPF	LAG1	49	3.40154	0.20424	1.39E-21	-4.659	2.37948	0.056056	0.074
TPF	LAG2	36	3.66856	0.20543	3.66E-19	-6.9107	1.94787	0.001128	0.2645
TPF	LAG3	42	3.40002	0.19165	7.63E-21	-8.0708	2.40951	0.001746	0.2149
TPF	LAG4	48	3.51498	0.17756	1.93E-24	-5.7647	1.48263	0.000316	0.2434
TPF	LAG5	38	3.23705	0.18989	4.14E-19	-4.5102	1.43904	0.003367	0.2098
TPF	LAG6	52	3.54641	0.16409	2.47E-27	-5.4031	1.63879	0.001784	0.1757
TPF	avg_0_1	20	3.52998	0.28058	1.16E-10	-7.5647	3.26283	0.031729	0.2205
TPF	avg_0_1_2	17	3.63776	0.28893	1.02E-09	-7.8127	3.11169	0.023167	0.2826
TPF	avg_0_1_2_3	17	3.60934	0.28783	1.08E-09	-7.5733	3.13384	0.027977	0.2674
TPF	avg_0_1_2_3_4	14	3.66243	0.30295	1.91E-08	-6.6448	2.85708	0.036853	0.2938
TPF	avg_0_1_2_3_4_5	13	3.59279	0.28729	3.05E-08	-6.6128	2.51268	0.021904	0.366
TPF	avg_0_1_2_3_4_5_6	12	3.62672	0.30632	1.34E-07	-7.3633	3.76793	0.076568	0.2577

UNIVARIATE LAG 0-6
 PORE WATER
 LOG Mosquitofish THg vs LOG Y
 POOLED STATIONS

independ	month_lag	df	intercept	se_int	p value	slope	se_slope	p value	r_square
			intercept			slope			
LCAF	LAG0	26	11.8865	1.50687	3.03E-08	-1.768	0.30324	4.43E-06	0.5762
LCAF	LAG1	45	10.5363	1.7232	2.29E-07	-1.5017	0.35284	0.000107	0.2916
LCAF	LAG2	37	12.0563	1.82104	1.04E-07	-1.7703	0.36664	2.54E-05	0.3931
LCAF	LAG3	38	10.7806	1.7592	4.21E-07	-1.5786	0.35976	9.17E-05	0.3423
LCAF	LAG4	46	12.2866	1.49149	1.56E-10	-1.8824	0.30388	1.61E-07	0.4602
LCAF	LAG5	35	12.2888	1.26727	2.55E-11	-1.865	0.25577	1.91E-08	0.61
LCAF	LAG6	52	11.3457	1.49431	6.33E-10	-1.6603	0.30447	1.45E-06	0.3683
LCAF	avg_0_1	16	10.9328	2.30262	0.000259	-1.5549	0.46484	0.004431	0.4272
LCAF	avg_0_1_2	14	11.4419	2.61032	0.00074	-1.6478	0.5226	0.007625	0.4334
LCAF	avg_0_1_2_3	10	10.0707	3.05683	0.009312	-1.3252	0.61739	0.060387	0.3386
LCAF	avg_0_1_2_3_4	5	14.7721	2.33098	0.003174	-2.3424	0.47305	0.007752	0.8597
LCAF	avg_0_1_2_3_4_5	5	14.8249	2.30058	0.002984	-2.3552	0.46729	0.007282	0.864
LCAF	avg_0_1_2_3_4_5_6	5	14.8487	2.24421	0.002706	-2.363	0.45641	0.006618	0.8702
LCLF	LAG0	26	12.7832	1.90952	5.14E-07	-1.7388	0.34315	3.13E-05	0.5067
LCLF	LAG1	49	11.3411	1.80047	8.75E-08	-1.4869	0.32638	3.59E-05	0.3019
LCLF	LAG2	37	13.057	2.17292	6.76E-07	-1.7588	0.39047	6.75E-05	0.3605
LCLF	LAG3	42	11.3774	1.83399	2.22E-07	-1.5094	0.33057	4.47E-05	0.3371
LCLF	LAG4	49	11.3989	1.80863	8.64E-08	-1.4932	0.32622	3.34E-05	0.3039
LCLF	LAG5	38	14.7815	1.79363	6.76E-10	-2.1132	0.31896	8.99E-08	0.5426
LCLF	LAG6	53	12.2857	1.70417	2.30E-09	-1.6457	0.30909	2.19E-06	0.3528
LCLF	avg_0_1	20	12.2353	2.4106	6.72E-05	-1.6283	0.42837	0.001207	0.432
LCLF	avg_0_1_2	17	11.786	2.92363	0.000966	-1.5364	0.51944	0.009258	0.3535
LCLF	avg_0_1_2_3	17	11.7726	2.95736	0.001075	-1.5301	0.52411	0.010027	0.3476
LCLF	avg_0_1_2_3_4	14	11.3122	3.66514	0.008671	-1.4334	0.64856	0.045643	0.2731
LCLF	avg_0_1_2_3_4_5	13	14.8741	3.497	0.001121	-2.0917	0.62379	0.005746	0.4837
LCLF	avg_0_1_2_3_4_5_6	13	14.9139	3.54873	0.001226	-2.1026	0.63418	0.006162	0.4781
LDOC	LAG0	26	9.80984	1.45792	4.73E-07	-1.5892	0.34527	0.000104	0.4587
LDOC	LAG1	46	9.2487	1.59384	6.12E-07	-1.4636	0.38301	0.000405	0.245
LDOC	LAG2	34	10.4584	1.58881	1.76E-07	-1.6908	0.37605	8.07E-05	0.3799
LDOC	LAG3	42	10.4919	1.49729	1.61E-08	-1.792	0.35798	1.1E-05	0.3793
LDOC	LAG4	46	9.68446	1.32727	3.71E-09	-1.5756	0.31499	9.14E-06	0.3573
LDOC	LAG5	38	10.4802	1.35726	3.17E-09	-1.7723	0.31687	2.23E-06	0.4581
LDOC	LAG6	51	10.6301	1.346	2.40E-10	-1.7705	0.32349	1.42E-06	0.3747
LDOC	avg_0_1	20	9.90899	2.04715	0.000114	-1.6105	0.48197	0.003429	0.3701
LDOC	avg_0_1_2	17	9.95108	2.19259	0.000336	-1.6012	0.51474	0.006728	0.3769
LDOC	avg_0_1_2_3	17	10.1994	2.23085	0.000313	-1.6578	0.52323	0.00596	0.3855
LDOC	avg_0_1_2_3_4	14	9.8231	2.52292	0.001849	-1.543	0.58793	0.021011	0.3463
LDOC	avg_0_1_2_3_4_5	13	11.4526	2.37938	0.000424	-1.953	0.55886	0.004426	0.5044
LDOC	avg_0_1_2_3_4_5_6	13	11.4975	2.39698	0.000436	-1.9664	0.56383	0.004483	0.5034
LFEF	LAG0	14	2.43757	0.66463	0.002841	0.32202	0.23811	0.199306	0.1233
LFEF	LAG1	37	3.25778	0.56928	1.63E-06	-0.0438	0.17678	0.805645	0.0017
LFEF	LAG2	23	2.83702	0.63641	0.000197	0.2944	0.22568	0.20553	0.0718
LFEF	LAG3	27	2.92082	0.60513	5.31E-05	-0.0013	0.18827	0.994536	0
LFEF	LAG4	33	2.56715	0.49717	1.23E-05	0.21503	0.15976	0.187774	0.0536

LFEF	LAG5	21	3.52504	0.88947	0.000767	-0.2305	0.38535	0.556434	0.0176
LFEF	LAG6	42	2.54597	0.43553	7.17E-07	0.27196	0.14712	0.07175	0.0769
LFEF	avg_0_1	3	1.34861	8.8211	0.89252	0.61332	4.20346	0.897372	0.0105
LFEF	avg_0_1_2	0	1.92862			0			
LFEF	avg_0_1_2_3	0	1.92862			0			
LKF	LAG0	26	1.82579	0.65882	0.010385	0.70965	0.34406	0.049692	0.1454
LKF	LAG1	48	2.20936	0.57093	0.000335	0.53753	0.29749	0.077184	0.065
LKF	LAG2	37	2.4486	0.6781	0.000922	0.45411	0.34884	0.201262	0.045
LKF	LAG3	41	1.19362	0.66938	0.082147	0.97155	0.33884	0.006576	0.1705
LKF	LAG4	48	1.34919	0.65112	0.043768	0.95608	0.33331	0.006159	0.149
LKF	LAG5	36	1.23526	0.74418	0.105871	0.92325	0.38887	0.023205	0.1387
LKF	LAG6	49	-0.1498	0.99565	0.881064	1.72136	0.49891	0.001177	0.1987
LKF	avg_0_1	19	-0.5434	1.76821	0.762112	1.90208	0.89865	0.048486	0.1993
LKF	avg_0_1_2	16	-0.7954	2.30548	0.734887	2.0425	1.15773	0.098043	0.1718
LKF	avg_0_1_2_3	15	-0.2871	2.24724	0.900143	1.81683	1.12131	0.127471	0.1579
LKF	avg_0_1_2_3_4	12	1.74784	2.74958	0.537989	0.84936	1.36147	0.545441	0.0342
LKF	avg_0_1_2_3_4_5	9	0.6833	5.54404	0.90495	1.41338	2.6872	0.613176	0.0334
LKF	avg_0_1_2_3_4_5_6	7	0.75515	4.99217	0.884723	1.25575	2.41728	0.62202	0.043
LMGF	LAG0	26	10.9985	1.4335	4.99E-08	-2.0329	0.36889	1E-05	0.5485
LMGF	LAG1	49	9.48309	1.45515	4.05E-08	-1.6604	0.3805	6.76E-05	0.284
LMGF	LAG2	37	10.8449	1.7635	4.39E-07	-1.9497	0.45351	0.000125	0.3392
LMGF	LAG3	42	9.58953	1.50456	1.27E-07	-1.7136	0.39114	8E-05	0.3189
LMGF	LAG4	49	9.94377	1.47881	1.95E-08	-1.7715	0.3836	2.92E-05	0.3076
LMGF	LAG5	38	11.2953	1.43295	1.96E-09	-2.1507	0.36668	9.56E-07	0.4818
LMGF	LAG6	53	10.4276	1.44447	2.21E-09	-1.8828	0.37674	6.94E-06	0.3245
LMGF	avg_0_1	20	10.9092	1.86082	1.2E-05	-2.0065	0.47596	0.000468	0.4833
LMGF	avg_0_1_2	17	10.6351	2.26894	0.000247	-1.9176	0.57985	0.004452	0.406
LMGF	avg_0_1_2_3	17	10.3067	2.27535	0.000342	-1.8308	0.58059	0.006151	0.3833
LMGF	avg_0_1_2_3_4	14	9.97329	2.7736	0.003258	-1.7241	0.70654	0.029755	0.3142
LMGF	avg_0_1_2_3_4_5	13	12.1073	2.59124	0.000539	-2.309	0.66725	0.004713	0.4995
LMGF	avg_0_1_2_3_4_5_6	13	12.1494	2.61912	0.000571	-2.3239	0.67562	0.004898	0.4965
LNH3F	LAG0	24	3.12546	0.27569	6.81E-11	0.02445	0.14969	0.871653	0.0012
LNH3F	LAG1	44	3.23812	0.23146	1.31E-17	0.05752	0.14098	0.685307	0.0039
LNH3F	LAG2	35	3.38893	0.25842	7.41E-15	0.07849	0.15065	0.605743	0.0079
LNH3F	LAG3	38	3.1148	0.22434	3.01E-16	0.10305	0.13771	0.459014	0.0149
LNH3F	LAG4	46	3.19637	0.21339	4.22E-19	0.09639	0.12367	0.439812	0.0133
LNH3F	LAG5	34	3.00637	0.2212	4.50E-15	0.01425	0.13407	0.915992	0.0003
LNH3F	LAG6	52	3.17105	0.17441	6.14E-24	-0.0553	0.11611	0.635715	0.0044
LNH3F	avg_0_1	16	3.14314	0.31708	5.61E-08	-0.0062	0.20473	0.976258	0.0001
LNH3F	avg_0_1_2	13	3.04857	0.40853	7.61E-06	-0.0796	0.29561	0.792362	0.006
LNH3F	avg_0_1_2_3	11	3.20968	0.41633	1.63E-05	-0.0818	0.29849	0.789599	0.0075
LNH3F	avg_0_1_2_3_4	7	2.87161	0.62087	0.003596	-0.1064	0.4083	0.80313	0.0112
LNH3F	avg_0_1_2_3_4_5	7	2.84307	0.60847	0.003423	-0.1372	0.38142	0.731456	0.0211
LNH3F	avg_0_1_2_3_4_5_6	7	2.79861	0.58688	0.003099	-0.2006	0.37169	0.608824	0.0463
LPH	LAG0	26	-32.415	18.6366	0.094282	18.4227	9.65823	0.068012	0.127
LPH	LAG1	42	44.1213	18.044	0.018861	-21.149	9.33895	0.028892	0.1112
LPH	LAG2	37	-52.482	22.5687	0.0258	28.8872	11.6881	0.018319	0.1451
LPH	LAG3	42	68.0647	16.1175	0.000131	-33.677	8.34557	0.000232	0.2843
LPH	LAG4	48	6.16923	15.0266	0.683266	-1.5504	7.7938	0.843175	0.0008
LPH	LAG5	38	-14.323	23.5231	0.54632	8.93901	12.1901	0.467997	0.0143
LPH	LAG6	53	5.71359	14.703	0.699158	-1.2844	7.62402	0.866871	0.0005
LPH	avg_0_1	20	10.9591	54.4489	0.842624	-4.075	28.223	0.886715	0.0011

LPH	avg_0_1_2	17	-29.782	60.7042	0.630368	17.0625	31.4422	0.594842	0.0181
LPH	avg_0_1_2_3	17	14.0377	67.0513	0.836811	-5.6371	34.7469	0.873154	0.0016
LPH	avg_0_1_2_3_4	14	-23.381	76.3687	0.764335	13.8009	39.607	0.733084	0.0093
LPH	avg_0_1_2_3_4_5	13	-32.844	93.0107	0.730126	18.675	48.2304	0.705385	0.0123
LPH	avg_0_1_2_3_4_5_6	13	-145.7	99.8854	0.170334	77.2437	51.8275	0.161929	0.1562
LPO4F	LAG0	21	1.50676	0.56293	0.0145	-0.4131	0.13598	0.006495	0.3158
LPO4F	LAG1	37	1.70919	0.5911	0.006463	-0.3411	0.1486	0.027628	0.1277
LPO4F	LAG2	31	1.46164	0.51659	0.008237	-0.4901	0.129	0.000661	0.3248
LPO4F	LAG3	29	1.42573	0.65875	0.039122	-0.3678	0.16508	0.03408	0.1506
LPO4F	LAG4	39	1.44517	0.439	0.002155	-0.4136	0.10907	0.00052	0.2746
LPO4F	LAG5	26	1.07026	0.3966	0.012299	-0.4944	0.0998	4.2E-05	0.4954
LPO4F	LAG6	41	1.31518	0.36013	0.000746	-0.4784	0.08938	3.82E-06	0.4174
LPO4F	avg_0_1	13	1.48882	0.96222	0.147753	-0.4392	0.2417	0.094244	0.2158
LPO4F	avg_0_1_2	8	1.39263	1.10014	0.246061	-0.5248	0.30363	0.127547	0.2991
LPO4F	avg_0_1_2_3	5	1.95434	1.40667	0.237071	-0.3932	0.41769	0.399835	0.1814
LPO4F	avg_0_1_2_3_4	1	-0.8167			-1.7951			1
LPO4F	avg_0_1_2_3_4_5	0	1.60141			0			
LPO4F	avg_0_1_2_3_4_5_6	0	1.60141			0			
LSO4F	LAG0	26	2.27617	0.60418	0.000898	0.27345	0.18343	0.148531	0.0816
LSO4F	LAG1	49	3.4676	0.48233	3.77E-09	-0.1094	0.16301	0.505235	0.0093
LSO4F	LAG2	37	2.4635	0.68227	0.000923	0.30397	0.23926	0.212064	0.0429
LSO4F	LAG3	42	2.54303	0.50716	1.07E-05	0.17145	0.16801	0.31349	0.0248
LSO4F	LAG4	49	3.17039	0.46723	1.57E-08	-0.0089	0.15149	0.953421	0.0001
LSO4F	LAG5	38	2.83163	0.70569	0.000281	0.0363	0.26217	0.890641	0.0005
LSO4F	LAG6	53	1.98581	0.3781	2.83E-06	0.47023	0.13215	0.000807	0.1958
LSO4F	avg_0_1	20	2.02662	0.77638	0.017201	0.38963	0.27033	0.165773	0.0986
LSO4F	avg_0_1_2	17	1.56842	1.02672	0.146136	0.58522	0.36722	0.130583	0.137
LSO4F	avg_0_1_2_3	17	1.14843	1.15176	0.333554	0.76426	0.42846	0.09344	0.1659
LSO4F	avg_0_1_2_3_4	14	0.52616	1.29462	0.691045	1.0538	0.49552	0.053175	0.2581
LSO4F	avg_0_1_2_3_4_5	13	0.2286	1.55671	0.885688	1.18174	0.61647	0.079359	0.2344
LSO4F	avg_0_1_2_3_4_5_6	13	0.04986	1.5499	0.974867	1.26855	0.62132	0.063799	0.2578
LSULF	LAG0	26	3.17989	0.44872	1.99E-07	-0.0288	0.24482	0.907142	0.0006
LSULF	LAG1	46	3.07619	0.4159	2.64E-09	-0.0071	0.23042	0.975434	0
LSULF	LAG2	37	2.94565	0.65505	6.91E-05	0.20178	0.36104	0.579694	0.0086
LSULF	LAG3	39	3.57046	0.44479	1.05E-09	-0.3149	0.23808	0.193921	0.044
LSULF	LAG4	49	3.28126	0.40113	1.18E-10	-0.083	0.22173	0.709957	0.0029
LSULF	LAG5	38	3.37553	0.56021	5.80E-07	-0.2412	0.2846	0.402154	0.019
LSULF	LAG6	53	3.89039	0.37539	2.98E-14	-0.391	0.20585	0.063063	0.0649
LSULF	avg_0_1	20	3.27798	0.67187	0.000104	-0.108	0.37625	0.777117	0.0043
LSULF	avg_0_1_2	17	3.70571	1.09511	0.003787	-0.3169	0.61839	0.615331	0.0161
LSULF	avg_0_1_2_3	17	4.20035	1.54552	0.015208	-0.586	0.8587	0.504733	0.0283
LSULF	avg_0_1_2_3_4	14	4.20946	2.15614	0.072778	-0.5319	1.1603	0.654236	0.0159
LSULF	avg_0_1_2_3_4_5	13	3.46373	2.21174	0.143312	-0.1566	1.16903	0.895682	0.0015
LSULF	avg_0_1_2_3_4_5_6	13	4.43496	2.40409	0.089886	-0.6707	1.2652	0.605716	0.0229
LTKNF	LAG0	26	4.65011	0.7141	8.05E-07	-0.9944	0.45286	0.0376	0.1617
LTKNF	LAG1	49	4.46014	0.55258	1.72E-10	-0.8931	0.36439	0.017935	0.1112
LTKNF	LAG2	37	5.23379	0.77297	6.57E-08	-1.2769	0.49489	0.0141	0.1561
LTKNF	LAG3	42	4.26865	0.5694	3.31E-09	-0.8443	0.37089	0.028117	0.1122
LTKNF	LAG4	49	4.63084	0.57452	1.79E-10	-0.9875	0.3675	0.009871	0.1308
LTKNF	LAG5	38	5.10948	0.60017	3.04E-10	-1.4182	0.37661	0.000578	0.2771
LTKNF	LAG6	53	4.86742	0.49437	1.77E-13	-1.0953	0.31848	0.001157	0.1853
LTKNF	avg_0_1	20	4.69183	0.90522	5.29E-05	-1.0358	0.57061	0.085292	0.1478

LTKNF	avg_0_1_2	17	4.7743	1.03714	0.000294	-1.0533	0.65857	0.129292	0.1378
LTKNF	avg_0_1_2_3	17	4.9727	1.02554	0.000178	-1.1741	0.64675	0.088246	0.1708
LTKNF	avg_0_1_2_3_4	14	5.13997	1.15843	0.00067	-1.221	0.72184	0.114569	0.1804
LTKNF	avg_0_1_2_3_4_5	13	5.47598	1.08522	0.000286	-1.511	0.69154	0.049456	0.2846
LTKNF	avg_0_1_2_3_4_5_6	13	5.56293	1.03326	0.000164	-1.5584	0.65357	0.03448	0.3215
LTPF	LAG0	25	1.62372	0.51436	0.004263	-0.4059	0.13551	0.006279	0.2721
LTPF	LAG1	49	1.30847	0.48735	0.00993	-0.4959	0.12405	0.00022	0.2498
LTPF	LAG2	36	1.55611	0.48473	0.00284	-0.4657	0.12686	0.000799	0.278
LTPF	LAG3	42	0.85853	0.49279	0.088975	-0.5709	0.12402	3.98E-05	0.3408
LTPF	LAG4	48	1.39263	0.42537	0.001994	-0.4829	0.11109	7.34E-05	0.2868
LTPF	LAG5	38	0.99262	0.41592	0.022234	-0.5314	0.10751	1.68E-05	0.3977
LTPF	LAG6	52	1.44068	0.42949	0.001507	-0.4776	0.1069	4.41E-05	0.2813
LTPF	avg_0_1	20	1.54495	0.68028	0.034962	-0.4304	0.17956	0.026977	0.2322
LTPF	avg_0_1_2	17	1.56685	0.72032	0.044953	-0.4458	0.19178	0.033577	0.2525
LTPF	avg_0_1_2_3	17	1.49605	0.72581	0.055922	-0.4632	0.19255	0.028606	0.2656
LTPF	avg_0_1_2_3_4	14	1.54525	0.78187	0.069727	-0.4764	0.21041	0.041296	0.2829
LTPF	avg_0_1_2_3_4_5	13	1.05339	0.74758	0.184199	-0.5816	0.19571	0.011657	0.424
LTPF	avg_0_1_2_3_4_5_6	12	1.10369	0.93452	0.262501	-0.5724	0.23651	0.034	0.3475

UNIVARIATE LAG AVE 0-6
 PORE WATER
 Mosquitofish THg vs Y
 POOLED STATIONS

param	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
CAF	avg_0_1	LAG0	16	75.1383	18.5715	0.001056	-0.2265	0.10987	0.057005	0.2208
CAF	avg_0_1	LAG1	28	113.022	22.3321	2.59E-05	-0.3839	0.13104	0.006828	0.2412
CAF	avg_0_1	LAG2	21	87.1756	17.3686	6.58E-05	-0.2863	0.10162	0.01063	0.2842
CAF	avg_0_1	LAG3	30	72.6507	12.0017	1.38E-06	-0.2767	0.07405	0.000813	0.325
CAF	avg_0_1	LAG4	27	73.5213	11.3238	6.99E-07	-0.2853	0.06718	0.000245	0.4096
CAF	avg_0_1	LAG5	33	74.5325	11.4665	2.57E-07	-0.2641	0.06945	0.000607	0.3113
CAF	avg_0_1	LAG6	39	75.4743	12.1837	3.08E-07	-0.2282	0.07425	0.0039	0.1991
CAF	avg_0_1_2	LAG0	14	82.7766	21.2021	0.001812	-0.2588	0.12145	0.052772	0.2589
CAF	avg_0_1_2	LAG1	18	93.311	18.6835	0.000111	-0.3001	0.10836	0.013128	0.3109
CAF	avg_0_1_2	LAG2	16	98.6883	18.696	9.28E-05	-0.3852	0.11068	0.003356	0.4468
CAF	avg_0_1_2	LAG3	20	79.146	13.6512	1.38E-05	-0.3011	0.08339	0.001859	0.407
CAF	avg_0_1_2	LAG4	25	72.5247	12.0386	3.21E-06	-0.2799	0.07205	0.000704	0.3861
CAF	avg_0_1_2	LAG5	28	77.8092	13.2083	2.82E-06	-0.2785	0.08112	0.001936	0.304
CAF	avg_0_1_2	LAG6	35	74.0197	13.1605	2.65E-06	-0.2141	0.08184	0.013177	0.1675
CAF	avg_0_1_2_3	LAG0	10	88.9119	24.8145	0.005902	-0.2437	0.1447	0.126434	0.2396
CAF	avg_0_1_2_3	LAG1	13	108.826	20.3284	0.000173	-0.4174	0.11836	0.004172	0.5089
CAF	avg_0_1_2_3	LAG2	11	95.0225	21.6892	0.001375	-0.3682	0.13188	0.019067	0.438
CAF	avg_0_1_2_3	LAG3	19	78.629	14.2296	3.02E-05	-0.2985	0.08588	0.0027	0.4016
CAF	avg_0_1_2_3	LAG4	20	76.5818	14.6199	4.68E-05	-0.3025	0.08849	0.002879	0.3809
CAF	avg_0_1_2_3	LAG5	24	76.9196	14.7211	2.67E-05	-0.2732	0.09305	0.007427	0.2726
CAF	avg_0_1_2_3	LAG6	29	60.9787	13.3304	8.87E-05	-0.1525	0.08228	0.074371	0.1093
CAF	avg_0_1_2_3_4	LAG0	5	117.289	32.9401	0.023572	-0.4348	0.1897	0.083677	0.5677
CAF	avg_0_1_2_3_4	LAG1	8	109.674	23.7066	0.002408	-0.4028	0.13717	0.021822	0.5519
CAF	avg_0_1_2_3_4	LAG2	11	95.7041	21.6228	0.001282	-0.3748	0.1323	0.017762	0.4452
CAF	avg_0_1_2_3_4	LAG3	14	85.8258	17.921	0.000354	-0.3304	0.10888	0.00958	0.4146
CAF	avg_0_1_2_3_4	LAG4	17	78.6382	16.6286	0.000227	-0.3103	0.1043	0.008935	0.3561
CAF	avg_0_1_2_3_4	LAG5	19	58.8288	12.6186	0.000194	-0.198	0.07942	0.022627	0.2567
CAF	avg_0_1_2_3_4	LAG6	24	62.0585	14.0751	0.000203	-0.1923	0.08754	0.038403	0.1734
CAF	avg_0_1_2_3_4_5	LAG0	5	117.575	32.9743	0.023467	-0.4391	0.19109	0.08314	0.569
CAF	avg_0_1_2_3_4_5	LAG1	8	110.139	23.5645	0.002277	-0.4079	0.13708	0.020648	0.5584
CAF	avg_0_1_2_3_4_5	LAG2	11	95.6686	21.9536	0.001426	-0.3749	0.13468	0.01933	0.4366
CAF	avg_0_1_2_3_4_5	LAG3	14	84.8108	18.2902	0.000465	-0.3236	0.11124	0.012191	0.3943
CAF	avg_0_1_2_3_4_5	LAG4	14	60.489	12.1433	0.000251	-0.2404	0.07772	0.008568	0.4239
CAF	avg_0_1_2_3_4_5	LAG5	19	60.0644	12.5646	0.00015	-0.2059	0.07895	0.017805	0.2742
CAF	avg_0_1_2_3_4_5	LAG6	21	60.7786	15.9765	0.001111	-0.1811	0.10052	0.086657	0.1397
CAF	avg_0_1_2_3_4_5_6	LAG0	5	117.772	32.8468	0.023054	-0.4432	0.19159	0.081719	0.5723
CAF	avg_0_1_2_3_4_5_6	LAG1	8	110.527	23.8186	0.002369	-0.41	0.13868	0.021216	0.5553
CAF	avg_0_1_2_3_4_5_6	LAG2	11	94.5387	22.4438	0.001794	-0.3676	0.13793	0.023702	0.4153
CAF	avg_0_1_2_3_4_5_6	LAG3	11	64.1349	13.8712	0.000945	-0.2446	0.0856	0.017028	0.4495
CAF	avg_0_1_2_3_4_5_6	LAG4	14	60.9669	12.2367	0.000251	-0.2421	0.07794	0.008352	0.426
CAF	avg_0_1_2_3_4_5_6	LAG5	16	58.617	14.5265	0.001079	-0.1972	0.0926	0.05018	0.2321
CAF	avg_0_1_2_3_4_5_6	LAG6	16	55.9542	18.8678	0.009623	-0.1423	0.11954	0.252291	0.0863
CLF	avg_0_1	LAG0	20	66.4917	16.3125	0.000644	-0.1032	0.04941	0.050522	0.1866
CLF	avg_0_1	LAG1	31	104.726	21.883	4.26E-05	-0.19	0.06987	0.010747	0.1979
CLF	avg_0_1	LAG2	25	77.6354	16.3547	7.9E-05	-0.129	0.04909	0.014776	0.2233

CLF	avg_0_1	LAG3	36	60.4085	12.6089	3.01E-05	-0.0938	0.04015	0.025247	0.1351
CLF	avg_0_1	LAG4	32	67.4957	12.6451	8.15E-06	-0.1262	0.03876	0.002739	0.2548
CLF	avg_0_1	LAG5	36	75.111	11.9671	3.34E-07	-0.1471	0.03899	0.000601	0.289
CLF	avg_0_1	LAG6	43	76.8291	11.53	4.41E-08	-0.129	0.03725	0.001243	0.2221
CLF	avg_0_1_2	LAG0	17	69.4207	19.8567	0.002988	-0.1065	0.06109	0.100477	0.1596
CLF	avg_0_1_2	LAG1	25	78.3375	16.4346	7.52E-05	-0.1325	0.04987	0.013799	0.2273
CLF	avg_0_1_2	LAG2	22	79.7269	18.9754	0.000401	-0.1306	0.05746	0.033598	0.1975
CLF	avg_0_1_2	LAG3	28	69.8709	13.7178	2.37E-05	-0.1284	0.04265	0.005606	0.2513
CLF	avg_0_1_2	LAG4	30	69.0518	13.6192	2.09E-05	-0.1309	0.04349	0.005374	0.238
CLF	avg_0_1_2	LAG5	34	78.0163	12.3733	3.94E-07	-0.1537	0.03966	0.000478	0.3128
CLF	avg_0_1_2	LAG6	42	74.9298	12.2157	2.79E-07	-0.1212	0.04019	0.004398	0.1815
CLF	avg_0_1_2_3	LAG0	17	69.6023	19.9542	0.003039	-0.1056	0.06056	0.100505	0.1596
CLF	avg_0_1_2_3	LAG1	22	80.9156	18.9186	0.000335	-0.1351	0.05756	0.028791	0.2078
CLF	avg_0_1_2_3	LAG2	19	79.231	20.0958	0.000954	-0.1484	0.06143	0.02658	0.2448
CLF	avg_0_1_2_3	LAG3	27	71.0261	14.6283	4.92E-05	-0.1334	0.04726	0.009006	0.2346
CLF	avg_0_1_2_3	LAG4	28	73.7752	14.3605	2.11E-05	-0.1436	0.04506	0.003629	0.2732
CLF	avg_0_1_2_3	LAG5	33	77.7968	13.1845	1.45E-06	-0.1535	0.0434	0.00126	0.2811
CLF	avg_0_1_2_3	LAG6	36	60.9281	12.6309	2.73E-05	-0.0822	0.04225	0.059664	0.0977
CLF	avg_0_1_2_3_4	LAG0	14	71.4229	24.8401	0.01301	-0.1033	0.0759	0.196555	0.1248
CLF	avg_0_1_2_3_4	LAG1	19	79.5191	20.0835	0.000919	-0.1495	0.06149	0.025692	0.2473
CLF	avg_0_1_2_3_4	LAG2	18	81.0544	22.0543	0.001876	-0.1574	0.0715	0.041861	0.2217
CLF	avg_0_1_2_3_4	LAG3	25	76.7423	15.6093	5.14E-05	-0.1491	0.04962	0.006129	0.2734
CLF	avg_0_1_2_3_4	LAG4	27	74.3097	15.2982	4.9E-05	-0.1465	0.04961	0.006612	0.251
CLF	avg_0_1_2_3_4	LAG5	27	62.1803	12.3549	3.08E-05	-0.1181	0.04167	0.008739	0.2362
CLF	avg_0_1_2_3_4	LAG6	34	57.3353	13.1119	0.000115	-0.073	0.04344	0.102304	0.0788
CLF	avg_0_1_2_3_4_5	LAG0	13	84.1161	26.2002	0.007485	-0.1575	0.08506	0.088779	0.2223
CLF	avg_0_1_2_3_4_5	LAG1	18	80.6948	21.815	0.001782	-0.1555	0.07037	0.041071	0.2233
CLF	avg_0_1_2_3_4_5	LAG2	18	82.9201	22.231	0.001666	-0.166	0.07318	0.036631	0.2323
CLF	avg_0_1_2_3_4_5	LAG3	24	77.6367	16.8942	0.000128	-0.1541	0.05607	0.011461	0.2471
CLF	avg_0_1_2_3_4_5	LAG4	23	57.5642	14.1297	0.000504	-0.106	0.04781	0.037223	0.1827
CLF	avg_0_1_2_3_4_5	LAG5	27	63.4344	12.3821	2.43E-05	-0.1242	0.04233	0.006918	0.2486
CLF	avg_0_1_2_3_4_5	LAG6	30	61.302	14.7956	0.000271	-0.0894	0.05087	0.08944	0.0962
CLF	avg_0_1_2_3_4_5_6	LAG0	13	84.6573	26.5725	0.007835	-0.1612	0.08742	0.089948	0.2209
CLF	avg_0_1_2_3_4_5_6	LAG1	18	82.4011	22.0066	0.001614	-0.1633	0.07197	0.036548	0.2325
CLF	avg_0_1_2_3_4_5_6	LAG2	18	83.1862	22.5679	0.001833	-0.1683	0.07504	0.038499	0.2284
CLF	avg_0_1_2_3_4_5_6	LAG3	21	58.7359	14.7457	0.000732	-0.1057	0.04949	0.045191	0.1858
CLF	avg_0_1_2_3_4_5_6	LAG4	23	58.8644	14.1149	0.000398	-0.1119	0.04835	0.030303	0.1959
CLF	avg_0_1_2_3_4_5_6	LAG5	24	62.1305	13.79	0.00016	-0.1205	0.04769	0.018815	0.2174
CLF	avg_0_1_2_3_4_5_6	LAG6	25	57.839	16.4455	0.001766	-0.0729	0.0568	0.211898	0.0641
DOC	avg_0_1	LAG0	20	65.1328	17.5782	0.001501	-0.397	0.21652	0.082424	0.1504
DOC	avg_0_1	LAG1	31	96.0538	20.5386	5.8E-05	-0.6109	0.24641	0.019014	0.17
DOC	avg_0_1	LAG2	25	78.6014	15.1959	2.69E-05	-0.5236	0.17899	0.007412	0.2628
DOC	avg_0_1	LAG3	36	61.7052	11.8267	8.31E-06	-0.3824	0.14501	0.012382	0.1658
DOC	avg_0_1	LAG4	32	60.1647	11.1107	6.53E-06	-0.3794	0.1233	0.004345	0.234
DOC	avg_0_1	LAG5	36	68.9718	11.3107	5.74E-07	-0.4841	0.14013	0.00146	0.2543
DOC	avg_0_1	LAG6	43	72.8754	10.8871	3.99E-08	-0.4383	0.1322	0.001893	0.2074
DOC	avg_0_1_2	LAG0	17	67.7115	18.5921	0.002196	-0.3947	0.22129	0.093477	0.1658
DOC	avg_0_1_2	LAG1	25	79.2172	15.9272	4.44E-05	-0.5398	0.19197	0.009663	0.2478
DOC	avg_0_1_2	LAG2	22	79.6139	16.7831	0.00011	-0.5053	0.19351	0.016311	0.2451
DOC	avg_0_1_2	LAG3	28	64.6675	12.6217	2.19E-05	-0.4273	0.14852	0.007753	0.2346
DOC	avg_0_1_2	LAG4	30	63.3355	12.2817	1.64E-05	-0.4234	0.14634	0.007161	0.224
DOC	avg_0_1_2	LAG5	34	70.8117	11.5406	6.47E-07	-0.4891	0.13799	0.001202	0.2757

DOC	avg_0_1_2	LAG6	42	74.5331	11.6654	1.21E-07	-0.4587	0.146	0.003115	0.194
DOC	avg_0_1_2_3	LAG0	17	70.3649	19.2558	0.00214	-0.4297	0.23126	0.08168	0.1775
DOC	avg_0_1_2_3	LAG1	22	80.1453	17.2381	0.000138	-0.517	0.20165	0.018088	0.2384
DOC	avg_0_1_2_3	LAG2	19	71.0772	17.2866	0.000655	-0.4592	0.19384	0.029229	0.2377
DOC	avg_0_1_2_3	LAG3	27	66.6124	13.278	3.22E-05	-0.4522	0.16143	0.009483	0.2318
DOC	avg_0_1_2_3	LAG4	28	65.949	12.8363	2.1E-05	-0.4415	0.14835	0.006089	0.247
DOC	avg_0_1_2_3	LAG5	33	71.876	12.2184	1.53E-06	-0.5015	0.14978	0.002093	0.2595
DOC	avg_0_1_2_3	LAG6	36	62.3599	11.0986	2.46E-06	-0.3304	0.13782	0.022003	0.141
DOC	avg_0_1_2_3_4	LAG0	14	72.2496	21.7382	0.005492	-0.4087	0.25106	0.1275	0.1694
DOC	avg_0_1_2_3_4	LAG1	19	71.9088	17.7359	0.000744	-0.4748	0.20217	0.030465	0.2346
DOC	avg_0_1_2_3_4	LAG2	18	72.5194	18.329	0.001019	-0.4761	0.21434	0.040203	0.225
DOC	avg_0_1_2_3_4	LAG3	25	69.7234	13.9201	4.06E-05	-0.4728	0.16351	0.00802	0.2584
DOC	avg_0_1_2_3_4	LAG4	27	66.5749	13.5723	4.32E-05	-0.4479	0.16118	0.00999	0.229
DOC	avg_0_1_2_3_4	LAG5	27	55.8411	10.4537	1.37E-05	-0.3545	0.12737	0.0099	0.2295
DOC	avg_0_1_2_3_4	LAG6	34	57.7461	11.503	1.74E-05	-0.2779	0.13947	0.054642	0.1074
DOC	avg_0_1_2_3_4_5	LAG0	13	77.0142	22.5957	0.005189	-0.5041	0.27138	0.08792	0.2233
DOC	avg_0_1_2_3_4_5	LAG1	18	72.8169	18.6841	0.001159	-0.4836	0.22089	0.042829	0.2199
DOC	avg_0_1_2_3_4_5	LAG2	18	73.9276	18.7174	0.001034	-0.4983	0.22179	0.038213	0.229
DOC	avg_0_1_2_3_4_5	LAG3	24	69.7889	14.7094	8.8E-05	-0.4715	0.1779	0.014299	0.234
DOC	avg_0_1_2_3_4_5	LAG4	23	52.4807	11.711	0.000186	-0.327	0.14357	0.032831	0.1908
DOC	avg_0_1_2_3_4_5	LAG5	27	57.1383	10.6745	1.33E-05	-0.374	0.1315	0.008562	0.2373
DOC	avg_0_1_2_3_4_5	LAG6	30	58.9977	12.728	6.98E-05	-0.3006	0.1589	0.068545	0.1099
DOC	avg_0_1_2_3_4_5_6	LAG0	13	77.942	22.9931	0.00537	-0.5207	0.27948	0.087102	0.2244
DOC	avg_0_1_2_3_4_5_6	LAG1	18	73.9882	18.9808	0.001157	-0.5018	0.22659	0.040749	0.2239
DOC	avg_0_1_2_3_4_5_6	LAG2	18	74.3045	19.2105	0.001235	-0.5067	0.23019	0.041815	0.2218
DOC	avg_0_1_2_3_4_5_6	LAG3	21	54.8192	12.4615	0.000277	-0.3436	0.15277	0.035937	0.2019
DOC	avg_0_1_2_3_4_5_6	LAG4	23	53.501	11.8944	0.000179	-0.3421	0.14699	0.02954	0.1976
DOC	avg_0_1_2_3_4_5_6	LAG5	24	56.0975	11.8291	8.85E-05	-0.3639	0.14775	0.021678	0.2087
DOC	avg_0_1_2_3_4_5_6	LAG6	25	56.1823	13.9564	0.000494	-0.2489	0.17549	0.168882	0.0774
FEF	avg_0_1	LAG0	3	52.6274	91.8523	0.624505	-3.347	10.3888	0.777877	0.0493
FEF	avg_0_1	LAG1	11	77.3146	33.3055	0.042672	-0.512	1.3947	0.721205	0.0133
FEF	avg_0_1	LAG2	5	-8.932	3.71944	0.07424	2.45504	0.15821	0.000101	0.9837
FEF	avg_0_1	LAG3	13	42.7712	13.8875	0.009541	-1.066	0.77851	0.196007	0.1351
FEF	avg_0_1	LAG4	8	35.9248	21.6598	0.141161	-0.0623	1.18188	0.959452	0.0004
FEF	avg_0_1	LAG5	16	46.8159	18.968	0.026093	-1.0834	1.96962	0.590363	0.0198
FEF	avg_0_1	LAG6	19	35.0593	13.3311	0.016995	0.89204	0.93363	0.352004	0.0483
FEF	avg_0_1_2	LAG0	0	6.88			0			
FEF	avg_0_1_2	LAG1	1	-1.6271			1.27607			1
FEF	avg_0_1_2	LAG2	0	9.8575			0			
FEF	avg_0_1_2	LAG3	4	200.351	43.8894	0.019715	-21.703	6.04103	0.036955	0.8114
FEF	avg_0_1_2	LAG4	4	184.447	101.191	0.165863	-20.922	15.2571	0.263858	0.3853
FEF	avg_0_1_2	LAG5	9	115.231	50.7214	0.052739	-10.774	6.95275	0.159822	0.2309
FEF	avg_0_1_2	LAG6	11	51.4811	17.8557	0.016297	-2.5573	1.97774	0.225064	0.1432
FEF	avg_0_1_2_3	LAG0	0	6.88			0			
FEF	avg_0_1_2_3	LAG1	0	9.8575			0			
FEF	avg_0_1_2_3	LAG3	4	201.028	59.736	0.043563	-22.583	8.56849	0.077947	0.6984
FEF	avg_0_1_2_3	LAG4	2	-599.12	1518.41	0.760748	113.8	254.75	0.732545	0.1664
FEF	avg_0_1_2_3	LAG5	7	45.7839	17.5778	0.04041	-2.673	1.87791	0.204476	0.2524
FEF	avg_0_1_2_3	LAG6	9	61.4064	19.7456	0.014448	-3.1536	2.18848	0.187548	0.2061
FEF	avg_0_1_2_3_4	LAG3	2	600.298	462.985	0.418239	-91.466	81.0676	0.461679	0.56
FEF	avg_0_1_2_3_4	LAG4	0	28.53			0			
FEF	avg_0_1_2_3_4	LAG5	5	53.8207	18.3687	0.042813	-2.9498	1.92876	0.200907	0.369

FEF	avg_0_1_2_3_4	LAG6	4	63.6351	27.7996	0.106047	-3.1775	2.87792	0.350154	0.2889
FEF	avg_0_1_2_3_4_5	LAG3	0	28.53			0			
FEF	avg_0_1_2_3_4_5	LAG4	0	28.53			0			
FEF	avg_0_1_2_3_4_5	LAG5	2	44.7681	2.17449	0.030898	-2.2046	0.19202	0.055309	0.9925
FEF	avg_0_1_2_3_4_5	LAG6	0	31.4			0			
FEF	avg_0_1_2_3_4_5_6	LAG3	0	28.53			0			
FEF	avg_0_1_2_3_4_5_6	LAG4	0	28.53			0			
FEF	avg_0_1_2_3_4_5_6	LAG5	0	31.4			0			
FEF	avg_0_1_2_3_4_5_6	LAG6	0	31.4			0			
KF	avg_0_1	LAG0	19	-6.908	38.2691	0.858768	6.05359	5.17476	0.257327	0.0707
KF	avg_0_1	LAG1	30	14.9457	35.7389	0.678888	5.10894	4.78857	0.294818	0.0378
KF	avg_0_1	LAG2	24	-25.911	34.8504	0.464716	8.97028	4.67339	0.067419	0.1381
KF	avg_0_1	LAG3	34	6.11324	23.5003	0.796377	3.9117	3.10274	0.21625	0.046
KF	avg_0_1	LAG4	29	-4.9167	22.3778	0.827687	5.09496	3.07272	0.108455	0.0894
KF	avg_0_1	LAG5	30	-13.585	24.0802	0.576983	6.13147	3.18202	0.06384	0.1135
KF	avg_0_1	LAG6	37	4.12467	25.7562	0.873664	4.8509	3.40906	0.163361	0.0532
KF	avg_0_1_2	LAG0	16	-15.137	50.5158	0.768564	7.35301	6.69963	0.289719	0.0743
KF	avg_0_1_2	LAG1	23	-15.361	43.1236	0.725075	7.58257	5.71053	0.19785	0.0742
KF	avg_0_1_2	LAG2	20	-13.92	45.4919	0.76294	7.66234	6.01753	0.218257	0.0786
KF	avg_0_1_2	LAG3	24	-16.314	38.6819	0.677123	6.86988	5.09766	0.190895	0.0732
KF	avg_0_1_2	LAG4	23	-8.749	25.449	0.734272	5.09858	3.34541	0.141743	0.0955
KF	avg_0_1_2	LAG5	26	-15.079	28.5656	0.602235	6.57191	3.77916	0.094338	0.1079
KF	avg_0_1_2	LAG6	30	-2.3785	31.7216	0.940745	5.85023	4.1486	0.169126	0.0642
KF	avg_0_1_2_3	LAG0	15	-4.1301	52.0381	0.937864	6.07131	6.81348	0.387948	0.0537
KF	avg_0_1_2_3	LAG1	19	6.48011	53.8401	0.905532	5.08258	7.0237	0.47859	0.0283
KF	avg_0_1_2_3	LAG2	15	-23.336	58.9215	0.698037	8.36818	7.6867	0.294691	0.078
KF	avg_0_1_2_3	LAG3	19	-7.2264	36.888	0.846883	5.17255	4.71893	0.287473	0.0626
KF	avg_0_1_2_3	LAG4	19	-7.9337	30.1364	0.79534	5.24038	3.95753	0.202022	0.0888
KF	avg_0_1_2_3	LAG5	19	-35.154	36.832	0.352504	9.00991	4.73818	0.073359	0.1673
KF	avg_0_1_2_3	LAG6	18	23.8167	43.4904	0.591063	3.04003	5.46302	0.585139	0.0179
KF	avg_0_1_2_3_4	LAG0	12	30.8281	66.7366	0.653129	1.88761	8.60431	0.830372	0.0044
KF	avg_0_1_2_3_4	LAG1	14	-6.9015	70.8508	0.923887	6.35918	9.06691	0.495442	0.0365
KF	avg_0_1_2_3_4	LAG2	11	11.2111	73.536	0.881859	3.02536	9.25448	0.750477	0.0106
KF	avg_0_1_2_3_4	LAG3	15	3.01683	43.1101	0.9452	4.24674	5.47974	0.451238	0.0411
KF	avg_0_1_2_3_4	LAG4	13	-23.579	37.3318	0.539495	6.73877	4.76622	0.182818	0.1428
KF	avg_0_1_2_3_4	LAG5	10	-63.454	44.9269	0.191468	12.0869	5.51738	0.056186	0.3478
KF	avg_0_1_2_3_4	LAG6	16	21.4052	41.5556	0.613992	3.17001	5.22539	0.553152	0.0239
KF	avg_0_1_2_3_4_5	LAG0	9	79.1736	136.628	0.578213	-3.6077	17.0692	0.837895	0.0056
KF	avg_0_1_2_3_4_5	LAG1	11	18.2579	83.8407	0.831988	2.11751	10.5012	0.844238	0.004
KF	avg_0_1_2_3_4_5	LAG2	9	52.8034	94.9202	0.593225	-1.621	11.8533	0.894603	0.0023
KF	avg_0_1_2_3_4_5	LAG3	10	-28.934	72.232	0.698079	7.60412	8.89751	0.414923	0.0751
KF	avg_0_1_2_3_4_5	LAG4	7	-39.817	34.763	0.295672	8.63787	4.31711	0.092318	0.4002
KF	avg_0_1_2_3_4_5	LAG5	10	-62.629	43.6881	0.185515	12.056	5.39569	0.052322	0.3568
KF	avg_0_1_2_3_4_5	LAG6	10	-0.3778	88.5637	0.996689	6.46542	10.8374	0.565488	0.038
KF	avg_0_1_2_3_4_5_6	LAG0	7	59.5563	88.3562	0.525384	-2.8218	10.9843	0.805845	0.0109
KF	avg_0_1_2_3_4_5_6	LAG1	9	61.7281	102.932	0.565301	-2.7326	12.8199	0.83654	0.0056
KF	avg_0_1_2_3_4_5_6	LAG2	5	-36.997	139.01	0.803283	8.34636	17.0217	0.649575	0.0567
KF	avg_0_1_2_3_4_5_6	LAG3	5	-14.759	41.1496	0.737975	5.94232	4.99442	0.299921	0.2614
KF	avg_0_1_2_3_4_5_6	LAG4	7	-39.325	33.1197	0.279959	8.63525	4.13974	0.082057	0.4204
KF	avg_0_1_2_3_4_5_6	LAG5	5	-115.55	73.9594	0.193245	18.629	9.00125	0.107278	0.5171
KF	avg_0_1_2_3_4_5_6	LAG6	8	89.0033	101.815	0.411013	-3.4828	12.3119	0.78545	0.0113
MGF	avg_0_1	LAG0	20	77.5901	18.4902	0.000489	-0.8017	0.32938	0.024966	0.2377

MGF	avg_0_1	LAG1	31	115.929	24.7806	5.77E-05	-1.2789	0.45138	0.00816	0.2111
MGF	avg_0_1	LAG2	25	87.6211	18.6489	8.94E-05	-0.9266	0.32861	0.009486	0.2488
MGF	avg_0_1	LAG3	36	67.6058	13.9984	2.68E-05	-0.6753	0.2584	0.013126	0.1633
MGF	avg_0_1	LAG4	32	73.2694	13.7447	8.32E-06	-0.8299	0.24403	0.001867	0.2717
MGF	avg_0_1	LAG5	36	80.1759	13.4173	8.31E-07	-0.9294	0.25043	0.000713	0.2824
MGF	avg_0_1	LAG6	43	82.2983	13.502	2.90E-07	-0.8359	0.25173	0.001865	0.208
MGF	avg_0_1_2	LAG0	17	81.1364	22.6384	0.002482	-0.83	0.40657	0.05806	0.2066
MGF	avg_0_1_2	LAG1	25	89.0662	18.6969	7.57E-05	-0.9609	0.33235	0.008022	0.2583
MGF	avg_0_1_2	LAG2	22	89.3879	21.0932	0.000368	-0.9344	0.37471	0.021063	0.2285
MGF	avg_0_1_2	LAG3	28	76.3318	15.2766	3.07E-05	-0.8621	0.27755	0.004422	0.2633
MGF	avg_0_1_2	LAG4	30	74.5514	14.8362	2.37E-05	-0.8528	0.27337	0.004071	0.2513
MGF	avg_0_1_2	LAG5	34	82.8795	14.0792	1.35E-06	-0.9691	0.26082	0.000748	0.295
MGF	avg_0_1_2	LAG6	42	79.7128	14.0026	1.18E-06	-0.7844	0.26664	0.005346	0.1743
MGF	avg_0_1_2_3	LAG0	17	78.7329	22.4419	0.002912	-0.7773	0.39862	0.068912	0.192
MGF	avg_0_1_2_3	LAG1	22	91.3275	21.0725	0.000292	-0.973	0.37548	0.017034	0.2423
MGF	avg_0_1_2_3	LAG2	19	85.3663	21.8753	0.001044	-0.9726	0.39096	0.022878	0.2559
MGF	avg_0_1_2_3	LAG3	27	77.0472	16.063	5.75E-05	-0.879	0.29987	0.006948	0.2484
MGF	avg_0_1_2_3	LAG4	28	77.9703	15.7616	3.51E-05	-0.9022	0.28647	0.00397	0.2687
MGF	avg_0_1_2_3	LAG5	33	81.5337	14.7169	4.13E-06	-0.9495	0.27974	0.001851	0.2647
MGF	avg_0_1_2_3	LAG6	36	65.0752	14.0664	4.93E-05	-0.5516	0.27126	0.049655	0.1056
MGF	avg_0_1_2_3_4	LAG0	14	81.0354	27.6546	0.011707	-0.7725	0.49232	0.140634	0.1592
MGF	avg_0_1_2_3_4	LAG1	19	87.5309	21.9153	0.000851	-1.0136	0.39221	0.018705	0.2706
MGF	avg_0_1_2_3_4	LAG2	18	87.3371	23.7093	0.001842	-1.0177	0.44142	0.034017	0.2382
MGF	avg_0_1_2_3_4	LAG3	25	81.5294	17.1793	7.93E-05	-0.9464	0.31644	0.006341	0.2715
MGF	avg_0_1_2_3_4	LAG4	27	77.7867	16.5998	7.7E-05	-0.9049	0.31046	0.007231	0.2463
MGF	avg_0_1_2_3_4	LAG5	27	64.0089	13.5325	6.85E-05	-0.7076	0.26151	0.011867	0.2197
MGF	avg_0_1_2_3_4	LAG6	34	61.9267	14.5049	0.000156	-0.5059	0.27616	0.075985	0.0923
MGF	avg_0_1_2_3_4_5	LAG0	13	92.0273	28.5353	0.007286	-1.0502	0.5327	0.072181	0.2446
MGF	avg_0_1_2_3_4_5	LAG1	18	88.5315	23.515	0.001544	-1.0374	0.43617	0.029384	0.2497
MGF	avg_0_1_2_3_4_5	LAG2	18	87.7696	24.0966	0.002015	-1.0375	0.45432	0.035527	0.2348
MGF	avg_0_1_2_3_4_5	LAG3	24	81.5334	18.3183	0.000183	-0.9546	0.34925	0.011844	0.2452
MGF	avg_0_1_2_3_4_5	LAG4	23	59.8856	14.9448	0.000593	-0.6484	0.28867	0.035065	0.1865
MGF	avg_0_1_2_3_4_5	LAG5	27	65.3988	13.6262	5.71E-05	-0.7392	0.26491	0.009724	0.2305
MGF	avg_0_1_2_3_4_5	LAG6	30	64.3216	16.2611	0.000451	-0.5663	0.31882	0.086205	0.0981
MGF	avg_0_1_2_3_4_5_6	LAG0	13	92.7788	28.8465	0.007405	-1.0732	0.54338	0.071714	0.2453
MGF	avg_0_1_2_3_4_5_6	LAG1	18	88.8178	23.8742	0.001701	-1.0533	0.44787	0.030994	0.2455
MGF	avg_0_1_2_3_4_5_6	LAG2	18	87.7332	24.3334	0.002183	-1.0499	0.46497	0.037384	0.2307
MGF	avg_0_1_2_3_4_5_6	LAG3	21	61.9832	15.8013	0.000843	-0.6679	0.30462	0.04033	0.1938
MGF	avg_0_1_2_3_4_5_6	LAG4	23	61.4084	15.0609	0.000499	-0.6834	0.29311	0.029283	0.1981
MGF	avg_0_1_2_3_4_5_6	LAG5	24	63.8896	15.1459	0.000327	-0.7177	0.2988	0.024785	0.2005
MGF	avg_0_1_2_3_4_5_6	LAG6	25	59.4838	18.03	0.003018	-0.4461	0.35583	0.22204	0.0615
NH3F	avg_0_1	LAG0	16	35.69	11.9572	0.009254	1.80726	8.45959	0.833709	0.003
NH3F	avg_0_1	LAG1	27	52.7711	14.4591	0.001158	-1.2525	11.1914	0.911746	0.0005
NH3F	avg_0_1	LAG2	20	32.1748	12.5586	0.019068	7.32047	7.47295	0.339595	0.0481
NH3F	avg_0_1	LAG3	30	25.8892	8.02842	0.003115	5.42767	5.25308	0.310034	0.0355
NH3F	avg_0_1	LAG4	27	30.3159	8.26799	0.001108	0.33396	4.80668	0.945141	0.0002
NH3F	avg_0_1	LAG5	33	35.9856	7.48923	3.5E-05	-1.5017	4.04781	0.713091	0.0043
NH3F	avg_0_1	LAG6	38	42.3017	6.98333	5.25E-07	-2.0875	3.36292	0.538577	0.0103
NH3F	avg_0_1_2	LAG0	13	37.9607	14.7408	0.024311	1.2694	11.3032	0.912439	0.001
NH3F	avg_0_1_2	LAG1	18	35.2442	13.3227	0.017001	3.69046	8.37362	0.664965	0.0113
NH3F	avg_0_1_2	LAG2	16	29.2438	15.4483	0.077814	7.97118	9.1146	0.395606	0.0485
NH3F	avg_0_1_2	LAG3	21	35.2343	10.3441	0.002801	-0.8292	5.88456	0.889355	0.001

NH3F	avg_0_1_2	LAG4	26	32.4381	8.45998	0.000757	-0.6294	4.64302	0.893259	0.0007
NH3F	avg_0_1_2	LAG5	28	37.4835	8.73238	0.000203	-2.0651	4.23754	0.629948	0.0087
NH3F	avg_0_1_2	LAG6	35	44.6127	7.62896	1.36E-06	-2.4328	3.45942	0.486699	0.0143
NH3F	avg_0_1_2_3	LAG0	11	46.142	16.7211	0.020147	-2.1089	11.0822	0.852887	0.0036
NH3F	avg_0_1_2_3	LAG1	14	31.0658	16.6596	0.08495	4.75635	10.0773	0.64476	0.0168
NH3F	avg_0_1_2_3	LAG2	13	37.5241	16.5056	0.042177	1.03056	9.23251	0.912967	0.001
NH3F	avg_0_1_2_3	LAG3	21	36.6547	10.3234	0.002005	-1.8917	5.48216	0.733652	0.0059
NH3F	avg_0_1_2_3	LAG4	22	33.2639	9.69705	0.002513	-1.3936	4.80293	0.77455	0.004
NH3F	avg_0_1_2_3	LAG5	26	39.7092	9.37452	0.00027	-2.4362	4.21513	0.568458	0.0132
NH3F	avg_0_1_2_3	LAG6	30	38.4136	6.79852	4.17E-06	-2.4391	3.37864	0.476128	0.0177
NH3F	avg_0_1_2_3_4	LAG0	7	43.6705	25.0603	0.132032	-2.4576	15.0512	0.875656	0.0044
NH3F	avg_0_1_2_3_4	LAG1	11	38.0516	17.5908	0.055812	-1.7626	9.81803	0.861109	0.0032
NH3F	avg_0_1_2_3_4	LAG2	13	40.4292	16.2514	0.02855	-1.1831	8.29928	0.889005	0.0017
NH3F	avg_0_1_2_3_4	LAG3	17	38.4221	12.3927	0.006874	-2.7282	5.78928	0.643818	0.0137
NH3F	avg_0_1_2_3_4	LAG4	20	35.8838	10.6249	0.003162	-2.0088	4.77781	0.678882	0.0092
NH3F	avg_0_1_2_3_4	LAG5	21	29.775	7.38088	0.00065	-2.3175	3.63682	0.531193	0.0199
NH3F	avg_0_1_2_3_4	LAG6	26	35.2086	7.09278	4.09E-05	-2.7128	3.20161	0.404849	0.0279
NH3F	avg_0_1_2_3_4_5	LAG0	7	45.4706	24.4736	0.112544	-3.7916	13.3907	0.786578	0.0132
NH3F	avg_0_1_2_3_4_5	LAG1	11	40.1104	17.2639	0.042528	-3.1953	8.83214	0.72504	0.0129
NH3F	avg_0_1_2_3_4_5	LAG2	13	42.5112	16.1614	0.021959	-2.4778	7.51344	0.747253	0.009
NH3F	avg_0_1_2_3_4_5	LAG3	17	38.6552	12.3012	0.006295	-2.7597	5.4442	0.619136	0.0158
NH3F	avg_0_1_2_3_4_5	LAG4	17	28.572	8.75869	0.004894	-1.4994	4.44011	0.739978	0.0071
NH3F	avg_0_1_2_3_4_5	LAG5	21	30.0076	7.47206	0.000678	-2.279	3.42512	0.513408	0.0217
NH3F	avg_0_1_2_3_4_5	LAG6	23	35.1789	7.77141	0.000167	-2.764	3.85448	0.480858	0.0228
NH3F	avg_0_1_2_3_4_5_6	LAG0	7	47.5464	24.1105	0.096081	-5.134	12.1592	0.687565	0.0289
NH3F	avg_0_1_2_3_4_5_6	LAG1	11	41.5493	17.1707	0.036075	-3.8981	7.99641	0.636424	0.0232
NH3F	avg_0_1_2_3_4_5_6	LAG2	13	42.8713	15.9875	0.01998	-2.6008	7.03217	0.717941	0.0113
NH3F	avg_0_1_2_3_4_5_6	LAG3	14	30.4002	10.2944	0.011205	-2.3748	5.14586	0.652067	0.0161
NH3F	avg_0_1_2_3_4_5_6	LAG4	17	28.8203	8.84227	0.004923	-1.543	4.1526	0.715089	0.0086
NH3F	avg_0_1_2_3_4_5_6	LAG5	18	29.7578	8.22112	0.002117	-2.6778	4.23724	0.535811	0.023
NH3F	avg_0_1_2_3_4_5_6	LAG6	18	35.2269	8.45461	0.000647	-3.0228	4.65558	0.524836	0.0242
PH	avg_0_1	LAG0	20	-465.51	879.691	0.602816	72.7629	127.76	0.575671	0.0168
PH	avg_0_1	LAG1	30	-551.38	971.904	0.57486	86.8578	140.469	0.541177	0.013
PH	avg_0_1	LAG2	25	-49.111	912.538	0.957526	12.6891	132.445	0.92447	0.0004
PH	avg_0_1	LAG3	36	652.463	434.318	0.141996	-89.807	63.0077	0.162916	0.0549
PH	avg_0_1	LAG4	31	-555.24	477.538	0.254115	84.9885	69.3367	0.229834	0.0477
PH	avg_0_1	LAG5	36	-466.53	489.867	0.347442	72.5875	71.1333	0.31452	0.0289
PH	avg_0_1	LAG6	43	-267.74	401.542	0.508553	44.7619	58.385	0.447567	0.0138
PH	avg_0_1_2	LAG0	17	-976.69	1017.03	0.351178	147.105	147.498	0.333448	0.0585
PH	avg_0_1_2	LAG1	25	1238.49	924.264	0.192802	-173.93	133.94	0.206433	0.0656
PH	avg_0_1_2	LAG2	22	-357.97	1065.31	0.740185	57.866	154.896	0.712462	0.0066
PH	avg_0_1_2	LAG3	28	262.486	697.409	0.709581	-33.496	101.222	0.743265	0.004
PH	avg_0_1_2	LAG4	30	-493.39	563.739	0.388654	76.1794	81.9111	0.360036	0.029
PH	avg_0_1_2	LAG5	34	-642.77	678.128	0.350091	98.3458	98.5972	0.325804	0.0293
PH	avg_0_1_2	LAG6	42	-733.68	478.782	0.13311	112.497	69.5333	0.113355	0.06
PH	avg_0_1_2_3	LAG0	17	-278.14	1148.85	0.811773	45.8375	166.777	0.786955	0.0047
PH	avg_0_1_2_3	LAG1	22	794.289	1099.13	0.477864	-109.53	159.592	0.50004	0.0219
PH	avg_0_1_2_3	LAG2	19	-890.16	1266.16	0.491024	134.334	184.024	0.474795	0.0288
PH	avg_0_1_2_3	LAG3	27	-101.53	826.755	0.903201	19.5114	120.189	0.872294	0.001
PH	avg_0_1_2_3	LAG4	28	-508.2	774.735	0.517397	78.4296	112.674	0.492331	0.0176
PH	avg_0_1_2_3	LAG5	33	-1320.5	679.011	0.060637	196.935	98.6867	0.054554	0.1107
PH	avg_0_1_2_3	LAG6	36	-1259	587.243	0.039067	188.623	85.3987	0.033834	0.1223

PH	avg_0_1_2_3_4	LAG0	14	-588.02	1375.74	0.67607	91.3135	200.017	0.655544	0.0158
PH	avg_0_1_2_3_4	LAG1	19	-50.011	1292.74	0.969566	12.2039	187.581	0.948844	0.0002
PH	avg_0_1_2_3_4	LAG2	18	-1563.9	1304.75	0.247114	232.809	189.897	0.236922	0.0812
PH	avg_0_1_2_3_4	LAG3	25	60.2562	1041.09	0.954325	-3.9625	151.42	0.979339	0
PH	avg_0_1_2_3_4	LAG4	27	-1540.2	812.453	0.069154	228.574	118.113	0.063911	0.1259
PH	avg_0_1_2_3_4	LAG5	27	-1281.3	782.283	0.113482	190.741	113.847	0.105841	0.0974
PH	avg_0_1_2_3_4	LAG6	34	-1108.1	644.534	0.09494	166.536	93.7523	0.084899	0.0873
PH	avg_0_1_2_3_4_5	LAG0	13	-1348.2	1675.91	0.436771	201.599	243.591	0.424043	0.054
PH	avg_0_1_2_3_4_5	LAG1	18	-1097.6	1453.89	0.460634	164.719	211.332	0.44644	0.0345
PH	avg_0_1_2_3_4_5	LAG2	18	-2534.6	1817.05	0.181003	374.24	264.568	0.17526	0.1053
PH	avg_0_1_2_3_4_5	LAG3	24	-1714.9	1170.68	0.156492	254.337	170.232	0.148754	0.0885
PH	avg_0_1_2_3_4_5	LAG4	23	-1341.2	915.269	0.156974	199.277	133.214	0.148883	0.0923
PH	avg_0_1_2_3_4_5	LAG5	27	-1119.9	899.891	0.224411	167.278	130.984	0.212861	0.059
PH	avg_0_1_2_3_4_5	LAG6	30	-1543.6	949.196	0.114725	230.083	138.182	0.106667	0.0873
PH	avg_0_1_2_3_4_5_6	LAG0	13	-3180.8	1771.62	0.097792	468.517	257.807	0.094208	0.2158
PH	avg_0_1_2_3_4_5_6	LAG1	18	-1270.3	1726.13	0.471812	189.929	251.038	0.459661	0.0326
PH	avg_0_1_2_3_4_5_6	LAG2	18	-4884.8	1613.72	0.007603	715.82	234.757	0.007252	0.3536
PH	avg_0_1_2_3_4_5_6	LAG3	21	-1244.2	1160.78	0.296532	185.287	168.907	0.285685	0.0568
PH	avg_0_1_2_3_4_5_6	LAG4	23	-1009.2	970.566	0.309716	150.956	141.258	0.296813	0.0493
PH	avg_0_1_2_3_4_5_6	LAG5	24	-1373.9	1226.45	0.274167	204.31	178.577	0.26435	0.0538
PH	avg_0_1_2_3_4_5_6	LAG6	25	-1158.6	1102.11	0.303592	174.263	160.5	0.288374	0.0468
PO4F	avg_0_1	LAG0	13	50.5496	13.567	0.002895	-229.6	194.895	0.261599	0.1037
PO4F	avg_0_1	LAG1	21	52.5235	9.59875	2.35E-05	-157.29	101.944	0.138524	0.1064
PO4F	avg_0_1	LAG2	16	49.1729	10.2873	0.000243	-174.78	92.8488	0.079326	0.1911
PO4F	avg_0_1	LAG3	22	33.2373	7.29675	0.000172	-114.21	68.3765	0.10969	0.1173
PO4F	avg_0_1	LAG4	21	42.0427	8.06755	4.24E-05	-134.23	54.1768	0.022268	0.2349
PO4F	avg_0_1	LAG5	23	37.1893	6.77633	1.63E-05	-101.26	47.1494	0.043015	0.1733
PO4F	avg_0_1	LAG6	30	46.767	6.34942	4.09E-08	-109.69	39.8819	0.010145	0.2069
PO4F	avg_0_1_2	LAG0	8	61.7596	19.9757	0.017524	-272.1	209.779	0.235714	0.1938
PO4F	avg_0_1_2	LAG1	12	38.4204	10.6179	0.004037	-125.15	104.459	0.256046	0.1154
PO4F	avg_0_1_2	LAG2	10	53.1561	14.3144	0.004819	-189.59	99.083	0.087977	0.2892
PO4F	avg_0_1_2	LAG3	11	33.8763	8.86456	0.003365	-99.006	56.1673	0.10843	0.2371
PO4F	avg_0_1_2	LAG4	18	39.6812	8.2475	0.000163	-115.44	53.6892	0.04622	0.2138
PO4F	avg_0_1_2	LAG5	17	38.4746	9.29703	0.000772	-93.287	49.2889	0.076638	0.1829
PO4F	avg_0_1_2	LAG6	24	52.6698	7.47808	3.55E-07	-119.48	41.7586	0.008832	0.2625
PO4F	avg_0_1_2_3	LAG0	5	52.4903	17.7922	0.041961	-159.32	150.876	0.350554	0.218
PO4F	avg_0_1_2_3	LAG1	6	33.1523	16.1204	0.09485	-109	106.639	0.353599	0.1728
PO4F	avg_0_1_2_3	LAG2	4	57.6833	25.8179	0.111557	-179.46	112.712	0.20958	0.458
PO4F	avg_0_1_2_3	LAG3	9	27.1831	4.96198	0.000589	-67.768	27.2368	0.037633	0.4362
PO4F	avg_0_1_2_3	LAG4	13	41.1705	11.8565	0.00461	-107.29	59.2717	0.095372	0.2145
PO4F	avg_0_1_2_3	LAG5	12	46.5618	12.9686	0.004241	-108.48	56.7757	0.082451	0.2492
PO4F	avg_0_1_2_3	LAG6	17	45.5085	6.55628	3.32E-06	-103.16	35.1812	0.009767	0.3495
PO4F	avg_0_1_2_3_4	LAG0	1	80.2357			-266.94			1
PO4F	avg_0_1_2_3_4	LAG1	2	5.11108	2.18305	0.256982	1.93903	9.05967	0.86577	0.0438
PO4F	avg_0_1_2_3_4	LAG2	2	16.1594	3.3338	0.129522	-29.527	10.7871	0.222989	0.8822
PO4F	avg_0_1_2_3_4	LAG3	6	17.4587	4.38203	0.010487	-32.005	18.0215	0.135904	0.3868
PO4F	avg_0_1_2_3_4	LAG4	8	57.8086	19.3562	0.020325	-144.24	75.1598	0.096457	0.3448
PO4F	avg_0_1_2_3_4	LAG5	7	18.6159	3.98551	0.003428	-33.368	16.1651	0.084567	0.4153
PO4F	avg_0_1_2_3_4	LAG6	12	40.367	9.06552	0.000974	-83.158	38.2448	0.052379	0.3006
PO4F	avg_0_1_2_3_4_5	LAG0	0	4.96			0			
PO4F	avg_0_1_2_3_4_5	LAG1	1	13.3474			-24.253			1
PO4F	avg_0_1_2_3_4_5	LAG2	2	16.0464	3.68126	0.143565	-26.072	10.6536	0.246953	0.8569

PO4F	avg_0_1_2_3_4_5	LAG3	4	15.7885	3.52734	0.020787	-24.364	11.7201	0.129151	0.5902
PO4F	avg_0_1_2_3_4_5	LAG4	4	15.7655	4.41621	0.037554	-25.608	15.3953	0.194823	0.4798
PO4F	avg_0_1_2_3_4_5	LAG5	6	14.1887	2.8923	0.004452	-19.056	10.0945	0.117699	0.4161
PO4F	avg_0_1_2_3_4_5	LAG6	8	36.6953	12.9179	0.025021	-77.623	53.6032	0.190851	0.2305
PO4F	avg_0_1_2_3_4_5_6	LAG0	0	4.96			0			
PO4F	avg_0_1_2_3_4_5_6	LAG1	1	12.654			-19.62			1
PO4F	avg_0_1_2_3_4_5_6	LAG2	2	16.6976	4.80001	0.178202	-26.52	13.2113	0.294231	0.8012
PO4F	avg_0_1_2_3_4_5_6	LAG3	3	16.5351	4.33833	0.062458	-26.046	16.3236	0.251642	0.56
PO4F	avg_0_1_2_3_4_5_6	LAG4	4	16.1389	4.41841	0.035427	-24.769	14.1838	0.179093	0.5041
PO4F	avg_0_1_2_3_4_5_6	LAG5	5	14.7662	3.22573	0.010202	-22.469	12.7628	0.153128	0.4366
PO4F	avg_0_1_2_3_4_5_6	LAG6	5	46.0747	20.1064	0.083715	-105.71	89.2459	0.301781	0.2597
SO4F	avg_0_1	LAG0	20	27.8728	9.45396	0.008253	0.27324	0.2202	0.229763	0.075
SO4F	avg_0_1	LAG1	31	56.6733	13.7353	0.00027	-0.2373	0.35454	0.508448	0.0147
SO4F	avg_0_1	LAG2	25	31.1024	14.6405	0.044134	0.47623	0.83335	0.572999	0.0134
SO4F	avg_0_1	LAG3	36	37.0647	7.38474	1.51E-05	-0.1498	0.20693	0.474023	0.0147
SO4F	avg_0_1	LAG4	32	33.5952	7.15229	5.11E-05	-0.1806	0.19758	0.367637	0.0263
SO4F	avg_0_1	LAG5	36	27.9404	10.5289	0.011893	0.35267	0.59512	0.557257	0.0099
SO4F	avg_0_1	LAG6	43	33.9788	6.43445	4.26E-06	0.30667	0.20494	0.142027	0.0506
SO4F	avg_0_1_2	LAG0	17	26.6392	12.1255	0.043099	0.43038	0.35243	0.239707	0.0853
SO4F	avg_0_1_2	LAG1	25	47.3618	10.632	0.000166	-0.4171	0.35752	0.254821	0.0537
SO4F	avg_0_1_2	LAG2	22	37.404	20.3418	0.080134	0.17745	1.27427	0.890575	0.0009
SO4F	avg_0_1_2	LAG3	28	33.6058	8.7594	0.000681	-0.0924	0.30931	0.767462	0.0033
SO4F	avg_0_1_2	LAG4	30	35.8079	8.28648	0.000166	-0.2399	0.29659	0.425205	0.0221
SO4F	avg_0_1_2	LAG5	34	22.513	13.1945	0.097359	0.76697	0.82727	0.360599	0.0254
SO4F	avg_0_1_2	LAG6	42	34.1893	7.24099	2.73E-05	0.38746	0.2992	0.20257	0.0393
SO4F	avg_0_1_2_3	LAG0	17	23.4909	13.0611	0.090983	0.63328	0.46122	0.188678	0.1054
SO4F	avg_0_1_2_3	LAG1	22	52.8137	12.6382	0.000424	-0.6417	0.49214	0.206392	0.0749
SO4F	avg_0_1_2_3	LAG2	19	39.4023	23.1657	0.106175	-0.3614	1.46711	0.808203	0.0034
SO4F	avg_0_1_2_3	LAG3	27	33.8073	9.89186	0.002089	-0.0609	0.41499	0.884455	0.0008
SO4F	avg_0_1_2_3	LAG4	28	36.2287	9.7241	0.00091	-0.2751	0.40804	0.505926	0.0166
SO4F	avg_0_1_2_3	LAG5	33	24.9742	14.7853	0.100919	0.69418	0.99954	0.492382	0.0148
SO4F	avg_0_1_2_3	LAG6	36	29.8845	7.52999	0.000342	0.48733	0.3506	0.173306	0.0523
SO4F	avg_0_1_2_3_4	LAG0	14	24.7528	16.0068	0.146001	0.71647	0.60806	0.259803	0.0965
SO4F	avg_0_1_2_3_4	LAG1	19	48.5148	13.9411	0.002673	-0.7457	0.58514	0.218739	0.0828
SO4F	avg_0_1_2_3_4	LAG2	18	28.4066	25.683	0.284113	0.506	1.68897	0.768121	0.0053
SO4F	avg_0_1_2_3_4	LAG3	25	33.0394	11.2833	0.007356	-0.0015	0.52141	0.997706	0
SO4F	avg_0_1_2_3_4	LAG4	27	37.714	10.4849	0.001325	-0.3289	0.48938	0.507441	0.0171
SO4F	avg_0_1_2_3_4	LAG5	27	16.1734	14.1871	0.264677	0.95384	0.97152	0.335247	0.0357
SO4F	avg_0_1_2_3_4	LAG6	34	24.5426	7.9642	0.004136	0.77024	0.40656	0.066942	0.0981
SO4F	avg_0_1_2_3_4_5	LAG0	13	23.5488	18.1479	0.218813	0.80624	0.79908	0.332908	0.0782
SO4F	avg_0_1_2_3_4_5	LAG1	18	46.9156	15.8122	0.00864	-0.645	0.75752	0.406334	0.0409
SO4F	avg_0_1_2_3_4_5	LAG2	18	17.716	28.1688	0.537761	1.31854	1.97126	0.512552	0.0256
SO4F	avg_0_1_2_3_4_5	LAG3	24	31.2538	12.265	0.01797	0.18322	0.6491	0.780262	0.0035
SO4F	avg_0_1_2_3_4_5	LAG4	23	29.9857	9.70453	0.00535	-0.1207	0.49257	0.808677	0.0027
SO4F	avg_0_1_2_3_4_5	LAG5	27	8.3945	14.9688	0.579736	1.57835	1.07418	0.153732	0.0767
SO4F	avg_0_1_2_3_4_5	LAG6	30	22.8336	9.37169	0.021206	0.93567	0.52659	0.086089	0.0982
SO4F	avg_0_1_2_3_4_5_6	LAG0	13	21.4331	18.9842	0.280963	0.964	0.89612	0.303192	0.088
SO4F	avg_0_1_2_3_4_5_6	LAG1	18	45.1641	16.5701	0.014384	-0.5798	0.85817	0.50836	0.0261
SO4F	avg_0_1_2_3_4_5_6	LAG2	18	21.5458	28.3278	0.457325	1.07418	2.05409	0.607761	0.0158
SO4F	avg_0_1_2_3_4_5_6	LAG3	21	24.8341	10.716	0.031194	0.26788	0.57728	0.647629	0.0107
SO4F	avg_0_1_2_3_4_5_6	LAG4	23	28.1957	10.123	0.010789	-0.0146	0.55357	0.979199	0
SO4F	avg_0_1_2_3_4_5_6	LAG5	24	9.12023	17.6576	0.610433	1.53596	1.29328	0.247092	0.0578

SO4F	avg_0_1_2_3_4_5_6	LAG6	25	23.5929	10.7279	0.037739	0.94169	0.60735	0.13411	0.091
SULF	avg_0_1	LAG0	20	24.5844	19.8111	0.229731	1.68404	2.8387	0.560014	0.0182
SULF	avg_0_1	LAG1	28	32.4559	21.14	0.13635	1.27008	3.05995	0.681375	0.0063
SULF	avg_0_1	LAG2	25	41.598	25.1084	0.11059	-0.4718	3.44255	0.892146	0.0008
SULF	avg_0_1	LAG3	33	27.7118	17.2181	0.11734	0.93001	2.23547	0.680168	0.0054
SULF	avg_0_1	LAG4	32	20.0103	14.067	0.164868	1.26634	1.77554	0.481049	0.0161
SULF	avg_0_1	LAG5	36	47.3177	15.7068	0.004789	-1.923	2.03144	0.350325	0.025
SULF	avg_0_1	LAG6	43	56.5534	13.356	0.000122	-2.2201	1.66892	0.190603	0.0404
SULF	avg_0_1_2	LAG0	17	31.9502	34.7465	0.371479	0.84451	5.03577	0.868919	0.0018
SULF	avg_0_1_2	LAG1	25	37.931	30.468	0.225171	0.05636	4.35571	0.989783	0
SULF	avg_0_1_2	LAG2	22	35.6818	37.5106	0.3523	0.58258	4.94452	0.907327	0.0007
SULF	avg_0_1_2	LAG3	28	21.151	21.8771	0.342221	1.39919	2.78581	0.61956	0.0093
SULF	avg_0_1_2	LAG4	30	27.2905	17.8709	0.137573	0.48795	2.30492	0.833821	0.0015
SULF	avg_0_1_2	LAG5	34	47.7992	19.8432	0.021746	-1.8104	2.42891	0.461324	0.0166
SULF	avg_0_1_2	LAG6	41	51.9535	14.5397	0.000938	-1.6861	1.74594	0.339985	0.0228
SULF	avg_0_1_2_3	LAG0	17	43.7812	43.4447	0.328576	-0.899	6.19555	0.886439	0.0013
SULF	avg_0_1_2_3	LAG1	22	33.4104	40.2778	0.416151	0.9154	5.48233	0.868988	0.0013
SULF	avg_0_1_2_3	LAG2	19	14.5296	47.354	0.762495	2.52939	6.02427	0.679552	0.0097
SULF	avg_0_1_2_3	LAG3	27	35.8946	24.1272	0.148853	-0.4232	3.0656	0.891273	0.0007
SULF	avg_0_1_2_3	LAG4	28	25.1339	21.7823	0.258665	0.76208	2.69388	0.779416	0.003
SULF	avg_0_1_2_3	LAG5	32	40.9921	18.4942	0.034129	-1.1722	2.18026	0.594668	0.0092
SULF	avg_0_1_2_3	LAG6	36	52.0623	16.2523	0.002893	-1.7831	1.97421	0.372607	0.0228
SULF	avg_0_1_2_3_4	LAG0	14	34.8325	59.7731	0.570035	0.70129	7.9504	0.931055	0.0006
SULF	avg_0_1_2_3_4	LAG1	19	13.5774	45.8744	0.770641	2.71834	5.97461	0.654562	0.0114
SULF	avg_0_1_2_3_4	LAG2	18	53.8417	43.2106	0.229652	-2.318	5.38731	0.672398	0.0108
SULF	avg_0_1_2_3_4	LAG3	25	37.2458	27.8079	0.192988	-0.5309	3.38751	0.876765	0.001
SULF	avg_0_1_2_3_4	LAG4	26	19.0281	18.1557	0.304643	1.12227	2.14006	0.604613	0.0109
SULF	avg_0_1_2_3_4	LAG5	27	40.2105	18.5945	0.039961	-1.3274	2.18226	0.548275	0.014
SULF	avg_0_1_2_3_4	LAG6	33	51.1404	17.951	0.007608	-1.8665	2.1172	0.38458	0.0237
SULF	avg_0_1_2_3_4_5	LAG0	13	28.5031	52.7495	0.598842	1.34579	6.78924	0.846188	0.0033
SULF	avg_0_1_2_3_4_5	LAG1	18	46.2917	43.066	0.297439	-1.3895	5.49738	0.803484	0.0037
SULF	avg_0_1_2_3_4_5	LAG2	18	50.5059	40.2627	0.226668	-1.8366	4.85334	0.709798	0.0084
SULF	avg_0_1_2_3_4_5	LAG3	23	26.5525	21.4877	0.2296	0.41192	2.51949	0.871624	0.0012
SULF	avg_0_1_2_3_4_5	LAG4	23	27.3821	19.2189	0.168261	0.07122	2.26076	0.975154	0
SULF	avg_0_1_2_3_4_5	LAG5	26	38.798	18.6197	0.047566	-1.2948	2.14459	0.551445	0.0144
SULF	avg_0_1_2_3_4_5	LAG6	28	47.3142	19.126	0.019948	-1.4483	2.19798	0.515515	0.0158
SULF	avg_0_1_2_3_4_5_6	LAG0	13	58.9022	52.051	0.279899	-2.6058	6.59264	0.699589	0.0129
SULF	avg_0_1_2_3_4_5_6	LAG1	18	46.1998	42.0837	0.287595	-1.3367	5.20745	0.800496	0.0039
SULF	avg_0_1_2_3_4_5_6	LAG2	17	21.4851	31.859	0.509695	1.02509	3.68022	0.784164	0.0048
SULF	avg_0_1_2_3_4_5_6	LAG3	21	32.4271	21.989	0.155863	-0.4032	2.57764	0.877283	0.0012
SULF	avg_0_1_2_3_4_5_6	LAG4	22	24.1943	19.9814	0.239407	0.25245	2.29212	0.913344	0.0006
SULF	avg_0_1_2_3_4_5_6	LAG5	22	27.772	18.8583	0.155671	-0.1506	2.10456	0.943632	0.0002
SULF	avg_0_1_2_3_4_5_6	LAG6	24	59.0967	22.1557	0.01376	-2.4598	2.53392	0.341764	0.0394
TKNF	avg_0_1	LAG0	20	52.3826	19.8257	0.016069	-3.3526	3.65542	0.370553	0.0424
TKNF	avg_0_1	LAG1	31	86.8299	24.1367	0.001139	-7.5436	4.5776	0.1098	0.083
TKNF	avg_0_1	LAG2	25	66.4153	19.7045	0.002534	-5.4854	3.58519	0.139088	0.0889
TKNF	avg_0_1	LAG3	36	50.0149	13.3097	0.000625	-3.3451	2.46216	0.182968	0.0501
TKNF	avg_0_1	LAG4	32	54.6587	12.6341	0.000146	-4.851	2.21218	0.035946	0.1343
TKNF	avg_0_1	LAG5	36	57.1433	11.5938	1.99E-05	-4.7271	2.07517	0.028949	0.1291
TKNF	avg_0_1	LAG6	43	59.9172	11.1006	2.90E-06	-3.7744	1.89674	0.053135	0.0862
TKNF	avg_0_1_2	LAG0	17	56.55	23.3711	0.027808	-3.8014	4.38015	0.398299	0.045
TKNF	avg_0_1_2	LAG1	25	65.8708	19.6971	0.002704	-5.4445	3.6263	0.146297	0.0859

TKNF	avg_0_1_2	LAG2	22	69.5038	21.6156	0.004152	-5.7053	3.8927	0.157558	0.0928
TKNF	avg_0_1_2	LAG3	28	57.242	14.3782	0.000465	-4.977	2.57529	0.063837	0.1215
TKNF	avg_0_1_2	LAG4	30	54.2003	12.8785	0.000226	-4.5725	2.29896	0.056216	0.12
TKNF	avg_0_1_2	LAG5	34	58.3875	12.2146	3.52E-05	-4.727	2.1042	0.031486	0.1326
TKNF	avg_0_1_2	LAG6	42	59.6466	11.1458	3.60E-06	-3.599	1.91676	0.067557	0.0792
TKNF	avg_0_1_2_3	LAG0	17	60.3035	23.0552	0.018737	-4.4946	4.26244	0.307331	0.065
TKNF	avg_0_1_2_3	LAG1	22	69.5646	21.5527	0.004036	-5.7542	3.90512	0.15545	0.0937
TKNF	avg_0_1_2_3	LAG2	19	63.448	21.1376	0.007658	-5.6747	3.78104	0.150738	0.1112
TKNF	avg_0_1_2_3	LAG3	27	57.2102	14.063	0.000391	-4.7939	2.50287	0.066508	0.1237
TKNF	avg_0_1_2_3	LAG4	28	55.524	13.4928	0.000326	-4.6316	2.32164	0.05623	0.1285
TKNF	avg_0_1_2_3	LAG5	33	57.8868	12.1122	3.77E-05	-4.5021	2.08669	0.038576	0.127
TKNF	avg_0_1_2_3	LAG6	36	52.1199	10.9268	3.21E-05	-2.7549	1.92826	0.16195	0.0551
TKNF	avg_0_1_2_3_4	LAG0	14	64.8026	26.2869	0.02839	-4.7923	4.74166	0.330609	0.0729
TKNF	avg_0_1_2_3_4	LAG1	19	63.1916	21.3492	0.008385	-5.64	3.83392	0.158537	0.1073
TKNF	avg_0_1_2_3_4	LAG2	18	62.4927	20.342	0.006905	-5.2165	3.60563	0.166151	0.1096
TKNF	avg_0_1_2_3_4	LAG3	25	59.2296	14.7597	0.00051	-4.952	2.53385	0.062411	0.1373
TKNF	avg_0_1_2_3_4	LAG4	27	55.3125	13.2722	0.000302	-4.4414	2.27685	0.061953	0.1277
TKNF	avg_0_1_2_3_4	LAG5	27	47.5228	10.6138	0.000133	-3.5706	1.87682	0.068237	0.1222
TKNF	avg_0_1_2_3_4	LAG6	34	52.2185	11.0543	4.15E-05	-2.9336	1.89664	0.131464	0.0676
TKNF	avg_0_1_2_3_4_5	LAG0	13	66.7266	25.6398	0.023121	-5.5802	4.71136	0.25918	0.1047
TKNF	avg_0_1_2_3_4_5	LAG1	18	62.3202	20.7436	0.007981	-5.2089	3.70718	0.178006	0.104
TKNF	avg_0_1_2_3_4_5	LAG2	18	60.8044	19.7139	0.006726	-4.8028	3.40851	0.176845	0.1046
TKNF	avg_0_1_2_3_4_5	LAG3	24	58.4814	14.5221	0.000526	-4.6497	2.49557	0.075259	0.1311
TKNF	avg_0_1_2_3_4_5	LAG4	23	44.661	11.6216	0.000884	-3.314	2.09549	0.128036	0.1021
TKNF	avg_0_1_2_3_4_5	LAG5	27	47.4246	10.5351	0.000125	-3.4901	1.82786	0.067301	0.123
TKNF	avg_0_1_2_3_4_5	LAG6	30	52.7162	12.4201	0.000205	-3.1039	2.21385	0.171523	0.0635
TKNF	avg_0_1_2_3_4_5_6	LAG0	13	68.0246	24.4335	0.016525	-5.746	4.38805	0.214894	0.125
TKNF	avg_0_1_2_3_4_5_6	LAG1	18	60.8635	20.1069	0.007604	-4.8466	3.51304	0.185592	0.1007
TKNF	avg_0_1_2_3_4_5_6	LAG2	18	60.6373	19.1063	0.005553	-4.7513	3.26914	0.164333	0.1105
TKNF	avg_0_1_2_3_4_5_6	LAG3	21	46.9246	12.6861	0.001421	-3.4937	2.26457	0.138563	0.1064
TKNF	avg_0_1_2_3_4_5_6	LAG4	23	44.4811	11.4834	0.000821	-3.2211	2.02936	0.126732	0.1027
TKNF	avg_0_1_2_3_4_5_6	LAG5	24	47.7186	11.9233	0.00056	-3.6368	2.14254	0.10311	0.1113
TKNF	avg_0_1_2_3_4_5_6	LAG6	25	50.5136	14.2353	0.001634	-2.5109	2.6196	0.347374	0.0369
TPF	avg_0_1	LAG0	20	43.8776	9.58644	0.000206	-146.8	111.478	0.203552	0.0836
TPF	avg_0_1	LAG1	30	52.7323	7.91505	2.64E-07	-162.37	82.0604	0.057418	0.1189
TPF	avg_0_1	LAG2	25	49.4709	8.58525	6.13E-06	-183.72	85.3533	0.041625	0.1618
TPF	avg_0_1	LAG3	35	41.4682	6.37234	1.90E-07	-142.54	62.4728	0.028896	0.1328
TPF	avg_0_1	LAG4	32	38.1797	6.02656	4.74E-07	-113.86	44.1795	0.01494	0.1765
TPF	avg_0_1	LAG5	35	41.9685	5.92012	3.45E-08	-138.97	55.6649	0.017553	0.1549
TPF	avg_0_1	LAG6	42	48.5372	5.69182	1.26E-10	-113.8	45.41	0.016274	0.1328
TPF	avg_0_1_2	LAG0	17	47.7395	10.6571	0.000379	-165.78	114.774	0.16793	0.1153
TPF	avg_0_1_2	LAG1	25	50.3311	8.88933	7.87E-06	-203.72	95.8725	0.044092	0.1583
TPF	avg_0_1_2	LAG2	22	51.4328	9.22468	1.56E-05	-174.03	81.9295	0.045695	0.1769
TPF	avg_0_1_2	LAG3	28	40.1657	6.6886	2.09E-06	-126.92	55.9888	0.031621	0.1599
TPF	avg_0_1_2	LAG4	29	40.2215	6.45366	9.82E-07	-141.48	61.0755	0.028069	0.1608
TPF	avg_0_1_2	LAG5	33	42.8645	6.22928	8.70E-08	-127.5	50.9244	0.01758	0.1638
TPF	avg_0_1_2	LAG6	40	49.6892	5.91021	2.73E-10	-124.72	56.3915	0.032921	0.1114
TPF	avg_0_1_2_3	LAG0	17	47.22	10.5311	0.000376	-162.11	114.661	0.176585	0.1111
TPF	avg_0_1_2_3	LAG1	22	52.657	9.50398	1.69E-05	-196.64	91.2349	0.042896	0.1811
TPF	avg_0_1_2_3	LAG2	19	43.7737	9.52459	0.000224	-132.7	74.2627	0.090799	0.1507
TPF	avg_0_1_2_3	LAG3	26	42.4388	7.06685	2.85E-06	-159.96	73.4355	0.039025	0.1595
TPF	avg_0_1_2_3	LAG4	27	40.8943	6.87419	2.81E-06	-128.78	56.8527	0.032066	0.1648

TPF	avg_0_1_2_3	LAG5	31	44.4164	6.48037	1.32E-07	-147.53	62.615	0.025193	0.1562
TPF	avg_0_1_2_3	LAG6	32	47.0726	5.98809	7.15E-09	-114.22	67.9856	0.102999	0.0835
TPF	avg_0_1_2_3_4	LAG0	14	49.951	11.6824	0.000903	-152.26	110.176	0.190264	0.1281
TPF	avg_0_1_2_3_4	LAG1	19	44.8443	9.63334	0.000197	-154.99	82.1493	0.075448	0.1651
TPF	avg_0_1_2_3_4	LAG2	17	45.963	10.2531	0.000377	-158.54	104.037	0.147057	0.1267
TPF	avg_0_1_2_3_4	LAG3	24	43.43	7.53674	7.19E-06	-145.26	67.039	0.040851	0.1695
TPF	avg_0_1_2_3_4	LAG4	25	42.3702	7.24301	4.94E-06	-149.2	72.7484	0.051343	0.1491
TPF	avg_0_1_2_3_4	LAG5	23	39.4048	5.90909	1.05E-06	-151.89	70.4298	0.042223	0.1745
TPF	avg_0_1_2_3_4	LAG6	30	45.4496	6.14491	3.78E-08	-92.674	61.0988	0.140145	0.0735
TPF	avg_0_1_2_3_4_5	LAG0	13	48.4238	11.6845	0.00136	-151.4	102.194	0.16424	0.1546
TPF	avg_0_1_2_3_4_5	LAG1	17	46.5322	10.331	0.00036	-173.39	110.324	0.135601	0.1337
TPF	avg_0_1_2_3_4_5	LAG2	17	46.014	10.1818	0.000349	-142.3	91.3171	0.138717	0.1318
TPF	avg_0_1_2_3_4_5	LAG3	22	44.7149	7.93076	1.35E-05	-156.75	83.6844	0.075037	0.1432
TPF	avg_0_1_2_3_4_5	LAG4	19	37.5857	6.58555	2.06E-05	-146.77	87.716	0.111579	0.1346
TPF	avg_0_1_2_3_4_5	LAG5	23	38.6913	6.00189	1.74E-06	-122.61	63.8469	0.067872	0.1436
TPF	avg_0_1_2_3_4_5	LAG6	24	46.498	7.03098	9.53E-07	-67.557	82.1005	0.41904	0.0286
TPF	avg_0_1_2_3_4_5_6	LAG0	12	49.7399	12.5497	0.002221	-184.01	154.368	0.258345	0.1144
TPF	avg_0_1_2_3_4_5_6	LAG1	17	46.477	10.2483	0.000338	-155.29	97.3378	0.130189	0.1372
TPF	avg_0_1_2_3_4_5_6	LAG2	16	46.8971	10.7245	0.000546	-161.43	121.086	0.202359	0.1059
TPF	avg_0_1_2_3_4_5_6	LAG3	17	39.5459	7.22136	5.08E-05	-155.32	99.5773	0.138362	0.132
TPF	avg_0_1_2_3_4_5_6	LAG4	19	36.7365	6.68788	3.24E-05	-113.57	79.3836	0.169647	0.1021
TPF	avg_0_1_2_3_4_5_6	LAG5	18	40.1438	7.21677	3.44E-05	-115.71	96.8721	0.248714	0.0774
TPF	avg_0_1_2_3_4_5_6	LAG6	20	43.5146	7.18696	8.00E-06	-76.208	72.6817	0.307559	0.0547

UNIVARIATE LAG AVE 0-6
 PORE WATER
 LOG Mosquitofish THg vs Y
 POOLED STATIONS

param	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
CAF	Lavg_0_1	LAG0	16	240.315	87.7826	0.015262	-40.5	17.7142	0.0372	0.2584
CAF	Lavg_0_1	LAG1	28	400.867	99.6725	0.000418	-70.239	20.0732	0.00164	0.312
CAF	Lavg_0_1	LAG2	21	294.336	79.6127	0.001427	-50.848	16.0215	0.00477	0.3349
CAF	Lavg_0_1	LAG3	30	262.448	55.8314	5.82E-05	-47.132	11.3787	0.00027	0.3717
CAF	Lavg_0_1	LAG4	27	273.361	49.4859	8.48E-06	-49.297	9.96451	3.9E-05	0.4849
CAF	Lavg_0_1	LAG5	33	261.939	52.6216	2.12E-05	-46.166	10.6552	0.00014	0.3697
CAF	Lavg_0_1	LAG6	39	239.922	57.4082	0.000165	-40.381	11.6281	0.0013	0.2409
CAF	Lavg_0_1_2	LAG0	14	270.567	96.8423	0.015206	-46.017	19.3792	0.03365	0.3025
CAF	Lavg_0_1_2	LAG1	18	313.237	84.8334	0.001808	-53.915	17.0765	0.00575	0.3696
CAF	Lavg_0_1_2	LAG2	16	373.972	81.7777	0.000366	-67.829	16.5322	0.00094	0.5288
CAF	Lavg_0_1_2	LAG3	20	290.787	61.6005	0.000149	-52.311	12.5251	0.00051	0.4786
CAF	Lavg_0_1_2	LAG4	25	271.581	52.8271	2.91E-05	-49.004	10.6673	0.00012	0.4679
CAF	Lavg_0_1_2	LAG5	28	273.524	61.3286	0.00013	-48.31	12.4541	0.00061	0.3579
CAF	Lavg_0_1_2	LAG6	35	225.858	63.3601	0.001105	-37.417	12.8952	0.00647	0.1985
CAF	Lavg_0_1_2_3	LAG0	10	257.699	115.538	0.052659	-41.846	23.3184	0.1063	0.2635
CAF	Lavg_0_1_2_3	LAG1	13	409.197	86.5158	0.000489	-74.026	17.4806	0.00116	0.5991
CAF	Lavg_0_1_2_3	LAG2	11	351.176	95.3897	0.004236	-63.541	19.4314	0.00843	0.5167
CAF	Lavg_0_1_2_3	LAG3	19	289.423	63.3136	0.000237	-52.089	12.8579	0.00075	0.4769
CAF	Lavg_0_1_2_3	LAG4	20	289.643	64.0518	0.000233	-52.573	12.9695	0.00068	0.4638
CAF	Lavg_0_1_2_3	LAG5	24	264.411	70.4142	0.001031	-46.531	14.4013	0.00369	0.3122
CAF	Lavg_0_1_2_3	LAG6	29	172.869	63.4504	0.010971	-27.406	12.8882	0.04242	0.139
CAF	Lavg_0_1_2_3_4	LAG0	5	419.635	139.25	0.039413	-75.237	28.2326	0.0561	0.6397
CAF	Lavg_0_1_2_3_4	LAG1	8	390.215	100.136	0.005923	-69.795	20.3209	0.01092	0.6276
CAF	Lavg_0_1_2_3_4	LAG2	11	357.682	94.3331	0.003534	-64.927	19.2334	0.00705	0.5326
CAF	Lavg_0_1_2_3_4	LAG3	14	317.609	79.2997	0.001497	-57.433	16.1617	0.00353	0.4927
CAF	Lavg_0_1_2_3_4	LAG4	17	293.886	76.0315	0.00137	-53.338	15.5329	0.00341	0.4243
CAF	Lavg_0_1_2_3_4	LAG5	19	193.663	59.64	0.004473	-33.482	12.17	0.01314	0.296
CAF	Lavg_0_1_2_3_4	LAG6	24	203.131	66.3166	0.005509	-34.564	13.4931	0.01744	0.222
CAF	Lavg_0_1_2_3_4_5	LAG0	5	420.416	139.541	0.03944	-75.469	28.3197	0.0561	0.6397
CAF	Lavg_0_1_2_3_4_5	LAG1	8	392.519	98.7778	0.005366	-70.334	20.0646	0.00992	0.6371
CAF	Lavg_0_1_2_3_4_5	LAG2	11	357.796	96.3353	0.004014	-64.935	19.6387	0.00793	0.5223
CAF	Lavg_0_1_2_3_4_5	LAG3	14	308.854	82.2279	0.0024	-55.633	16.7568	0.00553	0.4588
CAF	Lavg_0_1_2_3_4_5	LAG4	14	231.391	53.4439	0.000817	-42.158	10.9483	0.00201	0.5328
CAF	Lavg_0_1_2_3_4_5	LAG5	19	201.017	59.4001	0.003306	-34.953	12.1096	0.00983	0.3164
CAF	Lavg_0_1_2_3_4_5	LAG6	21	194.804	76.269	0.018906	-32.77	15.5307	0.04765	0.1821
CAF	Lavg_0_1_2_3_4_5_6	LAG0	5	421.244	138.397	0.038262	-75.739	28.1246	0.05449	0.6445
CAF	Lavg_0_1_2_3_4_5_6	LAG1	8	392.587	100.381	0.005816	-70.307	20.3797	0.01069	0.6297
CAF	Lavg_0_1_2_3_4_5_6	LAG2	11	348.812	100.27	0.005934	-63.094	20.4411	0.01151	0.4879
CAF	Lavg_0_1_2_3_4_5_6	LAG3	11	238.674	59.8824	0.002577	-43.113	12.2329	0.0055	0.554
CAF	Lavg_0_1_2_3_4_5_6	LAG4	14	234.833	53.7751	0.000763	-42.789	10.9973	0.00186	0.538
CAF	Lavg_0_1_2_3_4_5_6	LAG5	16	191.278	70.1373	0.015585	-32.964	14.3105	0.03598	0.2613
CAF	Lavg_0_1_2_3_4_5_6	LAG6	16	161.236	91.6757	0.098996	-25.741	18.6869	0.18857	0.1123
CLF	Lavg_0_1	LAG0	20	220.778	91.3221	0.025841	-33.011	16.2245	0.05609	0.1789
CLF	Lavg_0_1	LAG1	31	407.387	118.667	0.001763	-64.087	21.2335	0.00515	0.2329
CLF	Lavg_0_1	LAG2	25	291.715	89.8808	0.003439	-44.99	15.9162	0.00933	0.2498

CLF	Lavg_0_1	LAG3	36	208.266	70.3392	0.005478	-31.364	12.5874	0.0176	0.1507
CLF	Lavg_0_1	LAG4	32	270.549	68.3666	0.000411	-42.79	12.0974	0.0013	0.2875
CLF	Lavg_0_1	LAG5	36	306.803	66.0156	4.63E-05	-49.046	11.8129	0.0002	0.33
CLF	Lavg_0_1	LAG6	43	286.319	63.1177	4.72E-05	-44.19	11.2998	0.00033	0.2669
CLF	Lavg_0_1_2	LAG0	17	227.477	110.952	0.057098	-33.808	19.7057	0.10553	0.1554
CLF	Lavg_0_1_2	LAG1	25	292.706	90.0491	0.003398	-45.234	15.9703	0.00921	0.2505
CLF	Lavg_0_1_2	LAG2	22	302.943	103.661	0.00814	-46.656	18.3484	0.01894	0.2354
CLF	Lavg_0_1_2	LAG3	28	271.339	75.7718	0.001326	-42.663	13.4589	0.00377	0.2712
CLF	Lavg_0_1_2	LAG4	30	275.682	75.1012	0.00097	-43.665	13.3675	0.0028	0.269
CLF	Lavg_0_1_2	LAG5	34	325.248	66.9327	2.79E-05	-52.158	11.9435	0.00012	0.3663
CLF	Lavg_0_1_2	LAG6	42	273.287	68.1617	0.000251	-41.771	12.2245	0.00144	0.2217
CLF	Lavg_0_1_2_3	LAG0	17	230.491	111.506	0.055303	-34.251	19.7509	0.10211	0.1582
CLF	Lavg_0_1_2_3	LAG1	22	306.314	103.326	0.007397	-47.286	18.3015	0.01732	0.2412
CLF	Lavg_0_1_2_3	LAG2	19	322.477	110.473	0.00916	-51.078	19.5249	0.0175	0.2755
CLF	Lavg_0_1_2_3	LAG3	27	279.04	82.1132	0.002195	-44.07	14.6574	0.00579	0.258
CLF	Lavg_0_1_2_3	LAG4	28	304.724	77.1321	0.000504	-48.633	13.6786	0.00142	0.3189
CLF	Lavg_0_1_2_3	LAG5	33	321.823	72.9485	0.000109	-51.556	13.06	0.00041	0.3275
CLF	Lavg_0_1_2_3	LAG6	36	196.652	72.2077	0.010009	-28.515	12.9553	0.03442	0.1216
CLF	Lavg_0_1_2_3_4	LAG0	14	239.231	138.132	0.106935	-35.303	24.4265	0.17205	0.1384
CLF	Lavg_0_1_2_3_4	LAG1	19	319.653	110.831	0.009878	-50.591	19.5932	0.01879	0.2703
CLF	Lavg_0_1_2_3_4	LAG2	18	331.122	122.816	0.0153	-52.754	21.8848	0.02753	0.2547
CLF	Lavg_0_1_2_3_4	LAG3	25	313.861	85.3478	0.001185	-50.044	15.1764	0.00303	0.3118
CLF	Lavg_0_1_2_3_4	LAG4	27	304.788	83.0714	0.001102	-48.694	14.7992	0.00288	0.294
CLF	Lavg_0_1_2_3_4	LAG5	27	239.826	70.3123	0.002126	-37.799	12.6011	0.00589	0.2571
CLF	Lavg_0_1_2_3_4	LAG6	34	179.644	74.2471	0.021212	-25.625	13.2907	0.06249	0.1012
CLF	Lavg_0_1_2_3_4_5	LAG0	13	327.284	149.203	0.048697	-51.533	26.597	0.07657	0.2383
CLF	Lavg_0_1_2_3_4_5	LAG1	18	325.593	122.233	0.016367	-51.745	21.7708	0.02948	0.2494
CLF	Lavg_0_1_2_3_4_5	LAG2	18	343.479	122.425	0.01216	-55.074	21.8606	0.02206	0.2719
CLF	Lavg_0_1_2_3_4_5	LAG3	24	316.724	93.6583	0.00257	-50.636	16.7509	0.00606	0.2843
CLF	Lavg_0_1_2_3_4_5	LAG4	23	214.123	79.4895	0.013264	-33.378	14.2287	0.02841	0.2001
CLF	Lavg_0_1_2_3_4_5	LAG5	27	248.212	70.0277	0.001515	-39.382	12.5752	0.00426	0.2739
CLF	Lavg_0_1_2_3_4_5	LAG6	30	201.997	85.5749	0.025191	-29.732	15.3815	0.06306	0.1141
CLF	Lavg_0_1_2_3_4_5_6	LAG0	13	330.454	150.425	0.048413	-52.19	26.8626	0.07587	0.2393
CLF	Lavg_0_1_2_3_4_5_6	LAG1	18	337.631	122.157	0.013275	-53.989	21.7969	0.02406	0.2652
CLF	Lavg_0_1_2_3_4_5_6	LAG2	18	343.588	124.2	0.013205	-55.161	22.2056	0.02371	0.2663
CLF	Lavg_0_1_2_3_4_5_6	LAG3	21	215.961	83.7929	0.017987	-33.5	14.9958	0.03706	0.1997
CLF	Lavg_0_1_2_3_4_5_6	LAG4	23	222.928	79.0444	0.009965	-35.024	14.1764	0.02172	0.2172
CLF	Lavg_0_1_2_3_4_5_6	LAG5	24	238.971	79.217	0.006145	-37.752	14.2357	0.01425	0.2342
CLF	Lavg_0_1_2_3_4_5_6	LAG6	25	168.267	96.3806	0.093626	-23.457	17.3214	0.18828	0.071
DOC	Lavg_0_1	LAG0	20	176.397	74.2219	0.028139	-33.3	17.4648	0.0718	0.1606
DOC	Lavg_0_1	LAG1	31	300.307	87.1981	0.001713	-59.237	20.5475	0.00722	0.2169
DOC	Lavg_0_1	LAG2	25	255.42	65.6151	0.000691	-51.035	15.3555	0.00284	0.3152
DOC	Lavg_0_1	LAG3	36	179.396	51.6478	0.001387	-34.649	12.2059	0.00749	0.1871
DOC	Lavg_0_1	LAG4	32	191.942	47.3109	0.000312	-37.799	10.941	0.00162	0.278
DOC	Lavg_0_1	LAG5	36	227.259	48.4534	4.07E-05	-45.993	11.4425	0.0003	0.3158
DOC	Lavg_0_1	LAG6	43	215.314	46.4878	3.49E-05	-41.458	10.9489	0.00048	0.2545
DOC	Lavg_0_1_2	LAG0	17	190.456	82.4022	0.034471	-35.992	19.317	0.08089	0.1783
DOC	Lavg_0_1_2	LAG1	25	249.455	67.7629	0.001174	-49.762	15.9011	0.00455	0.2898
DOC	Lavg_0_1_2	LAG2	22	254.096	72.6245	0.002139	-50.143	16.9309	0.00745	0.2946
DOC	Lavg_0_1_2	LAG3	28	205.931	54.7832	0.000834	-40.928	12.8128	0.00355	0.2743
DOC	Lavg_0_1_2	LAG4	30	202.057	52.962	0.000659	-40.224	12.3925	0.00295	0.2665
DOC	Lavg_0_1_2	LAG5	34	233.004	48.983	3.77E-05	-46.976	11.4891	0.00026	0.3363

DOC	Lavg_0_1_2	LAG6	42	215.973	50.3328	0.000106	-41.527	11.8903	0.00116	0.2293
DOC	Lavg_0_1_2_3	LAG0	17	198.901	83.8867	0.030631	-37.938	19.6472	0.0714	0.189
DOC	Lavg_0_1_2_3	LAG1	22	251.994	73.8847	0.002631	-49.729	17.2533	0.00892	0.2835
DOC	Lavg_0_1_2_3	LAG2	19	233.474	74.6773	0.005832	-46.428	17.3085	0.01521	0.2856
DOC	Lavg_0_1_2_3	LAG3	27	210.468	57.747	0.001173	-41.986	13.5795	0.0047	0.2688
DOC	Lavg_0_1_2_3	LAG4	28	213.818	54.5332	0.000545	-42.66	12.6742	0.0023	0.2956
DOC	Lavg_0_1_2_3	LAG5	33	230.186	52.6368	0.000122	-46.263	12.3895	0.00073	0.3035
DOC	Lavg_0_1_2_3	LAG6	36	164.829	49.3434	0.001998	-30.055	11.6489	0.01423	0.1598
DOC	Lavg_0_1_2_3_4	LAG0	14	202.687	95.8887	0.054434	-38.003	22.3067	0.11221	0.1825
DOC	Lavg_0_1_2_3_4	LAG1	19	233.85	76.496	0.006788	-46.592	17.7622	0.01724	0.2765
DOC	Lavg_0_1_2_3_4	LAG2	18	234.645	79.9021	0.009217	-46.716	18.673	0.02286	0.2691
DOC	Lavg_0_1_2_3_4	LAG3	25	224.431	59.5447	0.000942	-44.868	13.8969	0.00358	0.3028
DOC	Lavg_0_1_2_3_4	LAG4	27	210.118	58.4002	0.001322	-41.762	13.6357	0.00505	0.2651
DOC	Lavg_0_1_2_3_4	LAG5	27	167.958	46.3056	0.001226	-32.748	10.8906	0.00579	0.258
DOC	Lavg_0_1_2_3_4	LAG6	34	149.244	50.6558	0.005861	-26.509	11.8907	0.03271	0.1309
DOC	Lavg_0_1_2_3_4_5	LAG0	13	239.963	100.983	0.034999	-47.378	23.6802	0.06857	0.2501
DOC	Lavg_0_1_2_3_4_5	LAG1	18	234.053	81.5698	0.01063	-46.627	19.0854	0.02577	0.2599
DOC	Lavg_0_1_2_3_4_5	LAG2	18	239.297	80.949	0.008843	-47.859	18.9403	0.02172	0.273
DOC	Lavg_0_1_2_3_4_5	LAG3	24	219.713	64.1574	0.002316	-43.728	15.0553	0.00799	0.2684
DOC	Lavg_0_1_2_3_4_5	LAG4	23	153.736	51.8201	0.007122	-29.658	12.1727	0.02338	0.2125
DOC	Lavg_0_1_2_3_4_5	LAG5	27	173.453	46.9293	0.001028	-34.063	11.0448	0.00479	0.2678
DOC	Lavg_0_1_2_3_4_5	LAG6	30	156.837	56.9929	0.010109	-28.402	13.4414	0.04333	0.1334
DOC	Lavg_0_1_2_3_4_5_6	LAG0	13	242.622	101.666	0.034355	-48.074	23.8766	0.06705	0.2525
DOC	Lavg_0_1_2_3_4_5_6	LAG1	18	238.185	82.2926	0.010082	-47.635	19.2713	0.02431	0.2644
DOC	Lavg_0_1_2_3_4_5_6	LAG2	18	237.683	83.2423	0.010951	-47.516	19.4948	0.02607	0.259
DOC	Lavg_0_1_2_3_4_5_6	LAG3	21	159.961	55.1849	0.008881	-30.881	12.9712	0.02734	0.2208
DOC	Lavg_0_1_2_3_4_5_6	LAG4	23	158.845	52.3234	0.006068	-30.875	12.297	0.01989	0.2227
DOC	Lavg_0_1_2_3_4_5_6	LAG5	24	166.921	52.7238	0.004315	-32.56	12.4219	0.01527	0.23
DOC	Lavg_0_1_2_3_4_5_6	LAG6	25	134.691	63.4573	0.044305	-22.919	14.9798	0.1391	0.0889
FEF	Lavg_0_1	LAG0	3	73.1047	201.193	0.751151	-23.107	93.4686	0.8278	0.0297
FEF	Lavg_0_1	LAG1	11	105.133	74.701	0.189628	-14.361	27.6725	0.61507	0.0262
FEF	Lavg_0_1	LAG2	5	-86.786	21.0606	0.014603	47.3508	7.86166	0.00383	0.9007
FEF	Lavg_0_1	LAG3	13	87.2448	28.2609	0.009413	-25.773	11.8784	0.05082	0.2818
FEF	Lavg_0_1	LAG4	8	62.0162	53.6843	0.285913	-12.05	23.0533	0.61732	0.0376
FEF	Lavg_0_1	LAG5	16	69.3238	41.4341	0.115027	-15.579	19.8765	0.44536	0.0393
FEF	Lavg_0_1	LAG6	19	28.9644	35.57	0.426119	7.25669	16.2977	0.66144	0.0109
FEF	Lavg_0_1_2	LAG0	0	6.88			0			
FEF	Lavg_0_1_2	LAG1	1	-11.942			9.92154			1
FEF	Lavg_0_1_2	LAG2	0	9.8575			0			
FEF	Lavg_0_1_2	LAG3	4	319.443	75.0759	0.023798	-142.74	39.1129	0.03551	0.8162
FEF	Lavg_0_1_2	LAG4	4	321.709	192.503	0.193277	-147.89	103.762	0.2493	0.4038
FEF	Lavg_0_1_2	LAG5	9	166.582	95.3034	0.11861	-66.282	49.0522	0.21358	0.1858
FEF	Lavg_0_1_2	LAG6	11	83.6155	36.8783	0.046782	-26.485	18.06	0.17323	0.177
FEF	Lavg_0_1_2_3	LAG0	0	6.88			0			
FEF	Lavg_0_1_2_3	LAG1	0	9.8575			0			
FEF	Lavg_0_1_2_3	LAG3	4	332.966	105.337	0.050833	-151.94	55.7865	0.07233	0.712
FEF	Lavg_0_1_2_3	LAG4	2	-1103.6	2703.65	0.753273	662.716	1514.96	0.73748	0.1606
FEF	Lavg_0_1_2_3	LAG5	7	77.1282	33.7939	0.062601	-26.213	15.9569	0.15154	0.3102
FEF	Lavg_0_1_2_3	LAG6	9	94.159	41.6574	0.053696	-29.138	20.3148	0.18939	0.2046
FEF	Lavg_0_1_2_3_4	LAG3	2	996.532	826.371	0.440746	-527.79	475.023	0.46654	0.5525
FEF	Lavg_0_1_2_3_4	LAG4	0	28.53			0			
FEF	Lavg_0_1_2_3_4	LAG5	5	85.4403	38.1221	0.088501	-27.612	18.0115	0.20005	0.3701

FEF	Lavg_0_1_2_3_4	LAG6	4	106.935	62.294	0.18455	-35.078	30.57	0.3344	0.305
FEF	Lavg_0_1_2_3_4_5	LAG3	0	28.53			0			
FEF	Lavg_0_1_2_3_4_5	LAG4	0	28.53			0			
FEF	Lavg_0_1_2_3_4_5	LAG5	2	76.7099	4.07197	0.033762	-24.551	1.80149	0.04663	0.9946
FEF	Lavg_0_1_2_3_4_5	LAG6	0	31.4			0			
FEF	Lavg_0_1_2_3_4_5_6	LAG3	0	28.53			0			
FEF	Lavg_0_1_2_3_4_5_6	LAG4	0	28.53			0			
FEF	Lavg_0_1_2_3_4_5_6	LAG5	0	31.4			0			
FEF	Lavg_0_1_2_3_4_5_6	LAG6	0	31.4			0			
KF	Lavg_0_1	LAG0	19	-35.328	62.9844	0.581784	36.9549	31.952	0.26257	0.0692
KF	Lavg_0_1	LAG1	30	30.4085	39.0963	0.442995	11.223	20.0099	0.57919	0.0107
KF	Lavg_0_1	LAG2	24	-71.219	56.6471	0.221287	56.5088	28.6658	0.06084	0.1445
KF	Lavg_0_1	LAG3	34	1.3658	26.0232	0.95846	17.3076	13.1226	0.19628	0.0501
KF	Lavg_0_1	LAG4	29	-19.902	31.3013	0.530052	26.7343	16.173	0.1095	0.0889
KF	Lavg_0_1	LAG5	30	-42.266	41.0209	0.311367	37.4642	20.5784	0.07901	0.1026
KF	Lavg_0_1	LAG6	37	-25.59	43.7039	0.561837	33.1499	21.9129	0.13906	0.0598
KF	Lavg_0_1_2	LAG0	16	-55.359	88.8161	0.542451	47.7	44.4477	0.30016	0.0713
KF	Lavg_0_1_2	LAG1	23	-62.992	74.1589	0.4048	52.3337	37.1233	0.1726	0.0828
KF	Lavg_0_1_2	LAG2	20	-60.417	77.9862	0.448045	52.1202	39.0737	0.19801	0.0856
KF	Lavg_0_1_2	LAG3	24	-61.61	67.6207	0.371687	48.4616	33.74	0.16437	0.0823
KF	Lavg_0_1_2	LAG4	23	-36.81	44.4737	0.416737	33.2598	22.2323	0.14886	0.0923
KF	Lavg_0_1_2	LAG5	26	-53.521	49.9351	0.294044	43.9666	25.0194	0.09111	0.1099
KF	Lavg_0_1_2	LAG6	30	-40.101	55.9522	0.479296	40.8497	27.8094	0.15262	0.0693
KF	Lavg_0_1_2_3	LAG0	15	-37.299	88.7619	0.680709	39.4287	44.1579	0.387	0.0539
KF	Lavg_0_1_2_3	LAG1	19	-27.131	92.5487	0.772761	35.9099	45.9225	0.4444	0.0329
KF	Lavg_0_1_2_3	LAG2	15	-81.218	102.934	0.443253	60.3829	51.0798	0.25684	0.0908
KF	Lavg_0_1_2_3	LAG3	19	-41.36	66.008	0.538792	36.4905	32.391	0.27472	0.0659
KF	Lavg_0_1_2_3	LAG4	19	-38.973	52.6144	0.468416	35.2736	26.2696	0.19604	0.091
KF	Lavg_0_1_2_3	LAG5	19	-90.424	65.078	0.181638	61.521	32.0513	0.07092	0.1699
KF	Lavg_0_1_2_3	LAG6	18	5.45254	78.0045	0.945089	20.6222	37.8916	0.59334	0.0171
KF	Lavg_0_1_2_3_4	LAG0	12	22.1225	114.775	0.85067	11.4668	56.5852	0.84311	0.0037
KF	Lavg_0_1_2_3_4	LAG1	14	-55.393	121.53	0.656055	48.0642	59.604	0.43452	0.0476
KF	Lavg_0_1_2_3_4	LAG2	11	-13.928	141.217	0.92338	23.8267	68.5371	0.73531	0.0119
KF	Lavg_0_1_2_3_4	LAG3	15	-27.279	74.8907	0.721112	31.0992	36.6479	0.41038	0.0489
KF	Lavg_0_1_2_3_4	LAG4	13	-61.95	64.8057	0.357965	44.5817	31.7972	0.18623	0.1408
KF	Lavg_0_1_2_3_4	LAG5	10	-154.98	89.4752	0.117295	90.8262	42.8485	0.06307	0.333
KF	Lavg_0_1_2_3_4	LAG6	16	7.24282	72.5801	0.921832	19.0898	35.3222	0.59682	0.0191
KF	Lavg_0_1_2_3_4_5	LAG0	9	87.9571	275.362	0.757587	-18.124	132.835	0.89484	0.0023
KF	Lavg_0_1_2_3_4_5	LAG1	11	-1.9793	165.987	0.99072	17.9386	80.2632	0.82765	0.005
KF	Lavg_0_1_2_3_4_5	LAG2	9	64.6445	186.944	0.738413	-11.966	90.2705	0.89782	0.0022
KF	Lavg_0_1_2_3_4_5	LAG3	10	-100.25	142.826	0.500509	63.716	68.4816	0.37644	0.0877
KF	Lavg_0_1_2_3_4_5	LAG4	7	-108.16	70.2256	0.174435	66.2888	33.8061	0.09758	0.3906
KF	Lavg_0_1_2_3_4_5	LAG5	10	-153.46	86.727	0.110595	90.3656	41.6528	0.05816	0.3434
KF	Lavg_0_1_2_3_4_5	LAG6	10	-63.145	174.908	0.726416	55.1897	83.5953	0.52566	0.0462
KF	Lavg_0_1_2_3_4_5_6	LAG0	7	77.2059	176.558	0.677205	-19.403	85.0716	0.82716	0.0086
KF	Lavg_0_1_2_3_4_5_6	LAG1	9	82.6487	206.907	0.700015	-20.627	99.7115	0.84129	0.0053
KF	Lavg_0_1_2_3_4_5_6	LAG2	5	-117.55	274.95	0.691011	71.0269	131.474	0.61771	0.068
KF	Lavg_0_1_2_3_4_5_6	LAG3	5	-66.417	82.9854	0.468348	47.8248	39.491	0.29254	0.2683
KF	Lavg_0_1_2_3_4_5_6	LAG4	7	-107.12	66.574	0.15872	66.0179	32.157	0.08589	0.4126
KF	Lavg_0_1_2_3_4_5_6	LAG5	5	-262.12	149.095	0.153563	142.656	71.0881	0.11522	0.5017
KF	Lavg_0_1_2_3_4_5_6	LAG6	8	117.467	208.54	0.590822	-27.158	99.0089	0.79177	0.0106
MGF	Lavg_0_1	LAG0	20	215.379	70.2782	0.006378	-46.193	17.9697	0.01872	0.258

MGF	Lavg_0_1	LAG1	31	343.995	90.9145	0.000689	-75.855	23.3696	0.00288	0.2599
MGF	Lavg_0_1	LAG2	25	247.536	70.7603	0.00185	-53.518	18.0261	0.00668	0.2686
MGF	Lavg_0_1	LAG3	36	179.423	53.5295	0.001937	-37.861	13.8245	0.00964	0.1765
MGF	Lavg_0_1	LAG4	32	216.167	51.0312	0.000189	-47.82	13.0056	0.00089	0.3037
MGF	Lavg_0_1	LAG5	36	236.134	51.0674	4.97E-05	-52.533	13.1772	0.00032	0.3123
MGF	Lavg_0_1	LAG6	43	221.826	52.2107	0.000117	-47.041	13.4633	0.00114	0.2252
MGF	Lavg_0_1_2	LAG0	17	223.695	86.0513	0.019358	-47.717	21.9807	0.04533	0.2275
MGF	Lavg_0_1_2	LAG1	25	258.764	70.5821	0.001219	-56.475	18.0096	0.00448	0.2906
MGF	Lavg_0_1_2	LAG2	22	254.786	79.3407	0.004192	-55.017	20.2407	0.01288	0.2603
MGF	Lavg_0_1_2	LAG3	28	223.212	58.2195	0.000686	-49.287	14.9262	0.00271	0.2877
MGF	Lavg_0_1_2	LAG4	30	220.376	55.9939	0.000476	-48.863	14.385	0.002	0.2846
MGF	Lavg_0_1_2	LAG5	34	246.932	53.6618	5.94E-05	-55.121	13.814	0.00035	0.3255
MGF	Lavg_0_1_2	LAG6	42	209.277	54.7103	0.000437	-43.794	14.1783	0.0036	0.1888
MGF	Lavg_0_1_2_3	LAG0	17	212.973	85.9175	0.024704	-44.892	21.9072	0.05721	0.2079
MGF	Lavg_0_1_2_3	LAG1	22	266.595	79.0509	0.002878	-58.05	20.1716	0.00901	0.2828
MGF	Lavg_0_1_2_3	LAG2	19	254.207	82.5766	0.006478	-56.37	21.0669	0.01543	0.2846
MGF	Lavg_0_1_2_3	LAG3	27	226.362	61.8238	0.001123	-50.126	15.9417	0.00413	0.2755
MGF	Lavg_0_1_2_3	LAG4	28	231.923	59.0478	0.000536	-51.582	15.1081	0.00204	0.3015
MGF	Lavg_0_1_2_3	LAG5	33	238.923	57.0814	0.000207	-53.15	14.7842	0.00108	0.2877
MGF	Lavg_0_1_2_3	LAG6	36	157.775	55.2969	0.00722	-31.19	14.3553	0.03666	0.1188
MGF	Lavg_0_1_2_3_4	LAG0	14	220.46	105.154	0.056163	-46.09	26.7649	0.10875	0.1857
MGF	Lavg_0_1_2_3_4	LAG1	19	265.125	82.3676	0.004761	-59.142	21.007	0.01145	0.3057
MGF	Lavg_0_1_2_3_4	LAG2	18	262.99	90.3897	0.009764	-58.696	23.255	0.02185	0.2726
MGF	Lavg_0_1_2_3_4	LAG3	25	241.81	65.2996	0.001112	-53.811	16.7683	0.00376	0.3003
MGF	Lavg_0_1_2_3_4	LAG4	27	228.163	62.9472	0.001234	-50.696	16.2103	0.00431	0.2733
MGF	Lavg_0_1_2_3_4	LAG5	27	176.366	53.1758	0.002694	-38.276	13.794	0.01009	0.2285
MGF	Lavg_0_1_2_3_4	LAG6	34	148.924	56.6528	0.012911	-29.103	14.6519	0.05536	0.1068
MGF	Lavg_0_1_2_3_4_5	LAG0	13	273.945	110.074	0.028498	-60.711	28.3189	0.05323	0.2769
MGF	Lavg_0_1_2_3_4_5	LAG1	18	269.637	89.4029	0.007785	-60.356	22.9797	0.01768	0.2887
MGF	Lavg_0_1_2_3_4_5	LAG2	18	263.732	92.0115	0.0107	-59.028	23.731	0.02355	0.2668
MGF	Lavg_0_1_2_3_4_5	LAG3	24	239.311	70.5983	0.00252	-53.266	18.2661	0.00777	0.2699
MGF	Lavg_0_1_2_3_4_5	LAG4	23	164.254	57.8284	0.00952	-35.421	14.9822	0.02731	0.2026
MGF	Lavg_0_1_2_3_4_5	LAG5	27	183.028	53.549	0.002088	-40.04	13.9025	0.00786	0.2419
MGF	Lavg_0_1_2_3_4_5	LAG6	30	157.609	64.5347	0.020927	-31.494	16.7819	0.07066	0.1083
MGF	Lavg_0_1_2_3_4_5_6	LAG0	13	277.227	110.598	0.027578	-61.664	28.504	0.0514	0.2806
MGF	Lavg_0_1_2_3_4_5_6	LAG1	18	269.955	90.9753	0.008635	-60.567	23.4361	0.01929	0.2821
MGF	Lavg_0_1_2_3_4_5_6	LAG2	18	260.982	93.0872	0.012212	-58.494	24.0822	0.02653	0.2576
MGF	Lavg_0_1_2_3_4_5_6	LAG3	21	170.474	61.5178	0.011785	-36.755	15.942	0.03198	0.21
MGF	Lavg_0_1_2_3_4_5_6	LAG4	23	171.216	58.2422	0.00758	-37.272	15.1079	0.02188	0.2167
MGF	Lavg_0_1_2_3_4_5_6	LAG5	24	175.095	60.0286	0.007761	-38.068	15.621	0.02296	0.2052
MGF	Lavg_0_1_2_3_4_5_6	LAG6	25	130.89	72.2453	0.082559	-24.257	18.8024	0.20931	0.0648
NH3F	Lavg_0_1	LAG0	16	39.9422	10.178	0.001352	3.34298	6.87233	0.63369	0.0155
NH3F	Lavg_0_1	LAG1	27	53.3102	13.3603	0.00048	1.70469	8.20402	0.83701	0.0017
NH3F	Lavg_0_1	LAG2	20	44.6314	9.087	9.69E-05	8.04472	6.78014	0.25004	0.069
NH3F	Lavg_0_1	LAG3	30	37.5297	7.12754	1.21E-05	7.4829	4.41639	0.10091	0.0901
NH3F	Lavg_0_1	LAG4	27	32.6461	6.75814	5.25E-05	3.17422	4.57765	0.4942	0.0182
NH3F	Lavg_0_1	LAG5	33	34.9649	6.16007	2.78E-06	1.46272	4.38331	0.74078	0.0035
NH3F	Lavg_0_1	LAG6	38	40.2834	5.62172	1.71E-08	1.91757	4.23195	0.65311	0.0055
NH3F	Lavg_0_1_2	LAG0	13	41.0632	12.6182	0.006901	3.03237	10.4408	0.77644	0.007
NH3F	Lavg_0_1_2	LAG1	18	42.4747	9.92048	0.000505	6.224	7.73626	0.4322	0.0367
NH3F	Lavg_0_1_2	LAG2	16	43.3696	11.0968	0.001397	10.7023	8.92504	0.24908	0.0875
NH3F	Lavg_0_1_2	LAG3	21	35.5584	8.22716	0.000331	2.59795	6.21549	0.68041	0.0087

NH3F	Lavg_0_1_2	LAG4	26	32.8925	6.83049	6.01E-05	2.42967	5.15856	0.64173	0.0088
NH3F	Lavg_0_1_2	LAG5	28	35.6557	6.80853	1.61E-05	3.10148	5.71321	0.59168	0.0108
NH3F	Lavg_0_1_2	LAG6	35	41.5592	5.83403	3.12E-08	2.23694	4.9394	0.65351	0.006
NH3F	Lavg_0_1_2_3	LAG0	11	44.9412	13.3132	0.007054	1.88639	10.7786	0.86456	0.0031
NH3F	Lavg_0_1_2_3	LAG1	14	40.3537	12.4624	0.006476	7.6464	9.6994	0.44464	0.0456
NH3F	Lavg_0_1_2_3	LAG2	13	41.2113	12.3287	0.005859	5.15731	9.20789	0.58572	0.0255
NH3F	Lavg_0_1_2_3	LAG3	21	34.7876	8.09504	0.000351	1.2649	6.34476	0.84399	0.002
NH3F	Lavg_0_1_2_3	LAG4	22	32.6884	7.70962	0.000366	3.12072	6.04015	0.61079	0.0126
NH3F	Lavg_0_1_2_3	LAG5	26	36.7853	7.12745	2.46E-05	3.00259	5.98692	0.62039	0.01
NH3F	Lavg_0_1_2_3	LAG6	30	35.2049	5.23594	2.23E-07	0.30924	4.62799	0.94718	0.0002
NH3F	Lavg_0_1_2_3_4	LAG0	7	42.2974	20.7472	0.087602	2.25625	15.2277	0.88706	0.0036
NH3F	Lavg_0_1_2_3_4	LAG1	11	36.7891	13.8487	0.024043	1.68645	9.96111	0.86893	0.0029
NH3F	Lavg_0_1_2_3_4	LAG2	13	40.1251	12.2597	0.006667	3.13248	9.1052	0.73678	0.0098
NH3F	Lavg_0_1_2_3_4	LAG3	17	35.0904	9.5309	0.002019	1.85367	7.50554	0.80807	0.0038
NH3F	Lavg_0_1_2_3_4	LAG4	20	33.7894	8.2165	0.000593	2.74719	6.4116	0.67313	0.0096
NH3F	Lavg_0_1_2_3_4	LAG5	21	26.7953	5.70009	0.000137	0.61653	4.90704	0.90127	0.0008
NH3F	Lavg_0_1_2_3_4	LAG6	26	31.0893	5.32933	4.39E-06	-0.2759	4.84685	0.95506	0.0001
NH3F	Lavg_0_1_2_3_4_5	LAG0	7	41.6496	20.6384	0.090142	1.17054	14.3884	0.93781	0.0011
NH3F	Lavg_0_1_2_3_4_5	LAG1	11	35.9471	13.6975	0.025407	0.13789	9.71369	0.98895	0
NH3F	Lavg_0_1_2_3_4_5	LAG2	13	39.7405	11.9525	0.006055	3.31364	9.50554	0.73343	0.01
NH3F	Lavg_0_1_2_3_4_5	LAG3	17	35.041	9.4798	0.001957	1.84289	7.42435	0.80712	0.0038
NH3F	Lavg_0_1_2_3_4_5	LAG4	17	27.1147	6.71551	0.000954	1.62769	5.55978	0.77347	0.0053
NH3F	Lavg_0_1_2_3_4_5	LAG5	21	26.8548	5.57377	0.000105	1.52709	5.13054	0.76904	0.0044
NH3F	Lavg_0_1_2_3_4_5	LAG6	23	30.9581	5.70882	1.9E-05	-1.9405	5.30567	0.71805	0.006
NH3F	Lavg_0_1_2_3_4_5_6	LAG0	7	40.2004	20.254	0.094392	-1.2532	14.2895	0.93297	0.0013
NH3F	Lavg_0_1_2_3_4_5_6	LAG1	11	36.012	13.3132	0.022123	0.36186	10.0358	0.97195	0.0001
NH3F	Lavg_0_1_2_3_4_5_6	LAG2	13	39.5986	11.8797	0.005962	3.27752	9.58244	0.73824	0.0097
NH3F	Lavg_0_1_2_3_4_5_6	LAG3	14	27.3013	7.9207	0.004334	0.37992	6.67472	0.95547	0.0002
NH3F	Lavg_0_1_2_3_4_5_6	LAG4	17	27.0862	6.53052	0.000757	2.62793	5.83625	0.65855	0.0125
NH3F	Lavg_0_1_2_3_4_5_6	LAG5	18	26.1309	6.0434	0.000461	0.02161	5.93116	0.99713	0
NH3F	Lavg_0_1_2_3_4_5_6	LAG6	18	30.6884	6.14508	0.000111	-2.7759	5.90937	0.64451	0.0128
PH	Lavg_0_1	LAG0	20	-929.07	1695.07	0.590003	499.94	878.562	0.57599	0.0168
PH	Lavg_0_1	LAG1	30	-1123.6	1881.17	0.554947	606.549	972.589	0.53774	0.0132
PH	Lavg_0_1	LAG2	25	-129.67	1762.5	0.941959	87.0403	913.208	0.92486	0.0004
PH	Lavg_0_1	LAG3	36	1210.58	836.527	0.156752	-609.79	433.343	0.16819	0.0535
PH	Lavg_0_1	LAG4	31	-1092.6	914.334	0.241456	581.835	473.853	0.22904	0.0479
PH	Lavg_0_1	LAG5	36	-931.66	940.728	0.328795	500.129	487.552	0.31202	0.0292
PH	Lavg_0_1	LAG6	43	-560.02	769.181	0.47061	311.24	398.925	0.43965	0.0143
PH	Lavg_0_1_2	LAG0	17	-1920.9	1965.46	0.342944	1014.39	1017.96	0.33385	0.0584
PH	Lavg_0_1_2	LAG1	25	2342.76	1786.68	0.202186	-1193.1	924.995	0.20941	0.0648
PH	Lavg_0_1_2	LAG2	22	-738.23	2048.13	0.722118	403.598	1062.18	0.70778	0.0068
PH	Lavg_0_1_2	LAG3	28	461.85	1343.22	0.733632	-222.87	695.969	0.75126	0.0038
PH	Lavg_0_1_2	LAG4	30	-988.19	1084.3	0.369619	528.328	562.14	0.35506	0.0296
PH	Lavg_0_1_2	LAG5	34	-1272.6	1301.08	0.335134	677.415	674.747	0.32271	0.0296
PH	Lavg_0_1_2	LAG6	42	-1462.2	921.354	0.120181	779.103	477.544	0.11045	0.061
PH	Lavg_0_1_2_3	LAG0	17	-568	2218.2	0.801165	313.815	1149.44	0.78833	0.0046
PH	Lavg_0_1_2_3	LAG1	22	1478.64	2122.54	0.493668	-745.57	1099.98	0.5053	0.0214
PH	Lavg_0_1_2_3	LAG2	19	-1754.9	2435.44	0.480426	927.603	1262.77	0.47206	0.0291
PH	Lavg_0_1_2_3	LAG3	27	-240.97	1594.62	0.881054	141.903	826.917	0.86508	0.0011
PH	Lavg_0_1_2_3	LAG4	28	-1021.4	1493.08	0.49977	545.865	774.43	0.48693	0.0181
PH	Lavg_0_1_2_3	LAG5	33	-2582.6	1308.18	0.057047	1356.94	678.291	0.05399	0.1112
PH	Lavg_0_1_2_3	LAG6	36	-2465.9	1131.61	0.03614	1298.7	586.913	0.03353	0.1227

PH	Lavg_0_1_2_3_4	LAG0	14	-1174.5	2654.82	0.665469	629.848	1376.77	0.65487	0.0158
PH	Lavg_0_1_2_3_4	LAG1	19	-140.97	2493.75	0.955544	90.6918	1291.91	0.94481	0.0003
PH	Lavg_0_1_2_3_4	LAG2	18	-3060.4	2514.58	0.240204	1606.47	1304.75	0.23499	0.0819
PH	Lavg_0_1_2_3_4	LAG3	25	73.2002	2009.1	0.971237	-20.845	1042.1	0.98421	0
PH	Lavg_0_1_2_3_4	LAG4	27	-3001.7	1565.8	0.066288	1573.17	811.975	0.06362	0.1262
PH	Lavg_0_1_2_3_4	LAG5	27	-2505.4	1507.21	0.108462	1315.16	782.017	0.10459	0.0981
PH	Lavg_0_1_2_3_4	LAG6	34	-2174.4	1241.93	0.089271	1146.98	644.213	0.08421	0.0876
PH	Lavg_0_1_2_3_4_5	LAG0	13	-2645.2	3235.44	0.42953	1391.69	1677.62	0.42298	0.0542
PH	Lavg_0_1_2_3_4_5	LAG1	18	-2164.5	2805.49	0.450984	1140.85	1454.72	0.44369	0.0349
PH	Lavg_0_1_2_3_4_5	LAG2	18	-4932.9	3502.92	0.177092	2578.56	1817.94	0.17415	0.1058
PH	Lavg_0_1_2_3_4_5	LAG3	24	-3348.5	2258.03	0.151673	1754.32	1171.08	0.14773	0.0889
PH	Lavg_0_1_2_3_4_5	LAG4	23	-2622.1	1765.59	0.151705	1375.06	916.124	0.14759	0.0929
PH	Lavg_0_1_2_3_4_5	LAG5	27	-2195.8	1734.34	0.216714	1154.59	899.938	0.21082	0.0595
PH	Lavg_0_1_2_3_4_5	LAG6	30	-3009.3	1831.98	0.111256	1580.77	950.68	0.10713	0.087
PH	Lavg_0_1_2_3_4_5_6	LAG0	13	-6181.9	3420.61	0.095839	3227.49	1774.71	0.094	0.2161
PH	Lavg_0_1_2_3_4_5_6	LAG1	18	-2498.8	3331.62	0.46349	1314.55	1728	0.45724	0.0329
PH	Lavg_0_1_2_3_4_5_6	LAG2	18	-9441.9	3111.6	0.007484	4916.44	1614.13	0.0073	0.3531
PH	Lavg_0_1_2_3_4_5_6	LAG3	21	-2438.6	2240.66	0.289386	1280.27	1162.48	0.28383	0.0572
PH	Lavg_0_1_2_3_4_5_6	LAG4	23	-1978.2	1871.59	0.301992	1040.95	971.11	0.29537	0.0496
PH	Lavg_0_1_2_3_4_5_6	LAG5	24	-2677.8	2364.36	0.269059	1404.92	1227.06	0.264	0.0539
PH	Lavg_0_1_2_3_4_5_6	LAG6	25	-2268.6	2126.49	0.296668	1197.17	1103.71	0.28884	0.0467
PO4F	Lavg_0_1	LAG0	13	8.42575	32.5344	0.80004	-8.3765	8.31863	0.33383	0.0779
PO4F	Lavg_0_1	LAG1	21	5.21715	20.4016	0.800777	-10.512	5.34311	0.06317	0.1621
PO4F	Lavg_0_1	LAG2	16	-1.5769	23.3078	0.946953	-11.336	6.45324	0.09936	0.1706
PO4F	Lavg_0_1	LAG3	22	-5.1472	17.5821	0.772584	-8.5561	4.50635	0.07144	0.1465
PO4F	Lavg_0_1	LAG4	21	-18.612	14.0948	0.20159	-14.503	3.8762	0.00129	0.4118
PO4F	Lavg_0_1	LAG5	23	-15.646	13.8339	0.270254	-12.58	3.61026	0.0021	0.3556
PO4F	Lavg_0_1	LAG6	30	-5.9838	13.4851	0.660526	-12.233	3.51993	0.00163	0.294
PO4F	Lavg_0_1_2	LAG0	8	-2.3073	40.7321	0.95641	-13.803	11.6128	0.27337	0.1679
PO4F	Lavg_0_1_2	LAG1	12	10.3867	23.0145	0.660533	-5.8242	6.51951	0.3908	0.0676
PO4F	Lavg_0_1_2	LAG2	10	-20.798	25.4486	0.43489	-17.83	7.46902	0.04074	0.3877
PO4F	Lavg_0_1_2	LAG3	11	-13.28	14.6701	0.386633	-11.75	4.23434	0.01962	0.435
PO4F	Lavg_0_1_2	LAG4	18	-15.929	15.0047	0.303262	-13.473	4.13208	0.00461	0.3848
PO4F	Lavg_0_1_2	LAG5	17	-18.724	15.0629	0.231748	-14.439	4.21458	0.00347	0.4232
PO4F	Lavg_0_1_2	LAG6	24	-3.5526	15.1914	0.817164	-12.994	4.08404	0.00416	0.3056
PO4F	Lavg_0_1_2_3	LAG0	5	22.6562	34.8453	0.551021	-5.2872	10.6923	0.64689	0.0576
PO4F	Lavg_0_1_2_3	LAG1	6	-6.2236	25.8116	0.81904	-9.9007	8.66671	0.30503	0.207
PO4F	Lavg_0_1_2_3	LAG2	4	-29.68	15.7876	0.156701	-24.358	6.15729	0.02883	0.8391
PO4F	Lavg_0_1_2_3	LAG3	9	-4.4177	6.40424	0.509825	-7.8437	1.93139	0.00363	0.6734
PO4F	Lavg_0_1_2_3	LAG4	13	-19.608	16.6176	0.260883	-15.879	5.03279	0.00829	0.4534
PO4F	Lavg_0_1_2_3	LAG5	12	-17.828	17.3041	0.325002	-16.304	5.12514	0.00874	0.4792
PO4F	Lavg_0_1_2_3	LAG6	17	5.83201	12.7585	0.653738	-8.8518	3.68094	0.02865	0.2655
PO4F	Lavg_0_1_2_3_4	LAG0	1	-50.098			-43.495			1
PO4F	Lavg_0_1_2_3_4	LAG1	2	6.50562	2.68584	0.249258	0.58037	1.51216	0.7667	0.1284
PO4F	Lavg_0_1_2_3_4	LAG2	2	-4.1437	3.4236	0.4396	-9.3402	2.77121	0.18362	0.9191
PO4F	Lavg_0_1_2_3_4	LAG3	6	-0.694	3.65001	0.856684	-5.1341	1.31125	0.01123	0.7541
PO4F	Lavg_0_1_2_3_4	LAG4	8	-24.081	18.0241	0.223337	-22.219	6.25858	0.00934	0.6429
PO4F	Lavg_0_1_2_3_4	LAG5	7	0.13847	3.50829	0.969798	-5.0103	1.21991	0.00631	0.7376
PO4F	Lavg_0_1_2_3_4	LAG6	12	4.60775	13.7113	0.743152	-8.4532	4.63405	0.09539	0.2322
PO4F	Lavg_0_1_2_3_4_5	LAG0	0	4.96			0			
PO4F	Lavg_0_1_2_3_4_5	LAG1	1	-2.8823			-7.3858			1
PO4F	Lavg_0_1_2_3_4_5	LAG2	2	-3.047	3.6021	0.553023	-9.2941	3.20228	0.21124	0.8939

PO4F	Lavg_0_1_2_3_4_5	LAG3	4	2.47343	2.30097	0.361156	-3.9193	1.05798	0.03417	0.8206
PO4F	Lavg_0_1_2_3_4_5	LAG4	4	2.18459	2.65989	0.471659	-3.9999	1.23343	0.04775	0.778
PO4F	Lavg_0_1_2_3_4_5	LAG5	6	3.04558	2.2732	0.237983	-3.3158	0.93894	0.01671	0.7138
PO4F	Lavg_0_1_2_3_4_5	LAG6	8	5.40315	17.2799	0.76363	-7.3922	6.64251	0.30252	0.1503
PO4F	Lavg_0_1_2_3_4_5_6	LAG0	0	4.96			0			
PO4F	Lavg_0_1_2_3_4_5_6	LAG1	1	-1.301			-6.6881			1
PO4F	Lavg_0_1_2_3_4_5_6	LAG2	2	-3.2876	4.82184	0.619035	-10.043	4.53466	0.27	0.8307
PO4F	Lavg_0_1_2_3_4_5_6	LAG3	3	3.30798	2.80319	0.359313	-3.7044	1.17864	0.08807	0.8316
PO4F	Lavg_0_1_2_3_4_5_6	LAG4	4	2.6068	2.50024	0.373753	-3.9601	1.19465	0.04523	0.7855
PO4F	Lavg_0_1_2_3_4_5_6	LAG5	5	2.6243	2.76227	0.395883	-3.4618	1.07053	0.03186	0.7233
PO4F	Lavg_0_1_2_3_4_5_6	LAG6	5	9.09359	27.1167	0.754212	-7.8544	10.2793	0.48739	0.1274
SO4F	Lavg_0_1	LAG0	20	14.6312	23.9062	0.547774	7.32174	7.99074	0.37101	0.0423
SO4F	Lavg_0_1	LAG1	31	38.2818	36.2718	0.299661	4.02075	11.8256	0.73622	0.0038
SO4F	Lavg_0_1	LAG2	25	13.5474	32.34	0.67901	9.7242	12.3631	0.43924	0.0251
SO4F	Lavg_0_1	LAG3	36	42.0366	19.6489	0.039457	-3.0603	6.73259	0.65224	0.0059
SO4F	Lavg_0_1	LAG4	32	42.116	18.6415	0.031044	-4.6281	6.43114	0.47714	0.0164
SO4F	Lavg_0_1	LAG5	36	19.3188	22.7729	0.402021	5.496	8.69112	0.53126	0.0113
SO4F	Lavg_0_1	LAG6	43	8.42346	16.6509	0.61558	12.1631	6.11619	0.05328	0.0861
SO4F	Lavg_0_1_2	LAG0	17	4.8451	31.6955	0.880416	11.2581	10.52	0.30043	0.0668
SO4F	Lavg_0_1_2	LAG1	25	46.8932	28.3018	0.110557	-3.1023	9.87131	0.75603	0.0041
SO4F	Lavg_0_1_2	LAG2	22	19.8081	44.2846	0.659245	7.8475	16.9182	0.64753	0.0101
SO4F	Lavg_0_1_2	LAG3	28	29.4042	23.8913	0.229031	0.84724	8.48008	0.92115	0.0004
SO4F	Lavg_0_1_2	LAG4	30	39.6276	22.1371	0.083886	-3.197	7.81987	0.68567	0.0057
SO4F	Lavg_0_1_2	LAG5	34	-3.2142	27.6617	0.908201	14.4324	10.6274	0.18366	0.0529
SO4F	Lavg_0_1_2	LAG6	42	11.8368	18.5392	0.526717	11.3377	6.96441	0.1112	0.0607
SO4F	Lavg_0_1_2_3	LAG0	17	-9.0627	33.4861	0.790128	16.3897	11.4191	0.17046	0.1141
SO4F	Lavg_0_1_2_3	LAG1	22	59.9463	34.753	0.09923	-7.2518	12.2751	0.56098	0.0163
SO4F	Lavg_0_1_2_3	LAG2	19	28.4155	55.0011	0.6117	2.17759	20.8453	0.91796	0.0006
SO4F	Lavg_0_1_2_3	LAG3	27	23.1382	26.6269	0.39281	3.53886	9.60954	0.71566	0.0052
SO4F	Lavg_0_1_2_3	LAG4	28	32.0962	26.9685	0.244353	-0.3821	9.65969	0.96874	0.0001
SO4F	Lavg_0_1_2_3	LAG5	33	-1.7375	29.1031	0.952765	14.4205	11.3806	0.21426	0.0478
SO4F	Lavg_0_1_2_3	LAG6	36	11.8579	20.5384	0.567397	10.0467	7.66952	0.19874	0.0467
SO4F	Lavg_0_1_2_3_4	LAG0	14	-12.484	42.1109	0.771569	18.4849	14.456	0.22336	0.1117
SO4F	Lavg_0_1_2_3_4	LAG1	19	63.422	39.6879	0.127445	-10.599	14.0203	0.45943	0.0308
SO4F	Lavg_0_1_2_3_4	LAG2	18	3.65999	57.7314	0.95019	12.3634	22.0646	0.58257	0.0181
SO4F	Lavg_0_1_2_3_4	LAG3	25	15.951	30.5625	0.606514	6.37947	11.1592	0.57286	0.0134
SO4F	Lavg_0_1_2_3_4	LAG4	27	31.1969	27.8052	0.272125	0.29783	10.1755	0.97687	0
SO4F	Lavg_0_1_2_3_4	LAG5	27	-8.1346	29.5538	0.785302	14.6995	11.4596	0.21091	0.0595
SO4F	Lavg_0_1_2_3_4	LAG6	34	-7.9787	20.8527	0.704452	17.3159	7.87096	0.03492	0.1279
SO4F	Lavg_0_1_2_3_4_5	LAG0	13	-13.973	49.3605	0.781944	19.1011	17.5086	0.29671	0.0902
SO4F	Lavg_0_1_2_3_4_5	LAG1	18	45.7369	44.5151	0.318608	-3.7387	16.1513	0.8197	0.0031
SO4F	Lavg_0_1_2_3_4_5	LAG2	18	-17.999	57.7688	0.759161	21.0778	22.4497	0.36094	0.0493
SO4F	Lavg_0_1_2_3_4_5	LAG3	24	6.59737	31.8863	0.837907	10.6152	12.0172	0.3862	0.0328
SO4F	Lavg_0_1_2_3_4_5	LAG4	23	17.3258	27.403	0.533733	3.97376	10.0551	0.6965	0.007
SO4F	Lavg_0_1_2_3_4_5	LAG5	27	-20.317	28.3561	0.480073	19.7493	11.1401	0.08798	0.1078
SO4F	Lavg_0_1_2_3_4_5	LAG6	30	-14.315	25.323	0.576214	19.94	9.67451	0.04836	0.1278
SO4F	Lavg_0_1_2_3_4_5_6	LAG0	13	-15.118	50.1081	0.768045	19.7568	18.005	0.29404	0.0912
SO4F	Lavg_0_1_2_3_4_5_6	LAG1	18	33.521	44.6075	0.462649	0.79816	16.5024	0.96199	0.0001
SO4F	Lavg_0_1_2_3_4_5_6	LAG2	18	-10.623	55.5841	0.850698	18.4551	21.9059	0.41122	0.0401
SO4F	Lavg_0_1_2_3_4_5_6	LAG3	21	4.35002	29.308	0.883494	9.39555	10.933	0.40032	0.0356
SO4F	Lavg_0_1_2_3_4_5_6	LAG4	23	8.74951	26.882	0.747894	7.32014	10.0568	0.47436	0.0235
SO4F	Lavg_0_1_2_3_4_5_6	LAG5	24	-23.523	35.7019	0.51652	20.949	14.0417	0.14931	0.0882

SO4F	Lavg_0_1_2_3_4_5_6	LAG6	25	-10.035	30.4127	0.744293	18.4301	11.4942	0.12192	0.0968
SULF	Lavg_0_1	LAG0	20	35.1944	23.1711	0.145255	0.16606	12.5816	0.98961	0
SULF	Lavg_0_1	LAG1	28	20.8604	24.7139	0.406042	11.1261	13.2919	0.40991	0.0253
SULF	Lavg_0_1	LAG2	25	38.854	45.4783	0.401364	-0.2859	23.7146	0.99048	0
SULF	Lavg_0_1	LAG3	33	28.0331	22.2174	0.216153	3.40396	11.3773	0.76673	0.0028
SULF	Lavg_0_1	LAG4	32	12.7218	19.5691	0.520419	8.79685	9.99953	0.38578	0.0244
SULF	Lavg_0_1	LAG5	36	58.6668	30.0655	0.059061	-13.165	15.3702	0.39754	0.0205
SULF	Lavg_0_1	LAG6	43	64.7787	19.7893	0.002131	-12.95	10.0383	0.20407	0.0381
SULF	Lavg_0_1_2	LAG0	17	32.6163	58.1675	0.582749	2.67214	30.855	0.93206	0.0005
SULF	Lavg_0_1_2	LAG1	25	24.6555	53.8994	0.651472	7.26174	28.3818	0.80024	0.0027
SULF	Lavg_0_1_2	LAG2	22	32.6831	70.7668	0.648943	3.70079	35.5818	0.91815	0.0005
SULF	Lavg_0_1_2	LAG3	28	5.89744	41.8612	0.88901	13.0316	20.9119	0.5384	0.0142
SULF	Lavg_0_1_2	LAG4	30	10.5291	35.947	0.771679	10.4576	18.2443	0.57093	0.0112
SULF	Lavg_0_1_2	LAG5	34	63.3491	41.7822	0.138997	-14.719	20.492	0.47763	0.0154
SULF	Lavg_0_1_2	LAG6	41	67.9441	29.7719	0.027875	-14.554	14.6143	0.32529	0.0242
SULF	Lavg_0_1_2_3	LAG0	17	52.4224	82.1914	0.53262	-7.7679	42.8401	0.85839	0.0021
SULF	Lavg_0_1_2_3	LAG1	22	14.423	79.5826	0.857922	13.1001	40.5528	0.74986	0.0049
SULF	Lavg_0_1_2_3	LAG2	19	-28.975	101.961	0.779516	31.054	50.0339	0.5426	0.021
SULF	Lavg_0_1_2_3	LAG3	27	30.0461	51.728	0.566345	1.316	25.6995	0.95955	0.0001
SULF	Lavg_0_1_2_3	LAG4	28	5.46484	47.5369	0.909327	12.6978	23.3984	0.5918	0.0108
SULF	Lavg_0_1_2_3	LAG5	32	52.25	41.1679	0.213819	-10.08	19.77	0.61377	0.0083
SULF	Lavg_0_1_2_3	LAG6	36	70.4223	35.7372	0.056725	-16.014	17.512	0.36673	0.0233
SULF	Lavg_0_1_2_3_4	LAG0	14	22.3214	125.561	0.861641	8.89677	62.877	0.88965	0.0015
SULF	Lavg_0_1_2_3_4	LAG1	19	-38.273	102.562	0.71338	36.0662	50.9448	0.48804	0.0271
SULF	Lavg_0_1_2_3_4	LAG2	18	71.7027	97.5578	0.472372	-17.656	47.5655	0.71507	0.008
SULF	Lavg_0_1_2_3_4	LAG3	25	34.9302	62.5304	0.581602	-0.9351	30.3246	0.97565	0
SULF	Lavg_0_1_2_3_4	LAG4	26	-3.3987	41.2018	0.934914	15.2902	19.8019	0.44726	0.0233
SULF	Lavg_0_1_2_3_4	LAG5	27	54.8351	41.8931	0.20201	-12.303	20.0409	0.54461	0.0143
SULF	Lavg_0_1_2_3_4	LAG6	33	69.9433	40.7964	0.096118	-16.48	19.6174	0.40709	0.0216
SULF	Lavg_0_1_2_3_4_5	LAG0	13	3.05625	113.313	0.978926	17.7439	56.0889	0.75717	0.0083
SULF	Lavg_0_1_2_3_4_5	LAG1	18	46.4632	98.9773	0.644725	-5.362	48.8218	0.91383	0.0007
SULF	Lavg_0_1_2_3_4_5	LAG2	18	64.1577	89.7841	0.484568	-13.782	43.1775	0.75346	0.006
SULF	Lavg_0_1_2_3_4_5	LAG3	23	15.3315	47.7716	0.751289	7.03182	22.8293	0.76097	0.0043
SULF	Lavg_0_1_2_3_4_5	LAG4	23	21.3999	43.6951	0.629156	3.17059	20.9547	0.88111	0.001
SULF	Lavg_0_1_2_3_4_5	LAG5	26	55.7932	41.2819	0.188633	-13.296	19.5715	0.50315	0.0181
SULF	Lavg_0_1_2_3_4_5	LAG6	28	60.7792	42.9476	0.168443	-12.248	20.4074	0.55339	0.0132
SULF	Lavg_0_1_2_3_4_5_6	LAG0	13	75.835	117.514	0.530862	-18.289	57.7206	0.7568	0.0083
SULF	Lavg_0_1_2_3_4_5_6	LAG1	18	46.2386	94.7531	0.631791	-5.1781	46.0747	0.91183	0.0007
SULF	Lavg_0_1_2_3_4_5_6	LAG2	17	-1.7532	71.4752	0.980734	15.1186	33.7208	0.65991	0.0124
SULF	Lavg_0_1_2_3_4_5_6	LAG3	21	32.7361	49.6822	0.517468	-1.7473	23.7179	0.942	0.0003
SULF	Lavg_0_1_2_3_4_5_6	LAG4	22	16.1676	44.9295	0.722557	4.83154	21.2393	0.82225	0.0025
SULF	Lavg_0_1_2_3_4_5_6	LAG5	22	28.8322	42.7273	0.507168	-1.1109	19.9368	0.95609	0.0001
SULF	Lavg_0_1_2_3_4_5_6	LAG6	24	83.6758	49.9736	0.107598	-21.581	23.6248	0.37047	0.035
TKNF	Lavg_0_1	LAG0	20	51.9683	30.7515	0.107381	-10.685	19.3445	0.58713	0.0158
TKNF	Lavg_0_1	LAG1	31	105.593	35.8007	0.006118	-37.016	23.0727	0.11912	0.079
TKNF	Lavg_0_1	LAG2	25	76.9746	31.9889	0.024174	-24.701	19.907	0.22666	0.0603
TKNF	Lavg_0_1	LAG3	36	52.3793	20.8221	0.016626	-12.506	13.2877	0.35308	0.0247
TKNF	Lavg_0_1	LAG4	32	69.5867	20.8757	0.002232	-25.65	12.8769	0.05525	0.1135
TKNF	Lavg_0_1	LAG5	36	71.6347	19.2237	0.000683	-25.145	12.1704	0.04629	0.1087
TKNF	Lavg_0_1	LAG6	43	69.7765	19.1617	0.000738	-18.997	11.8405	0.11611	0.0578
TKNF	Lavg_0_1_2	LAG0	17	57.4029	36.8625	0.138977	-12.867	23.3147	0.58864	0.0187
TKNF	Lavg_0_1_2	LAG1	25	75.5816	31.2887	0.023685	-24.022	19.6182	0.23266	0.0588

TKNF	Lavg_0_1_2	LAG2	22	82.0899	35.5387	0.031151	-26.733	21.9921	0.23764	0.0657
TKNF	Lavg_0_1_2	LAG3	28	71.1007	23.8778	0.006068	-25.319	14.8962	0.10068	0.0967
TKNF	Lavg_0_1_2	LAG4	30	69.1745	21.7022	0.003427	-24.791	13.6105	0.07887	0.1027
TKNF	Lavg_0_1_2	LAG5	34	75.3552	21.1563	0.001145	-26.657	13.0765	0.04958	0.1118
TKNF	Lavg_0_1_2	LAG6	42	67.2597	19.4987	0.001314	-16.961	12.1186	0.16917	0.0456
TKNF	Lavg_0_1_2_3	LAG0	17	64.8639	36.964	0.098423	-17.564	23.1937	0.45988	0.0346
TKNF	Lavg_0_1_2_3	LAG1	22	81.5645	34.8727	0.029305	-26.534	21.6684	0.23431	0.0666
TKNF	Lavg_0_1_2_3	LAG2	19	78.9887	35.2613	0.037942	-28.593	21.8524	0.20719	0.0869
TKNF	Lavg_0_1_2_3	LAG3	27	71.7668	23.7469	0.005577	-25.255	14.8635	0.10124	0.0999
TKNF	Lavg_0_1_2_3	LAG4	28	73.2245	23.3327	0.004083	-26.707	14.3343	0.07336	0.1139
TKNF	Lavg_0_1_2_3	LAG5	33	72.5978	21.1786	0.001692	-24.542	13.1669	0.07153	0.0979
TKNF	Lavg_0_1_2_3	LAG6	36	56.3763	19.1207	0.005657	-11.887	11.9992	0.32866	0.0273
TKNF	Lavg_0_1_2_3_4	LAG0	14	73.2395	43.5281	0.116305	-21.079	26.9435	0.44803	0.045
TKNF	Lavg_0_1_2_3_4	LAG1	19	77.6605	35.206	0.040629	-27.791	21.848	0.21956	0.0825
TKNF	Lavg_0_1_2_3_4	LAG2	18	78.3801	34.6167	0.036926	-27.476	21.5826	0.22013	0.087
TKNF	Lavg_0_1_2_3_4	LAG3	25	77.5644	25.5691	0.00573	-28.187	15.6906	0.08503	0.1185
TKNF	Lavg_0_1_2_3_4	LAG4	27	71.5929	23.1086	0.004632	-25.286	14.2778	0.08828	0.1076
TKNF	Lavg_0_1_2_3_4	LAG5	27	58.8366	18.6844	0.004087	-19.15	11.7308	0.11464	0.093
TKNF	Lavg_0_1_2_3_4	LAG6	34	58.8226	19.7331	0.005364	-14.014	12.1629	0.25752	0.0387
TKNF	Lavg_0_1_2_3_4_5	LAG0	13	80.7153	43.6371	0.089127	-27.276	27.5865	0.34231	0.0753
TKNF	Lavg_0_1_2_3_4_5	LAG1	18	77.1	34.9866	0.04162	-26.703	21.8637	0.23863	0.0807
TKNF	Lavg_0_1_2_3_4_5	LAG2	18	76.4519	34.4688	0.040464	-26.014	21.2982	0.23859	0.0807
TKNF	Lavg_0_1_2_3_4_5	LAG3	24	74.9813	25.4488	0.007246	-26.136	15.7571	0.11075	0.1068
TKNF	Lavg_0_1_2_3_4_5	LAG4	23	54.2084	20.204	0.013585	-17.109	12.7736	0.19411	0.0754
TKNF	Lavg_0_1_2_3_4_5	LAG5	27	59.2988	18.884	0.004177	-19.24	11.7366	0.1132	0.0937
TKNF	Lavg_0_1_2_3_4_5	LAG6	30	60.3508	21.9095	0.010044	-15.151	13.7293	0.27888	0.0403
TKNF	Lavg_0_1_2_3_4_5_6	LAG0	13	86.3644	42.1824	0.06316	-30.728	26.4472	0.26788	0.1011
TKNF	Lavg_0_1_2_3_4_5_6	LAG1	18	75.5302	34.782	0.044334	-25.498	21.5606	0.25324	0.076
TKNF	Lavg_0_1_2_3_4_5_6	LAG2	18	76.7493	33.5594	0.035293	-26.22	20.7162	0.22271	0.0861
TKNF	Lavg_0_1_2_3_4_5_6	LAG3	21	56.7744	22.1903	0.01873	-17.876	13.9142	0.21357	0.0762
TKNF	Lavg_0_1_2_3_4_5_6	LAG4	23	54.7171	20.328	0.013324	-17.256	12.7219	0.18872	0.0772
TKNF	Lavg_0_1_2_3_4_5_6	LAG5	24	59.0121	21.1535	0.010413	-19.229	13.2835	0.16122	0.0835
TKNF	Lavg_0_1_2_3_4_5_6	LAG6	25	55.4165	24.9301	0.035898	-11.346	15.7835	0.47919	0.0211
TPF	Lavg_0_1	LAG0	20	10.4621	22.7903	0.651401	-7.0521	6.09149	0.26133	0.0659
TPF	Lavg_0_1	LAG1	30	2.41831	18.1112	0.8947	-11.279	4.76923	0.02494	0.1617
TPF	Lavg_0_1	LAG2	25	-15.399	20.0195	0.449283	-15.134	5.33809	0.00915	0.2509
TPF	Lavg_0_1	LAG3	35	-7.0405	16.5538	0.67329	-11.082	4.32565	0.01501	0.1618
TPF	Lavg_0_1	LAG4	32	-11.311	12.9541	0.389303	-11.81	3.51728	0.00209	0.2667
TPF	Lavg_0_1	LAG5	35	-16.989	15.009	0.265592	-13.724	3.83323	0.00106	0.2738
TPF	Lavg_0_1	LAG6	42	-2.1521	13.6517	0.875511	-11.935	3.56595	0.00176	0.2146
TPF	Lavg_0_1_2	LAG0	17	8.37838	25.2528	0.744362	-8.3918	6.86385	0.23919	0.0854
TPF	Lavg_0_1_2	LAG1	25	-12.973	20.6842	0.536442	-14.476	5.5335	0.01515	0.2219
TPF	Lavg_0_1_2	LAG2	22	-17.898	21.8152	0.421183	-16.689	5.95215	0.01064	0.2724
TPF	Lavg_0_1_2	LAG3	28	-11.882	16.173	0.468859	-12.333	4.32183	0.0082	0.2317
TPF	Lavg_0_1_2	LAG4	29	-15.975	15.8332	0.321636	-13.288	4.18576	0.00363	0.2647
TPF	Lavg_0_1_2	LAG5	33	-16.831	14.7993	0.263862	-14.354	3.9171	0.00089	0.2956
TPF	Lavg_0_1_2	LAG6	40	3.90428	15.8947	0.807254	-10.529	4.11584	0.01452	0.1437
TPF	Lavg_0_1_2_3	LAG0	17	4.3998	25.641	0.865909	-9.4976	6.96262	0.19142	0.1042
TPF	Lavg_0_1_2_3	LAG1	22	-15.796	21.9749	0.480171	-16.123	6.00786	0.0139	0.2554
TPF	Lavg_0_1_2_3	LAG2	19	-16.533	22.0966	0.463984	-14.82	6.09757	0.02576	0.2471
TPF	Lavg_0_1_2_3	LAG3	26	-15.202	18.5945	0.421331	-13.385	4.85656	0.01076	0.233
TPF	Lavg_0_1_2_3	LAG4	27	-16.667	15.7727	0.300381	-14.104	4.31717	0.00305	0.291

TPF	Lavg_0_1_2_3	LAG5	31	-16.303	17.267	0.352613	-14.305	4.4876	0.00334	0.253
TPF	Lavg_0_1_2_3	LAG6	32	15.3296	17.1604	0.378575	-7.0038	4.4245	0.12358	0.0748
TPF	Lavg_0_1_2_3_4	LAG0	14	3.0859	28.8509	0.916453	-10.776	7.97087	0.19947	0.1233
TPF	Lavg_0_1_2_3_4	LAG1	19	-18.087	22.2619	0.427128	-15.231	6.13508	0.02313	0.2551
TPF	Lavg_0_1_2_3_4	LAG2	17	-19.594	27.6754	0.489126	-15.645	7.27514	0.04715	0.2242
TPF	Lavg_0_1_2_3_4	LAG3	24	-16.334	18.2135	0.37912	-14.312	4.89552	0.00764	0.2709
TPF	Lavg_0_1_2_3_4	LAG4	25	-16.529	18.9105	0.390757	-14.068	5.02653	0.00996	0.2461
TPF	Lavg_0_1_2_3_4	LAG5	23	-10.862	17.3939	0.538759	-11.496	4.44896	0.01694	0.2328
TPF	Lavg_0_1_2_3_4	LAG6	30	16.2809	16.4635	0.330888	-6.5929	4.33266	0.13892	0.0739
TPF	Lavg_0_1_2_3_4_5	LAG0	13	-7.0371	30.502	0.821428	-12.947	8.1881	0.13981	0.1724
TPF	Lavg_0_1_2_3_4_5	LAG1	17	-20.234	27.836	0.477788	-15.817	7.32048	0.04623	0.2259
TPF	Lavg_0_1_2_3_4_5	LAG2	17	-17.566	26.1442	0.511233	-15.358	6.96097	0.04233	0.2333
TPF	Lavg_0_1_2_3_4_5	LAG3	22	-14.44	22.1473	0.521481	-13.842	5.75521	0.02547	0.216
TPF	Lavg_0_1_2_3_4_5	LAG4	19	-8.6165	20.641	0.68129	-10.649	5.30856	0.06012	0.1827
TPF	Lavg_0_1_2_3_4_5	LAG5	23	-5.3635	16.8283	0.752945	-10.18	4.34651	0.02864	0.1996
TPF	Lavg_0_1_2_3_4_5	LAG6	24	23.0791	20.3499	0.268429	-5.3725	5.20169	0.31242	0.0443
TPF	Lavg_0_1_2_3_4_5_6	LAG0	12	-9.1186	38.5444	0.817334	-13.582	10.0023	0.2017	0.1436
TPF	Lavg_0_1_2_3_4_5_6	LAG1	17	-18.402	26.4063	0.495879	-15.562	7.02542	0.0416	0.2347
TPF	Lavg_0_1_2_3_4_5_6	LAG2	16	-19.368	31.451	0.547247	-15.839	8.19671	0.07243	0.1993
TPF	Lavg_0_1_2_3_4_5_6	LAG3	17	-2.3089	23.3549	0.922476	-9.3571	5.95631	0.13576	0.1336
TPF	Lavg_0_1_2_3_4_5_6	LAG4	19	-2.4511	20.024	0.903932	-9.1707	5.2221	0.09607	0.1463
TPF	Lavg_0_1_2_3_4_5_6	LAG5	18	3.8221	21.963	0.863902	-8.2738	5.58464	0.15677	0.1143
TPF	Lavg_0_1_2_3_4_5_6	LAG6	20	11.8803	20.3291	0.565828	-7.3931	5.20696	0.17185	0.0959

UNIVARIATE LAG AVE 0-6
 PORE WATER
 Mosquitofish THg vs LOG Y
 POOLED STATIONS

param	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
CAF	avg_0_1	LAG0	16	4.67842	0.48173	7.33E-08	-0.0092	0.00285	0.005449	0.4123
CAF	avg_0_1	LAG1	28	4.92429	0.49807	1.81E-10	-0.0101	0.00292	0.001855	0.306
CAF	avg_0_1	LAG2	21	4.73596	0.55961	4.84E-08	-0.0102	0.00327	0.005581	0.3253
CAF	avg_0_1	LAG3	30	4.65361	0.35018	7.31E-14	-0.0121	0.00216	4.77E-06	0.5197
CAF	avg_0_1	LAG4	27	4.80441	0.24807	5.71E-17	-0.0121	0.00147	1.00E-08	0.7233
CAF	avg_0_1	LAG5	33	4.74058	0.27664	1.11E-17	-0.0108	0.00168	2.79E-07	0.5668
CAF	avg_0_1	LAG6	39	4.59428	0.37265	7.49E-15	-0.009	0.00227	0.000307	0.2933
CAF	avg_0_1_2	LAG0	14	4.81161	0.56181	1.05E-06	-0.0098	0.00322	0.009194	0.4181
CAF	avg_0_1_2	LAG1	18	4.77079	0.63259	8.07E-07	-0.0099	0.00367	0.014814	0.3019
CAF	avg_0_1_2	LAG2	16	5.02191	0.55768	1.95E-07	-0.0135	0.0033	0.00095	0.5282
CAF	avg_0_1_2	LAG3	20	4.9044	0.28463	4.69E-13	-0.0123	0.00174	1.01E-06	0.7242
CAF	avg_0_1_2	LAG4	25	4.71216	0.25751	1.33E-15	-0.0115	0.00154	1.03E-07	0.6993
CAF	avg_0_1_2	LAG5	28	4.78304	0.31096	7.00E-15	-0.0111	0.00191	3.49E-06	0.5556
CAF	avg_0_1_2	LAG6	35	4.55931	0.40741	6.06E-13	-0.0088	0.00253	0.001382	0.263
CAF	avg_0_1_2_3	LAG0	10	4.81172	0.6411	3.672E-05	-0.0082	0.00374	0.054874	0.3508
CAF	avg_0_1_2_3	LAG1	13	5.12033	0.66107	5.23E-06	-0.0138	0.00385	0.003817	0.5158
CAF	avg_0_1_2_3	LAG2	11	5.03011	0.4109	2.42E-07	-0.0126	0.0025	0.000516	0.7165
CAF	avg_0_1_2_3	LAG3	19	4.85233	0.29616	2.92E-12	-0.0121	0.00179	2.53E-06	0.7167
CAF	avg_0_1_2_3	LAG4	20	4.75205	0.29486	1.55E-12	-0.0119	0.00178	2.22E-06	0.7008
CAF	avg_0_1_2_3	LAG5	24	4.80388	0.34055	8.23E-13	-0.0115	0.00215	2.01E-05	0.5536
CAF	avg_0_1_2_3	LAG6	29	4.23711	0.47209	9.90E-10	-0.0072	0.00291	0.020029	0.1785
CAF	avg_0_1_2_3_4	LAG0	5	5.44756	0.56882	0.0006642	-0.014	0.00328	0.012785	0.8212
CAF	avg_0_1_2_3_4	LAG1	8	5.26439	0.42998	5.56E-06	-0.0127	0.00249	0.001365	0.7894
CAF	avg_0_1_2_3_4	LAG2	11	5.0445	0.40865	2.24E-07	-0.0127	0.0025	0.000471	0.7215
CAF	avg_0_1_2_3_4	LAG3	14	4.96411	0.33888	1.85E-09	-0.0127	0.00206	3.29E-05	0.7464
CAF	avg_0_1_2_3_4	LAG4	17	4.84713	0.33289	1.19E-10	-0.0127	0.00209	1.63E-05	0.6971
CAF	avg_0_1_2_3_4	LAG5	19	4.50247	0.36386	3.07E-10	-0.0103	0.00229	0.000282	0.5286
CAF	avg_0_1_2_3_4	LAG6	24	4.32025	0.49718	1.01E-08	-0.009	0.00309	0.007724	0.2703
CAF	avg_0_1_2_3_4_5	LAG0	5	5.45816	0.56569	0.0006454	-0.0142	0.00328	0.012368	0.824
CAF	avg_0_1_2_3_4_5	LAG1	8	5.27544	0.42403	4.99E-06	-0.0129	0.00247	0.001223	0.7958
CAF	avg_0_1_2_3_4_5	LAG2	11	5.04475	0.42115	2.97E-07	-0.0127	0.00258	0.000595	0.7086
CAF	avg_0_1_2_3_4_5	LAG3	14	4.94552	0.3536	3.26E-09	-0.0126	0.00215	5.54E-05	0.7258
CAF	avg_0_1_2_3_4_5	LAG4	14	4.53389	0.29739	1.13E-09	-0.0115	0.0019	4.13E-05	0.7377
CAF	avg_0_1_2_3_4_5	LAG5	19	4.53807	0.36057	2.33E-10	-0.0105	0.00227	0.000206	0.5441
CAF	avg_0_1_2_3_4_5	LAG6	21	4.25212	0.57452	3.79E-07	-0.0086	0.00361	0.027301	0.2209
CAF	avg_0_1_2_3_4_5_6	LAG0	5	5.46347	0.5592	0.0006149	-0.0143	0.00326	0.011791	0.8281
CAF	avg_0_1_2_3_4_5_6	LAG1	8	5.28859	0.43102	5.48E-06	-0.013	0.00251	0.001307	0.792
CAF	avg_0_1_2_3_4_5_6	LAG2	11	5.02508	0.43743	4.40E-07	-0.0126	0.00269	0.00085	0.6878
CAF	avg_0_1_2_3_4_5_6	LAG3	11	4.58793	0.3215	5.64E-08	-0.0112	0.00198	0.000211	0.7619
CAF	avg_0_1_2_3_4_5_6	LAG4	14	4.54439	0.30443	1.47E-09	-0.0115	0.00194	4.96E-05	0.7303
CAF	avg_0_1_2_3_4_5_6	LAG5	16	4.53842	0.42194	1.90E-08	-0.0106	0.00269	0.001356	0.5064
CAF	avg_0_1_2_3_4_5_6	LAG6	16	4.15618	0.72868	4.179E-05	-0.008	0.00462	0.10373	0.1667
CLF	avg_0_1	LAG0	20	4.62268	0.42634	1.41E-09	-0.0051	0.00129	0.000901	0.4483
CLF	avg_0_1	LAG1	31	4.89999	0.4735	2.05E-11	-0.0056	0.00151	0.000911	0.3111
CLF	avg_0_1	LAG2	25	4.55619	0.51861	5.78E-09	-0.005	0.00156	0.003948	0.2976

CLF	avg_0_1	LAG3	36	4.2628	0.40871	2.79E-12	-0.0045	0.0013	0.001396	0.2561
CLF	avg_0_1	LAG4	32	4.66026	0.39838	6.67E-13	-0.006	0.00122	2.61E-05	0.4396
CLF	avg_0_1	LAG5	36	4.83107	0.35208	1.20E-15	-0.0064	0.00115	2.56E-06	0.473
CLF	avg_0_1	LAG6	43	4.65709	0.35934	2.86E-16	-0.005	0.00116	9.16E-05	0.3083
CLF	avg_0_1_2	LAG0	17	4.60261	0.5209	1.49E-07	-0.0048	0.0016	0.008256	0.362
CLF	avg_0_1_2	LAG1	25	4.58692	0.51997	5.36E-09	-0.0051	0.00158	0.003484	0.3043
CLF	avg_0_1_2	LAG2	22	4.5152	0.60966	2.77E-07	-0.0047	0.00185	0.017888	0.2391
CLF	avg_0_1_2	LAG3	28	4.73039	0.42811	1.60E-11	-0.0061	0.00133	8.84E-05	0.4397
CLF	avg_0_1_2	LAG4	30	4.6819	0.42452	6.84E-12	-0.006	0.00136	0.000117	0.4055
CLF	avg_0_1_2	LAG5	34	4.86499	0.36801	9.78E-15	-0.0065	0.00118	4.43E-06	0.4768
CLF	avg_0_1_2	LAG6	42	4.55459	0.38249	6.87E-15	-0.0046	0.00126	0.000732	0.2454
CLF	avg_0_1_2_3	LAG0	17	4.59589	0.52651	1.76E-07	-0.0047	0.0016	0.009137	0.3545
CLF	avg_0_1_2_3	LAG1	22	4.56026	0.60648	2.19E-07	-0.0049	0.00185	0.014602	0.2522
CLF	avg_0_1_2_3	LAG2	19	4.73601	0.63138	6.06E-07	-0.0061	0.00193	0.005479	0.3561
CLF	avg_0_1_2_3	LAG3	27	4.76045	0.45811	9.47E-11	-0.0063	0.00148	0.000251	0.4086
CLF	avg_0_1_2_3	LAG4	28	4.77206	0.45056	4.08E-11	-0.0063	0.00141	0.000141	0.4208
CLF	avg_0_1_2_3	LAG5	33	4.8261	0.39761	1.62E-13	-0.0063	0.00131	3.17E-05	0.4226
CLF	avg_0_1_2_3	LAG6	36	4.30328	0.44525	2.05E-11	-0.0039	0.00149	0.013539	0.1619
CLF	avg_0_1_2_3_4	LAG0	14	4.52549	0.65987	1.156E-05	-0.0043	0.00202	0.054261	0.2561
CLF	avg_0_1_2_3_4	LAG1	19	4.74442	0.63089	5.85E-07	-0.0061	0.00193	0.005287	0.3584
CLF	avg_0_1_2_3_4	LAG2	18	4.78361	0.69188	2.51E-06	-0.0063	0.00224	0.01162	0.3198
CLF	avg_0_1_2_3_4	LAG3	25	4.89583	0.49018	5.03E-10	-0.0067	0.00156	0.000264	0.432
CLF	avg_0_1_2_3_4	LAG4	27	4.74546	0.48502	3.33E-10	-0.0062	0.00157	0.00055	0.3736
CLF	avg_0_1_2_3_4	LAG5	27	4.68305	0.46557	1.88E-10	-0.0063	0.00157	0.000476	0.3802
CLF	avg_0_1_2_3_4	LAG6	34	4.18373	0.47634	3.76E-10	-0.0036	0.00158	0.031049	0.1333
CLF	avg_0_1_2_3_4_5	LAG0	13	5.05189	0.6115	2.70E-06	-0.0065	0.00199	0.006446	0.4744
CLF	avg_0_1_2_3_4_5	LAG1	18	4.76831	0.68408	2.26E-06	-0.0063	0.00221	0.01132	0.3217
CLF	avg_0_1_2_3_4_5	LAG2	18	4.84872	0.69612	2.28E-06	-0.0067	0.00229	0.00988	0.3316
CLF	avg_0_1_2_3_4_5	LAG3	24	4.91666	0.53244	3.36E-09	-0.0068	0.00177	0.000823	0.3915
CLF	avg_0_1_2_3_4_5	LAG4	23	4.57776	0.55217	3.25E-08	-0.006	0.00187	0.003922	0.3206
CLF	avg_0_1_2_3_4_5	LAG5	27	4.70761	0.4698	2.03E-10	-0.0064	0.00161	0.000458	0.3818
CLF	avg_0_1_2_3_4_5	LAG6	30	4.35784	0.53467	5.48E-09	-0.0043	0.00184	0.025674	0.1602
CLF	avg_0_1_2_3_4_5_6	LAG0	13	5.06689	0.62357	3.20E-06	-0.0067	0.00205	0.006994	0.4677
CLF	avg_0_1_2_3_4_5_6	LAG1	18	4.82876	0.68889	2.10E-06	-0.0066	0.00225	0.009805	0.3321
CLF	avg_0_1_2_3_4_5_6	LAG2	18	4.86243	0.70728	2.69E-06	-0.0068	0.00235	0.010528	0.327
CLF	avg_0_1_2_3_4_5_6	LAG3	21	4.59734	0.58251	1.44E-07	-0.006	0.00195	0.006051	0.3202
CLF	avg_0_1_2_3_4_5_6	LAG4	23	4.59785	0.55509	3.30E-08	-0.0062	0.0019	0.003754	0.3231
CLF	avg_0_1_2_3_4_5_6	LAG5	24	4.67151	0.54026	1.10E-08	-0.0064	0.00187	0.002403	0.3357
CLF	avg_0_1_2_3_4_5_6	LAG6	25	4.30336	0.62911	4.49E-07	-0.004	0.00217	0.077565	0.1241
DOC	avg_0_1	LAG0	20	4.55277	0.48427	1.41E-08	-0.0195	0.00597	0.004056	0.3597
DOC	avg_0_1	LAG1	31	4.67141	0.44742	1.66E-11	-0.0182	0.00537	0.001952	0.2775
DOC	avg_0_1	LAG2	25	4.58077	0.47779	1.11E-09	-0.02	0.00563	0.001621	0.3445
DOC	avg_0_1	LAG3	36	4.2382	0.38525	6.59E-13	-0.0172	0.00472	0.000854	0.2754
DOC	avg_0_1	LAG4	32	4.22703	0.36915	1.15E-12	-0.0171	0.0041	0.000227	0.3594
DOC	avg_0_1	LAG5	36	4.53735	0.3459	4.51E-15	-0.0208	0.00429	2.45E-05	0.4028
DOC	avg_0_1	LAG6	43	4.58844	0.3314	2.99E-17	-0.0182	0.00402	4.9E-05	0.3277
DOC	avg_0_1_2	LAG0	17	4.50503	0.48834	8.33E-08	-0.0176	0.00581	0.00791	0.3651
DOC	avg_0_1_2	LAG1	25	4.61458	0.50154	2.44E-09	-0.0207	0.00605	0.002183	0.3291
DOC	avg_0_1_2	LAG2	22	4.50307	0.53576	3.70E-08	-0.0182	0.00618	0.007597	0.2934
DOC	avg_0_1_2	LAG3	28	4.37139	0.41806	5.40E-11	-0.019	0.00492	0.000651	0.3549
DOC	avg_0_1_2	LAG4	30	4.36646	0.39498	6.47E-12	-0.0188	0.00471	0.0004	0.3556
DOC	avg_0_1_2	LAG5	34	4.60031	0.34553	8.03E-15	-0.0211	0.00413	1.36E-05	0.4411

DOC	avg_0_1_2	LAG6	42	4.63213	0.35406	3.18E-16	-0.0187	0.00443	0.000136	0.3018
DOC	avg_0_1_2_3	LAG0	17	4.60343	0.50332	9.37E-08	-0.0189	0.00604	0.00644	0.38
DOC	avg_0_1_2_3	LAG1	22	4.53037	0.54972	5.10E-08	-0.0188	0.00643	0.008212	0.2886
DOC	avg_0_1_2_3	LAG2	19	4.31368	0.56083	4.27E-07	-0.0178	0.00629	0.011254	0.307
DOC	avg_0_1_2_3	LAG3	27	4.46728	0.43125	1.01E-10	-0.0201	0.00524	0.000714	0.3616
DOC	avg_0_1_2_3	LAG4	28	4.44589	0.40667	2.03E-11	-0.0195	0.0047	0.000306	0.3882
DOC	avg_0_1_2_3	LAG5	33	4.64094	0.36371	4.27E-14	-0.0215	0.00446	3.36E-05	0.4205
DOC	avg_0_1_2_3	LAG6	36	4.39045	0.38136	1.88E-13	-0.0158	0.00474	0.001989	0.2419
DOC	avg_0_1_2_3_4	LAG0	14	4.55256	0.55667	1.76E-06	-0.0168	0.00643	0.021563	0.344
DOC	avg_0_1_2_3_4	LAG1	19	4.36395	0.57276	4.87E-07	-0.0186	0.00653	0.0107	0.3105
DOC	avg_0_1_2_3_4	LAG2	18	4.37278	0.58623	9.34E-07	-0.0183	0.00686	0.016052	0.2959
DOC	avg_0_1_2_3_4	LAG3	25	4.5519	0.44724	3.48E-10	-0.0207	0.00525	0.000608	0.3931
DOC	avg_0_1_2_3_4	LAG4	27	4.46825	0.42718	8.24E-11	-0.0196	0.00507	0.00067	0.3645
DOC	avg_0_1_2_3_4	LAG5	27	4.34385	0.39606	2.99E-11	-0.0188	0.00483	0.000622	0.3679
DOC	avg_0_1_2_3_4	LAG6	34	4.21706	0.41133	8.64E-12	-0.0137	0.00499	0.009619	0.1863
DOC	avg_0_1_2_3_4_5	LAG0	13	4.75681	0.52675	1.07E-06	-0.0209	0.00633	0.006294	0.4764
DOC	avg_0_1_2_3_4_5	LAG1	18	4.39762	0.59616	1.08E-06	-0.0188	0.00705	0.01631	0.2947
DOC	avg_0_1_2_3_4_5	LAG2	18	4.43793	0.59603	9.56E-07	-0.0193	0.00706	0.014074	0.3057
DOC	avg_0_1_2_3_4_5	LAG3	24	4.55975	0.46926	1.31E-09	-0.0207	0.00568	0.001369	0.3655
DOC	avg_0_1_2_3_4_5	LAG4	23	4.2387	0.46317	5.91E-09	-0.0179	0.00568	0.004633	0.311
DOC	avg_0_1_2_3_4_5	LAG5	27	4.39295	0.4057	3.94E-11	-0.0195	0.005	0.00059	0.3704
DOC	avg_0_1_2_3_4_5	LAG6	30	4.27784	0.4541	2.51E-10	-0.015	0.00567	0.013201	0.1938
DOC	avg_0_1_2_3_4_5_6	LAG0	13	4.79011	0.53681	1.21E-06	-0.0215	0.00652	0.006362	0.4755
DOC	avg_0_1_2_3_4_5_6	LAG1	18	4.45106	0.60349	1.08E-06	-0.0196	0.0072	0.01455	0.3033
DOC	avg_0_1_2_3_4_5_6	LAG2	18	4.46758	0.61048	1.20E-06	-0.0198	0.00731	0.014772	0.3021
DOC	avg_0_1_2_3_4_5_6	LAG3	21	4.2916	0.5012	4.02E-08	-0.0184	0.00614	0.007202	0.3092
DOC	avg_0_1_2_3_4_5_6	LAG4	23	4.27381	0.47187	7.09E-09	-0.0184	0.00583	0.004508	0.3126
DOC	avg_0_1_2_3_4_5_6	LAG5	24	4.38109	0.46101	1.98E-09	-0.0196	0.00576	0.002417	0.3354
DOC	avg_0_1_2_3_4_5_6	LAG6	25	4.23659	0.52749	2.94E-08	-0.014	0.00663	0.045057	0.157
FEF	avg_0_1	LAG0	3	3.3257	3.77373	0.4711261	-0.0799	0.42682	0.868779	0.0172
FEF	avg_0_1	LAG1	11	3.64218	0.48543	2.056E-05	0.00738	0.02033	0.72407	0.013
FEF	avg_0_1	LAG2	5	1.83282	0.3066	0.0039355	0.06394	0.01304	0.008028	0.8573
FEF	avg_0_1	LAG3	13	3.21037	0.43742	8.98E-06	-0.0367	0.02452	0.160341	0.1573
FEF	avg_0_1	LAG4	8	2.57864	0.64047	0.0050203	0.01887	0.03495	0.60599	0.04
FEF	avg_0_1	LAG5	16	3.29036	0.59702	5.977E-05	-0.0187	0.06199	0.767234	0.006
FEF	avg_0_1	LAG6	19	2.99277	0.42141	1.28E-06	0.01946	0.02951	0.518079	0.0236
FEF	avg_0_1_2	LAG0	0	1.92862			0			
FEF	avg_0_1_2	LAG1	1	0.90115			0.15412			1
FEF	avg_0_1_2	LAG2	0	2.28823			0			
FEF	avg_0_1_2	LAG3	4	7.7156	0.73592	0.0018527	-0.6615	0.10129	0.007296	0.9343
FEF	avg_0_1_2	LAG4	4	7.81767	2.37903	0.046214	-0.7284	0.3587	0.135241	0.5789
FEF	avg_0_1_2	LAG5	9	6.12176	1.09968	0.0005304	-0.4196	0.15074	0.023795	0.492
FEF	avg_0_1_2	LAG6	11	3.73626	0.61008	0.0001121	-0.086	0.06757	0.231759	0.1395
FEF	avg_0_1_2_3	LAG0	0	1.92862			0			
FEF	avg_0_1_2_3	LAG1	0	2.28823			0			
FEF	avg_0_1_2_3	LAG3	4	8.16121	0.62871	0.0009871	-0.7515	0.09018	0.003622	0.9586
FEF	avg_0_1_2_3	LAG4	2	-0.8139	23.9028	0.9783323	0.83885	4.01029	0.868729	0.0419
FEF	avg_0_1_2_3	LAG5	7	3.74578	0.78932	0.0031732	-0.1106	0.08433	0.237699	0.2227
FEF	avg_0_1_2_3	LAG6	9	4.24531	0.53745	4.784E-05	-0.1175	0.05957	0.084092	0.3271
FEF	avg_0_1_2_3_4	LAG3	2	13.1059	5.01524	0.2326703	-1.5652	0.87816	0.325495	0.7606
FEF	avg_0_1_2_3_4	LAG4	0	3.35096			0			
FEF	avg_0_1_2_3_4	LAG5	5	4.25063	0.5812	0.0018593	-0.1301	0.06103	0.099968	0.5319

FEF	avg_0_1_2_3_4	LAG6	4	4.46101	0.50457	0.00305	-0.1393	0.05224	0.075951	0.7032
FEF	avg_0_1_2_3_4_5	LAG3	0	3.35096			0			
FEF	avg_0_1_2_3_4_5	LAG4	0	3.35096			0			
FEF	avg_0_1_2_3_4_5	LAG5	2	4.33653	0.05713	0.0083863	-0.1397	0.00504	0.022976	0.9987
FEF	avg_0_1_2_3_4_5	LAG6	0	3.44681			0			
FEF	avg_0_1_2_3_4_5_6	LAG3	0	3.35096			0			
FEF	avg_0_1_2_3_4_5_6	LAG4	0	3.35096			0			
FEF	avg_0_1_2_3_4_5_6	LAG5	0	3.44681			0			
FEF	avg_0_1_2_3_4_5_6	LAG6	0	3.44681			0			
KF	avg_0_1	LAG0	19	0.9159	1.09198	0.4126108	0.31101	0.14766	0.049476	0.1977
KF	avg_0_1	LAG1	30	2.58356	0.821	0.0037994	0.1078	0.11	0.33519	0.0321
KF	avg_0_1	LAG2	24	0.38231	1.1084	0.7332879	0.37055	0.14863	0.020305	0.2127
KF	avg_0_1	LAG3	34	1.22173	0.77728	0.1255357	0.24369	0.10262	0.023535	0.1459
KF	avg_0_1	LAG4	29	0.87155	0.7591	0.2606284	0.28496	0.10423	0.010729	0.2107
KF	avg_0_1	LAG5	30	0.36428	0.82355	0.6615345	0.3598	0.10883	0.002526	0.2737
KF	avg_0_1	LAG6	37	1.19194	0.84232	0.165641	0.28324	0.11149	0.015525	0.152
KF	avg_0_1_2	LAG0	16	0.89043	1.37865	0.5281209	0.31765	0.18284	0.102821	0.1675
KF	avg_0_1_2	LAG1	23	0.79161	1.38106	0.5723297	0.3171	0.18288	0.096932	0.1202
KF	avg_0_1_2	LAG2	20	0.74914	1.46571	0.6151616	0.32514	0.19388	0.109916	0.1289
KF	avg_0_1_2	LAG3	24	-0.1008	1.29723	0.9387218	0.41593	0.17095	0.02316	0.2047
KF	avg_0_1_2	LAG4	23	0.44684	0.99267	0.6570155	0.33771	0.13049	0.016786	0.2334
KF	avg_0_1_2	LAG5	26	0.23741	0.9828	0.8110901	0.38276	0.13002	0.006908	0.2574
KF	avg_0_1_2	LAG6	30	1.28823	1.01398	0.2140165	0.27688	0.13261	0.045694	0.1307
KF	avg_0_1_2_3	LAG0	15	1.2131	1.37751	0.3933748	0.28186	0.18036	0.140425	0.1485
KF	avg_0_1_2_3	LAG1	19	1.5077	1.73549	0.3964217	0.2295	0.2264	0.324174	0.054
KF	avg_0_1_2_3	LAG2	15	-0.3169	1.91178	0.8707148	0.44333	0.2494	0.097201	0.1841
KF	avg_0_1_2_3	LAG3	19	-0.0203	1.46534	0.9891151	0.4007	0.18745	0.046521	0.2025
KF	avg_0_1_2_3	LAG4	19	0.41006	1.18826	0.7340218	0.34863	0.15604	0.038393	0.2171
KF	avg_0_1_2_3	LAG5	19	-0.1577	1.26962	0.902508	0.42879	0.16333	0.017159	0.2769
KF	avg_0_1_2_3	LAG6	18	2.90541	1.0081	0.0103481	0.10124	0.12663	0.435049	0.0362
KF	avg_0_1_2_3_4	LAG0	12	2.49585	1.69359	0.1685921	0.12526	0.21835	0.577746	0.029
KF	avg_0_1_2_3_4	LAG1	14	0.14407	2.31188	0.9512567	0.38628	0.29586	0.214309	0.1159
KF	avg_0_1_2_3_4	LAG2	11	-0.3939	2.91236	0.8950927	0.43249	0.36652	0.265309	0.1222
KF	avg_0_1_2_3_4	LAG3	15	0.20884	1.75534	0.9069863	0.38026	0.22312	0.110413	0.1718
KF	avg_0_1_2_3_4	LAG4	13	0.01392	1.66407	0.9934655	0.38162	0.21246	0.097654	0.2119
KF	avg_0_1_2_3_4	LAG5	10	0.17309	1.31942	0.8985155	0.39793	0.16204	0.036408	0.4012
KF	avg_0_1_2_3_4	LAG6	16	2.87629	0.99409	0.0111432	0.10118	0.125	0.430918	0.0419
KF	avg_0_1_2_3_4_5	LAG0	9	2.3495	3.20635	0.4846163	0.1563	0.40057	0.706571	0.0187
KF	avg_0_1_2_3_4_5	LAG1	11	-0.5732	3.34285	0.8672652	0.45226	0.4187	0.305432	0.1045
KF	avg_0_1_2_3_4_5	LAG2	9	0.23988	3.98595	0.953488	0.36672	0.49775	0.482317	0.0635
KF	avg_0_1_2_3_4_5	LAG3	10	-2.1208	3.19283	0.5231947	0.64199	0.39329	0.137043	0.2284
KF	avg_0_1_2_3_4_5	LAG4	7	0.56459	1.34048	0.6882918	0.33989	0.16647	0.087229	0.41
KF	avg_0_1_2_3_4_5	LAG5	10	0.19434	1.27907	0.8825885	0.39765	0.15797	0.032919	0.4132
KF	avg_0_1_2_3_4_5	LAG6	10	1.42821	2.07737	0.5090885	0.28649	0.2542	0.288886	0.1237
KF	avg_0_1_2_3_4_5_6	LAG0	7	1.93078	2.83643	0.5214438	0.1767	0.35262	0.634139	0.0402
KF	avg_0_1_2_3_4_5_6	LAG1	9	0.24645	4.3527	0.9562362	0.36458	0.54212	0.520203	0.0535
KF	avg_0_1_2_3_4_5_6	LAG2	5	-5.2979	5.34001	0.3772971	0.98569	0.65388	0.206177	0.3623
KF	avg_0_1_2_3_4_5_6	LAG3	5	1.92203	1.30046	0.2134885	0.19033	0.15784	0.294322	0.2666
KF	avg_0_1_2_3_4_5_6	LAG4	7	0.56514	1.26943	0.6717924	0.34216	0.15867	0.074445	0.4366
KF	avg_0_1_2_3_4_5_6	LAG5	5	-1.8657	1.93068	0.3886025	0.64163	0.23497	0.052408	0.6509
KF	avg_0_1_2_3_4_5_6	LAG6	8	4.07374	2.13535	0.0980796	-0.0099	0.25821	0.970507	0.0002
MGF	avg_0_1	LAG0	20	5.00562	0.48243	2.90E-09	-0.0363	0.00859	0.000455	0.4847

MGF	avg_0_1	LAG1	31	5.10537	0.54851	2.37E-10	-0.0351	0.00999	0.001443	0.291
MGF	avg_0_1	LAG2	25	4.9863	0.57944	8.47E-09	-0.0365	0.01021	0.001522	0.3478
MGF	avg_0_1	LAG3	36	4.58732	0.44707	4.30E-12	-0.0321	0.00825	0.000433	0.3014
MGF	avg_0_1	LAG4	32	4.87728	0.43668	2.15E-12	-0.0385	0.00775	2.37E-05	0.4431
MGF	avg_0_1	LAG5	36	5.02896	0.40081	1.64E-14	-0.0402	0.00748	5.24E-06	0.4517
MGF	avg_0_1	LAG6	43	4.9421	0.41514	4.81E-15	-0.034	0.00774	7.5E-05	0.3145
MGF	avg_0_1_2	LAG0	17	4.98045	0.5934	2.96E-07	-0.0347	0.01066	0.004951	0.3986
MGF	avg_0_1_2	LAG1	25	4.98246	0.58837	1.14E-08	-0.0367	0.01046	0.00179	0.3394
MGF	avg_0_1_2	LAG2	22	4.91392	0.66691	3.00E-07	-0.0348	0.01185	0.007825	0.2916
MGF	avg_0_1_2	LAG3	28	4.99178	0.48023	6.15E-11	-0.0402	0.00872	8.64E-05	0.4407
MGF	avg_0_1_2	LAG4	30	4.88198	0.46643	2.32E-11	-0.0382	0.00859	0.000117	0.4058
MGF	avg_0_1_2	LAG5	34	5.09841	0.41915	9.68E-14	-0.0413	0.00776	7.08E-06	0.4621
MGF	avg_0_1_2	LAG6	42	4.80555	0.43272	6.19E-14	-0.0312	0.00824	0.0005	0.2585
MGF	avg_0_1_2_3	LAG0	17	4.90256	0.59174	3.51E-07	-0.0329	0.01051	0.006416	0.3803
MGF	avg_0_1_2_3	LAG1	22	4.93559	0.67159	3.12E-07	-0.0353	0.01197	0.007637	0.2931
MGF	avg_0_1_2_3	LAG2	19	5.01415	0.67853	7.44E-07	-0.0404	0.01213	0.003703	0.3816
MGF	avg_0_1_2_3	LAG3	27	5.00867	0.50346	2.36E-10	-0.0406	0.0094	0.0002	0.4183
MGF	avg_0_1_2_3	LAG4	28	4.9633	0.49452	1.31E-10	-0.0395	0.00899	0.000154	0.4172
MGF	avg_0_1_2_3	LAG5	33	5.0218	0.44166	8.95E-13	-0.04	0.0084	3.91E-05	0.4152
MGF	avg_0_1_2_3	LAG6	36	4.49309	0.49456	9.81E-11	-0.0259	0.00954	0.010296	0.1737
MGF	avg_0_1_2_3_4	LAG0	14	4.83304	0.73057	1.675E-05	-0.0302	0.01301	0.03706	0.2933
MGF	avg_0_1_2_3_4	LAG1	19	5.04635	0.68589	7.91E-07	-0.041	0.01228	0.003629	0.3829
MGF	avg_0_1_2_3_4	LAG2	18	5.06033	0.73416	2.61E-06	-0.0415	0.01367	0.007484	0.3513
MGF	avg_0_1_2_3_4	LAG3	25	5.12733	0.53685	1.20E-09	-0.0426	0.00989	0.000241	0.4361
MGF	avg_0_1_2_3_4	LAG4	27	4.91451	0.52408	7.94E-10	-0.0387	0.0098	0.000534	0.3749
MGF	avg_0_1_2_3_4	LAG5	27	4.77745	0.51561	1.01E-09	-0.0375	0.00996	0.000864	0.3526
MGF	avg_0_1_2_3_4	LAG6	34	4.39549	0.52475	1.12E-09	-0.0244	0.00999	0.020117	0.1531
MGF	avg_0_1_2_3_4_5	LAG0	13	5.29471	0.6705	4.29E-06	-0.0419	0.01252	0.005829	0.4826
MGF	avg_0_1_2_3_4_5	LAG1	18	5.05976	0.73352	2.58E-06	-0.0413	0.01361	0.007452	0.3516
MGF	avg_0_1_2_3_4_5	LAG2	18	5.10339	0.74259	2.71E-06	-0.0428	0.014	0.007142	0.3546
MGF	avg_0_1_2_3_4_5	LAG3	24	5.1116	0.57396	6.49E-09	-0.0426	0.01094	0.000737	0.397
MGF	avg_0_1_2_3_4_5	LAG4	23	4.64692	0.59203	8.09E-08	-0.0355	0.01144	0.005126	0.3051
MGF	avg_0_1_2_3_4_5	LAG5	27	4.82192	0.52034	1.01E-09	-0.0386	0.01012	0.000759	0.3587
MGF	avg_0_1_2_3_4_5	LAG6	30	4.5287	0.58498	1.55E-08	-0.0279	0.01147	0.021386	0.1695
MGF	avg_0_1_2_3_4_5_6	LAG0	13	5.31004	0.68152	4.92E-06	-0.0425	0.01284	0.006214	0.4774
MGF	avg_0_1_2_3_4_5_6	LAG1	18	5.09843	0.74089	2.66E-06	-0.0425	0.0139	0.007131	0.3547
MGF	avg_0_1_2_3_4_5_6	LAG2	18	5.11747	0.74851	2.89E-06	-0.0436	0.0143	0.007247	0.3536
MGF	avg_0_1_2_3_4_5_6	LAG3	21	4.73167	0.62908	2.98E-07	-0.0369	0.01213	0.006437	0.3163
MGF	avg_0_1_2_3_4_5_6	LAG4	23	4.69574	0.59797	8.02E-08	-0.0368	0.01164	0.004558	0.312
MGF	avg_0_1_2_3_4_5_6	LAG5	24	4.80556	0.59236	3.37E-08	-0.0388	0.01169	0.002996	0.3237
MGF	avg_0_1_2_3_4_5_6	LAG6	25	4.43161	0.68774	1.16E-06	-0.0253	0.01357	0.074405	0.1266
NH3F	avg_0_1	LAG0	16	3.23779	0.36178	2.11E-07	-0.0937	0.25596	0.719529	0.0088
NH3F	avg_0_1	LAG1	27	3.30673	0.33952	3.66E-10	-0.0218	0.26279	0.934446	0.0003
NH3F	avg_0_1	LAG2	20	2.83165	0.42335	2.15E-06	0.1929	0.25191	0.453244	0.0299
NH3F	avg_0_1	LAG3	30	2.7746	0.27916	7.58E-11	0.04875	0.18266	0.791447	0.0025
NH3F	avg_0_1	LAG4	27	3.0079	0.28562	7.14E-11	-0.1061	0.16605	0.528319	0.0155
NH3F	avg_0_1	LAG5	33	3.23098	0.24414	1.59E-14	-0.158	0.13196	0.23995	0.0429
NH3F	avg_0_1	LAG6	38	3.39831	0.23136	5.12E-17	-0.1438	0.11141	0.204961	0.0431
NH3F	avg_0_1_2	LAG0	13	3.26235	0.44281	8.65E-06	-0.1631	0.33954	0.639555	0.0189
NH3F	avg_0_1_2	LAG1	18	2.88149	0.45549	7.60E-06	0.09863	0.28629	0.734687	0.0069
NH3F	avg_0_1_2	LAG2	16	2.62779	0.5007	9.828E-05	0.20151	0.29542	0.505564	0.0301
NH3F	avg_0_1_2	LAG3	21	3.14563	0.35004	1.85E-08	-0.1573	0.19913	0.438801	0.0303

NH3F	avg_0_1_2	LAG4	26	3.08636	0.2851	6.32E-11	-0.1201	0.15647	0.449864	0.023
NH3F	avg_0_1_2	LAG5	28	3.24105	0.27461	3.62E-12	-0.1678	0.13326	0.21882	0.0554
NH3F	avg_0_1_2	LAG6	35	3.45867	0.25407	2.54E-15	-0.1583	0.11521	0.17831	0.0526
NH3F	avg_0_1_2_3	LAG0	11	3.54079	0.48089	2.417E-05	-0.2568	0.31872	0.439202	0.0609
NH3F	avg_0_1_2_3	LAG1	14	2.60718	0.54163	0.0003385	0.12755	0.32763	0.70334	0.0115
NH3F	avg_0_1_2_3	LAG2	13	3.00683	0.5305	0.0001043	-0.0436	0.29674	0.885618	0.0018
NH3F	avg_0_1_2_3	LAG3	21	3.17532	0.34834	1.47E-08	-0.1701	0.18498	0.368671	0.0406
NH3F	avg_0_1_2_3	LAG4	22	3.07747	0.31103	2.33E-09	-0.138	0.15405	0.380587	0.0368
NH3F	avg_0_1_2_3	LAG5	26	3.30009	0.29574	3.36E-11	-0.1779	0.13298	0.192984	0.0668
NH3F	avg_0_1_2_3	LAG6	30	3.29318	0.26657	4.46E-13	-0.1352	0.13248	0.315766	0.0347
NH3F	avg_0_1_2_3_4	LAG0	7	3.27313	0.66775	0.0027061	-0.2756	0.40105	0.517657	0.073
NH3F	avg_0_1_2_3_4	LAG1	11	2.94677	0.57547	0.0004503	-0.104	0.32119	0.752844	0.0104
NH3F	avg_0_1_2_3_4	LAG2	13	3.08002	0.52024	7.028E-05	-0.0943	0.26568	0.72869	0.0104
NH3F	avg_0_1_2_3_4	LAG3	17	3.15852	0.3985	6.26E-07	-0.177	0.18616	0.355834	0.0535
NH3F	avg_0_1_2_3_4	LAG4	20	3.1349	0.34205	2.10E-08	-0.1507	0.15381	0.339445	0.0481
NH3F	avg_0_1_2_3_4	LAG5	21	3.03816	0.29953	2.49E-09	-0.1533	0.14759	0.31141	0.0512
NH3F	avg_0_1_2_3_4	LAG6	26	3.17247	0.28873	4.64E-11	-0.138	0.13033	0.299902	0.0429
NH3F	avg_0_1_2_3_4_5	LAG0	7	3.30447	0.64662	0.0021988	-0.2833	0.3538	0.453829	0.0965
NH3F	avg_0_1_2_3_4_5	LAG1	11	3.00021	0.56418	0.0003388	-0.1372	0.28863	0.644871	0.0221
NH3F	avg_0_1_2_3_4_5	LAG2	13	3.13634	0.51629	5.545E-05	-0.1239	0.24002	0.615135	0.0217
NH3F	avg_0_1_2_3_4_5	LAG3	17	3.17339	0.39428	5.13E-07	-0.1789	0.1745	0.320555	0.0616
NH3F	avg_0_1_2_3_4_5	LAG4	17	2.94832	0.35147	2.98E-07	-0.1121	0.17817	0.537974	0.0242
NH3F	avg_0_1_2_3_4_5	LAG5	21	3.05415	0.30273	2.73E-09	-0.1511	0.13877	0.289045	0.056
NH3F	avg_0_1_2_3_4_5	LAG6	23	3.1756	0.32038	1.42E-09	-0.151	0.1589	0.352183	0.0394
NH3F	avg_0_1_2_3_4_5_6	LAG0	7	3.35027	0.63074	0.0018095	-0.299	0.31809	0.383521	0.1284
NH3F	avg_0_1_2_3_4_5_6	LAG1	11	3.0399	0.56098	0.0002935	-0.1521	0.26125	0.573201	0.0328
NH3F	avg_0_1_2_3_4_5_6	LAG2	13	3.15171	0.51006	4.733E-05	-0.1284	0.22435	0.577814	0.0266
NH3F	avg_0_1_2_3_4_5_6	LAG3	14	2.96132	0.41195	7.06E-06	-0.1452	0.20592	0.493255	0.0368
NH3F	avg_0_1_2_3_4_5_6	LAG4	17	2.96015	0.35459	3.18E-07	-0.1108	0.16653	0.515378	0.0269
NH3F	avg_0_1_2_3_4_5_6	LAG5	18	3.06358	0.33832	6.50E-08	-0.1896	0.17437	0.292181	0.065
NH3F	avg_0_1_2_3_4_5_6	LAG6	18	3.18557	0.38724	2.49E-07	-0.1793	0.21324	0.41203	0.0399
PH	avg_0_1	LAG0	20	6.94617	28.1404	0.8076798	-0.559	4.08692	0.892649	0.001
PH	avg_0_1	LAG1	30	2.94048	22.6808	0.8977414	0.04799	3.27805	0.988421	0
PH	avg_0_1	LAG2	25	14.5044	30.3436	0.6369713	-1.6636	4.40405	0.70894	0.0059
PH	avg_0_1	LAG3	36	26.506	15.0993	0.087934	-3.4153	2.19051	0.127959	0.0649
PH	avg_0_1	LAG4	31	-19.468	17.0139	0.2615624	3.24522	2.47035	0.198917	0.0544
PH	avg_0_1	LAG5	36	-3.4369	16.9531	0.8405205	0.93531	2.46175	0.706287	0.0041
PH	avg_0_1	LAG6	43	2.08673	13.3626	0.8766532	0.16568	1.94295	0.932451	0.0002
PH	avg_0_1_2	LAG0	17	-13.972	31.2652	0.6609473	2.48468	4.53432	0.591275	0.0184
PH	avg_0_1_2	LAG1	25	78.1365	27.9564	0.0100464	-10.883	4.0513	0.012909	0.2312
PH	avg_0_1_2	LAG2	22	-4.8539	35.2241	0.891711	1.15257	5.12157	0.824121	0.0024
PH	avg_0_1_2	LAG3	28	21.0544	24.9688	0.4065098	-2.6337	3.62397	0.473638	0.0192
PH	avg_0_1_2	LAG4	30	-12.033	19.9971	0.5520095	2.17333	2.90557	0.460491	0.0189
PH	avg_0_1_2	LAG5	34	1.59539	23.4585	0.9461888	0.20368	3.41077	0.952741	0.0001
PH	avg_0_1_2	LAG6	42	-11.398	15.9402	0.4786349	2.12948	2.31498	0.363022	0.0202
PH	avg_0_1_2_3	LAG0	17	8.38092	34.6454	0.8119263	-0.758	5.02944	0.882093	0.0014
PH	avg_0_1_2_3	LAG1	22	54.0917	34.939	0.136519	-7.4081	5.07311	0.159016	0.0922
PH	avg_0_1_2_3	LAG2	19	-18.741	43.4168	0.6711204	3.14298	6.31021	0.62446	0.0136
PH	avg_0_1_2_3	LAG3	27	17.7433	29.3263	0.5504041	-2.1496	4.26331	0.618367	0.0097
PH	avg_0_1_2_3	LAG4	28	-3.3863	27.4462	0.9027212	0.91552	3.99165	0.820319	0.0019
PH	avg_0_1_2_3	LAG5	33	-21.366	23.8422	0.3768689	3.5469	3.46519	0.31371	0.0317
PH	avg_0_1_2_3	LAG6	36	-31.776	22.1514	0.1603064	5.09014	3.22133	0.123072	0.0666

PH	avg_0_1_2_3_4	LAG0	14	-9.8179	39.7938	0.8089789	1.897	5.78558	0.748219	0.0082
PH	avg_0_1_2_3_4	LAG1	19	32.8416	43.4211	0.4592237	-4.3471	6.30053	0.49902	0.0258
PH	avg_0_1_2_3_4	LAG2	18	-30.385	44.957	0.5082178	4.85221	6.54317	0.46847	0.0313
PH	avg_0_1_2_3_4	LAG3	25	35.2075	36.387	0.3429029	-4.6927	5.29226	0.384035	0.0317
PH	avg_0_1_2_3_4	LAG4	27	-32.14	29.3293	0.283196	5.10229	4.26383	0.242243	0.0522
PH	avg_0_1_2_3_4	LAG5	27	-32.327	33.7433	0.3468671	5.13227	4.91073	0.305591	0.0403
PH	avg_0_1_2_3_4	LAG6	34	-24.079	24.8176	0.3389762	3.96554	3.6099	0.279929	0.0353
PH	avg_0_1_2_3_4_5	LAG0	13	-14.681	48.6472	0.7679839	2.59468	7.0708	0.72004	0.0111
PH	avg_0_1_2_3_4_5	LAG1	18	8.75094	49.6326	0.8621303	-0.8428	7.21442	0.908375	0.0008
PH	avg_0_1_2_3_4_5	LAG2	18	-31.041	63.9344	0.6335058	4.94976	9.30902	0.601802	0.0164
PH	avg_0_1_2_3_4_5	LAG3	24	-16.396	42.7922	0.7051239	2.82012	6.22253	0.654643	0.0089
PH	avg_0_1_2_3_4_5	LAG4	23	-35.559	40.3527	0.3877385	5.59714	5.87316	0.350943	0.0396
PH	avg_0_1_2_3_4_5	LAG5	27	-19.245	38.5613	0.6219254	3.22882	5.61282	0.570063	0.0126
PH	avg_0_1_2_3_4_5	LAG6	30	-45.315	36.1411	0.2199146	7.05932	5.26135	0.190096	0.0584
PH	avg_0_1_2_3_4_5_6	LAG0	13	-72.497	52.4306	0.1919412	11.0113	7.62973	0.174556	0.1479
PH	avg_0_1_2_3_4_5_6	LAG1	18	25.21	58.6434	0.672678	-3.2369	8.52873	0.708992	0.0084
PH	avg_0_1_2_3_4_5_6	LAG2	18	-104.06	62.1496	0.1123636	15.5678	9.04128	0.103239	0.1485
PH	avg_0_1_2_3_4_5_6	LAG3	21	-9.617	51.5952	0.8540146	1.82362	7.50773	0.810557	0.0029
PH	avg_0_1_2_3_4_5_6	LAG4	23	-20.101	42.3838	0.6399871	3.34724	6.16863	0.592845	0.0132
PH	avg_0_1_2_3_4_5_6	LAG5	24	-50.364	52.4535	0.3469594	7.7603	7.63744	0.320158	0.043
PH	avg_0_1_2_3_4_5_6	LAG6	25	-48.169	43.3871	0.2779084	7.48234	6.31845	0.247927	0.0552
PO4F	avg_0_1	LAG0	13	3.67539	0.38729	6.28E-07	-10.845	5.56348	0.075027	0.2405
PO4F	avg_0_1	LAG1	21	3.56241	0.35535	3.03E-09	-6.2456	3.77403	0.113559	0.1204
PO4F	avg_0_1	LAG2	16	3.44362	0.38984	2.49E-07	-7.0779	3.51852	0.062582	0.2125
PO4F	avg_0_1	LAG3	22	3.00704	0.27211	3.28E-10	-5.5551	2.54989	0.040901	0.1843
PO4F	avg_0_1	LAG4	21	3.39847	0.22209	1.67E-12	-5.9517	1.49143	0.000719	0.4433
PO4F	avg_0_1	LAG5	23	3.31365	0.19028	2.35E-14	-4.6448	1.32395	0.001984	0.3587
PO4F	avg_0_1	LAG6	30	3.56677	0.17818	1.60E-18	-4.6951	1.11919	0.000235	0.3777
PO4F	avg_0_1_2	LAG0	8	3.90533	0.51722	0.0001316	-10.566	5.43171	0.092811	0.3509
PO4F	avg_0_1_2	LAG1	12	3.16394	0.50693	6.337E-05	-6.4719	4.98719	0.220939	0.1328
PO4F	avg_0_1_2	LAG2	10	3.31531	0.5557	0.0002111	-6.3856	3.84652	0.131265	0.2344
PO4F	avg_0_1_2	LAG3	11	3.17627	0.31853	1.63E-06	-4.7471	2.01825	0.040497	0.3562
PO4F	avg_0_1_2	LAG4	18	3.39311	0.21569	1.45E-11	-5.2638	1.40408	0.001599	0.4526
PO4F	avg_0_1_2	LAG5	17	3.22809	0.25133	7.64E-10	-3.9619	1.33243	0.008963	0.3559
PO4F	avg_0_1_2	LAG6	24	3.70479	0.20122	2.91E-15	-4.8354	1.12365	0.000264	0.446
PO4F	avg_0_1_2_3	LAG0	5	3.94543	0.66356	0.0040135	-8.6946	5.62691	0.197192	0.3738
PO4F	avg_0_1_2_3	LAG1	6	2.52268	0.87511	0.0344789	-3.3763	5.78895	0.585056	0.0637
PO4F	avg_0_1_2_3	LAG2	4	3.42616	0.8407	0.02667	-5.5566	3.67021	0.227255	0.4331
PO4F	avg_0_1_2_3	LAG3	9	3.14081	0.27605	3.21E-06	-4.1828	1.51528	0.024659	0.4878
PO4F	avg_0_1_2_3	LAG4	13	3.27832	0.29898	1.31E-07	-4.4026	1.49461	0.012242	0.4196
PO4F	avg_0_1_2_3	LAG5	12	3.38517	0.32327	4.66E-07	-4.1431	1.41528	0.013753	0.4379
PO4F	avg_0_1_2_3	LAG6	17	3.65376	0.22902	3.02E-11	-4.8258	1.22893	0.001204	0.4908
PO4F	avg_0_1_2_3_4	LAG0	1	5.09133			-12.376			1
PO4F	avg_0_1_2_3_4	LAG1	2	1.61831	0.37506	0.1449853	0.36025	1.55652	0.855206	0.0508
PO4F	avg_0_1_2_3_4	LAG2	2	3.22024	0.33917	0.0668045	-4.2365	1.09744	0.161367	0.9371
PO4F	avg_0_1_2_3_4	LAG3	6	2.67305	0.33514	0.0004999	-2.3957	1.3783	0.142678	0.3767
PO4F	avg_0_1_2_3_4	LAG4	8	3.5579	0.44757	9.492E-05	-4.8094	1.73792	0.027801	0.5224
PO4F	avg_0_1_2_3_4	LAG5	7	2.7683	0.29471	8.267E-05	-2.4608	1.19535	0.085221	0.4139
PO4F	avg_0_1_2_3_4	LAG6	12	3.44335	0.32236	3.81E-07	-3.9606	1.35995	0.014129	0.4354
PO4F	avg_0_1_2_3_4_5	LAG0	0	1.60141			0			
PO4F	avg_0_1_2_3_4_5	LAG1	1	3.03081			-4.1332			1
PO4F	avg_0_1_2_3_4_5	LAG2	2	3.20915	0.38888	0.0767694	-3.756	1.12541	0.185331	0.9176

PO4F	avg_0_1_2_3_4_5	LAG3	4	2.7145	0.30849	0.0030924	-2.248	1.025	0.115909	0.6159
PO4F	avg_0_1_2_3_4_5	LAG4	4	2.61421	0.49011	0.0128803	-2.0716	1.70855	0.312109	0.3289
PO4F	avg_0_1_2_3_4_5	LAG5	6	2.54361	0.30379	0.0003979	-1.685	1.06027	0.172875	0.3356
PO4F	avg_0_1_2_3_4_5	LAG6	8	3.32694	0.46085	0.0001745	-3.9965	1.9123	0.07498	0.3842
PO4F	avg_0_1_2_3_4_5_6	LAG0	0	1.60141			0			
PO4F	avg_0_1_2_3_4_5_6	LAG1	1	2.91265			-3.3438			1
PO4F	avg_0_1_2_3_4_5_6	LAG2	2	3.31438	0.53547	0.1019703	-3.8524	1.47379	0.232609	0.8723
PO4F	avg_0_1_2_3_4_5_6	LAG3	3	2.72805	0.37963	0.0188204	-2.0242	1.42843	0.292185	0.501
PO4F	avg_0_1_2_3_4_5_6	LAG4	4	2.64234	0.49695	0.0129937	-1.996	1.59529	0.299552	0.3429
PO4F	avg_0_1_2_3_4_5_6	LAG5	5	2.60255	0.34018	0.0015684	-2.0529	1.34593	0.201876	0.3677
PO4F	avg_0_1_2_3_4_5_6	LAG6	5	3.74695	0.65198	0.0045439	-6.037	2.89392	0.105295	0.5211
SO4F	avg_0_1	LAG0	20	2.77067	0.28975	1.08E-08	0.01173	0.00675	0.098349	0.1372
SO4F	avg_0_1	LAG1	31	3.76471	0.30032	1.86E-13	-0.0168	0.00775	0.037871	0.1359
SO4F	avg_0_1	LAG2	25	3.0398	0.49149	2.17E-06	0.00019	0.02798	0.994683	0
SO4F	avg_0_1	LAG3	36	2.98603	0.25999	2.01E-13	-0.0008	0.00729	0.908193	0.0004
SO4F	avg_0_1	LAG4	32	2.85662	0.26327	4.41E-12	-0.0009	0.00727	0.907432	0.0004
SO4F	avg_0_1	LAG5	36	2.69109	0.35638	7.53E-09	0.02051	0.02014	0.315643	0.0288
SO4F	avg_0_1	LAG6	43	2.98583	0.21027	1.24E-17	0.01208	0.0067	0.078549	0.0718
SO4F	avg_0_1_2	LAG0	17	2.6894	0.34704	8.36E-07	0.01847	0.01009	0.085705	0.1733
SO4F	avg_0_1_2	LAG1	25	3.62249	0.32632	6.16E-11	-0.0267	0.01097	0.022661	0.1982
SO4F	avg_0_1_2	LAG2	22	3.13284	0.67133	0.0001322	-0.0041	0.04205	0.923004	0.0005
SO4F	avg_0_1_2	LAG3	28	2.82981	0.31583	1.42E-09	0.00387	0.01115	0.730993	0.0044
SO4F	avg_0_1_2	LAG4	30	2.94562	0.29566	7.18E-11	-0.0011	0.01058	0.919206	0.0004
SO4F	avg_0_1_2	LAG5	34	2.52486	0.44648	2.67E-06	0.03259	0.02799	0.25273	0.0394
SO4F	avg_0_1_2	LAG6	42	2.96712	0.23202	6.77E-16	0.01715	0.00959	0.080971	0.0724
SO4F	avg_0_1_2_3	LAG0	17	2.59175	0.37451	3.45E-06	0.0255	0.01322	0.071757	0.1886
SO4F	avg_0_1_2_3	LAG1	22	3.80891	0.38123	1.97E-09	-0.0368	0.01485	0.021613	0.2268
SO4F	avg_0_1_2_3	LAG2	19	3.00285	0.78898	0.001294	-0.0081	0.04997	0.872714	0.0015
SO4F	avg_0_1_2_3	LAG3	27	2.83085	0.35112	1.53E-08	0.00681	0.01473	0.647747	0.0082
SO4F	avg_0_1_2_3	LAG4	28	2.92043	0.34463	4.36E-09	-0.0006	0.01446	0.965488	0.0001
SO4F	avg_0_1_2_3	LAG5	33	2.43642	0.48787	2.022E-05	0.04404	0.03298	0.191241	0.0528
SO4F	avg_0_1_2_3	LAG6	36	2.85069	0.27101	2.22E-12	0.02238	0.01262	0.084783	0.0825
SO4F	avg_0_1_2_3_4	LAG0	14	2.56643	0.42885	4.56E-05	0.0311	0.01629	0.078618	0.2189
SO4F	avg_0_1_2_3_4	LAG1	19	3.71358	0.43271	8.89E-08	-0.0429	0.01816	0.029588	0.2368
SO4F	avg_0_1_2_3_4	LAG2	18	2.60902	0.85954	0.0074693	0.02409	0.05653	0.675335	0.0106
SO4F	avg_0_1_2_3_4	LAG3	25	2.77578	0.39853	3.34E-07	0.00957	0.01842	0.607955	0.0111
SO4F	avg_0_1_2_3_4	LAG4	27	2.93453	0.3666	1.75E-08	0.00121	0.01711	0.943946	0.0002
SO4F	avg_0_1_2_3_4	LAG5	27	2.09932	0.57859	0.0012227	0.06096	0.03962	0.135997	0.0834
SO4F	avg_0_1_2_3_4	LAG6	34	2.68356	0.29525	1.67E-10	0.03141	0.01507	0.044954	0.1163
SO4F	avg_0_1_2_3_4_5	LAG0	13	2.49624	0.48276	0.0002328	0.03575	0.02126	0.118425	0.1907
SO4F	avg_0_1_2_3_4_5	LAG1	18	3.69606	0.4973	9.80E-07	-0.0425	0.02382	0.092436	0.1576
SO4F	avg_0_1_2_3_4_5	LAG2	18	2.56214	0.95242	0.0154906	0.02877	0.06665	0.671383	0.0108
SO4F	avg_0_1_2_3_4_5	LAG3	24	2.61646	0.41998	2.35E-06	0.02422	0.02223	0.287168	0.0491
SO4F	avg_0_1_2_3_4_5	LAG4	23	2.73735	0.41459	1.22E-06	0.00955	0.02104	0.654502	0.0093
SO4F	avg_0_1_2_3_4_5	LAG5	27	1.90927	0.61609	0.0046222	0.07767	0.04421	0.090711	0.1061
SO4F	avg_0_1_2_3_4_5	LAG6	30	2.61663	0.34883	2.88E-08	0.03729	0.0196	0.067085	0.111
SO4F	avg_0_1_2_3_4_5_6	LAG0	13	2.39741	0.49928	0.0004322	0.04302	0.02357	0.092895	0.2174
SO4F	avg_0_1_2_3_4_5_6	LAG1	18	3.70721	0.52088	1.73E-06	-0.0459	0.02698	0.107184	0.1454
SO4F	avg_0_1_2_3_4_5_6	LAG2	18	2.55151	0.95273	0.0158841	0.03062	0.06908	0.663164	0.0114
SO4F	avg_0_1_2_3_4_5_6	LAG3	21	2.45328	0.44992	2.45E-05	0.02902	0.02424	0.245134	0.0669
SO4F	avg_0_1_2_3_4_5_6	LAG4	23	2.70504	0.43129	2.60E-06	0.01218	0.02359	0.610638	0.012
SO4F	avg_0_1_2_3_4_5_6	LAG5	24	1.81481	0.73437	0.0213	0.08539	0.05379	0.126029	0.0988

SO4F	avg_0_1_2_3_4_5_6	LAG6	25	2.58417	0.41964	2.31E-06	0.04102	0.02376	0.097103	0.1105
SULF	avg_0_1	LAG0	20	3.01168	0.63415	0.0001395	0.01325	0.09087	0.885595	0.0011
SULF	avg_0_1	LAG1	28	2.39065	0.70209	0.0020834	0.11676	0.10163	0.260652	0.0466
SULF	avg_0_1	LAG2	25	2.61723	0.83259	0.0044026	0.0611	0.11415	0.597424	0.0118
SULF	avg_0_1	LAG3	33	2.69255	0.60285	9.299E-05	0.03797	0.07827	0.630932	0.0073
SULF	avg_0_1	LAG4	32	2.72453	0.51479	9.28E-06	0.01527	0.06498	0.815788	0.0018
SULF	avg_0_1	LAG5	36	3.27895	0.54135	6.50E-07	-0.0378	0.07002	0.592815	0.0083
SULF	avg_0_1	LAG6	43	3.353	0.45013	3.34E-09	-0.0171	0.05625	0.762542	0.0022
SULF	avg_0_1_2	LAG0	17	3.21203	1.04695	0.0073565	-0.0078	0.15173	0.959663	0.0002
SULF	avg_0_1_2	LAG1	25	2.32588	1.00466	0.0294761	0.1057	0.14363	0.468898	0.0221
SULF	avg_0_1_2	LAG2	22	1.85545	1.20775	0.1393971	0.1645	0.1592	0.313226	0.0484
SULF	avg_0_1_2	LAG3	28	2.75086	0.79232	0.0017557	0.02097	0.10089	0.836898	0.0016
SULF	avg_0_1_2	LAG4	30	2.72657	0.62998	0.0001631	0.02677	0.08125	0.74421	0.0037
SULF	avg_0_1_2	LAG5	34	2.84843	0.68149	0.0002015	0.01885	0.08342	0.822609	0.0015
SULF	avg_0_1_2	LAG6	41	3.38754	0.5179	8.22E-08	-0.0206	0.06219	0.742086	0.0027
SULF	avg_0_1_2_3	LAG0	17	3.61778	1.30363	0.0135161	-0.0666	0.18591	0.724874	0.008
SULF	avg_0_1_2_3	LAG1	22	1.74335	1.29639	0.1930435	0.18488	0.17646	0.306674	0.0497
SULF	avg_0_1_2_3	LAG2	19	1.52277	1.58597	0.3496996	0.17594	0.20176	0.394676	0.0405
SULF	avg_0_1_2_3	LAG3	27	2.92023	0.85985	0.0022058	0.00488	0.10925	0.96471	0.0001
SULF	avg_0_1_2_3	LAG4	28	2.25826	0.75558	0.0059057	0.08368	0.09344	0.378443	0.0288
SULF	avg_0_1_2_3	LAG5	32	2.9339	0.708	0.0002445	0.00577	0.08346	0.945313	0.0002
SULF	avg_0_1_2_3	LAG6	36	3.60512	0.59758	6.99E-07	-0.0483	0.07259	0.510105	0.0125
SULF	avg_0_1_2_3_4	LAG0	14	3.35642	1.72249	0.0732604	-0.0171	0.22911	0.941622	0.0004
SULF	avg_0_1_2_3_4	LAG1	19	1.3841	1.52812	0.3770334	0.19869	0.19902	0.331355	0.0525
SULF	avg_0_1_2_3_4	LAG2	18	2.55709	1.4546	0.0967486	0.05043	0.18135	0.784293	0.0045
SULF	avg_0_1_2_3_4	LAG3	25	2.46723	0.98311	0.0192376	0.05973	0.11976	0.622498	0.0103
SULF	avg_0_1_2_3_4	LAG4	26	2.38095	0.75669	0.0042346	0.06158	0.08919	0.496269	0.0187
SULF	avg_0_1_2_3_4	LAG5	27	3.18549	0.78172	0.0003844	-0.0301	0.09174	0.745146	0.0041
SULF	avg_0_1_2_3_4	LAG6	33	3.41002	0.68036	1.919E-05	-0.0315	0.08024	0.69692	0.0048
SULF	avg_0_1_2_3_4_5	LAG0	13	2.81015	1.49629	0.0848786	0.0473	0.19258	0.810152	0.005
SULF	avg_0_1_2_3_4_5	LAG1	18	2.2662	1.43785	0.1334268	0.08958	0.18354	0.631726	0.0138
SULF	avg_0_1_2_3_4_5	LAG2	18	2.15646	1.34226	0.1265575	0.09841	0.1618	0.551092	0.0213
SULF	avg_0_1_2_3_4_5	LAG3	23	2.58691	0.90907	0.0094055	0.04019	0.10659	0.709737	0.0064
SULF	avg_0_1_2_3_4_5	LAG4	23	2.85571	0.82373	0.0021917	0.00505	0.0969	0.958876	0.0001
SULF	avg_0_1_2_3_4_5	LAG5	26	2.98265	0.79547	0.0009399	-0.0109	0.09162	0.906291	0.0006
SULF	avg_0_1_2_3_4_5	LAG6	28	3.23994	0.75394	0.0002007	-0.014	0.08664	0.872834	0.001
SULF	avg_0_1_2_3_4_5_6	LAG0	13	3.28344	1.48698	0.04744	-0.0146	0.18834	0.939335	0.0005
SULF	avg_0_1_2_3_4_5_6	LAG1	18	1.90882	1.39104	0.1878288	0.13215	0.17213	0.453166	0.0335
SULF	avg_0_1_2_3_4_5_6	LAG2	17	1.73192	1.26326	0.1893043	0.13192	0.14593	0.379406	0.0486
SULF	avg_0_1_2_3_4_5_6	LAG3	21	3.00918	0.95098	0.0048775	-0.0114	0.11148	0.919784	0.0005
SULF	avg_0_1_2_3_4_5_6	LAG4	22	2.57774	0.87333	0.0076175	0.03123	0.10018	0.758318	0.0046
SULF	avg_0_1_2_3_4_5_6	LAG5	22	2.58714	0.89359	0.0086581	0.02974	0.09972	0.768472	0.0042
SULF	avg_0_1_2_3_4_5_6	LAG6	24	3.60613	0.89139	0.0005024	-0.0476	0.10195	0.644816	0.0094
TKNF	avg_0_1	LAG0	20	4.27007	0.5741	4.86E-07	-0.2326	0.10585	0.040558	0.2027
TKNF	avg_0_1	LAG1	31	4.39799	0.54706	5.66E-09	-0.2254	0.10375	0.037879	0.1359
TKNF	avg_0_1	LAG2	25	4.24478	0.636	6.66E-07	-0.2346	0.11572	0.053828	0.1463
TKNF	avg_0_1	LAG3	36	3.94444	0.44179	1.51E-10	-0.1978	0.08173	0.020862	0.1433
TKNF	avg_0_1	LAG4	32	4.2295	0.41082	1.59E-11	-0.2663	0.07193	0.000831	0.3065
TKNF	avg_0_1	LAG5	36	4.17348	0.36363	2.05E-13	-0.2321	0.06509	0.001074	0.2665
TKNF	avg_0_1	LAG6	43	4.16794	0.348	3.95E-15	-0.1792	0.05946	0.00436	0.1778
TKNF	avg_0_1_2	LAG0	17	4.33629	0.64755	5.13E-06	-0.236	0.12136	0.069638	0.1911
TKNF	avg_0_1_2	LAG1	25	4.26323	0.63277	5.72E-07	-0.2411	0.11649	0.049376	0.1515

TKNF	avg_0_1_2	LAG2	22	4.30206	0.69121	3.57E-06	-0.2377	0.12448	0.069996	0.1479
TKNF	avg_0_1_2	LAG3	28	4.25011	0.47687	1.58E-09	-0.2614	0.08541	0.004948	0.2576
TKNF	avg_0_1_2	LAG4	30	4.11467	0.41917	1.00E-10	-0.2336	0.07483	0.004053	0.2515
TKNF	avg_0_1_2	LAG5	34	4.18948	0.38332	1.67E-12	-0.2276	0.06603	0.001566	0.2647
TKNF	avg_0_1_2	LAG6	42	4.20067	0.34178	2.48E-15	-0.1798	0.05878	0.003907	0.1858
TKNF	avg_0_1_2_3	LAG0	17	4.43546	0.63142	2.87E-06	-0.2525	0.11674	0.046011	0.2263
TKNF	avg_0_1_2_3	LAG1	22	4.32121	0.68731	3.10E-06	-0.2429	0.12453	0.064573	0.1534
TKNF	avg_0_1_2_3	LAG2	19	4.2333	0.68103	7.26E-06	-0.2609	0.12182	0.046138	0.2031
TKNF	avg_0_1_2_3	LAG3	27	4.18252	0.46567	1.89E-09	-0.2394	0.08288	0.007702	0.2429
TKNF	avg_0_1_2_3	LAG4	28	4.1122	0.43944	5.78E-10	-0.2278	0.07561	0.00556	0.2517
TKNF	avg_0_1_2_3	LAG5	33	4.19592	0.3717	1.08E-12	-0.2225	0.06404	0.00149	0.274
TKNF	avg_0_1_2_3	LAG6	36	4.01209	0.38381	2.62E-12	-0.1539	0.06773	0.02928	0.1286
TKNF	avg_0_1_2_3_4	LAG0	14	4.5092	0.68841	1.853E-05	-0.2476	0.12418	0.067597	0.2342
TKNF	avg_0_1_2_3_4	LAG1	19	4.23409	0.68782	8.20E-06	-0.2618	0.12352	0.04824	0.1997
TKNF	avg_0_1_2_3_4	LAG2	18	4.11711	0.65395	8.05E-06	-0.2261	0.11591	0.067819	0.1828
TKNF	avg_0_1_2_3_4	LAG3	25	4.20038	0.48875	8.68E-09	-0.2374	0.08391	0.009269	0.2502
TKNF	avg_0_1_2_3_4	LAG4	27	4.11248	0.4234	3.87E-10	-0.2203	0.07263	0.005431	0.2613
TKNF	avg_0_1_2_3_4	LAG5	27	3.96047	0.41857	6.62E-10	-0.2003	0.07402	0.011852	0.2198
TKNF	avg_0_1_2_3_4	LAG6	34	4.00824	0.39813	1.37E-11	-0.1569	0.06831	0.028142	0.1378
TKNF	avg_0_1_2_3_4_5	LAG0	13	4.58469	0.62881	9.59E-06	-0.2821	0.11554	0.031065	0.3319
TKNF	avg_0_1_2_3_4_5	LAG1	18	4.1283	0.66627	9.77E-06	-0.2294	0.11907	0.070932	0.1792
TKNF	avg_0_1_2_3_4_5	LAG2	18	4.04401	0.63521	7.03E-06	-0.2082	0.10983	0.075182	0.1744
TKNF	avg_0_1_2_3_4_5	LAG3	24	4.18519	0.47171	6.95E-09	-0.2268	0.08106	0.010213	0.254
TKNF	avg_0_1_2_3_4_5	LAG4	23	3.88319	0.47199	3.70E-08	-0.1957	0.0851	0.031314	0.1938
TKNF	avg_0_1_2_3_4_5	LAG5	27	3.94521	0.41641	6.45E-10	-0.1939	0.07225	0.012483	0.217
TKNF	avg_0_1_2_3_4_5	LAG6	30	4.06727	0.44544	4.98E-10	-0.1746	0.0794	0.036044	0.1429
TKNF	avg_0_1_2_3_4_5_6	LAG0	13	4.57456	0.5947	5.60E-06	-0.2756	0.1068	0.024063	0.3569
TKNF	avg_0_1_2_3_4_5_6	LAG1	18	4.06111	0.64725	8.39E-06	-0.2128	0.11309	0.077047	0.1724
TKNF	avg_0_1_2_3_4_5_6	LAG2	18	4.05485	0.61163	4.26E-06	-0.2094	0.10465	0.061672	0.1906
TKNF	avg_0_1_2_3_4_5_6	LAG3	21	3.93482	0.52341	3.00E-07	-0.1998	0.09343	0.044994	0.1861
TKNF	avg_0_1_2_3_4_5_6	LAG4	23	3.85566	0.46812	3.63E-08	-0.1869	0.08273	0.034076	0.1884
TKNF	avg_0_1_2_3_4_5_6	LAG5	24	4.03045	0.47594	1.59E-08	-0.2159	0.08552	0.018935	0.217
TKNF	avg_0_1_2_3_4_5_6	LAG6	25	4.09454	0.53895	7.78E-08	-0.1769	0.09918	0.087121	0.1171
TPF	avg_0_1	LAG0	20	3.52998	0.28058	1.16E-10	-7.5647	3.26283	0.031729	0.2205
TPF	avg_0_1	LAG1	30	3.6203	0.26211	2.76E-14	-6.4473	2.71746	0.024515	0.1626
TPF	avg_0_1	LAG2	25	3.49641	0.27247	3.08E-12	-7.4716	2.70881	0.010938	0.2407
TPF	avg_0_1	LAG3	35	3.33119	0.20703	1.82E-17	-6.6998	2.02972	0.002271	0.2427
TPF	avg_0_1	LAG4	32	3.24292	0.20489	2.11E-16	-5.2004	1.50198	0.001585	0.2789
TPF	avg_0_1	LAG5	35	3.35078	0.19332	1.89E-18	-5.4435	1.81774	0.005095	0.2087
TPF	avg_0_1	LAG6	42	3.55459	0.18048	1.63E-22	-4.3302	1.43986	0.004487	0.1807
TPF	avg_0_1_2	LAG0	17	3.63776	0.28893	1.02E-09	-7.8127	3.11169	0.023167	0.2826
TPF	avg_0_1_2	LAG1	25	3.526	0.28344	5.91E-12	-8.1932	3.05697	0.013088	0.2304
TPF	avg_0_1_2	LAG2	22	3.52189	0.29046	6.01E-11	-6.8319	2.57976	0.015035	0.2504
TPF	avg_0_1_2	LAG3	28	3.29756	0.22657	2.67E-14	-5.8317	1.8966	0.004779	0.2594
TPF	avg_0_1_2	LAG4	29	3.31703	0.21585	3.56E-15	-5.8332	2.04273	0.008003	0.2255
TPF	avg_0_1_2	LAG5	33	3.36845	0.20202	2.45E-17	-5.0185	1.65153	0.004705	0.2239
TPF	avg_0_1_2	LAG6	40	3.61606	0.18226	5.55E-22	-4.9076	1.73898	0.007469	0.1696
TPF	avg_0_1_2_3	LAG0	17	3.60934	0.28783	1.08E-09	-7.5733	3.13384	0.027977	0.2674
TPF	avg_0_1_2_3	LAG1	22	3.56423	0.3	8.75E-11	-7.6303	2.8799	0.014993	0.2505
TPF	avg_0_1_2_3	LAG2	19	3.27567	0.31186	4.17E-09	-5.3749	2.43158	0.040261	0.2135
TPF	avg_0_1_2_3	LAG3	26	3.38166	0.23682	1.59E-13	-6.8495	2.46088	0.010096	0.2366
TPF	avg_0_1_2_3	LAG4	27	3.31508	0.22986	6.44E-14	-5.2033	1.90106	0.01103	0.2237

TPF	avg_0_1_2_3	LAG5	31	3.44767	0.20354	6.65E-17	-5.96	1.96669	0.004991	0.2344
TPF	avg_0_1_2_3	LAG6	32	3.63686	0.20832	1.36E-17	-5.9234	2.36515	0.017736	0.1683
TPF	avg_0_1_2_3_4	LAG0	14	3.66243	0.30295	1.91E-08	-6.6448	2.85708	0.036853	0.2938
TPF	avg_0_1_2_3_4	LAG1	19	3.3211	0.31352	3.65E-09	-6.3072	2.67357	0.029822	0.2362
TPF	avg_0_1_2_3_4	LAG2	17	3.34119	0.3338	2.71E-08	-5.7531	3.38706	0.10876	0.1528
TPF	avg_0_1_2_3_4	LAG3	24	3.38028	0.25382	2.69E-12	-5.9879	2.25768	0.014237	0.2342
TPF	avg_0_1_2_3_4	LAG4	25	3.38903	0.23585	2.76E-13	-6.0893	2.36887	0.016783	0.2159
TPF	avg_0_1_2_3_4	LAG5	23	3.42984	0.22985	5.46E-13	-8.2706	2.73957	0.006311	0.2929
TPF	avg_0_1_2_3_4	LAG6	30	3.58925	0.21981	3.69E-16	-5.0588	2.18555	0.027913	0.1559
TPF	avg_0_1_2_3_4_5	LAG0	13	3.59279	0.28729	3.05E-08	-6.6128	2.51268	0.021904	0.366
TPF	avg_0_1_2_3_4_5	LAG1	17	3.3676	0.33489	2.54E-08	-6.4005	3.57622	0.092438	0.1668
TPF	avg_0_1_2_3_4_5	LAG2	17	3.33564	0.3327	2.65E-08	-5.0424	2.98388	0.110438	0.1514
TPF	avg_0_1_2_3_4_5	LAG3	22	3.44554	0.26094	1.22E-11	-6.5747	2.75341	0.026424	0.2135
TPF	avg_0_1_2_3_4_5	LAG4	19	3.38066	0.26502	1.88E-10	-8.5515	3.52992	0.026183	0.2459
TPF	avg_0_1_2_3_4_5	LAG5	23	3.40765	0.23371	8.68E-13	-6.9992	2.48612	0.010079	0.2649
TPF	avg_0_1_2_3_4_5	LAG6	24	3.61427	0.25047	5.14E-13	-4.2112	2.92469	0.163378	0.0827
TPF	avg_0_1_2_3_4_5_6	LAG0	12	3.62672	0.30632	1.34E-07	-7.3633	3.76793	0.076568	0.2577
TPF	avg_0_1_2_3_4_5_6	LAG1	17	3.35712	0.3337	2.53E-08	-5.5889	3.16942	0.09692	0.1627
TPF	avg_0_1_2_3_4_5_6	LAG2	16	3.36545	0.35015	8.40E-08	-5.6647	3.95346	0.172415	0.1204
TPF	avg_0_1_2_3_4_5_6	LAG3	17	3.44393	0.29321	2.80E-09	-9.4413	4.04312	0.032887	0.2542
TPF	avg_0_1_2_3_4_5_6	LAG4	19	3.35291	0.26983	2.87E-10	-7.0803	3.20284	0.040246	0.2135
TPF	avg_0_1_2_3_4_5_6	LAG5	18	3.48603	0.28474	7.40E-10	-7.507	3.82218	0.066089	0.1849
TPF	avg_0_1_2_3_4_5_6	LAG6	20	3.52453	0.27256	7.26E-11	-4.4075	2.7564	0.126313	0.1186

UNIVARIATE LAG AVE 0-6
 PORE WATER
 LOG Mosquitofish THg vs LOG Y
 POOLED STATIONS

param	independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
CAF	Lavg_0_1	LAG0	16	10.9215	2.30788	0.000267	-1.552	0.46572	0.004546	0.4254
CAF	Lavg_0_1	LAG1	28	12.0027	2.2506	1.25E-05	-1.7475	0.45325	0.000648	0.3551
CAF	Lavg_0_1	LAG2	21	11.8993	2.5774	0.000167	-1.7666	0.51868	0.002803	0.3671
CAF	Lavg_0_1	LAG3	30	12.6601	1.61602	1.22E-08	-2.0011	0.32935	1.29E-06	0.5601
CAF	Lavg_0_1	LAG4	27	12.7339	1.06926	4.96E-12	-1.9813	0.21531	1.16E-09	0.7651
CAF	Lavg_0_1	LAG5	33	11.8897	1.28013	1.34E-10	-1.7846	0.25921	8.61E-08	0.597
CAF	Lavg_0_1	LAG6	39	10.775	1.76047	3.89E-07	-1.5312	0.35659	0.000117	0.3267
CAF	Lavg_0_1_2	LAG0	14	11.4372	2.61117	0.000744	-1.6461	0.52252	0.007666	0.4329
CAF	Lavg_0_1_2	LAG1	18	11.9474	2.89847	0.000712	-1.7643	0.58345	0.007654	0.3498
CAF	Lavg_0_1_2	LAG2	16	14.5299	2.4088	2.3E-05	-2.3497	0.48696	0.000223	0.6082
CAF	Lavg_0_1_2	LAG3	20	12.9452	1.2828	4.55E-09	-2.0128	0.26083	2.85E-07	0.7581
CAF	Lavg_0_1_2	LAG4	25	12.3062	1.10854	6.15E-11	-1.8954	0.22385	1.14E-08	0.7492
CAF	Lavg_0_1_2	LAG5	28	12.11	1.44262	5.26E-09	-1.8288	0.29295	1.12E-06	0.5907
CAF	Lavg_0_1_2	LAG6	35	10.5543	1.96182	5.52E-06	-1.4885	0.39927	0.000701	0.2902
CAF	Lavg_0_1_2_3	LAG0	10	10.0999	3.05673	0.009169	-1.3301	0.61693	0.059445	0.3406
CAF	Lavg_0_1_2_3	LAG1	13	14.9916	2.81565	0.000181	-2.4341	0.5689	0.001072	0.604
CAF	Lavg_0_1_2_3	LAG2	11	13.3772	1.70099	1.37E-05	-2.0876	0.3465	0.000128	0.784
CAF	Lavg_0_1_2_3	LAG3	19	12.7822	1.30574	1.24E-08	-1.985	0.26517	6.23E-07	0.7569
CAF	Lavg_0_1_2_3	LAG4	20	12.6143	1.2227	3.18E-09	-1.9628	0.24758	1.92E-07	0.7679
CAF	Lavg_0_1_2_3	LAG5	24	12.2522	1.63123	1.24E-07	-1.8675	0.33363	1.07E-05	0.5767
CAF	Lavg_0_1_2_3	LAG6	29	9.31263	2.23685	0.000271	-1.2513	0.45435	0.010224	0.2131
CAF	Lavg_0_1_2_3_4	LAG0	5	14.7999	2.30928	0.003045	-2.3458	0.4682	0.007436	0.8626
CAF	Lavg_0_1_2_3_4	LAG1	8	13.7935	1.73153	9.37E-05	-2.1375	0.35138	0.000499	0.8409
CAF	Lavg_0_1_2_3_4	LAG2	11	13.516	1.66028	1.01E-05	-2.1178	0.33851	9.43E-05	0.7965
CAF	Lavg_0_1_2_3_4	LAG3	14	13.3739	1.41976	3.58E-07	-2.1065	0.28936	6.18E-06	0.803
CAF	Lavg_0_1_2_3_4	LAG4	17	13.13	1.45331	1.11E-07	-2.0741	0.2969	3.07E-06	0.7531
CAF	Lavg_0_1_2_3_4	LAG5	19	11.1254	1.71513	4.23E-06	-1.6613	0.34999	0.000161	0.5559
CAF	Lavg_0_1_2_3_4	LAG6	24	10.6915	2.32311	0.000125	-1.5713	0.47267	0.002953	0.3245
CAF	Lavg_0_1_2_3_4_5	LAG0	5	14.8489	2.28275	0.002882	-2.3581	0.46328	0.007032	0.8663
CAF	Lavg_0_1_2_3_4_5	LAG1	8	13.8374	1.68397	7.68E-05	-2.1486	0.34206	0.000412	0.8493
CAF	Lavg_0_1_2_3_4_5	LAG2	11	13.5045	1.74869	1.6E-05	-2.1149	0.35648	0.000145	0.7787
CAF	Lavg_0_1_2_3_4_5	LAG3	14	13.2073	1.53641	1.01E-06	-2.0721	0.3131	1.67E-05	0.7711
CAF	Lavg_0_1_2_3_4_5	LAG4	14	12.1744	1.17769	1.22E-07	-1.907	0.24126	2.55E-06	0.8278
CAF	Lavg_0_1_2_3_4_5	LAG5	19	11.3407	1.69907	2.92E-06	-1.7036	0.34638	0.000111	0.5734
CAF	Lavg_0_1_2_3_4_5	LAG6	21	10.381	2.72261	0.001089	-1.5082	0.5544	0.013176	0.2701
CAF	Lavg_0_1_2_3_4_5_6	LAG0	5	14.8689	2.23083	0.002633	-2.3653	0.45334	0.006438	0.8719
CAF	Lavg_0_1_2_3_4_5_6	LAG1	8	13.8292	1.75761	0.000101	-2.1457	0.35684	0.000535	0.8378
CAF	Lavg_0_1_2_3_4_5_6	LAG2	11	13.3397	1.88309	3.36E-05	-2.0811	0.38389	0.000293	0.7461
CAF	Lavg_0_1_2_3_4_5_6	LAG3	11	12.0869	1.25424	2.23E-06	-1.8737	0.25622	2.56E-05	0.8425
CAF	Lavg_0_1_2_3_4_5_6	LAG4	14	12.2549	1.20963	1.55E-07	-1.9201	0.24738	3.11E-06	0.8225
CAF	Lavg_0_1_2_3_4_5_6	LAG5	16	11.2859	2.03865	5.71E-05	-1.692	0.41596	0.00101	0.5245
CAF	Lavg_0_1_2_3_4_5_6	LAG6	16	9.83319	3.5141	0.013508	-1.3976	0.7163	0.069982	0.2024
CLF	Lavg_0_1	LAG0	20	12.2335	2.41074	6.73E-05	-1.6276	0.4283	0.001209	0.4318
CLF	Lavg_0_1	LAG1	31	13.3143	2.57856	1.47E-05	-1.7961	0.46139	0.000512	0.3356
CLF	Lavg_0_1	LAG2	25	12.7576	2.83183	0.000146	-1.7248	0.50146	0.002139	0.3302

CLF	Lavg_0_1	LAG3	36	11.3641	2.25629	1.44E-05	-1.5068	0.40377	0.000673	0.2847
CLF	Lavg_0_1	LAG4	32	14.0457	2.14189	2.54E-07	-1.988	0.379	1.06E-05	0.4702
CLF	Lavg_0_1	LAG5	36	14.4805	1.95359	1.13E-08	-2.0582	0.34958	1.09E-06	0.4976
CLF	Lavg_0_1	LAG6	43	12.406	1.97993	1.65E-07	-1.6474	0.35446	3.31E-05	0.3396
CLF	Lavg_0_1_2	LAG0	17	11.788	2.9215	0.000959	-1.5362	0.51887	0.009203	0.3539
CLF	Lavg_0_1_2	LAG1	25	12.8489	2.82874	0.000133	-1.7436	0.50168	0.001957	0.3348
CLF	Lavg_0_1_2	LAG2	22	12.609	3.30888	0.001021	-1.692	0.58568	0.00878	0.2844
CLF	Lavg_0_1_2	LAG3	28	14.1379	2.35846	2.15E-06	-1.9992	0.41892	5.62E-05	0.4575
CLF	Lavg_0_1_2	LAG4	30	13.8139	2.34559	2.16E-06	-1.9425	0.4175	6.65E-05	0.4274
CLF	Lavg_0_1_2	LAG5	34	14.7429	2.00311	1.88E-08	-2.1008	0.35744	1.38E-06	0.5114
CLF	Lavg_0_1_2	LAG6	42	11.7425	2.14163	2.35E-06	-1.524	0.38409	0.000285	0.2774
CLF	Lavg_0_1_2_3	LAG0	17	11.7769	2.95379	0.001061	-1.5301	0.5232	0.009924	0.3483
CLF	Lavg_0_1_2_3	LAG1	22	12.7596	3.29054	0.00087	-1.7199	0.58283	0.007629	0.2931
CLF	Lavg_0_1_2_3	LAG2	19	14.5931	3.44257	0.000494	-2.074	0.60844	0.00313	0.3923
CLF	Lavg_0_1_2_3	LAG3	27	14.2346	2.57321	8.31E-06	-2.0173	0.45932	0.000167	0.4259
CLF	Lavg_0_1_2_3	LAG4	28	14.3502	2.43339	2.77E-06	-2.0333	0.43154	6.61E-05	0.4512
CLF	Lavg_0_1_2_3	LAG5	33	14.4261	2.21144	2.41E-07	-2.0431	0.39591	1.25E-05	0.4542
CLF	Lavg_0_1_2_3	LAG6	36	10.4898	2.53523	0.000209	-1.306	0.45486	0.006898	0.1906
CLF	Lavg_0_1_2_3_4	LAG0	14	11.2749	3.65879	0.008752	-1.4258	0.647	0.046179	0.272
CLF	Lavg_0_1_2_3_4	LAG1	19	14.54	3.45075	0.000522	-2.0651	0.61004	0.003298	0.389
CLF	Lavg_0_1_2_3_4	LAG2	18	14.6883	3.82878	0.001322	-2.0951	0.68225	0.006923	0.3568
CLF	Lavg_0_1_2_3_4	LAG3	25	15.0201	2.69268	9.70E-06	-2.1519	0.47881	0.00015	0.457
CLF	Lavg_0_1_2_3_4	LAG4	27	14.0283	2.64825	1.54E-05	-1.9765	0.47179	0.000285	0.403
CLF	Lavg_0_1_2_3_4	LAG5	27	13.8622	2.65291	1.86E-05	-1.9614	0.47545	0.000337	0.3956
CLF	Lavg_0_1_2_3_4	LAG6	34	9.94144	2.68585	0.000778	-1.2123	0.48079	0.016695	0.1615
CLF	Lavg_0_1_2_3_4_5	LAG0	13	14.831	3.49035	0.001129	-2.0826	0.62219	0.00581	0.4828
CLF	Lavg_0_1_2_3_4_5	LAG1	18	14.5467	3.80503	0.001361	-2.069	0.67771	0.007195	0.3541
CLF	Lavg_0_1_2_3_4_5	LAG2	18	15.008	3.82075	0.001084	-2.1566	0.68225	0.005706	0.3702
CLF	Lavg_0_1_2_3_4_5	LAG3	24	14.9455	2.97178	4.34E-05	-2.1409	0.53151	0.000525	0.4136
CLF	Lavg_0_1_2_3_4_5	LAG4	23	13.2097	3.10831	0.000328	-1.849	0.55639	0.003087	0.3342
CLF	Lavg_0_1_2_3_4_5	LAG5	27	14.0055	2.66265	1.69E-05	-1.991	0.47814	0.000304	0.4001
CLF	Lavg_0_1_2_3_4_5	LAG6	30	10.9766	3.08418	0.001305	-1.4045	0.55436	0.016952	0.1812
CLF	Lavg_0_1_2_3_4_5_6	LAG0	13	14.8699	3.53923	0.001229	-2.0932	0.63203	0.006203	0.4775
CLF	Lavg_0_1_2_3_4_5_6	LAG1	18	14.874	3.80486	0.001129	-2.1312	0.67891	0.005982	0.3669
CLF	Lavg_0_1_2_3_4_5_6	LAG2	18	14.9834	3.88982	0.001278	-2.1549	0.69546	0.006526	0.3609
CLF	Lavg_0_1_2_3_4_5_6	LAG3	21	13.3557	3.30584	0.000641	-1.8717	0.59162	0.004884	0.3335
CLF	Lavg_0_1_2_3_4_5_6	LAG4	23	13.3404	3.11279	0.0003	-1.8761	0.55827	0.002825	0.3392
CLF	Lavg_0_1_2_3_4_5_6	LAG5	24	13.8002	3.10908	0.000189	-1.9561	0.55872	0.001924	0.3476
CLF	Lavg_0_1_2_3_4_5_6	LAG6	25	10.3284	3.67638	0.009715	-1.2814	0.66071	0.064293	0.1355
DOC	Lavg_0_1	LAG0	20	9.91175	2.03584	0.000107	-1.6103	0.47904	0.003277	0.3729
DOC	Lavg_0_1	LAG1	31	10.3691	1.9006	6.43E-06	-1.6734	0.44786	0.000783	0.3176
DOC	Lavg_0_1	LAG2	25	11.1809	2.05077	1.33E-05	-1.9131	0.47993	0.000546	0.3983
DOC	Lavg_0_1	LAG3	36	9.55854	1.66004	1.61E-06	-1.5653	0.39232	0.000321	0.3126
DOC	Lavg_0_1	LAG4	32	10.1682	1.53009	1.98E-07	-1.7037	0.35385	3.65E-05	0.4279
DOC	Lavg_0_1	LAG5	36	11.1138	1.45343	5.70E-09	-1.9233	0.34323	2.57E-06	0.4729
DOC	Lavg_0_1	LAG6	43	10.1142	1.4236	1.03E-08	-1.6296	0.33529	1.67E-05	0.36
DOC	Lavg_0_1_2	LAG0	17	9.85102	2.16036	0.000321	-1.5755	0.50644	0.006724	0.3769
DOC	Lavg_0_1_2	LAG1	25	11.051	2.11969	2.42E-05	-1.8874	0.4974	0.000884	0.375
DOC	Lavg_0_1_2	LAG2	22	10.7026	2.31142	0.000144	-1.7869	0.53886	0.003284	0.3437
DOC	Lavg_0_1_2	LAG3	28	10.6561	1.77199	2.04E-06	-1.8199	0.41444	0.000156	0.4166
DOC	Lavg_0_1_2	LAG4	30	10.4132	1.67678	8.96E-07	-1.76	0.39235	0.000106	0.4096
DOC	Lavg_0_1_2	LAG5	34	11.2716	1.45122	6.00E-09	-1.9496	0.34039	2.15E-06	0.4985

DOC	Lavg_0_1_2	LAG6	42	10.045	1.53784	7.58E-08	-1.6084	0.36329	6.92E-05	0.3234
DOC	Lavg_0_1_2_3	LAG0	17	10.0993	2.19768	0.000299	-1.6321	0.51472	0.005929	0.3859
DOC	Lavg_0_1_2_3	LAG1	22	10.6866	2.34704	0.000173	-1.7859	0.54807	0.003756	0.3358
DOC	Lavg_0_1_2_3	LAG2	19	10.6265	2.38229	0.000302	-1.803	0.55216	0.004297	0.372
DOC	Lavg_0_1_2_3	LAG3	27	10.7953	1.84551	3.63E-06	-1.8509	0.43398	0.000234	0.4116
DOC	Lavg_0_1_2_3	LAG4	28	10.7274	1.71209	1.05E-06	-1.8251	0.39791	9.25E-05	0.4379
DOC	Lavg_0_1_2_3	LAG5	33	11.1388	1.5609	4.24E-08	-1.9148	0.3674	1.07E-05	0.4591
DOC	Lavg_0_1_2_3	LAG6	36	9.12459	1.69543	5.05E-06	-1.3984	0.40026	0.001311	0.2586
DOC	Lavg_0_1_2_3_4	LAG0	14	9.69755	2.4683	0.001729	-1.5112	0.5742	0.020715	0.3476
DOC	Lavg_0_1_2_3_4	LAG1	19	10.7431	2.42932	0.000329	-1.8332	0.56408	0.004447	0.3698
DOC	Lavg_0_1_2_3_4	LAG2	18	10.5951	2.52393	0.000604	-1.7939	0.58984	0.007375	0.3524
DOC	Lavg_0_1_2_3_4	LAG3	25	11.1532	1.89285	4.44E-06	-1.9244	0.44176	0.000214	0.4415
DOC	Lavg_0_1_2_3_4	LAG4	27	10.5364	1.8301	4.62E-06	-1.7773	0.42731	0.000308	0.3995
DOC	Lavg_0_1_2_3_4	LAG5	27	10.1855	1.73769	3.52E-06	-1.7117	0.40869	0.000286	0.4029
DOC	Lavg_0_1_2_3_4	LAG6	34	8.56726	1.80431	3.87E-05	-1.2692	0.42353	0.00515	0.2139
DOC	Lavg_0_1_2_3_4_5	LAG0	13	11.277	2.33234	0.000408	-1.9088	0.54693	0.004463	0.5037
DOC	Lavg_0_1_2_3_4_5	LAG1	18	10.656	2.56954	0.000675	-1.8101	0.60121	0.007872	0.3478
DOC	Lavg_0_1_2_3_4_5	LAG2	18	10.7933	2.55013	0.000561	-1.8424	0.59668	0.006678	0.3593
DOC	Lavg_0_1_2_3_4_5	LAG3	24	10.961	2.03301	1.78E-05	-1.8764	0.47707	0.000664	0.4021
DOC	Lavg_0_1_2_3_4_5	LAG4	23	9.73624	2.03025	8.65E-05	-1.6128	0.47691	0.002686	0.342
DOC	Lavg_0_1_2_3_4_5	LAG5	27	10.3396	1.77186	3.77E-06	-1.749	0.41701	0.000281	0.4035
DOC	Lavg_0_1_2_3_4_5	LAG6	30	8.97794	2.02437	0.000122	-1.3736	0.47743	0.007457	0.222
DOC	Lavg_0_1_2_3_4_5_6	LAG0	13	11.3326	2.35553	0.000425	-1.9247	0.55321	0.004553	0.5022
DOC	Lavg_0_1_2_3_4_5_6	LAG1	18	10.8227	2.58703	0.000623	-1.8507	0.60583	0.007165	0.3544
DOC	Lavg_0_1_2_3_4_5_6	LAG2	18	10.8142	2.61998	0.000704	-1.8487	0.61358	0.007836	0.3481
DOC	Lavg_0_1_2_3_4_5_6	LAG3	21	9.93424	2.19597	0.000207	-1.6563	0.51616	0.004406	0.3399
DOC	Lavg_0_1_2_3_4_5_6	LAG4	23	9.86395	2.06107	8.86E-05	-1.6435	0.48439	0.002615	0.3435
DOC	Lavg_0_1_2_3_4_5_6	LAG5	24	10.261	2.0436	4.43E-05	-1.7329	0.48148	0.001514	0.3603
DOC	Lavg_0_1_2_3_4_5_6	LAG6	25	8.56468	2.38887	0.001491	-1.2687	0.56392	0.033903	0.1742
FEF	Lavg_0_1	LAG0	3	3.39701	8.23515	0.719986	-0.3569	3.82582	0.934177	0.0043
FEF	Lavg_0_1	LAG1	11	3.56012	1.10085	0.008961	0.08371	0.4078	0.841481	0.0042
FEF	Lavg_0_1	LAG2	5	-0.4541	0.53113	0.440721	1.33415	0.19826	0.002541	0.9188
FEF	Lavg_0_1	LAG3	13	4.80163	0.85924	0.000118	-0.9138	0.36115	0.026401	0.3479
FEF	Lavg_0_1	LAG4	8	2.65172	1.64985	0.152036	0.07385	0.70848	0.919902	0.0015
FEF	Lavg_0_1	LAG5	16	4.03897	1.2994	0.007194	-0.4455	0.62334	0.485726	0.0329
FEF	Lavg_0_1	LAG6	19	3.12904	1.11608	0.011746	0.03036	0.51137	0.953316	0.0002
FEF	Lavg_0_1_2	LAG0	0	1.92862			0			
FEF	Lavg_0_1_2	LAG1	1	-0.3447			1.1983			1
FEF	Lavg_0_1_2	LAG2	0	2.28823			0			
FEF	Lavg_0_1_2	LAG3	4	11.196	1.52521	0.005224	-4.2718	0.7946	0.012603	0.906
FEF	Lavg_0_1_2	LAG4	4	12.6621	4.39386	0.063438	-5.1847	2.36837	0.116348	0.615
FEF	Lavg_0_1_2	LAG5	9	8.21617	2.16206	0.005236	-2.6304	1.1128	0.045691	0.4112
FEF	Lavg_0_1_2	LAG6	11	4.90903	1.24687	0.002788	-0.9369	0.61061	0.15594	0.1906
FEF	Lavg_0_1_2_3	LAG0	0	1.92862			0			
FEF	Lavg_0_1_2_3	LAG1	0	2.28823			0			
FEF	Lavg_0_1_2_3	LAG3	4	12.4155	1.25559	0.0022	-4.9832	0.66497	0.004922	0.9493
FEF	Lavg_0_1_2_3	LAG4	2	-4.3581	42.483	0.934921	4.7871	23.8048	0.873662	0.0389
FEF	Lavg_0_1_2_3	LAG5	7	5.11551	1.50801	0.014636	-1.1195	0.71206	0.166957	0.2918
FEF	Lavg_0_1_2_3	LAG6	9	5.44291	1.14034	0.001403	-1.0742	0.5561	0.089498	0.3181
FEF	Lavg_0_1_2_3_4	LAG3	2	19.9257	8.99586	0.269975	-9.0543	5.17109	0.330352	0.754
FEF	Lavg_0_1_2_3_4	LAG4	0	3.35096			0			
FEF	Lavg_0_1_2_3_4	LAG5	5	5.56836	1.24587	0.011079	-1.1809	0.58863	0.115308	0.5015

FEF	Lavg_0_1_2_3_4	LAG6	4	6.29262	1.12946	0.011413	-1.504	0.55427	0.072947	0.7105
FEF	Lavg_0_1_2_3_4_5	LAG3	0	3.35096			0			
FEF	Lavg_0_1_2_3_4_5	LAG4	0	3.35096			0			
FEF	Lavg_0_1_2_3_4_5	LAG5	2	6.35848	0.07894	0.007903	-1.5549	0.03492	0.014297	0.9995
FEF	Lavg_0_1_2_3_4_5	LAG6	0	3.44681			0			
FEF	Lavg_0_1_2_3_4_5_6	LAG3	0	3.35096			0			
FEF	Lavg_0_1_2_3_4_5_6	LAG4	0	3.35096			0			
FEF	Lavg_0_1_2_3_4_5_6	LAG5	0	3.44681			0			
FEF	Lavg_0_1_2_3_4_5_6	LAG6	0	3.44681			0			
KF	Lavg_0_1	LAG0	19	-0.5313	1.80191	0.771468	1.89203	0.91411	0.053134	0.1922
KF	Lavg_0_1	LAG1	30	3.14424	0.89938	0.001541	0.11279	0.46031	0.808163	0.0021
KF	Lavg_0_1	LAG2	24	-1.4227	1.80437	0.438484	2.3003	0.91308	0.019161	0.2163
KF	Lavg_0_1	LAG3	34	1.05694	0.86572	0.230784	1.01063	0.43656	0.026976	0.1397
KF	Lavg_0_1	LAG4	29	0.12964	1.07162	0.904571	1.44468	0.55369	0.014404	0.1956
KF	Lavg_0_1	LAG5	30	-1.3734	1.41354	0.33927	2.22608	0.70911	0.003873	0.2536
KF	Lavg_0_1	LAG6	37	-0.4547	1.42502	0.751524	1.89098	0.7145	0.011984	0.1629
KF	Lavg_0_1_2	LAG0	16	-0.8208	2.43286	0.74051	2.04737	1.21751	0.113343	0.1586
KF	Lavg_0_1_2	LAG1	23	-1.0641	2.37836	0.658953	2.12004	1.19058	0.08878	0.126
KF	Lavg_0_1_2	LAG2	20	-1.0317	2.52305	0.687183	2.11479	1.26413	0.110729	0.1284
KF	Lavg_0_1_2	LAG3	24	-2.5858	2.27074	0.266523	2.80505	1.13301	0.02109	0.2104
KF	Lavg_0_1_2	LAG4	23	-1.4072	1.74097	0.427578	2.20068	0.8703	0.01913	0.2252
KF	Lavg_0_1_2	LAG5	26	-1.9856	1.71625	0.258228	2.55268	0.85991	0.006511	0.2606
KF	Lavg_0_1_2	LAG6	30	-0.4385	1.78708	0.807885	1.90411	0.88821	0.040568	0.1368
KF	Lavg_0_1_2_3	LAG0	15	-0.2644	2.35604	0.912247	1.7993	1.1721	0.147044	0.1441
KF	Lavg_0_1_2_3	LAG1	19	0.25195	2.99178	0.933816	1.49091	1.48451	0.32854	0.0531
KF	Lavg_0_1_2_3	LAG2	15	-3.0117	3.35088	0.383961	3.01372	1.66284	0.091421	0.19
KF	Lavg_0_1_2_3	LAG3	19	-2.5345	2.6249	0.347065	2.76277	1.28808	0.045858	0.2036
KF	Lavg_0_1_2_3	LAG4	19	-1.5896	2.07794	0.454188	2.3139	1.03748	0.038694	0.2165
KF	Lavg_0_1_2_3	LAG5	19	-2.7661	2.24332	0.233423	2.91697	1.10485	0.016631	0.2791
KF	Lavg_0_1_2_3	LAG6	18	2.39683	1.81345	0.203779	0.63657	0.8809	0.479728	0.0298
KF	Lavg_0_1_2_3_4	LAG0	12	2.08865	2.92586	0.490185	0.6765	1.44248	0.648237	0.0196
KF	Lavg_0_1_2_3_4	LAG1	14	-2.2123	3.97306	0.587103	2.62959	1.94857	0.200212	0.1229
KF	Lavg_0_1_2_3_4	LAG2	11	-3.4994	5.60552	0.546427	3.16863	2.72054	0.27117	0.1195
KF	Lavg_0_1_2_3_4	LAG3	15	-2.1271	3.05026	0.497005	2.59953	1.49265	0.103504	0.1781
KF	Lavg_0_1_2_3_4	LAG4	13	-2.0282	2.91002	0.499093	2.46022	1.42782	0.110522	0.1983
KF	Lavg_0_1_2_3_4	LAG5	10	-2.8463	2.63359	0.307915	2.99312	1.26119	0.041687	0.3849
KF	Lavg_0_1_2_3_4	LAG6	16	2.49139	1.74275	0.173337	0.57651	0.84813	0.507023	0.0299
KF	Lavg_0_1_2_3_4_5	LAG0	9	0.56488	6.42382	0.93209	1.46333	3.09886	0.649385	0.0271
KF	Lavg_0_1_2_3_4_5	LAG1	11	-4.1058	6.62329	0.549188	3.44887	3.20271	0.306835	0.1039
KF	Lavg_0_1_2_3_4_5	LAG2	9	-2.6153	7.84974	0.747569	2.79242	3.79045	0.482347	0.0635
KF	Lavg_0_1_2_3_4_5	LAG3	10	-7.8933	6.24522	0.238022	5.26021	2.99442	0.112852	0.2553
KF	Lavg_0_1_2_3_4_5	LAG4	7	-2.124	2.70907	0.462836	2.60805	1.30413	0.092446	0.4
KF	Lavg_0_1_2_3_4_5	LAG5	10	-2.8221	2.54055	0.295436	2.99039	1.22016	0.036708	0.4003
KF	Lavg_0_1_2_3_4_5	LAG6	10	-1.1377	4.08688	0.787014	2.34245	1.95327	0.261053	0.1378
KF	Lavg_0_1_2_3_4_5_6	LAG0	7	0.32963	5.6457	0.955336	1.45438	2.72029	0.612121	0.0455
KF	Lavg_0_1_2_3_4_5_6	LAG1	9	-2.7467	8.74561	0.761507	2.84942	4.21463	0.518055	0.054
KF	Lavg_0_1_2_3_4_5_6	LAG2	5	-13.803	10.4271	0.256175	7.90544	4.98598	0.188027	0.3859
KF	Lavg_0_1_2_3_4_5_6	LAG3	5	0.28575	2.62788	0.918647	1.5231	1.25055	0.290175	0.2705
KF	Lavg_0_1_2_3_4_5_6	LAG4	7	-2.1318	2.54912	0.435033	2.62092	1.23129	0.07736	0.4302
KF	Lavg_0_1_2_3_4_5_6	LAG5	5	-6.9964	3.88177	0.145835	4.95282	1.85081	0.055457	0.6416
KF	Lavg_0_1_2_3_4_5_6	LAG6	8	4.2107	4.37186	0.367563	-0.1038	2.07564	0.961509	0.0004
MGF	Lavg_0_1	LAG0	20	10.8947	1.8647	1.26E-05	-2.0021	0.47679	0.000486	0.4813

MGF	Lavg_0_1	LAG1	31	10.9871	2.02555	7.03E-06	-1.9838	0.52067	0.000642	0.3261
MGF	Lavg_0_1	LAG2	25	11.1957	2.19525	3.23E-05	-2.0855	0.55924	0.001041	0.3669
MGF	Lavg_0_1	LAG3	36	9.80909	1.70324	1.60E-06	-1.7751	0.43988	0.000282	0.3175
MGF	Lavg_0_1	LAG4	32	11.2299	1.62654	9.65E-08	-2.1477	0.41453	1.28E-05	0.4641
MGF	Lavg_0_1	LAG5	36	11.4542	1.54043	1.06E-08	-2.1888	0.39748	3.45E-06	0.4642
MGF	Lavg_0_1	LAG6	43	10.4417	1.61067	8.02E-08	-1.8676	0.41534	5.36E-05	0.325
MGF	Lavg_0_1_2	LAG0	17	10.6292	2.27493	0.000255	-1.9152	0.5811	0.004559	0.4044
MGF	Lavg_0_1_2	LAG1	25	11.3294	2.21906	3.18E-05	-2.1229	0.56621	0.00099	0.3694
MGF	Lavg_0_1_2	LAG2	22	11.0018	2.49924	0.000248	-2.0309	0.63758	0.004452	0.3258
MGF	Lavg_0_1_2	LAG3	28	11.6105	1.83504	8.98E-07	-2.2395	0.47046	5.8E-05	0.4563
MGF	Lavg_0_1_2	LAG4	30	11.1069	1.76971	7.49E-07	-2.1101	0.45464	6.87E-05	0.4262
MGF	Lavg_0_1_2	LAG5	34	11.8322	1.60498	1.82E-08	-2.2831	0.41317	3.91E-06	0.4806
MGF	Lavg_0_1_2	LAG6	42	9.83441	1.6921	8.01E-07	-1.7089	0.43851	0.000353	0.2703
MGF	Lavg_0_1_2_3	LAG0	17	10.3266	2.28294	0.000346	-1.8345	0.5821	0.006175	0.383
MGF	Lavg_0_1_2_3	LAG1	22	11.1807	2.51615	0.000225	-2.077	0.64205	0.003968	0.3326
MGF	Lavg_0_1_2_3	LAG2	19	11.861	2.554	0.000202	-2.2991	0.65158	0.0024	0.4089
MGF	Lavg_0_1_2_3	LAG3	27	11.6254	1.94552	2.62E-06	-2.2433	0.50167	0.000136	0.4347
MGF	Lavg_0_1_2_3	LAG4	28	11.4261	1.8601	1.45E-06	-2.1873	0.47593	9.02E-05	0.4389
MGF	Lavg_0_1_2_3	LAG5	33	11.4653	1.71586	1.53E-07	-2.1907	0.44441	2.44E-05	0.4316
MGF	Lavg_0_1_2_3	LAG6	36	8.74609	1.9406	7.04E-05	-1.4381	0.50379	0.007194	0.1889
MGF	Lavg_0_1_2_3_4	LAG0	14	9.97905	2.78305	0.003322	-1.7241	0.70837	0.030107	0.313
MGF	Lavg_0_1_2_3_4	LAG1	19	12.029	2.57529	0.00019	-2.3411	0.6568	0.002216	0.4138
MGF	Lavg_0_1_2_3_4	LAG2	18	11.9923	2.79438	0.000494	-2.3336	0.71892	0.004753	0.3826
MGF	Lavg_0_1_2_3_4	LAG3	25	12.0604	2.04917	4.52E-06	-2.3496	0.52621	0.000162	0.4538
MGF	Lavg_0_1_2_3_4	LAG4	27	11.1272	1.9918	7.20E-06	-2.1117	0.51293	0.000344	0.3946
MGF	Lavg_0_1_2_3_4	LAG5	27	10.654	2.02687	1.71E-05	-2.0082	0.52578	0.000747	0.3594
MGF	Lavg_0_1_2_3_4	LAG6	34	8.4865	2.04499	0.000219	-1.3764	0.52889	0.013757	0.1703
MGF	Lavg_0_1_2_3_4_5	LAG0	13	12.1478	2.59718	0.000535	-2.3174	0.66818	0.004646	0.5006
MGF	Lavg_0_1_2_3_4_5	LAG1	18	12.0268	2.78861	0.000472	-2.3404	0.71677	0.004561	0.3854
MGF	Lavg_0_1_2_3_4_5	LAG2	18	12.1386	2.8296	0.000496	-2.377	0.72979	0.00464	0.3843
MGF	Lavg_0_1_2_3_4_5	LAG3	24	11.8811	2.22136	1.97E-05	-2.3063	0.57474	0.000545	0.4118
MGF	Lavg_0_1_2_3_4_5	LAG4	23	10.2169	2.29211	0.000197	-1.9024	0.59384	0.004098	0.3181
MGF	Lavg_0_1_2_3_4_5	LAG5	27	10.8634	2.0462	1.49E-05	-2.0642	0.53124	0.000629	0.3674
MGF	Lavg_0_1_2_3_4_5	LAG6	30	9.03943	2.31755	0.000524	-1.5294	0.60267	0.016789	0.1817
MGF	Lavg_0_1_2_3_4_5_6	LAG0	13	12.1836	2.62486	0.000569	-2.3306	0.6765	0.004849	0.4972
MGF	Lavg_0_1_2_3_4_5_6	LAG1	18	12.1659	2.8205	0.000471	-2.3813	0.72659	0.004441	0.3872
MGF	Lavg_0_1_2_3_4_5_6	LAG2	18	12.1236	2.85728	0.000548	-2.3804	0.7392	0.005024	0.3789
MGF	Lavg_0_1_2_3_4_5_6	LAG3	21	10.5673	2.45087	0.00034	-1.9893	0.63513	0.005247	0.3291
MGF	Lavg_0_1_2_3_4_5_6	LAG4	23	10.4343	2.31473	0.000175	-1.9611	0.60044	0.003535	0.3265
MGF	Lavg_0_1_2_3_4_5_6	LAG5	24	10.7624	2.34901	0.000132	-2.0434	0.61127	0.002823	0.327
MGF	Lavg_0_1_2_3_4_5_6	LAG6	25	8.45286	2.7522	0.005235	-1.3685	0.71628	0.06808	0.132
NH3F	Lavg_0_1	LAG0	16	3.13979	0.31125	4.45E-08	-0.0112	0.21016	0.958029	0.0002
NH3F	Lavg_0_1	LAG1	27	3.28274	0.31394	8.30E-11	-0.0059	0.19278	0.975817	0
NH3F	Lavg_0_1	LAG2	20	3.17694	0.3049	2.70E-09	0.25054	0.2275	0.284529	0.06
NH3F	Lavg_0_1	LAG3	30	2.93175	0.25255	2.02E-12	0.12871	0.15648	0.417485	0.0228
NH3F	Lavg_0_1	LAG4	27	2.886	0.23743	3.15E-12	-0.0019	0.16082	0.990706	0
NH3F	Lavg_0_1	LAG5	33	3.01593	0.20485	8.40E-16	-0.0465	0.14577	0.752039	0.0032
NH3F	Lavg_0_1	LAG6	38	3.2016	0.18991	5.98E-19	-0.0114	0.14296	0.937025	0.0002
NH3F	Lavg_0_1_2	LAG0	13	3.05931	0.3826	3.78E-06	-0.0874	0.31658	0.787304	0.0063
NH3F	Lavg_0_1_2	LAG1	18	3.09398	0.33881	5.76E-08	0.20594	0.26421	0.446439	0.0345
NH3F	Lavg_0_1_2	LAG2	16	2.99379	0.36091	5.50E-07	0.2923	0.29028	0.32992	0.0633
NH3F	Lavg_0_1_2	LAG3	21	2.93928	0.28356	1.72E-09	-0.0396	0.21423	0.855327	0.0017

NH3F	Lavg_0_1_2	LAG4	26	2.93913	0.23383	2.64E-12	-0.0054	0.17659	0.97579	0
NH3F	Lavg_0_1_2	LAG5	28	3.01246	0.22053	1.21E-13	-0.0035	0.18505	0.985018	0
NH3F	Lavg_0_1_2	LAG6	35	3.21794	0.19863	1.48E-17	-0.0374	0.16817	0.825519	0.0014
NH3F	Lavg_0_1_2_3	LAG0	11	3.21949	0.39333	9.63E-06	-0.093	0.31845	0.776251	0.0085
NH3F	Lavg_0_1_2_3	LAG1	14	2.85731	0.40698	9.06E-06	0.20723	0.31675	0.524359	0.0319
NH3F	Lavg_0_1_2_3	LAG2	13	2.99809	0.3997	7.22E-06	0.09971	0.29852	0.744142	0.0092
NH3F	Lavg_0_1_2_3	LAG3	21	2.93098	0.27766	1.26E-09	-0.0665	0.21763	0.762962	0.0047
NH3F	Lavg_0_1_2_3	LAG4	22	2.89768	0.25305	1.72E-10	0.00524	0.19825	0.979173	0
NH3F	Lavg_0_1_2_3	LAG5	26	3.02825	0.23224	1.19E-12	-0.0337	0.19508	0.864203	0.0012
NH3F	Lavg_0_1_2_3	LAG6	30	3.09696	0.20684	3.52E-15	-0.0515	0.18282	0.780312	0.0027
NH3F	Lavg_0_1_2_3_4	LAG0	7	2.86992	0.56756	0.002318	-0.1534	0.41657	0.725275	0.0221
NH3F	Lavg_0_1_2_3_4	LAG1	11	2.81883	0.45534	0.000103	0.00061	0.32752	0.998541	0
NH3F	Lavg_0_1_2_3_4	LAG2	13	2.97164	0.39569	7.14E-06	0.04746	0.29388	0.874397	0.0022
NH3F	Lavg_0_1_2_3_4	LAG3	17	2.88823	0.31306	8.33E-08	-0.0491	0.24654	0.84469	0.0025
NH3F	Lavg_0_1_2_3_4	LAG4	20	2.90712	0.2711	1.69E-09	-0.0194	0.21155	0.927738	0.0004
NH3F	Lavg_0_1_2_3_4	LAG5	21	2.81313	0.23471	1.39E-10	-0.0579	0.20206	0.777453	0.0041
NH3F	Lavg_0_1_2_3_4	LAG6	26	2.95438	0.21806	5.10E-13	-0.0732	0.19831	0.71513	0.0054
NH3F	Lavg_0_1_2_3_4_5	LAG0	7	2.85488	0.56107	0.002247	-0.1736	0.39116	0.672744	0.0318
NH3F	Lavg_0_1_2_3_4_5	LAG1	11	2.79779	0.44936	9.8E-05	-0.0407	0.31867	0.900814	0.0016
NH3F	Lavg_0_1_2_3_4_5	LAG2	13	2.97048	0.38548	5.51E-06	0.06703	0.30656	0.830597	0.004
NH3F	Lavg_0_1_2_3_4_5	LAG3	17	2.88271	0.31093	7.79E-08	-0.072	0.24351	0.771331	0.0054
NH3F	Lavg_0_1_2_3_4_5	LAG4	17	2.79663	0.27255	1.92E-08	-0.0058	0.22565	0.979897	0
NH3F	Lavg_0_1_2_3_4_5	LAG5	21	2.82235	0.23012	9.24E-11	-0.0468	0.21182	0.827211	0.0024
NH3F	Lavg_0_1_2_3_4_5	LAG6	23	2.93458	0.23508	1.86E-11	-0.1646	0.21848	0.459239	0.0251
NH3F	Lavg_0_1_2_3_4_5_6	LAG0	7	2.82317	0.54101	0.001979	-0.2474	0.38169	0.540835	0.0654
NH3F	Lavg_0_1_2_3_4_5_6	LAG1	11	2.81085	0.43705	7.52E-05	-0.0205	0.32946	0.951584	0.0004
NH3F	Lavg_0_1_2_3_4_5_6	LAG2	13	2.96305	0.38345	5.35E-06	0.04708	0.3093	0.881547	0.0019
NH3F	Lavg_0_1_2_3_4_5_6	LAG3	14	2.74234	0.31957	1.03E-06	-0.0695	0.2693	0.800399	0.0051
NH3F	Lavg_0_1_2_3_4_5_6	LAG4	17	2.80159	0.26598	1.33E-08	0.01535	0.2377	0.949301	0.0003
NH3F	Lavg_0_1_2_3_4_5_6	LAG5	18	2.77928	0.25143	3.50E-09	-0.1522	0.24676	0.545568	0.0219
NH3F	Lavg_0_1_2_3_4_5_6	LAG6	18	2.91664	0.28261	9.73E-09	-0.1632	0.27177	0.556009	0.0208
PH	Lavg_0_1	LAG0	20	10.5974	54.222	0.84712	-3.8873	28.1036	0.891443	0.001
PH	Lavg_0_1	LAG1	30	2.49499	43.9049	0.955073	0.40198	22.6993	0.985992	0
PH	Lavg_0_1	LAG2	25	25.2322	58.6056	0.670643	-11.497	30.3654	0.708292	0.0059
PH	Lavg_0_1	LAG3	36	47.7522	29.0855	0.109591	-23.201	15.067	0.132589	0.0634
PH	Lavg_0_1	LAG4	31	-40.099	32.5709	0.227836	22.2748	16.8798	0.196948	0.0549
PH	Lavg_0_1	LAG5	36	-9.6303	32.5583	0.769142	6.54801	16.874	0.700327	0.0043
PH	Lavg_0_1	LAG6	43	0.56543	25.6021	0.982484	1.37994	13.2782	0.917723	0.0003
PH	Lavg_0_1_2	LAG0	17	-29.724	60.4261	0.629463	17.0317	31.2962	0.593801	0.0182
PH	Lavg_0_1_2	LAG1	25	147.551	54.0846	0.011724	-74.815	28.0005	0.013337	0.2293
PH	Lavg_0_1_2	LAG2	22	-12.773	67.7214	0.852207	8.21798	35.1211	0.817259	0.0026
PH	Lavg_0_1_2	LAG3	28	37.2381	48.1006	0.445556	-17.787	24.9226	0.481539	0.0185
PH	Lavg_0_1_2	LAG4	30	-26.269	38.4637	0.500061	15.1343	19.9409	0.454002	0.0195
PH	Lavg_0_1_2	LAG5	34	-0.1869	45.0158	0.996713	1.65077	23.3455	0.944055	0.0002
PH	Lavg_0_1_2	LAG6	42	-25.426	30.6799	0.41204	14.8706	15.9016	0.355179	0.0209
PH	Lavg_0_1_2_3	LAG0	17	13.4985	66.8889	0.842613	-5.3573	34.6607	0.879097	0.0015
PH	Lavg_0_1_2_3	LAG1	22	100.839	67.5036	0.150095	-50.667	34.9831	0.162295	0.0908
PH	Lavg_0_1_2_3	LAG2	19	-39.297	83.5106	0.643604	21.8707	43.3001	0.61962	0.014
PH	Lavg_0_1_2_3	LAG3	27	30.8967	56.5784	0.589662	-14.488	29.3396	0.625579	0.0093
PH	Lavg_0_1_2_3	LAG4	28	-9.6548	52.9029	0.856553	6.51638	27.4396	0.814076	0.0021
PH	Lavg_0_1_2_3	LAG5	33	-44.299	45.9371	0.34211	24.544	23.8184	0.310517	0.0321
PH	Lavg_0_1_2_3	LAG6	36	-64.428	42.6863	0.140189	35.0889	22.1395	0.121984	0.067

PH	Lavg_0_1_2_3_4	LAG0	14	-22.003	76.793	0.778996	13.0853	39.8241	0.747708	0.0082
PH	Lavg_0_1_2_3_4	LAG1	19	60.0433	83.7868	0.482804	-29.612	43.4066	0.503792	0.0252
PH	Lavg_0_1_2_3_4	LAG2	18	-61.789	86.6532	0.485479	33.5934	44.962	0.465182	0.0318
PH	Lavg_0_1_2_3_4	LAG3	25	64.7479	70.2364	0.365778	-32.057	36.4308	0.387611	0.0313
PH	Lavg_0_1_2_3_4	LAG4	27	-64.824	56.5272	0.26192	35.1486	29.3133	0.241316	0.0524
PH	Lavg_0_1_2_3_4	LAG5	27	-65.359	65.0233	0.324081	35.436	33.7374	0.303224	0.0407
PH	Lavg_0_1_2_3_4	LAG6	34	-49.497	47.8254	0.308216	27.3259	24.8078	0.278647	0.0355
PH	Lavg_0_1_2_3_4_5	LAG0	13	-31.51	93.9218	0.743043	17.9825	48.6996	0.718372	0.0112
PH	Lavg_0_1_2_3_4_5	LAG1	18	13.5805	95.7975	0.888934	-5.5106	49.6736	0.912967	0.0007
PH	Lavg_0_1_2_3_4_5	LAG2	18	-63.187	123.27	0.614833	34.3255	63.9745	0.598531	0.0167
PH	Lavg_0_1_2_3_4_5	LAG3	24	-34.632	82.5536	0.678737	19.5159	42.8148	0.652793	0.009
PH	Lavg_0_1_2_3_4_5	LAG4	23	-71.507	77.8577	0.368355	38.6065	40.3985	0.349637	0.0399
PH	Lavg_0_1_2_3_4_5	LAG5	27	-40.164	74.331	0.593563	22.3651	38.5699	0.567001	0.0128
PH	Lavg_0_1_2_3_4_5	LAG6	30	-90.27	69.7512	0.205818	48.4926	36.1964	0.190745	0.0583
PH	Lavg_0_1_2_3_4_5_6	LAG0	13	-142.98	101.244	0.183276	75.8287	52.5281	0.174451	0.148
PH	Lavg_0_1_2_3_4_5_6	LAG1	18	45.309	113.222	0.694009	-21.969	58.7245	0.712957	0.0082
PH	Lavg_0_1_2_3_4_5_6	LAG2	18	-203.27	119.796	0.107969	106.977	62.1439	0.103316	0.1484
PH	Lavg_0_1_2_3_4_5_6	LAG3	21	-21.468	99.6146	0.831551	12.6504	51.6813	0.809122	0.003
PH	Lavg_0_1_2_3_4_5_6	LAG4	23	-41.52	81.7417	0.616548	23.0468	42.4132	0.592327	0.0132
PH	Lavg_0_1_2_3_4_5_6	LAG5	24	-99.796	101.125	0.333398	53.3146	52.4819	0.320261	0.0429
PH	Lavg_0_1_2_3_4_5_6	LAG6	25	-95.834	83.7148	0.263595	51.4068	43.4505	0.248353	0.0551
PO4F	Lavg_0_1	LAG0	13	1.44284	0.91274	0.139914	-0.4609	0.23338	0.071719	0.2453
PO4F	Lavg_0_1	LAG1	21	1.72255	0.75578	0.033772	-0.4066	0.19794	0.053244	0.1742
PO4F	Lavg_0_1	LAG2	16	1.19487	0.857	0.183552	-0.5162	0.23728	0.046	0.2398
PO4F	Lavg_0_1	LAG3	22	0.94525	0.62093	0.142848	-0.4692	0.15915	0.007681	0.2927
PO4F	Lavg_0_1	LAG4	21	0.83929	0.33246	0.020149	-0.6041	0.09143	1.96E-06	0.6858
PO4F	Lavg_0_1	LAG5	23	1.07306	0.3426	0.004847	-0.5258	0.08941	6.44E-06	0.6112
PO4F	Lavg_0_1	LAG6	30	1.36981	0.35876	0.000654	-0.5064	0.09364	8.16E-06	0.5021
PO4F	Lavg_0_1_2	LAG0	8	1.44935	1.0833	0.222756	-0.5263	0.30885	0.132145	0.2932
PO4F	Lavg_0_1_2	LAG1	12	1.39503	1.06855	0.218356	-0.3975	0.3027	0.215842	0.1355
PO4F	Lavg_0_1_2	LAG2	10	0.67935	0.96973	0.501289	-0.6469	0.28461	0.049141	0.3646
PO4F	Lavg_0_1_2	LAG3	11	0.98242	0.47957	0.06767	-0.5422	0.13842	0.002881	0.6054
PO4F	Lavg_0_1_2	LAG4	18	1.0256	0.33566	0.007155	-0.564	0.09244	1.17E-05	0.6865
PO4F	Lavg_0_1_2	LAG5	17	0.96751	0.33641	0.010974	-0.5612	0.09413	1.99E-05	0.6896
PO4F	Lavg_0_1_2	LAG6	24	1.46749	0.40122	0.001311	-0.5147	0.10786	8.22E-05	0.4975
PO4F	Lavg_0_1_2_3	LAG0	5	1.92951	1.33272	0.221236	-0.417	0.40895	0.365485	0.2063
PO4F	Lavg_0_1_2_3	LAG1	6	1.15481	1.39856	0.44656	-0.361	0.46959	0.476709	0.1057
PO4F	Lavg_0_1_2_3	LAG2	4	0.75123	0.60746	0.304199	-0.7405	0.23692	0.052238	0.7651
PO4F	Lavg_0_1_2_3	LAG3	9	1.26408	0.37118	0.009284	-0.4594	0.11194	0.00342	0.6779
PO4F	Lavg_0_1_2_3	LAG4	13	0.93677	0.32851	0.01458	-0.5998	0.09949	5.95E-05	0.7518
PO4F	Lavg_0_1_2_3	LAG5	12	1.05111	0.35769	0.013481	-0.5805	0.10594	0.000192	0.7319
PO4F	Lavg_0_1_2_3	LAG6	17	1.66153	0.43385	0.001477	-0.4575	0.12517	0.002134	0.4551
PO4F	Lavg_0_1_2_3_4	LAG0	1	-0.9512			-2.0165			1
PO4F	Lavg_0_1_2_3_4	LAG1	2	1.87165	0.46014	0.153468	0.10439	0.25907	0.756136	0.1397
PO4F	Lavg_0_1_2_3_4	LAG2	2	0.31768	0.31913	0.50145	-1.3315	0.25832	0.121994	0.9637
PO4F	Lavg_0_1_2_3_4	LAG3	6	1.34534	0.31303	0.007731	-0.3714	0.11245	0.02142	0.6856
PO4F	Lavg_0_1_2_3_4	LAG4	8	0.96223	0.3323	0.023128	-0.6857	0.11539	0.000574	0.8346
PO4F	Lavg_0_1_2_3_4	LAG5	7	1.4092	0.26308	0.001734	-0.3681	0.09148	0.006932	0.7296
PO4F	Lavg_0_1_2_3_4	LAG6	12	1.63176	0.47558	0.005612	-0.4446	0.16073	0.018348	0.4103
PO4F	Lavg_0_1_2_3_4_5	LAG0	0	1.60141			0			
PO4F	Lavg_0_1_2_3_4_5	LAG1	1	0.2649			-1.2587			1
PO4F	Lavg_0_1_2_3_4_5	LAG2	2	0.4674	0.35846	0.416501	-1.3309	0.31867	0.149615	0.9458

PO4F	Lavg_0_1_2_3_4_5	LAG3	4	1.52626	0.24308	0.008157	-0.3395	0.11177	0.055979	0.7546
PO4F	Lavg_0_1_2_3_4_5	LAG4	4	1.48508	0.35305	0.024533	-0.3404	0.16372	0.129063	0.5904
PO4F	Lavg_0_1_2_3_4_5	LAG5	6	1.53781	0.25939	0.001948	-0.3032	0.10714	0.036672	0.6157
PO4F	Lavg_0_1_2_3_4_5	LAG6	8	1.54139	0.59699	0.03637	-0.4577	0.22949	0.08634	0.3623
PO4F	Lavg_0_1_2_3_4_5_6	LAG0	0	1.60141			0			
PO4F	Lavg_0_1_2_3_4_5_6	LAG1	1	0.53439			-1.1398			1
PO4F	Lavg_0_1_2_3_4_5_6	LAG2	2	0.41781	0.52445	0.571741	-1.4526	0.49321	0.208378	0.8966
PO4F	Lavg_0_1_2_3_4_5_6	LAG3	3	1.69438	0.27575	0.025478	-0.2907	0.11594	0.128989	0.7587
PO4F	Lavg_0_1_2_3_4_5_6	LAG4	4	1.52165	0.33579	0.020109	-0.3367	0.16045	0.126753	0.5948
PO4F	Lavg_0_1_2_3_4_5_6	LAG5	5	1.47776	0.31528	0.009398	-0.3232	0.12219	0.057257	0.6363
PO4F	Lavg_0_1_2_3_4_5_6	LAG6	5	1.47059	0.94818	0.195855	-0.52	0.35943	0.221492	0.3435
SO4F	Lavg_0_1	LAG0	20	1.98596	0.7275	0.013303	0.39026	0.24317	0.12501	0.1194
SO4F	Lavg_0_1	LAG1	31	3.74975	0.84427	0.000112	-0.1514	0.27526	0.586431	0.01
SO4F	Lavg_0_1	LAG2	25	2.78598	1.09083	0.01742	0.10078	0.41701	0.811081	0.0024
SO4F	Lavg_0_1	LAG3	36	2.91329	0.68874	0.00016	0.01868	0.23599	0.937345	0.0002
SO4F	Lavg_0_1	LAG4	32	2.65903	0.68209	0.000484	0.06387	0.23531	0.787874	0.0024
SO4F	Lavg_0_1	LAG5	36	2.14877	0.76843	0.00834	0.33568	0.29327	0.260135	0.0361
SO4F	Lavg_0_1	LAG6	43	1.99896	0.5405	0.000624	0.47148	0.19854	0.022203	0.1184
SO4F	Lavg_0_1_2	LAG0	17	1.62976	0.90491	0.090575	0.52592	0.30035	0.099082	0.1608
SO4F	Lavg_0_1_2	LAG1	25	4.05091	0.92126	0.000192	-0.3646	0.32132	0.267769	0.0509
SO4F	Lavg_0_1_2	LAG2	22	2.80557	1.46743	0.069631	0.1039	0.56061	0.854745	0.0016
SO4F	Lavg_0_1_2	LAG3	28	2.25559	0.85224	0.013397	0.23982	0.3025	0.434803	0.0227
SO4F	Lavg_0_1_2	LAG4	30	2.55835	0.78033	0.002713	0.13337	0.27565	0.632122	0.008
SO4F	Lavg_0_1_2	LAG5	34	1.5432	0.93383	0.107909	0.56953	0.35877	0.12195	0.0709
SO4F	Lavg_0_1_2	LAG6	42	1.93591	0.58542	0.001969	0.51818	0.21992	0.023322	0.1193
SO4F	Lavg_0_1_2_3	LAG0	17	1.27999	0.95547	0.199082	0.6603	0.32583	0.059714	0.2043
SO4F	Lavg_0_1_2_3	LAG1	22	4.53206	1.10876	0.000527	-0.5303	0.39163	0.19006	0.0803
SO4F	Lavg_0_1_2_3	LAG2	19	2.51593	1.86996	0.195188	0.14102	0.70871	0.84451	0.0022
SO4F	Lavg_0_1_2_3	LAG3	27	2.0316	0.9326	0.038631	0.34349	0.33657	0.316863	0.0385
SO4F	Lavg_0_1_2_3	LAG4	28	2.36798	0.94186	0.018197	0.19865	0.33736	0.560875	0.0127
SO4F	Lavg_0_1_2_3	LAG5	33	1.22733	0.94915	0.20524	0.72135	0.37116	0.060794	0.1056
SO4F	Lavg_0_1_2_3	LAG6	36	1.83993	0.73084	0.016547	0.5316	0.27291	0.059487	0.0978
SO4F	Lavg_0_1_2_3_4	LAG0	14	0.91429	1.10636	0.423492	0.81494	0.3798	0.051354	0.2615
SO4F	Lavg_0_1_2_3_4	LAG1	19	4.67784	1.30166	0.002076	-0.6484	0.45983	0.175535	0.0995
SO4F	Lavg_0_1_2_3_4	LAG2	18	1.67157	1.92966	0.398415	0.49553	0.73751	0.510672	0.0259
SO4F	Lavg_0_1_2_3_4	LAG3	25	1.83881	1.06822	0.09805	0.41303	0.39004	0.30017	0.0446
SO4F	Lavg_0_1_2_3_4	LAG4	27	2.1596	0.95057	0.031601	0.29878	0.34787	0.398254	0.0276
SO4F	Lavg_0_1_2_3_4	LAG5	27	0.81155	1.20278	0.505803	0.83506	0.46638	0.085026	0.1098
SO4F	Lavg_0_1_2_3_4	LAG6	34	1.26022	0.76273	0.107966	0.74374	0.28789	0.014403	0.1682
SO4F	Lavg_0_1_2_3_4_5	LAG0	13	0.6993	1.27587	0.593676	0.89522	0.45256	0.071338	0.2459
SO4F	Lavg_0_1_2_3_4_5	LAG1	18	4.00045	1.47355	0.014712	-0.3876	0.53464	0.478299	0.03
SO4F	Lavg_0_1_2_3_4_5	LAG2	18	1.49962	1.95596	0.453779	0.57123	0.76011	0.462623	0.0322
SO4F	Lavg_0_1_2_3_4_5	LAG3	24	1.21198	1.07087	0.269391	0.68826	0.40358	0.101594	0.1123
SO4F	Lavg_0_1_2_3_4_5	LAG4	23	1.64135	1.14678	0.166407	0.46901	0.42079	0.277054	0.0535
SO4F	Lavg_0_1_2_3_4_5	LAG5	27	0.58313	1.16538	0.621017	0.93734	0.45783	0.050854	0.1388
SO4F	Lavg_0_1_2_3_4_5	LAG6	30	1.04476	0.93293	0.271957	0.83027	0.35642	0.027004	0.1576
SO4F	Lavg_0_1_2_3_4_5_6	LAG0	13	0.55297	1.27755	0.672812	0.95994	0.45905	0.058458	0.2671
SO4F	Lavg_0_1_2_3_4_5_6	LAG1	18	3.7637	1.48351	0.02127	-0.3059	0.54882	0.584562	0.0179
SO4F	Lavg_0_1_2_3_4_5_6	LAG2	18	1.50324	1.87021	0.43262	0.57846	0.73706	0.443358	0.035
SO4F	Lavg_0_1_2_3_4_5_6	LAG3	21	1.01989	1.21601	0.411541	0.71958	0.45362	0.128355	0.1118
SO4F	Lavg_0_1_2_3_4_5_6	LAG4	23	1.54181	1.12828	0.185582	0.51629	0.4221	0.234214	0.0637
SO4F	Lavg_0_1_2_3_4_5_6	LAG5	24	0.19892	1.48213	0.8944	1.08567	0.58293	0.075364	0.131

SO4F	Lavg_0_1_2_3_4_5_6	LAG6	25	0.86191	1.16788	0.467663	0.90166	0.44139	0.052205	0.1481
SULF	Lavg_0_1	LAG0	20	3.39669	0.73175	0.000178	-0.1717	0.39733	0.670546	0.0097
SULF	Lavg_0_1	LAG1	28	1.90108	0.81087	0.02666	0.70062	0.43611	0.119794	0.0872
SULF	Lavg_0_1	LAG2	25	2.18076	1.50592	0.16052	0.45563	0.78526	0.567169	0.0138
SULF	Lavg_0_1	LAG3	33	2.92748	0.77969	0.000694	0.02113	0.39927	0.958129	0.0001
SULF	Lavg_0_1	LAG4	32	2.68386	0.71922	0.000766	0.08097	0.36751	0.827068	0.0016
SULF	Lavg_0_1	LAG5	36	3.61796	1.03281	0.001278	-0.3189	0.52799	0.549701	0.0103
SULF	Lavg_0_1	LAG6	43	3.60641	0.66411	2.61E-06	-0.1994	0.33688	0.557042	0.0083
SULF	Lavg_0_1_2	LAG0	17	3.44724	1.75015	0.066439	-0.1541	0.92837	0.870253	0.0017
SULF	Lavg_0_1_2	LAG1	25	1.35096	1.76558	0.451634	0.89947	0.9297	0.342955	0.0375
SULF	Lavg_0_1_2	LAG2	22	0.82721	2.28283	0.720703	1.13686	1.14782	0.333228	0.0446
SULF	Lavg_0_1_2	LAG3	28	2.67163	1.52037	0.090216	0.11991	0.75951	0.875727	0.0009
SULF	Lavg_0_1_2	LAG4	30	2.28954	1.27017	0.081862	0.32573	0.64465	0.61718	0.0087
SULF	Lavg_0_1_2	LAG5	34	2.66027	1.43402	0.072531	0.16625	0.70331	0.814594	0.0017
SULF	Lavg_0_1_2	LAG6	41	3.68264	1.06016	0.001248	-0.2274	0.5204	0.66445	0.0048
SULF	Lavg_0_1_2_3	LAG0	17	4.27453	2.46118	0.101636	-0.5841	1.28283	0.654983	0.0128
SULF	Lavg_0_1_2_3	LAG1	22	-0.0685	2.54051	0.978754	1.60934	1.29457	0.227513	0.0685
SULF	Lavg_0_1_2_3	LAG2	19	-0.5947	3.40834	0.863438	1.71265	1.67253	0.319405	0.055
SULF	Lavg_0_1_2_3	LAG3	27	2.79579	1.84271	0.141277	0.08085	0.91549	0.930305	0.0003
SULF	Lavg_0_1_2_3	LAG4	28	1.10392	1.64298	0.507357	0.89541	0.8087	0.277965	0.0434
SULF	Lavg_0_1_2_3	LAG5	32	2.81782	1.57511	0.083396	0.07897	0.75641	0.917522	0.0004
SULF	Lavg_0_1_2_3	LAG6	36	4.15998	1.31305	0.003178	-0.4623	0.64342	0.477248	0.0145
SULF	Lavg_0_1_2_3_4	LAG0	14	3.61196	3.61921	0.336496	-0.1921	1.81239	0.917218	0.0009
SULF	Lavg_0_1_2_3_4	LAG1	19	-1.3102	3.39612	0.70418	2.0901	1.68693	0.23126	0.0786
SULF	Lavg_0_1_2_3_4	LAG2	18	1.91454	3.27726	0.566765	0.50847	1.59787	0.754196	0.0059
SULF	Lavg_0_1_2_3_4	LAG3	25	1.61103	2.20411	0.471904	0.64982	1.0689	0.548939	0.0152
SULF	Lavg_0_1_2_3_4	LAG4	26	1.44163	1.72012	0.409915	0.69801	0.8267	0.406494	0.0277
SULF	Lavg_0_1_2_3_4	LAG5	27	3.49692	1.76162	0.057782	-0.2694	0.84273	0.751755	0.0039
SULF	Lavg_0_1_2_3_4	LAG6	33	3.67776	1.54544	0.023454	-0.2543	0.74314	0.734487	0.0036
SULF	Lavg_0_1_2_3_4_5	LAG0	13	2.26711	3.21981	0.4948	0.44897	1.59377	0.782971	0.0066
SULF	Lavg_0_1_2_3_4_5	LAG1	18	0.80758	3.28125	0.808536	1.06257	1.61852	0.520286	0.0247
SULF	Lavg_0_1_2_3_4_5	LAG2	18	0.84534	2.97794	0.779941	1.01857	1.4321	0.486582	0.0289
SULF	Lavg_0_1_2_3_4_5	LAG3	23	2.06995	2.02254	0.317222	0.4081	0.96654	0.676959	0.008
SULF	Lavg_0_1_2_3_4_5	LAG4	23	2.67675	1.87324	0.167065	0.10641	0.89834	0.906783	0.0006
SULF	Lavg_0_1_2_3_4_5	LAG5	26	3.10618	1.76699	0.091005	-0.1026	0.83772	0.903515	0.0006
SULF	Lavg_0_1_2_3_4_5	LAG6	28	3.32404	1.69107	0.059703	-0.0963	0.80355	0.905451	0.0005
SULF	Lavg_0_1_2_3_4_5_6	LAG0	13	3.26575	3.35014	0.348896	-0.0471	1.64552	0.977635	0.0001
SULF	Lavg_0_1_2_3_4_5_6	LAG1	18	-0.1163	3.0917	0.970421	1.49909	1.50337	0.332674	0.0553
SULF	Lavg_0_1_2_3_4_5_6	LAG2	17	-0.101	2.82126	0.971892	1.39673	1.33102	0.309602	0.0644
SULF	Lavg_0_1_2_3_4_5_6	LAG3	21	3.10286	2.14777	0.164031	-0.0901	1.02533	0.930858	0.0004
SULF	Lavg_0_1_2_3_4_5_6	LAG4	22	1.9972	1.96139	0.320144	0.40148	0.9272	0.669426	0.0088
SULF	Lavg_0_1_2_3_4_5_6	LAG5	22	2.13272	2.02276	0.3037	0.33444	0.94383	0.726617	0.0059
SULF	Lavg_0_1_2_3_4_5_6	LAG6	24	4.00632	2.0085	0.05806	-0.3818	0.94951	0.691334	0.007
TKNF	Lavg_0_1	LAG0	20	4.67404	0.91036	5.9E-05	-1.022	0.57267	0.090307	0.1436
TKNF	Lavg_0_1	LAG1	31	4.98662	0.81065	9.14E-07	-1.1246	0.52245	0.039523	0.1338
TKNF	Lavg_0_1	LAG2	25	4.87209	1.03137	8.38E-05	-1.1689	0.64183	0.081076	0.1214
TKNF	Lavg_0_1	LAG3	36	4.3482	0.69605	3.66E-07	-0.9138	0.44419	0.047171	0.1079
TKNF	Lavg_0_1	LAG4	32	5.16571	0.68014	1.46E-08	-1.4822	0.41954	0.001311	0.2871
TKNF	Lavg_0_1	LAG5	36	4.95562	0.60603	1.24E-09	-1.2808	0.38368	0.002009	0.2415
TKNF	Lavg_0_1	LAG6	43	4.81147	0.60126	5.56E-10	-1.0142	0.37154	0.009221	0.1507
TKNF	Lavg_0_1_2	LAG0	17	4.7806	1.04014	0.000298	-1.0531	0.65786	0.12899	0.138
TKNF	Lavg_0_1_2	LAG1	25	4.87735	1.00412	5.97E-05	-1.1826	0.62959	0.072539	0.1282

TKNF	Lavg_0_1_2	LAG2	22	4.99341	1.13435	0.000248	-1.2196	0.70196	0.096949	0.1257
TKNF	Lavg_0_1_2	LAG3	28	5.11496	0.79384	6.64E-07	-1.4179	0.49524	0.008014	0.2329
TKNF	Lavg_0_1_2	LAG4	30	4.95601	0.70844	1.08E-07	-1.3158	0.44429	0.006051	0.2322
TKNF	Lavg_0_1_2	LAG5	34	5.1286	0.66215	6.37E-09	-1.3616	0.40926	0.002165	0.2512
TKNF	Lavg_0_1_2	LAG6	42	4.83826	0.59905	5.21E-10	-1.0128	0.37231	0.009527	0.1529
TKNF	Lavg_0_1_2_3	LAG0	17	4.98045	1.03175	0.000186	-1.1729	0.64739	0.088851	0.1702
TKNF	Lavg_0_1_2_3	LAG1	22	4.99821	1.11004	0.000195	-1.2289	0.68973	0.08926	0.1313
TKNF	Lavg_0_1_2_3	LAG2	19	5.13066	1.13144	0.000257	-1.4311	0.70118	0.056198	0.1879
TKNF	Lavg_0_1_2_3	LAG3	27	5.00772	0.78928	1.02E-06	-1.3246	0.49402	0.012566	0.2166
TKNF	Lavg_0_1_2_3	LAG4	28	5.0888	0.75622	3.17E-07	-1.3808	0.46458	0.00615	0.2465
TKNF	Lavg_0_1_2_3	LAG5	33	5.10364	0.64824	5.54E-09	-1.3292	0.40301	0.002391	0.2537
TKNF	Lavg_0_1_2_3	LAG6	36	4.53545	0.67121	7.88E-08	-0.8493	0.42122	0.051495	0.1041
TKNF	Lavg_0_1_2_3_4	LAG0	14	5.16251	1.15972	0.000653	-1.227	0.71786	0.111157	0.1835
TKNF	Lavg_0_1_2_3_4	LAG1	19	5.09262	1.13028	0.000274	-1.4091	0.70143	0.059788	0.1831
TKNF	Lavg_0_1_2_3_4	LAG2	18	4.94027	1.10958	0.00035	-1.2773	0.69179	0.082328	0.167
TKNF	Lavg_0_1_2_3_4	LAG3	25	5.19623	0.84315	2.29E-06	-1.4253	0.5174	0.011028	0.2402
TKNF	Lavg_0_1_2_3_4	LAG4	27	5.06061	0.73296	2.49E-07	-1.344	0.45286	0.006363	0.253
TKNF	Lavg_0_1_2_3_4	LAG5	27	4.78413	0.73057	6.07E-07	-1.1968	0.45868	0.014851	0.2075
TKNF	Lavg_0_1_2_3_4	LAG6	34	4.59012	0.71016	2.48E-07	-0.8947	0.43772	0.048997	0.1124
TKNF	Lavg_0_1_2_3_4_5	LAG0	13	5.49843	1.0874	0.000281	-1.5132	0.68743	0.04803	0.2876
TKNF	Lavg_0_1_2_3_4_5	LAG1	18	4.92654	1.12075	0.000395	-1.2708	0.70037	0.087287	0.1622
TKNF	Lavg_0_1_2_3_4_5	LAG2	18	4.88065	1.1058	0.00038	-1.2285	0.68327	0.089969	0.1598
TKNF	Lavg_0_1_2_3_4_5	LAG3	24	5.14826	0.82233	2.18E-06	-1.3762	0.50916	0.012696	0.2411
TKNF	Lavg_0_1_2_3_4_5	LAG4	23	4.65002	0.81398	9.56E-06	-1.1428	0.51462	0.036982	0.1831
TKNF	Lavg_0_1_2_3_4_5	LAG5	27	4.79001	0.7403	7.40E-07	-1.1877	0.46011	0.015836	0.204
TKNF	Lavg_0_1_2_3_4_5	LAG6	30	4.73313	0.78378	1.43E-06	-1.0046	0.49115	0.049978	0.1261
TKNF	Lavg_0_1_2_3_4_5_6	LAG0	13	5.59324	1.0379	0.000163	-1.5637	0.65073	0.033341	0.3249
TKNF	Lavg_0_1_2_3_4_5_6	LAG1	18	4.87345	1.11526	0.000417	-1.2273	0.69132	0.093751	0.1564
TKNF	Lavg_0_1_2_3_4_5_6	LAG2	18	4.95918	1.06541	0.000227	-1.2793	0.65768	0.068485	0.1821
TKNF	Lavg_0_1_2_3_4_5_6	LAG3	21	4.7099	0.90853	4.51E-05	-1.1591	0.56969	0.055354	0.1715
TKNF	Lavg_0_1_2_3_4_5_6	LAG4	23	4.64157	0.82201	1.12E-05	-1.1253	0.51444	0.039628	0.1786
TKNF	Lavg_0_1_2_3_4_5_6	LAG5	24	4.91057	0.83851	5.73E-06	-1.277	0.52655	0.023556	0.2036
TKNF	Lavg_0_1_2_3_4_5_6	LAG6	25	4.69489	0.94651	4.6E-05	-0.965	0.59925	0.120394	0.0975
TPF	Lavg_0_1	LAG0	20	1.58046	0.65217	0.02553	-0.4275	0.17431	0.02401	0.2405
TPF	Lavg_0_1	LAG1	30	1.61004	0.59172	0.01089	-0.4513	0.15582	0.007106	0.2244
TPF	Lavg_0_1	LAG2	25	0.95582	0.62628	0.140034	-0.588	0.16699	0.001749	0.3406
TPF	Lavg_0_1	LAG3	35	0.97754	0.5187	0.068059	-0.5411	0.13554	0.000331	0.3192
TPF	Lavg_0_1	LAG4	32	0.93773	0.4105	0.029355	-0.5525	0.11146	2.43E-05	0.4421
TPF	Lavg_0_1	LAG5	35	1.03307	0.47104	0.035233	-0.5398	0.1203	7.86E-05	0.3719
TPF	Lavg_0_1	LAG6	42	1.69221	0.42971	0.000312	-0.4357	0.11224	0.000369	0.2688
TPF	Lavg_0_1_2	LAG0	17	1.67029	0.69081	0.027908	-0.4278	0.18777	0.036781	0.2449
TPF	Lavg_0_1_2	LAG1	25	0.992	0.6452	0.137252	-0.5788	0.17261	0.002644	0.319
TPF	Lavg_0_1_2	LAG2	22	0.83592	0.66788	0.224477	-0.6448	0.18223	0.001946	0.3736
TPF	Lavg_0_1_2	LAG3	28	0.82046	0.5119	0.12062	-0.5909	0.13679	0.000189	0.4087
TPF	Lavg_0_1_2	LAG4	29	0.96718	0.50466	0.065562	-0.557	0.13342	0.000262	0.3837
TPF	Lavg_0_1_2	LAG5	33	1.04647	0.46243	0.030559	-0.5572	0.1224	7.26E-05	0.3931
TPF	Lavg_0_1_2	LAG6	40	1.77725	0.48096	0.000673	-0.4244	0.12454	0.001533	0.2295
TPF	Lavg_0_1_2_3	LAG0	17	1.59283	0.70349	0.037811	-0.4483	0.19103	0.032142	0.2561
TPF	Lavg_0_1_2_3	LAG1	22	0.91082	0.67623	0.192367	-0.6248	0.18488	0.00283	0.3523
TPF	Lavg_0_1_2_3	LAG2	19	0.74043	0.68091	0.291201	-0.6274	0.1879	0.003654	0.3825
TPF	Lavg_0_1_2_3	LAG3	26	0.82143	0.58942	0.175695	-0.5983	0.15395	0.000662	0.3767
TPF	Lavg_0_1_2_3	LAG4	27	0.98576	0.50475	0.061664	-0.5709	0.13815	0.000331	0.3964

TPF	Lavg_0_1_2_3	LAG5	31	0.97526	0.5159	0.068399	-0.5832	0.13408	0.000145	0.3867
TPF	Lavg_0_1_2_3	LAG6	32	1.91877	0.59454	0.002948	-0.3826	0.15329	0.018099	0.1673
TPF	Lavg_0_1_2_3_4	LAG0	14	1.65565	0.75889	0.048086	-0.459	0.20966	0.047409	0.2694
TPF	Lavg_0_1_2_3_4	LAG1	19	0.66765	0.68132	0.340111	-0.6468	0.18776	0.00289	0.3973
TPF	Lavg_0_1_2_3_4	LAG2	17	0.7821	0.85677	0.37487	-0.6172	0.22522	0.014516	0.3194
TPF	Lavg_0_1_2_3_4	LAG3	24	0.84834	0.5798	0.156953	-0.6094	0.15584	0.000703	0.3993
TPF	Lavg_0_1_2_3_4	LAG4	25	0.95533	0.58793	0.117247	-0.5825	0.15628	0.001047	0.3666
TPF	Lavg_0_1_2_3_4	LAG5	23	0.74637	0.66077	0.270838	-0.6117	0.16901	0.001519	0.3732
TPF	Lavg_0_1_2_3_4	LAG6	30	1.98588	0.58778	0.002094	-0.363	0.15469	0.025994	0.1596
TPF	Lavg_0_1_2_3_4_5	LAG0	13	1.17902	0.73453	0.134441	-0.5631	0.19718	0.014471	0.4046
TPF	Lavg_0_1_2_3_4_5	LAG1	17	0.72846	0.856	0.407327	-0.6318	0.22512	0.012667	0.3299
TPF	Lavg_0_1_2_3_4_5	LAG2	17	0.92422	0.81764	0.274988	-0.5885	0.2177	0.015663	0.3136
TPF	Lavg_0_1_2_3_4_5	LAG3	22	0.85783	0.68986	0.227393	-0.6095	0.17927	0.002699	0.355
TPF	Lavg_0_1_2_3_4_5	LAG4	19	0.69784	0.80497	0.3974	-0.618	0.20703	0.007934	0.3312
TPF	Lavg_0_1_2_3_4_5	LAG5	23	0.97841	0.64249	0.142045	-0.558	0.16595	0.002811	0.3395
TPF	Lavg_0_1_2_3_4_5	LAG6	24	2.16778	0.71363	0.005848	-0.3313	0.18241	0.082359	0.1255
TPF	Lavg_0_1_2_3_4_5_6	LAG0	12	1.2742	0.91399	0.190806	-0.5428	0.23718	0.042901	0.3225
TPF	Lavg_0_1_2_3_4_5_6	LAG1	17	0.86107	0.81985	0.309196	-0.6051	0.21812	0.01355	0.3247
TPF	Lavg_0_1_2_3_4_5_6	LAG2	16	0.76477	0.97395	0.444548	-0.6304	0.25383	0.025322	0.2914
TPF	Lavg_0_1_2_3_4_5_6	LAG3	17	0.69011	0.91309	0.460752	-0.6241	0.23287	0.016434	0.3098
TPF	Lavg_0_1_2_3_4_5_6	LAG4	19	0.96793	0.78761	0.234913	-0.556	0.2054	0.014439	0.2893
TPF	Lavg_0_1_2_3_4_5_6	LAG5	18	1.2055	0.84665	0.172585	-0.5168	0.21528	0.028103	0.2531
TPF	Lavg_0_1_2_3_4_5_6	LAG6	20	1.70909	0.74903	0.034207	-0.4238	0.19185	0.039658	0.2043

PORE WATER
SPEARMAN
CO-CORRELATION
BY STATION

station	var1	var2	corr	n	pvalue	fishersz	sigmaz	l95	u95
F1	CAF	CLF	0.80158	25	1.46E-06	1.103017	0.213201	0.594853	0.908853
F1	CAF	DOC	0.691498	24	0.000182	0.850821	0.218218	0.399551	0.856092
F1	CAF	FEF	-0.43035	20	0.05822	-0.46032	0.242536	-0.73324	0.015047
F1	CAF	KF	0.506008	21	0.019263	0.55735	0.235702	0.095085	0.769592
F1	CAF	MGF	0.843786	25	1.17E-07	1.234175	0.213201	0.673052	0.929138
F1	CAF	NH3F	0.644479	25	0.000506	0.765797	0.213201	0.334533	0.828605
F1	CAF	PH	-0.0455	21	0.844739	-0.04553	0.235702	-0.468	0.393932
F1	CAF	PO4F	0.575593	24	0.00325	0.655847	0.218218	0.224262	0.794513
F1	CAF	SO4F	-0.5816	25	0.002293	-0.66488	0.213201	-0.79422	-0.2421
F1	CAF	SULF	0.237875	25	0.252203	0.242521	0.213201	-0.17358	0.578626
F1	CAF	TKNF	0.712938	25	6.35E-05	0.893134	0.213201	0.44244	0.86453
F1	CAF	TPF	0.448023	22	0.036524	0.482224	0.229416	0.032557	0.731468
F1	CLF	DOC	0.612144	25	0.001145	0.712343	0.213201	0.286243	0.811093
F1	CLF	FEF	-0.41538	20	0.068557	-0.44209	0.242536	-0.7247	0.033263
F1	CLF	KF	0.368779	22	0.091241	0.387009	0.229416	-0.06256	0.684038
F1	CLF	MGF	0.817731	26	3.39E-07	1.149931	0.208514	0.629895	0.915196
F1	CLF	NH3F	0.412094	25	0.040662	0.43813	0.213201	0.020254	0.694193
F1	CLF	PH	-0.01612	22	0.943255	-0.01612	0.229416	-0.43478	0.408274
F1	CLF	PO4F	0.175621	25	0.401074	0.177461	0.213201	-0.23589	0.533721
F1	CLF	SO4F	-0.23078	26	0.256675	-0.23502	0.208514	-0.56742	0.171947
F1	CLF	SULF	0.378018	26	0.056902	0.397745	0.208514	-0.01094	0.667618
F1	CLF	TKNF	0.391163	26	0.048156	0.413172	0.208514	0.004484	0.676081
F1	CLF	TPF	0.142327	23	0.5171	0.1433	0.223607	-0.2867	0.523805
F1	DOC	FEF	-0.34656	19	0.146064	-0.36153	0.25	-0.69187	0.127766
F1	DOC	KF	0.375898	21	0.093086	0.395274	0.235702	-0.0666	0.694838
F1	DOC	MGF	0.599046	25	0.001555	0.691657	0.213201	0.267142	0.803896
F1	DOC	NH3F	0.645375	24	0.00066	0.767331	0.218218	0.327142	0.832135
F1	DOC	PH	-0.22296	21	0.331314	-0.22677	0.235702	-0.59718	0.230964
F1	DOC	PO4F	0.659825	24	0.000452	0.792504	0.218218	0.349433	0.839717
F1	DOC	SO4F	-0.50824	25	0.009486	-0.56036	0.213201	-0.7523	-0.14153
F1	DOC	SULF	0.570029	25	0.002931	0.647566	0.213201	0.225737	0.787737
F1	DOC	TKNF	0.651823	25	0.000415	0.778463	0.213201	0.345733	0.832534
F1	DOC	TPF	0.671994	22	0.000614	0.814371	0.229416	0.349361	0.85217
F1	FEF	KF	-0.42157	17	0.091913	-0.4496	0.267261	-0.75021	0.074098
F1	FEF	MGF	-0.3228	20	0.165093	-0.33477	0.242536	-0.66967	0.139682
F1	FEF	NH3F	-0.38074	20	0.097695	-0.40092	0.242536	-0.70456	0.074311
F1	FEF	PH	0.346098	16	0.189143	0.361003	0.27735	-0.1806	0.718535
F1	FEF	PO4F	-0.32748	19	0.171112	-0.34	0.25	-0.68048	0.148882
F1	FEF	SO4F	0.551374	20	0.011735	0.620353	0.242536	0.143976	0.798957
F1	FEF	SULF	0.082424	20	0.729745	0.082611	0.242536	-0.37374	0.506478
F1	FEF	TKNF	-0.35706	20	0.122232	-0.37351	0.242536	-0.69049	0.101504
F1	FEF	TPF	-0.21656	17	0.403785	-0.22005	0.267261	-0.63148	0.294771
F1	KF	MGF	0.297572	22	0.178635	0.306854	0.229416	-0.14184	0.639016
F1	KF	NH3F	0.855844	21	7.54E-07	1.2776	0.235702	0.672681	0.940177
F1	KF	PH	-0.11255	18	0.65659	-0.11302	0.258199	-0.5505	0.373983
F1	KF	PO4F	0.522897	21	0.015009	0.580319	0.235702	0.117793	0.778793

F1	KF	SO4F	-0.58757	22	0.004035	-0.67395	0.229416	-0.80882	-0.22061
F1	KF	SULF	0.157538	22	0.483816	0.158861	0.229416	-0.28287	0.543082
F1	KF	TKNF	0.606386	22	0.002774	0.703186	0.229416	0.248235	0.818693
F1	KF	TPF	0.518992	20	0.019035	0.574959	0.242536	0.099262	0.781934
F1	MGF	NH3F	0.377692	25	0.062687	0.397365	0.213201	-0.02051	0.67247
F1	MGF	PH	-0.17792	22	0.42828	-0.17983	0.229416	-0.5577	0.263462
F1	MGF	PO4F	0.234276	25	0.259665	0.238709	0.213201	-0.17727	0.576084
F1	MGF	SO4F	-0.20315	26	0.319575	-0.20601	0.208514	-0.54743	0.199946
F1	MGF	SULF	0.312928	26	0.11958	0.323787	0.208514	-0.0847	0.624578
F1	MGF	TKNF	0.450222	26	0.021002	0.484979	0.208514	0.076143	0.7132
F1	MGF	TPF	0.146775	23	0.503949	0.147843	0.223607	-0.28253	0.527094
F1	NH3F	PH	0.077947	21	0.736992	0.078106	0.235702	-0.36606	0.49305
F1	NH3F	PO4F	0.875408	24	2.15E-08	1.355767	0.218218	0.729688	0.945068
F1	NH3F	SO4F	-0.77838	25	4.62E-06	-1.04124	0.213201	-0.89748	-0.55347
F1	NH3F	SULF	0.43055	25	0.031676	0.460572	0.213201	0.042673	0.70564
F1	NH3F	TKNF	0.903387	25	6.30E-10	1.490341	0.213201	0.790389	0.956935
F1	NH3F	TPF	0.834228	22	1.40E-06	1.201882	0.229416	0.636476	0.929068
F1	PH	PO4F	-0.02273	21	0.922078	-0.02274	0.235702	-0.45001	0.413013
F1	PH	SO4F	-0.08023	22	0.722664	-0.0804	0.229416	-0.48542	0.353341
F1	PH	SULF	0.011303	22	0.960185	0.011303	0.229416	-0.41228	0.430865
F1	PH	TKNF	-0.07886	22	0.727216	-0.07902	0.229416	-0.48437	0.354545
F1	PH	TPF	-0.08902	21	0.701186	-0.08926	0.235702	-0.50144	0.35637
F1	PO4F	SO4F	-0.6727	25	0.000229	-0.81565	0.213201	-0.8436	-0.37805
F1	PO4F	SULF	0.362132	25	0.075256	0.379338	0.213201	-0.03852	0.662475
F1	PO4F	TKNF	0.798268	25	1.74E-06	1.093819	0.213201	0.588877	0.907239
F1	PO4F	TPF	0.986448	22	0	2.493797	0.229416	0.967017	0.994464
F1	SO4F	SULF	-0.30277	26	0.132722	-0.31257	0.208514	-0.61769	0.095826
F1	SO4F	TKNF	-0.7322	26	2.12E-05	-0.93346	0.208514	-0.87219	-0.48138
F1	SO4F	TPF	-0.57602	23	0.004021	-0.65649	0.223607	-0.79861	-0.21482
F1	SULF	TKNF	0.373546	26	0.060144	0.392537	0.208514	-0.01615	0.664721
F1	SULF	TPF	0.419674	23	0.046198	0.447296	0.223607	0.009026	0.709196
F1	TKNF	TPF	0.776459	23	1.33E-05	1.036391	0.223607	0.535712	0.900463
F2	CAF	CLF	0.673515	23	0.000427	0.817149	0.223607	0.361734	0.849796
F2	CAF	DOC	0.563495	22	0.006315	0.63794	0.229416	0.186091	0.795999
F2	CAF	FEF	-0.48927	17	0.046233	-0.5351	0.267261	-0.78526	-0.01127
F2	CAF	KF	-0.49583	19	0.030853	-0.54376	0.25	-0.77541	-0.05371
F2	CAF	MGF	0.905586	23	2.84E-09	1.502427	0.223607	0.78725	0.959589
F2	CAF	NH3F	-0.1829	23	0.403545	-0.18498	0.223607	-0.55338	0.24801
F2	CAF	PH	0.361637	19	0.128171	0.378768	0.25	-0.11078	0.700748
F2	CAF	PO4F	-0.1718	22	0.444577	-0.17352	0.229416	-0.55334	0.269323
F2	CAF	SO4F	0.098369	23	0.655209	0.098688	0.223607	-0.3271	0.490681
F2	CAF	SULF	-0.08412	23	0.702765	-0.08432	0.223607	-0.47969	0.339877
F2	CAF	TKNF	0.141409	23	0.519834	0.142363	0.223607	-0.28756	0.523125
F2	CAF	TPF	-0.35666	20	0.122684	-0.37305	0.242536	-0.69024	0.101961
F2	CLF	DOC	0.403227	23	0.056408	0.427496	0.223607	-0.01077	0.699216
F2	CLF	FEF	-0.39656	17	0.115037	-0.41956	0.267261	-0.73678	0.103892
F2	CLF	KF	-0.41974	20	0.065409	-0.44738	0.242536	-0.7272	0.02798
F2	CLF	MGF	0.785808	24	5.36E-06	1.060377	0.218218	0.559888	0.902972
F2	CLF	NH3F	-0.05877	24	0.785015	-0.05884	0.218218	-0.45147	0.353
F2	CLF	PH	0.342642	20	0.139175	0.357082	0.242536	-0.11774	0.681791
F2	CLF	PO4F	-0.33145	22	0.131848	-0.34445	0.229416	-0.66073	0.104814
F2	CLF	SO4F	-0.04703	24	0.827265	-0.04706	0.218218	-0.44205	0.363267

F2	CLF	SULF	0.179956	24	0.400101	0.181938	0.218218	-0.24094	0.543877
F2	CLF	TKNF	0.140867	24	0.511471	0.14181	0.218218	-0.27835	0.515004
F2	CLF	TPF	-0.47821	21	0.028326	-0.52065	0.235702	-0.7542	-0.05861
F2	DOC	FEF	-0.60491	16	0.013044	-0.70086	0.27735	-0.84672	-0.15597
F2	DOC	KF	-0.64315	19	0.002973	-0.76353	0.25	-0.84927	-0.26691
F2	DOC	MGF	0.616608	23	0.001727	0.719514	0.223607	0.274056	0.820316
F2	DOC	NH3F	-0.07881	23	0.720761	-0.07897	0.223607	-0.47557	0.344593
F2	DOC	PH	-0.08979	19	0.714701	-0.09003	0.25	-0.52269	0.379922
F2	DOC	PO4F	-0.19994	21	0.384879	-0.20267	0.235702	-0.58144	0.25365
F2	DOC	SO4F	0.349035	23	0.102601	0.364344	0.223607	-0.07379	0.665495
F2	DOC	SULF	0.17688	23	0.419451	0.17876	0.223607	-0.25384	0.549056
F2	DOC	TKNF	0.269213	23	0.214167	0.276015	0.223607	-0.16085	0.613356
F2	DOC	TPF	-0.30196	20	0.195699	-0.31167	0.242536	-0.65673	0.16225
F2	FEF	KF	0.617582	14	0.018605	0.721087	0.301511	0.129396	0.864793
F2	FEF	MGF	-0.60539	17	0.010018	-0.70162	0.267261	-0.84125	-0.17593
F2	FEF	NH3F	-0.11765	17	0.652933	-0.11819	0.267261	-0.56628	0.384762
F2	FEF	PH	0.198074	13	0.516543	0.200728	0.316228	-0.39615	0.67536
F2	FEF	PO4F	-0.09419	16	0.728622	-0.09447	0.27735	-0.56359	0.421191
F2	FEF	SO4F	-0.09314	17	0.722186	-0.09341	0.267261	-0.5492	0.405676
F2	FEF	SULF	-0.19865	17	0.444666	-0.20133	0.267261	-0.6201	0.311769
F2	FEF	TKNF	-0.34559	17	0.174252	-0.36042	0.267261	-0.70855	0.161968
F2	FEF	TPF	0.010989	14	0.970258	0.010989	0.301511	-0.52265	0.538437
F2	KF	MGF	-0.5218	20	0.018285	-0.57882	0.242536	-0.78343	-0.10308
F2	KF	NH3F	-0.41504	20	0.068808	-0.44168	0.242536	-0.7245	0.033675
F2	KF	PH	0.129507	16	0.63263	0.130238	0.27735	-0.39133	0.587503
F2	KF	PO4F	-0.15798	18	0.531269	-0.15931	0.258199	-0.58193	0.333498
F2	KF	SO4F	0.016541	20	0.944817	0.016543	0.242536	-0.42913	0.455733
F2	KF	SULF	-0.24765	20	0.292472	-0.25291	0.242536	-0.62201	0.218866
F2	KF	TKNF	-0.53328	20	0.015463	-0.59472	0.242536	-0.7895	-0.11879
F2	KF	TPF	-0.03199	18	0.899719	-0.032	0.258199	-0.49153	0.44148
F2	MGF	NH3F	-0.14261	24	0.506209	-0.14359	0.218218	-0.51631	0.276714
F2	MGF	PH	0.21017	20	0.373798	0.213349	0.242536	-0.25618	0.597158
F2	MGF	PO4F	-0.13273	22	0.55597	-0.13352	0.229416	-0.52497	0.306009
F2	MGF	SO4F	0.119156	24	0.579193	0.119725	0.218218	-0.2986	0.498593
F2	MGF	SULF	0.067015	24	0.755703	0.067115	0.218218	-0.34574	0.458036
F2	MGF	TKNF	0.14003	24	0.514006	0.140957	0.218218	-0.27914	0.514377
F2	MGF	TPF	-0.38442	21	0.085328	-0.40523	0.235702	-0.69995	0.056685
F2	NH3F	PH	-0.13183	20	0.579569	-0.1326	0.242536	-0.5427	0.329949
F2	NH3F	PO4F	0.675515	22	0.000561	0.820819	0.229416	0.35501	0.853926
F2	NH3F	SO4F	-0.51794	24	0.009529	-0.57352	0.218218	-0.76211	-0.14479
F2	NH3F	SULF	0.211923	24	0.320156	0.215184	0.218218	-0.20938	0.566865
F2	NH3F	TKNF	0.620135	24	0.001227	0.725224	0.218218	0.289039	0.818723
F2	NH3F	TPF	0.632468	21	0.002094	0.745518	0.235702	0.27618	0.835926
F2	PH	PO4F	-0.20963	18	0.403796	-0.21278	0.258199	-0.6162	0.285158
F2	PH	SO4F	0.09269	20	0.697519	0.092957	0.242536	-0.3648	0.51413
F2	PH	SULF	-0.1184	20	0.619071	-0.11896	0.242536	-0.533	0.342048
F2	PH	TKNF	-0.16579	20	0.484838	-0.16733	0.242536	-0.56674	0.298651
F2	PH	TPF	-0.10272	19	0.675606	-0.10309	0.25	-0.53211	0.368697
F2	PO4F	SO4F	-0.31629	22	0.151549	-0.32752	0.229416	-0.65108	0.121527
F2	PO4F	SULF	0.175523	22	0.434618	0.17736	0.229416	-0.26576	0.555993
F2	PO4F	TKNF	0.59887	22	0.003231	0.691384	0.229416	0.237128	0.814763
F2	PO4F	TPF	0.952172	19	3.52E-10	1.854544	0.25	0.877443	0.981777

F2	SO4F	SULF	-0.30054	24	0.15358	-0.31012	0.218218	-0.62783	0.11705
F2	SO4F	TKNF	-0.20966	24	0.325481	-0.21281	0.218218	-0.56525	0.211647
F2	SO4F	TPF	-0.16499	21	0.474796	-0.16651	0.235702	-0.55701	0.287158
F2	SULF	TKNF	0.474646	24	0.019099	0.516051	0.218218	0.088115	0.736944
F2	SULF	TPF	0.157998	21	0.493965	0.159332	0.235702	-0.29373	0.552039
F2	TKNF	TPF	0.611237	21	0.003242	0.710895	0.235702	0.243901	0.82519
F3	CAF	CLF	0.345155	23	0.106742	0.359933	0.223607	-0.07818	0.66303
F3	CAF	DOC	0.674217	22	0.00058	0.818434	0.229416	0.352924	0.853279
F3	CAF	FEF	0.397894	20	0.082311	0.421144	0.242536	-0.05417	0.714596
F3	CAF	KF	0.564912	19	0.01173	0.640019	0.25	0.148903	0.811026
F3	CAF	MGF	0.910079	23	1.74E-09	1.527984	0.223607	0.796774	0.961564
F3	CAF	NH3F	-0.1616	23	0.461332	-0.16303	0.223607	-0.53797	0.268493
F3	CAF	PH	0.088722	20	0.709921	0.088956	0.242536	-0.36826	0.51118
F3	CAF	PO4F	-0.1755	21	0.44671	-0.17733	0.235702	-0.56443	0.277199
F3	CAF	SO4F	-0.00692	23	0.975012	-0.00692	0.223607	-0.41793	0.406451
F3	CAF	SULF	-0.16609	23	0.448808	-0.16764	0.223607	-0.54124	0.264208
F3	CAF	TKNF	0.198417	23	0.364101	0.201084	0.223607	-0.23284	0.564459
F3	CAF	TPF	-0.20098	20	0.39552	-0.20375	0.242536	-0.59095	0.265129
F3	CLF	DOC	0.313214	23	0.145595	0.324105	0.223607	-0.11367	0.642474
F3	CLF	FEF	-0.07515	20	0.752843	-0.07529	0.242536	-0.50102	0.380014
F3	CLF	KF	0.01284	20	0.957153	0.012841	0.242536	-0.43214	0.452795
F3	CLF	MGF	0.232986	24	0.273243	0.237344	0.218218	-0.1881	0.581715
F3	CLF	NH3F	-0.39856	23	0.059597	-0.42194	0.223607	-0.69637	0.016327
F3	CLF	PH	0.302183	21	0.183071	0.31192	0.235702	-0.14894	0.64919
F3	CLF	PO4F	-0.02314	21	0.920686	-0.02315	0.235702	-0.45034	0.412674
F3	CLF	SO4F	0.221206	24	0.298912	0.224923	0.218218	-0.20005	0.573438
F3	CLF	SULF	-0.19577	24	0.359261	-0.19833	0.218218	-0.55532	0.22544
F3	CLF	TKNF	-0.09393	24	0.662436	-0.09421	0.218218	-0.47917	0.321664
F3	CLF	TPF	0.110532	21	0.633384	0.110985	0.235702	-0.33725	0.517531
F3	DOC	FEF	0.412929	19	0.078898	0.439138	0.25	-0.05082	0.730192
F3	DOC	KF	0.413918	19	0.078112	0.44033	0.25	-0.04963	0.730748
F3	DOC	MGF	0.607082	23	0.002128	0.704288	0.223607	0.259916	0.815273
F3	DOC	NH3F	0.117214	22	0.60342	0.117756	0.229416	-0.32023	0.513455
F3	DOC	PH	0.032416	20	0.892082	0.032428	0.242536	-0.41608	0.468227
F3	DOC	PO4F	0.149868	20	0.528268	0.151006	0.242536	-0.31345	0.555551
F3	DOC	SO4F	0.174301	23	0.42637	0.176099	0.223607	-0.25632	0.547195
F3	DOC	SULF	0.199406	23	0.361666	0.202114	0.223607	-0.23186	0.56516
F3	DOC	TKNF	0.193652	23	0.375965	0.196129	0.223607	-0.23752	0.561073
F3	DOC	TPF	0.318234	20	0.171497	0.329681	0.242536	-0.14467	0.666851
F3	FEF	KF	-0.0282	17	0.914433	-0.02821	0.267261	-0.50205	0.458666
F3	FEF	MGF	0.317413	20	0.172666	0.328767	0.242536	-0.14556	0.666343
F3	FEF	NH3F	-0.19865	20	0.401142	-0.20132	0.242536	-0.58936	0.267387
F3	FEF	PH	-0.31024	17	0.22555	-0.32081	0.267261	-0.68826	0.200278
F3	FEF	PO4F	0.057394	18	0.821041	0.057457	0.258199	-0.42076	0.51059
F3	FEF	SO4F	-0.18654	20	0.431019	-0.18875	0.242536	-0.5811	0.279024
F3	FEF	SULF	-0.38163	20	0.096843	-0.40197	0.242536	-0.70508	0.073268
F3	FEF	TKNF	0.19902	20	0.400236	0.201712	0.242536	-0.26702	0.589619
F3	FEF	TPF	-0.05835	17	0.823955	-0.05842	0.267261	-0.5243	0.434485
F3	KF	MGF	0.609023	20	0.004371	0.707366	0.242536	0.227922	0.828312
F3	KF	NH3F	0.147368	19	0.547136	0.148449	0.25	-0.32886	0.563843
F3	KF	PH	0.257353	17	0.318668	0.263272	0.267261	-0.25482	0.656765
F3	KF	PO4F	-0.11772	17	0.652733	-0.11827	0.267261	-0.56633	0.3847

F3	KF	SO4F	-0.07218	20	0.762339	-0.07231	0.242536	-0.49878	0.382567
F3	KF	SULF	0.163219	20	0.491723	0.164692	0.242536	-0.30105	0.564942
F3	KF	TKNF	0.34475	20	0.1366	0.359473	0.242536	-0.11538	0.683068
F3	KF	TPF	0.004137	18	0.987003	0.004137	0.258199	-0.46364	0.470106
F3	MGF	NH3F	-0.09044	23	0.681529	-0.09069	0.223607	-0.48458	0.334231
F3	MGF	PH	-0.1026	21	0.658097	-0.10296	0.235702	-0.51163	0.344348
F3	MGF	PO4F	-0.1703	21	0.4605	-0.17197	0.235702	-0.56076	0.28214
F3	MGF	SO4F	0.011304	24	0.95819	0.011305	0.218218	-0.3939	0.412825
F3	MGF	SULF	-0.15137	24	0.480153	-0.15254	0.218218	-0.52285	0.268424
F3	MGF	TKNF	0.215063	24	0.31287	0.218474	0.218218	-0.20623	0.569094
F3	MGF	TPF	-0.11899	21	0.607459	-0.11955	0.235702	-0.52378	0.32964
F3	NH3F	PH	-0.17149	20	0.469717	-0.1732	0.242536	-0.57071	0.293293
F3	NH3F	PO4F	0.674578	21	0.000796	0.819096	0.235702	0.342674	0.85677
F3	NH3F	SO4F	-0.46602	23	0.025007	-0.50498	0.223607	-0.73671	-0.06661
F3	NH3F	SULF	0.493449	23	0.016722	0.540609	0.223607	0.101984	0.75258
F3	NH3F	TKNF	0.446919	23	0.032515	0.480844	0.223607	0.042549	0.725478
F3	NH3F	TPF	0.624012	20	0.003277	0.73155	0.242536	0.250719	0.835753
F3	PH	PO4F	-0.06409	19	0.794348	-0.06418	0.25	-0.50365	0.401823
F3	PH	SO4F	0.150649	21	0.514514	0.151805	0.235702	-0.30059	0.546783
F3	PH	SULF	0.069526	21	0.764589	0.069638	0.235702	-0.37337	0.486614
F3	PH	TKNF	-0.46504	21	0.033653	-0.50372	0.235702	-0.74681	-0.04172
F3	PH	TPF	-0.07301	20	0.759669	-0.07314	0.242536	-0.49941	0.381851
F3	PO4F	SO4F	-0.58044	21	0.005804	-0.66312	0.235702	-0.80933	-0.19847
F3	PO4F	SULF	0.119024	21	0.607341	0.119591	0.235702	-0.32961	0.523804
F3	PO4F	TKNF	0.290785	21	0.200969	0.299423	0.235702	-0.16114	0.641901
F3	PO4F	TPF	0.734066	19	0.000346	0.937488	0.25	0.419832	0.891151
F3	SO4F	SULF	-0.05481	24	0.799223	-0.05486	0.218218	-0.4483	0.356478
F3	SO4F	TKNF	-0.21811	24	0.305895	-0.22167	0.218218	-0.57125	0.203169
F3	SO4F	TPF	-0.28999	21	0.202264	-0.29855	0.235702	-0.64139	0.161985
F3	SULF	TKNF	0.251742	24	0.235356	0.257272	0.218218	-0.1688	0.594747
F3	SULF	TPF	0.352635	21	0.116909	0.36845	0.235702	-0.09325	0.680705
F3	TKNF	TPF	0.358958	21	0.11004	0.375689	0.235702	-0.08607	0.684571
F4	CAF	CLF	0.69424	26	8.35E-05	0.856094	0.208514	0.419764	0.852377
F4	CAF	DOC	0.771997	26	3.85E-06	1.025251	0.208514	0.54873	0.892471
F4	CAF	FEF	-0.32032	19	0.181227	-0.332	0.25	-0.67616	0.156699
F4	CAF	KF	0.363636	23	0.088074	0.38107	0.223607	-0.05714	0.67471
F4	CAF	MGF	0.97265	26	0	2.1392	0.208514	0.939116	0.987829
F4	CAF	NH3F	0.257615	24	0.224243	0.263553	0.218218	-0.1627	0.598791
F4	CAF	PH	-0.47641	22	0.024995	-0.51832	0.229416	-0.74782	-0.06856
F4	CAF	PO4F	-0.09259	19	0.70616	-0.09286	0.25	-0.52474	0.377499
F4	CAF	SO4F	-0.47409	26	0.014414	-0.51533	0.208514	-0.72779	-0.10624
F4	CAF	SULF	0.431237	25	0.031375	0.461415	0.213201	0.043514	0.706063
F4	CAF	TKNF	0.730037	25	3.44E-05	0.928806	0.213201	0.470671	0.873267
F4	CAF	TPF	-0.23479	26	0.248274	-0.23925	0.208514	-0.57028	0.167831
F4	CLF	DOC	0.739177	26	1.61E-05	0.948664	0.208514	0.492969	0.875777
F4	CLF	FEF	-0.40643	19	0.084209	-0.43133	0.25	-0.72653	0.058604
F4	CLF	KF	0.118056	23	0.591622	0.11861	0.223607	-0.3092	0.505658
F4	CLF	MGF	0.718262	26	3.6E-05	0.904045	0.208514	0.458458	0.864965
F4	CLF	NH3F	-0.03367	24	0.87589	-0.03368	0.218218	-0.43122	0.374825
F4	CLF	PH	-0.08993	22	0.690635	-0.09017	0.229416	-0.49286	0.344757
F4	CLF	PO4F	-0.38267	19	0.105875	-0.40318	0.25	-0.71296	0.086601
F4	CLF	SO4F	-0.37511	26	0.058995	-0.39436	0.208514	-0.66574	0.014331

F4	CLF	SULF	0.13251	25	0.527762	0.133294	0.213201	-0.27714	0.501395
F4	CLF	TKNF	0.592854	25	0.001789	0.682056	0.213201	0.258203	0.800474
F4	CLF	TPF	-0.46775	26	0.01597	-0.50718	0.208514	-0.72394	-0.09817
F4	DOC	FEF	-0.24186	19	0.31847	-0.24675	0.25	-0.62718	0.238559
F4	DOC	KF	0.24307	23	0.263747	0.248034	0.223607	-0.18797	0.595602
F4	DOC	MGF	0.806916	26	6.37E-07	1.118126	0.208514	0.610324	0.909878
F4	DOC	NH3F	0.396863	24	0.05484	0.41992	0.218218	-0.00779	0.689828
F4	DOC	PH	-0.42348	22	0.049543	-0.45192	0.229416	-0.71707	-0.00227
F4	DOC	PO4F	0.013239	19	0.9571	0.01324	0.25	-0.44364	0.464662
F4	DOC	SO4F	-0.64052	26	0.000424	-0.75906	0.208514	-0.82355	-0.3367
F4	DOC	SULF	0.591601	25	0.00184	0.680126	0.213201	0.256401	0.799779
F4	DOC	TKNF	0.790711	25	2.55E-06	1.073327	0.213201	0.57533	0.903545
F4	DOC	TPF	-0.18929	26	0.354372	-0.1916	0.208514	-0.53726	0.213739
F4	FEF	KF	0.083333	17	0.750504	0.083527	0.267261	-0.4139	0.542265
F4	FEF	MGF	-0.37209	19	0.116706	-0.39085	0.25	-0.70685	0.098826
F4	FEF	NH3F	0.069179	18	0.785039	0.06929	0.258199	-0.41097	0.519285
F4	FEF	PH	0.109026	15	0.698919	0.109461	0.288675	-0.4271	0.588432
F4	FEF	PO4F	0.226213	15	0.417536	0.230195	0.288675	-0.32355	0.661794
F4	FEF	SO4F	0.071084	19	0.772445	0.071204	0.25	-0.39592	0.50887
F4	FEF	SULF	0.073309	18	0.772516	0.073441	0.258199	-0.40752	0.52231
F4	FEF	TKNF	-0.11364	18	0.653456	-0.11413	0.258199	-0.55127	0.373032
F4	FEF	TPF	0.375385	19	0.113253	0.394677	0.25	-0.09504	0.708754
F4	KF	MGF	0.390316	23	0.065575	0.412173	0.223607	-0.02609	0.6913
F4	KF	NH3F	0.048717	21	0.833899	0.048756	0.235702	-0.3912	0.470515
F4	KF	PH	-0.1502	19	0.539382	-0.15134	0.25	-0.56581	0.326278
F4	KF	PO4F	-0.27577	16	0.301221	-0.2831	0.27735	-0.6787	0.254772
F4	KF	SO4F	0.121137	23	0.581914	0.121735	0.223607	-0.30637	0.507981
F4	KF	SULF	0.020333	22	0.928436	0.020336	0.229416	-0.40475	0.438192
F4	KF	TKNF	0.482486	22	0.022953	0.526219	0.229416	0.076415	0.751274
F4	KF	TPF	-0.0947	23	0.667351	-0.09498	0.223607	-0.48786	0.330411
F4	MGF	NH3F	0.275892	24	0.191914	0.28323	0.218218	-0.14348	0.611264
F4	MGF	PH	-0.49958	22	0.017919	-0.54874	0.229416	-0.76092	-0.09876
F4	MGF	PO4F	-0.17461	19	0.474646	-0.17641	0.25	-0.58262	0.303697
F4	MGF	SO4F	-0.43783	26	0.025286	-0.46954	0.208514	-0.70553	-0.06078
F4	MGF	SULF	0.413926	25	0.039689	0.440339	0.213201	0.022462	0.695336
F4	MGF	TKNF	0.766211	25	8.00E-06	1.011087	0.213201	0.532203	0.891453
F4	MGF	TPF	-0.21525	26	0.290948	-0.21867	0.208514	-0.55623	0.18776
F4	NH3F	PH	-0.32932	21	0.144909	-0.34207	0.235702	-0.66629	0.11934
F4	NH3F	PO4F	0.348598	18	0.156269	0.363847	0.258199	-0.14127	0.701332
F4	NH3F	SO4F	-0.6195	24	0.001245	-0.7242	0.218218	-0.81838	-0.2881
F4	NH3F	SULF	0.663369	23	0.00056	0.798806	0.223607	0.345687	0.84462
F4	NH3F	TKNF	0.504206	23	0.014156	0.55493	0.223607	0.116134	0.758723
F4	NH3F	TPF	0.646174	24	0.000647	0.768703	0.218218	0.328366	0.832556
F4	PH	PO4F	-0.19557	17	0.451896	-0.19813	0.267261	-0.61812	0.314658
F4	PH	SO4F	0.407523	22	0.059763	0.432637	0.229416	-0.01702	0.707566
F4	PH	SULF	-0.36411	21	0.104664	-0.38162	0.235702	-0.68771	0.080189
F4	PH	TKNF	-0.47447	21	0.029764	-0.51583	0.235702	-0.75211	-0.0538
F4	PH	TPF	0.028928	22	0.898315	0.028936	0.229416	-0.39754	0.445114
F4	PO4F	SO4F	-0.39718	19	0.092217	-0.4203	0.25	-0.72127	0.069592
F4	PO4F	SULF	0.411435	18	0.089821	0.437338	0.258199	-0.06862	0.736784
F4	PO4F	TKNF	0.089872	18	0.722861	0.090115	0.258199	-0.39352	0.534329
F4	PO4F	TPF	0.643839	19	0.002933	0.764703	0.25	0.267995	0.849597

F4	SO4F	SULF	-0.72677	25	3.88E-05	-0.92184	0.213201	-0.8716	-0.46523
F4	SO4F	TKNF	-0.60905	25	0.001233	-0.70741	0.213201	-0.8094	-0.2817
F4	SO4F	TPF	-0.2416	26	0.234423	-0.24647	0.208514	-0.57513	0.160809
F4	SULF	TKNF	0.561358	24	0.004315	0.634813	0.218218	0.204195	0.786627
F4	SULF	TPF	0.378015	25	0.062445	0.397741	0.213201	-0.02013	0.672676
F4	TKNF	TPF	0.091453	25	0.663731	0.091709	0.213201	-0.31507	0.46962
F5	CAF	CLF	0.177808	25	0.395142	0.179718	0.213201	-0.23375	0.535334
F5	CAF	DOC	0.603425	25	0.001406	0.698516	0.213201	0.2735	0.806309
F5	CAF	FEF	-0.03313	17	0.899555	-0.03314	0.267261	-0.50573	0.454765
F5	CAF	KF	-0.00325	21	0.988852	-0.00325	0.235702	-0.43433	0.429047
F5	CAF	MGF	0.881493	25	5.90E-09	1.382424	0.213201	0.7463	0.946837
F5	CAF	NH3F	0.349717	24	0.0939	0.365122	0.218218	-0.0625	0.660008
F5	CAF	PH	-0.1494	21	0.51805	-0.15053	0.235702	-0.54589	0.301756
F5	CAF	PO4F	0.153645	19	0.530002	0.154871	0.25	-0.32312	0.568207
F5	CAF	SO4F	-0.22239	25	0.285299	-0.22617	0.213201	-0.56765	0.189387
F5	CAF	SULF	0.255314	23	0.239686	0.261089	0.223607	-0.17535	0.60396
F5	CAF	TKNF	0.530039	24	0.00772	0.5902	0.218218	0.161078	0.769013
F5	CAF	TPF	0.55685	23	0.005781	0.628255	0.223607	0.187732	0.788148
F5	CLF	DOC	0.460182	26	0.018004	0.497542	0.208514	0.088621	0.719318
F5	CLF	FEF	-0.23833	17	0.356956	-0.243	0.267261	-0.64508	0.273673
F5	CLF	KF	-0.10193	22	0.651741	-0.10228	0.229416	-0.50197	0.334045
F5	CLF	MGF	0.334076	26	0.095316	0.347409	0.208514	-0.0612	0.638772
F5	CLF	NH3F	0.273411	25	0.186025	0.280546	0.213201	-0.13647	0.603364
F5	CLF	PH	0.039582	22	0.86117	0.039602	0.229416	-0.38852	0.453627
F5	CLF	PO4F	0.07777	20	0.744502	0.077927	0.242536	-0.37776	0.502987
F5	CLF	SO4F	-0.34075	26	0.08848	-0.35495	0.208514	-0.64321	0.053692
F5	CLF	SULF	0.321211	24	0.125896	0.332997	0.218218	-0.09443	0.641491
F5	CLF	TKNF	0.409757	25	0.04193	0.435319	0.213201	0.017444	0.692734
F5	CLF	TPF	0.19473	24	0.361862	0.197249	0.218218	-0.22646	0.554569
F5	DOC	FEF	0.262577	17	0.308593	0.268874	0.267261	-0.24957	0.659939
F5	DOC	KF	0.133409	22	0.553936	0.134209	0.229416	-0.30538	0.525468
F5	DOC	MGF	0.588678	26	0.001558	0.675641	0.208514	0.260787	0.794799
F5	DOC	NH3F	0.195497	25	0.349004	0.198047	0.213201	-0.21635	0.548281
F5	DOC	PH	0.011296	22	0.960208	0.011297	0.229416	-0.41228	0.430859
F5	DOC	PO4F	0.095041	20	0.690207	0.095329	0.242536	-0.36274	0.515872
F5	DOC	SO4F	-0.1505	26	0.463023	-0.15166	0.208514	-0.50823	0.251517
F5	DOC	SULF	0.405482	24	0.049324	0.430192	0.218218	0.002485	0.695174
F5	DOC	TKNF	0.462546	25	0.019905	0.500545	0.213201	0.082484	0.725148
F5	DOC	TPF	0.51527	24	0.009971	0.569879	0.218218	0.141221	0.760578
F5	FEF	KF	0.081408	14	0.78204	0.081589	0.301511	-0.46946	0.586655
F5	FEF	MGF	-0.24125	17	0.350911	-0.2461	0.267261	-0.64689	0.270802
F5	FEF	NH3F	-0.59423	17	0.011888	-0.68418	0.267261	-0.83608	-0.15899
F5	FEF	PH	0.227192	15	0.41547	0.231226	0.288675	-0.32263	0.662373
F5	FEF	PO4F	-0.05525	14	0.851198	-0.0553	0.301511	-0.56915	0.489694
F5	FEF	SO4F	0.228221	17	0.37831	0.232312	0.267261	-0.28353	0.6388
F5	FEF	SULF	-0.47752	16	0.061403	-0.51977	0.27735	-0.78695	0.02383
F5	FEF	TKNF	-0.54827	16	0.027884	-0.6159	0.27735	-0.82088	-0.07217
F5	FEF	TPF	0.039318	16	0.88505	0.039338	0.27735	-0.46547	0.524802
F5	KF	MGF	0.169492	22	0.450812	0.171143	0.229416	-0.27153	0.551683
F5	KF	NH3F	0.009425	21	0.967658	0.009425	0.235702	-0.42399	0.439331
F5	KF	PH	-0.01239	18	0.961083	-0.01239	0.258199	-0.47651	0.457131
F5	KF	PO4F	0.392016	16	0.133165	0.41418	0.27735	-0.12871	0.743288

F5	KF	SO4F	0.329754	22	0.133955	0.342552	0.229416	-0.10669	0.659658
F5	KF	SULF	0.097434	21	0.674368	0.097744	0.235702	-0.34894	0.50777
F5	KF	TKNF	0.120039	21	0.604259	0.120621	0.235702	-0.32869	0.52455
F5	KF	TPF	0.4267	20	0.060621	0.455856	0.242536	-0.01951	0.731165
F5	MGF	NH3F	0.482493	25	0.014576	0.526229	0.213201	0.107934	0.737101
F5	MGF	PH	-0.3033	22	0.170013	-0.31315	0.229416	-0.64273	0.135659
F5	MGF	PO4F	0.288802	20	0.21686	0.297258	0.242536	-0.17625	0.648455
F5	MGF	SO4F	-0.18126	26	0.375532	-0.18328	0.208514	-0.53131	0.221663
F5	MGF	SULF	0.37269	24	0.072879	0.391543	0.218218	-0.03615	0.674662
F5	MGF	TKNF	0.652484	25	0.000408	0.779612	0.213201	0.346744	0.832886
F5	MGF	TPF	0.422789	24	0.039558	0.451084	0.218218	0.023372	0.705813
F5	NH3F	PH	-0.34297	21	0.127999	-0.35745	0.235702	-0.67476	0.104145
F5	NH3F	PO4F	0.676772	20	0.001049	0.823135	0.242536	0.334392	0.861338
F5	NH3F	SO4F	-0.63409	25	0.000665	-0.74823	0.213201	-0.82302	-0.31884
F5	NH3F	SULF	0.8087	23	3.01E-06	1.12326	0.223607	0.594754	0.915668
F5	NH3F	TKNF	0.714846	24	8.67E-05	0.897024	0.218218	0.437647	0.867956
F5	NH3F	TPF	0.553551	23	0.006141	0.623487	0.223607	0.183128	0.786335
F5	PH	PO4F	-0.11618	18	0.646162	-0.11671	0.258199	-0.55306	0.370807
F5	PH	SO4F	0.114625	22	0.6115	0.115131	0.229416	-0.32258	0.511519
F5	PH	SULF	-0.22339	20	0.343765	-0.22722	0.242536	-0.60601	0.243175
F5	PH	TKNF	-0.46554	21	0.033438	-0.50436	0.235702	-0.74709	-0.04236
F5	PH	TPF	-0.20217	22	0.366906	-0.205	0.229416	-0.57479	0.239892
F5	PO4F	SO4F	-0.3988	20	0.081554	-0.42222	0.242536	-0.71512	0.053102
F5	PO4F	SULF	0.683652	18	0.001759	0.835939	0.258199	0.318403	0.872154
F5	PO4F	TKNF	0.518792	19	0.02285	0.574685	0.25	0.084483	0.78745
F5	PO4F	TPF	0.458698	20	0.041928	0.495661	0.242536	0.020289	0.749157
F5	SO4F	SULF	-0.55502	24	0.004876	-0.62561	0.218218	-0.78309	-0.19536
F5	SO4F	TKNF	-0.63824	25	0.000597	-0.75519	0.213201	-0.82525	-0.32508
F5	SO4F	TPF	-0.44222	24	0.030484	-0.47499	0.218218	-0.71761	-0.04725
F5	SULF	TKNF	0.59634	23	0.002671	0.687447	0.223607	0.244146	0.809548
F5	SULF	TPF	0.519107	22	0.013299	0.575117	0.229416	0.124808	0.771803
F5	TKNF	TPF	0.606404	23	0.002159	0.703214	0.223607	0.258914	0.814913
U3	CAF	CLF	0.213588	26	0.294786	0.216928	0.208514	-0.18944	0.555026
U3	CAF	DOC	0.463014	26	0.017219	0.501141	0.208514	0.09219	0.72105
U3	CAF	FEF	0.129714	21	0.575205	0.130449	0.235702	-0.31989	0.531638
U3	CAF	KF	0.276254	23	0.201959	0.283622	0.223607	-0.15343	0.618079
U3	CAF	MGF	0.854138	26	2.85E-08	1.271258	0.208514	0.697579	0.932855
U3	CAF	NH3F	0.578077	24	0.00309	0.65957	0.218218	0.227796	0.795882
U3	CAF	PH	-0.19225	22	0.391362	-0.19468	0.229416	-0.56784	0.249593
U3	CAF	PO4F	0.677864	16	0.003905	0.825152	0.27735	0.274335	0.878409
U3	CAF	SO4F	0.113944	26	0.579417	0.114441	0.208514	-0.28604	0.480111
U3	CAF	SULF	0.248315	24	0.242007	0.253616	0.218218	-0.17235	0.592379
U3	CAF	TKNF	0.653513	25	0.000396	0.781406	0.213201	0.348322	0.833435
U3	CAF	TPF	0.599945	22	0.003162	0.693061	0.229416	0.238711	0.815327
U3	CLF	DOC	0.797115	26	1.09E-06	1.09065	0.208514	0.592793	0.905029
U3	CLF	FEF	-0.41409	21	0.062018	-0.44053	0.235702	-0.71752	0.02144
U3	CLF	KF	0.392364	23	0.064049	0.414591	0.223607	-0.02367	0.692561
U3	CLF	MGF	0.378969	26	0.05623	0.398855	0.208514	-0.00983	0.668233
U3	CLF	NH3F	0.457581	24	0.024557	0.494247	0.218218	0.066442	0.726821
U3	CLF	PH	-0.07149	22	0.751891	-0.07161	0.229416	-0.47868	0.361007
U3	CLF	PO4F	0.10613	16	0.695654	0.106532	0.27735	-0.41122	0.571763
U3	CLF	SO4F	-0.4044	26	0.040455	-0.42889	0.208514	-0.68453	-0.0202

U3	CLF	SULF	0.514401	24	0.010119	0.568696	0.218218	0.140062	0.760079
U3	CLF	TKNF	0.534289	25	0.005937	0.596128	0.213201	0.17639	0.767412
U3	CLF	TPF	0.356737	22	0.103162	0.373142	0.229416	-0.07636	0.67659
U3	DOC	FEF	-0.38939	21	0.081021	-0.41109	0.235702	-0.70293	0.050846
U3	DOC	KF	0.506437	23	0.013666	0.557926	0.223607	0.119088	0.759991
U3	DOC	MGF	0.549658	26	0.003629	0.617891	0.208514	0.206203	0.772533
U3	DOC	NH3F	0.644101	24	0.000682	0.765151	0.218218	0.325194	0.831463
U3	DOC	PH	0.166903	22	0.457858	0.168479	0.229416	-0.27399	0.549827
U3	DOC	PO4F	0.286685	16	0.281694	0.294951	0.27735	-0.24365	0.685044
U3	DOC	SO4F	-0.07093	26	0.730617	-0.07105	0.208514	-0.44603	0.325371
U3	DOC	SULF	0.648814	24	0.000604	0.773248	0.218218	0.332415	0.833946
U3	DOC	TKNF	0.736122	25	2.74E-05	0.941961	0.213201	0.480849	0.876355
U3	DOC	TPF	0.591773	22	0.003718	0.68039	0.229416	0.226726	0.811035
U3	FEF	KF	-0.30465	19	0.204723	-0.31464	0.25	-0.66662	0.173583
U3	FEF	MGF	-0.03218	21	0.889851	-0.0322	0.235702	-0.45752	0.405138
U3	FEF	NH3F	-0.30391	19	0.205888	-0.31382	0.25	-0.66617	0.174379
U3	FEF	PH	-0.09275	17	0.723293	-0.09302	0.267261	-0.54893	0.406
U3	FEF	PO4F	-0.02147	12	0.947194	-0.02147	0.333333	-0.58813	0.559331
U3	FEF	SO4F	0.33225	21	0.141153	0.345355	0.235702	-0.1161	0.668116
U3	FEF	SULF	-0.69251	20	0.000714	-0.85276	0.242536	-0.86879	-0.36044
U3	FEF	TKNF	-0.25057	20	0.286639	-0.25602	0.242536	-0.62391	0.215902
U3	FEF	TPF	-0.03331	17	0.898999	-0.03333	0.267261	-0.50587	0.454618
U3	KF	MGF	0.462565	23	0.026252	0.500569	0.223607	0.06222	0.734688
U3	KF	NH3F	0.086392	21	0.709631	0.086608	0.235702	-0.35868	0.499458
U3	KF	PH	-0.04218	19	0.863871	-0.0422	0.25	-0.48706	0.420085
U3	KF	PO4F	0.022224	13	0.942552	0.022227	0.316228	-0.53532	0.566283
U3	KF	SO4F	0.389918	23	0.065874	0.411704	0.223607	-0.02656	0.691055
U3	KF	SULF	0.198193	22	0.376609	0.200851	0.229416	-0.24379	0.57201
U3	KF	TKNF	0.224421	22	0.315347	0.228306	0.229416	-0.2178	0.590192
U3	KF	TPF	0.14336	19	0.558207	0.144355	0.25	-0.33251	0.561043
U3	MGF	NH3F	0.585907	24	0.002626	0.67141	0.218218	0.238991	0.800182
U3	MGF	PH	-0.39129	22	0.071738	-0.41333	0.229416	-0.69779	0.036314
U3	MGF	PO4F	0.507095	16	0.044981	0.558811	0.27735	0.015204	0.801366
U3	MGF	SO4F	0.185458	26	0.364381	0.187629	0.208514	-0.21753	0.534424
U3	MGF	SULF	0.312677	24	0.136852	0.323509	0.218218	-0.10382	0.635874
U3	MGF	TKNF	0.626949	25	0.000797	0.736373	0.213201	0.30815	0.819156
U3	MGF	TPF	0.383919	22	0.077741	0.404649	0.229416	-0.04498	0.693311
U3	NH3F	PH	0.072869	21	0.753598	0.072999	0.235702	-0.37048	0.489175
U3	NH3F	PO4F	0.733131	16	0.001232	0.935464	0.27735	0.37296	0.901294
U3	NH3F	SO4F	-0.23547	24	0.268007	-0.23998	0.218218	-0.58345	0.185556
U3	NH3F	SULF	0.607173	22	0.00273	0.704432	0.229416	0.249404	0.819103
U3	NH3F	TKNF	0.889961	23	1.32E-08	1.421736	0.223607	0.754563	0.952679
U3	NH3F	TPF	0.601584	20	0.005016	0.695626	0.242536	0.216762	0.824591
U3	PH	PO4F	0.062504	15	0.824867	0.062585	0.288675	-0.46464	0.556942
U3	PH	SO4F	-0.06963	22	0.758158	-0.06974	0.229416	-0.47723	0.362632
U3	PH	SULF	0.112241	20	0.637547	0.112716	0.242536	-0.34755	0.528518
U3	PH	TKNF	0.111943	21	0.629026	0.112414	0.235702	-0.33599	0.518576
U3	PH	TPF	0.06717	20	0.778428	0.067271	0.242536	-0.38686	0.494984
U3	PO4F	SO4F	-0.00223	16	0.993454	-0.00223	0.27735	-0.49739	0.494027
U3	PO4F	SULF	0.421758	15	0.117382	0.449829	0.288675	-0.11546	0.768081
U3	PO4F	TKNF	0.707494	15	0.003174	0.882148	0.288675	0.306198	0.895287
U3	PO4F	TPF	0.811965	14	0.00042	1.132769	0.301511	0.494354	0.938311

U3	SO4F	SULF	-0.20522	24	0.336061	-0.20817	0.218218	-0.56209	0.216074
U3	SO4F	TKNF	-0.17026	25	0.415821	-0.17194	0.213201	-0.52976	0.241096
U3	SO4F	TPF	-0.06007	22	0.790576	-0.06015	0.229416	-0.46979	0.370937
U3	SULF	TKNF	0.635015	23	0.001133	0.749776	0.223607	0.301807	0.829972
U3	SULF	TPF	0.56594	20	0.009294	0.641529	0.242536	0.164647	0.806487
U3	TKNF	TPF	0.774003	22	2.37E-05	1.030237	0.229416	0.523088	0.901448

PORE WATER
SPEARMAN
CO-CORRELATION
POOLED STATIONS

var1	var2	corr	n	pvalue	fishersz	sigmaz	l95	u95	
CAF	CLF	0.865382	148		0	1.314388	0.083045	0.81829	0.900934
CAF	DOC	0.846943	145		0	1.245237	0.083918	0.79348	0.887434
CAF	FEF	0.059483	114	0.529567	0.059554	0.094916	-0.12581	0.240768	
CAF	KF	-0.40036	126	3.40E-06	-0.42408	0.090167	-0.53762	-0.24243	
CAF	MGF	0.969024	148		0	2.076046	0.083045	0.95736	0.977535
CAF	NH3F	0.067909	143	0.420316	0.068013	0.084515	-0.09733	0.229502	
CAF	PH	0.002591	125	0.977125	0.002591	0.090536	-0.1731	0.17812	
CAF	PO4F	0.73049	121		0	0.929778	0.092057	0.634758	0.804137
CAF	SO4F	-0.14277	148	0.083439	-0.14376	0.083045	-0.29727	0.019011	
CAF	SULF	0.163302	143	0.051323	0.164777	0.084515	-0.00087	0.318905	
CAF	TKNF	0.723775	145		0	0.915527	0.083918	0.635773	0.793202
CAF	TPF	0.735364	133		0	0.940309	0.087706	0.646002	0.804843
CLF	DOC	0.832329	149		0	1.195671	0.082761	0.775292	0.875901
CLF	FEF	-0.05196	114	0.582997	-0.052	0.094916	-0.23364	0.133234	
CLF	KF	-0.47371	130	1.25E-08	-0.51484	0.088736	-0.59719	-0.3283	
CLF	MGF	0.860906	152		0	1.296835	0.081923	0.813153	0.897147
CLF	NH3F	0.066046	145	0.429949	0.066142	0.083918	-0.09802	0.226618	
CLF	PH	0.089888	129	0.311038	0.090131	0.089087	-0.08428	0.258725	
CLF	PO4F	0.690775	123		0	0.849437	0.091287	0.585318	0.77325
CLF	SO4F	-0.17507	152	0.030987	-0.17689	0.081923	-0.32521	-0.01632	
CLF	SULF	0.155095	147	0.060691	0.156357	0.083333	-0.00698	0.309227	
CLF	TKNF	0.725121	149		0	0.918362	0.082761	0.638804	0.793411
CLF	TPF	0.683554	137		0	0.835755	0.086387	0.582631	0.763716
DOC	FEF	0.052299	111	0.58566	0.052346	0.096225	-0.13542	0.23639	
DOC	KF	-0.32952	127	0.000155	-0.34229	0.089803	-0.47639	-0.16476	
DOC	MGF	0.844665	149		0	1.237233	0.082761	0.791346	0.885231
DOC	NH3F	0.154823	142	0.065807	0.156078	0.084819	-0.01017	0.311606	
DOC	PH	-0.06931	126	0.440614	-0.06942	0.090167	-0.24129	0.106898	
DOC	PO4F	0.67379	120		0	0.817652	0.09245	0.562477	0.761112
DOC	SO4F	-0.17617	149	0.031619	-0.17803	0.082761	-0.32769	-0.01582	
DOC	SULF	0.317635	144	0.000105	0.329014	0.084215	0.162499	0.457446	
DOC	TKNF	0.695798	146		0	0.859109	0.083624	0.601316	0.771091
DOC	TPF	0.678891	134		0	0.827053	0.08737	0.575566	0.760879
FEF	KF	0.000414	98	0.996768	0.000414	0.102598	-0.19803	0.198822	
FEF	MGF	-0.00081	114	0.993174	-0.00081	0.094916	-0.1847	0.183135	
FEF	NH3F	-0.25722	111	0.006425	-0.26313	0.096225	-0.42332	-0.07439	
FEF	PH	0.036359	93	0.729339	0.036375	0.105409	-0.1686	0.238306	
FEF	PO4F	0.172359	94	0.096677	0.174097	0.104828	-0.03136	0.362326	
FEF	SO4F	0.214401	114	0.021983	0.21778	0.094916	0.031735	0.383209	
FEF	SULF	-0.20591	111	0.030149	-0.2089	0.096225	-0.37781	-0.02029	
FEF	TKNF	-0.08212	111	0.391544	-0.0823	0.096225	-0.26447	0.105899	
FEF	TPF	0.199037	100	0.047116	0.20173	0.101535	0.002722	0.38058	
KF	MGF	-0.35753	130	2.97E-05	-0.37405	0.088736	-0.499	-0.1975	
KF	NH3F	0.040052	123	0.660055	0.040073	0.091287	-0.13796	0.215561	
KF	PH	-0.0858	107	0.379569	-0.08601	0.098058	-0.27124	0.105788	
KF	PO4F	-0.55676	101	1.49E-09	-0.62813	0.101015	-0.67839	-0.40544	

KF	SO4F	0.003504	130	0.968437	0.003504	0.088736	-0.16879	0.175588
KF	SULF	0.088906	127	0.32023	0.089142	0.089803	-0.08665	0.259111
KF	TKNF	-0.43302	127	3.68E-07	-0.4636	0.089803	-0.56464	-0.27991
KF	TPF	-0.46125	118	1.47E-07	-0.4989	0.09325	-0.5926	-0.306
MGF	NH3F	0.157442	145	0.058589	0.158763	0.083918	-0.00572	0.312436
MGF	PH	-0.07665	129	0.387911	-0.0768	0.089087	-0.24625	0.097496
MGF	PO4F	0.708931	123	0	0.885032	0.091287	0.608232	0.787173
MGF	SO4F	-0.1411	152	0.082941	-0.14204	0.081923	-0.2937	0.018524
MGF	SULF	0.183499	147	0.026099	0.185601	0.083333	0.022264	0.33543
MGF	TKNF	0.795633	149	0	1.086598	0.082761	0.727966	0.847949
MGF	TPF	0.6893	137	0	0.84662	0.086387	0.589762	0.768207
NH3F	PH	-0.08429	124	0.35195	-0.08449	0.090909	-0.2568	0.093414
NH3F	PO4F	0.319363	121	0.000356	0.330938	0.092057	0.149379	0.471012
NH3F	SO4F	-0.56468	145	1.39E-13	-0.63968	0.083918	-0.66636	-0.44239
NH3F	SULF	0.277595	140	0.000898	0.285074	0.085436	0.117081	0.423975
NH3F	TKNF	0.50687	142	1.22E-10	0.558508	0.084819	0.37331	0.619845
NH3F	TPF	0.228346	130	0.008975	0.232443	0.088736	0.058455	0.385382
PH	PO4F	0.022728	108	0.815391	0.022732	0.09759	-0.16697	0.2108
PH	SO4F	0.104899	129	0.236773	0.105286	0.089087	-0.06921	0.272809
PH	SULF	-0.13782	124	0.126907	-0.1387	0.090909	-0.30668	0.039462
PH	TKNF	-0.08156	126	0.363903	-0.08175	0.090167	-0.25287	0.094696
PH	TPF	0.028907	124	0.74995	0.028915	0.090909	-0.14817	0.204186
PO4F	SO4F	-0.26272	123	0.003327	-0.26903	0.091287	-0.42022	-0.08987
PO4F	SULF	0.177854	119	0.052973	0.179766	0.092848	-0.00222	0.346752
PO4F	TKNF	0.782264	120	0	1.051177	0.09245	0.701361	0.843268
PO4F	TPF	0.923394	113	0	1.611583	0.095346	0.890576	0.946646
SO4F	SULF	-0.34503	147	1.87E-05	-0.35979	0.083333	-0.4801	-0.19397
SO4F	TKNF	-0.33864	149	2.4E-05	-0.35256	0.082761	-0.47365	-0.18808
SO4F	TPF	-0.20758	137	0.014936	-0.21064	0.086387	-0.36267	-0.0413
SULF	TKNF	0.216011	144	0.009314	0.219468	0.084215	0.054352	0.366635
SULF	TPF	0.264323	132	0.002194	0.27075	0.088045	0.097867	0.416391
TKNF	TPF	0.727373	135	0	0.923125	0.087039	0.636655	0.798232

UNIVARIATE LAG 0-6
 SOIL
 MOSQUITOFISH THg vs Y
 POOLED STATIONS

independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
AFDW	LAG1	2	399.3113	246.5118	0.352098	-4.50978	3.35902	0.407554	0.6432
AFDW	LAG2	5	154.6364	45.24661	0.026838	-1.72565	0.59304	0.043685	0.6792
AFDW	LAG3	5	226.5112	63.42012	0.023342	-2.5903	0.831237	0.035657	0.7083
AFDW	LAG4	1	366.1935			-3.54839			1
AFDW	LAG5	5	153.4871	31.81852	0.008499	-1.76659	0.41704	0.013306	0.8177
AFDW	LAG6	5	154.3381	69.24822	0.089734	-1.57314	0.907625	0.158081	0.4289
ASH	LAG0	11	16.28078	11.60737	0.191003	0.002224	0.426814	0.995945	0
ASH	LAG1	14	16.06908	20.50069	0.447186	0.959703	0.714692	0.202307	0.1218
ASH	LAG2	17	12.54325	11.18765	0.278762	0.552686	0.387371	0.172871	0.1129
ASH	LAG3	18	37.02876	29.20399	0.221912	1.428326	1.057101	0.194349	0.097
ASH	LAG4	18	5.299842	9.964622	0.601701	0.780155	0.353918	0.041568	0.2223
ASH	LAG5	16	0.710994	13.9532	0.960033	1.113589	0.428954	0.020257	0.31
ASH	LAG6	13	24.42193	16.04084	0.153796	0.528708	0.512541	0.32263	0.0815
DRYWT	LAG0	11	8.689841	12.40218	0.499487	0.636765	0.944328	0.515402	0.0435
DRYWT	LAG1	14	14.90147	23.07531	0.529659	2.238579	1.840759	0.245562	0.1021
DRYWT	LAG2	20	20.47695	19.34424	0.303075	1.106449	1.581971	0.492769	0.0251
DRYWT	LAG3	24	22.51277	30.38601	0.466256	3.458172	2.569191	0.191416	0.073
DRYWT	LAG4	24	25.90768	12.67671	0.052598	0.00111	1.142491	0.999233	0
DRYWT	LAG5	18	45.66596	26.16838	0.099019	-1.07072	2.882677	0.714903	0.0081
DRYWT	LAG6	19	47.61594	20.04442	0.028838	-1.58328	2.131069	0.467097	0.0298
HCL_SRP	LAG0	5	25.44443	8.957069	0.046834	-0.03095	0.020188	0.200026	0.3701
HCL_SRP	LAG3	1	239.9559			-0.70184			1
HCL_SRP	LAG4	4	44.4448	20.10297	0.11401	-0.04089	0.041649	0.39865	0.2431
HCL_SRP	LAG5	4	66.88041	27.37988	0.092279	-0.07773	0.056725	0.264114	0.385
HCL_SRP	LAG6	1	99.90506			-0.05222			1
K	LAG0	5	67.84466	52.03597	0.262272	-0.27737	0.266818	0.357264	0.2127
K	LAG3	1	480.6867			-2.03533			1
K	LAG4	4	167.2877	71.16721	0.100249	-0.70924	0.358808	0.142522	0.5657
K	LAG5	4	229.4722	117.4996	0.145851	-0.98852	0.592404	0.193778	0.4814
K	LAG6	1	-20.4286			0.419048			1
OX_AL	LAG0	5	-5.26237	8.821987	0.582956	0.069399	0.021249	0.030906	0.7273
OX_AL	LAG1	14	23.46335	15.40387	0.151656	0.058984	0.041902	0.182685	0.1323
OX_AL	LAG2	16	12.82187	8.18793	0.13821	0.051952	0.023276	0.041292	0.2493
OX_AL	LAG3	15	40.6691	24.35601	0.117161	0.107028	0.067177	0.133429	0.1535
OX_AL	LAG4	12	16.20276	10.73969	0.159554	0.015894	0.027857	0.579762	0.0287
OX_AL	LAG5	10	14.5689	12.18611	0.262428	0.085615	0.039082	0.056192	0.3478
OX_AL	LAG6	10	18.19925	11.10939	0.135807	0.069231	0.035629	0.08389	0.2955
OX_FE	LAG0	5	-10.8135	14.71692	0.503234	0.066146	0.029861	0.091105	0.5509
OX_FE	LAG1	14	3.907964	17.31036	0.8249	0.108859	0.044853	0.030503	0.3118
OX_FE	LAG2	16	11.56352	11.46436	0.329137	0.042685	0.027715	0.144356	0.1365
OX_FE	LAG3	15	55.04903	36.5216	0.153964	0.043211	0.085658	0.621786	0.0179
OX_FE	LAG4	12	9.347551	12.02383	0.453307	0.033707	0.029431	0.276394	0.1065
OX_FE	LAG5	10	38.90417	20.37315	0.088521	-0.01314	0.056087	0.819995	0.0061
OX_FE	LAG6	10	19.06895	16.93437	0.289273	0.048548	0.04662	0.324869	0.1075
TC	LAG0	11	10.74374	43.15402	0.808428	1.39E-05	0.000106	0.898765	0.0017

TC	LAG1	14	123.4743	72.42324	0.111979	-0.0002	0.000176	0.266705	0.0939
TC	LAG2	20	46.2873	56.45691	0.422457	-3.2E-05	0.000136	0.814444	0.003
TC	LAG3	24	204.1102	94.93112	0.042297	-0.00035	0.000228	0.14154	0.0915
TC	LAG4	24	90.80341	36.54826	0.02069	-0.00016	8.79E-05	0.086482	0.1224
TC	LAG5	18	115.5623	42.69012	0.014955	-0.0002	0.000106	0.077478	0.172
TC	LAG6	19	107.4396	40.78896	0.016847	-0.00018	9.95E-05	0.083502	0.1572
TCA	LAG0	11	20.8664	10.08153	0.065309	-5.3E-05	0.000102	0.61433	0.0263
TCA	LAG1	14	29.24767	20.66316	0.180445	0.000145	0.000237	0.549968	0.0282
TCA	LAG2	20	35.00671	15.38387	0.034643	-2.9E-05	0.00019	0.881067	0.0012
TCA	LAG3	24	27.93612	22.31838	0.223257	0.000464	0.000277	0.107194	0.1089
TCA	LAG4	24	16.21824	9.473332	0.100352	0.000126	0.000105	0.240897	0.0593
TCA	LAG5	18	16.29742	13.69789	0.250486	0.000226	0.000134	0.109909	0.1434
TCA	LAG6	19	19.54922	12.67342	0.140341	0.000181	0.000148	0.235314	0.0773
TIP	LAG0	5	39.35894	10.21078	0.01823	-0.07881	0.03159	0.067138	0.6088
TIP	LAG1	14	81.49249	13.75264	5.02E-05	-0.11899	0.03333	0.003422	0.4951
TIP	LAG2	20	43.50355	9.01454	0.000117	-0.02344	0.012824	0.083315	0.1496
TIP	LAG3	22	75.58421	15.02963	5.6E-05	-0.03989	0.021222	0.074071	0.144
TIP	LAG4	19	19.02825	7.656468	0.023002	0.013525	0.010468	0.212683	0.0849
TIP	LAG5	13	48.79768	10.99517	0.00081	-0.01964	0.0126	0.144994	0.1684
TIP	LAG6	17	36.62373	7.799526	0.000243	-0.01295	0.009987	0.213029	0.0951
TN	LAG0	11	3.773261	39.06846	0.924968	0.000487	0.0015	0.752377	0.0104
TN	LAG1	14	63.39568	64.57546	0.344151	-0.00089	0.00244	0.72204	0.0101
TN	LAG2	20	31.34951	50.33792	0.540832	6.14E-05	0.001886	0.974352	0.0001
TN	LAG3	24	151.6099	85.68082	0.090074	-0.00343	0.003203	0.294862	0.0476
TN	LAG4	24	64.49618	32.29744	0.057798	-0.00145	0.001201	0.238986	0.0597
TN	LAG5	18	95.20715	38.79484	0.025201	-0.00226	0.001465	0.14146	0.1227
TN	LAG6	19	80.97385	37.27079	0.043412	-0.00179	0.001381	0.21263	0.0849
TOC	LAG2	2	-2044.61	2971.666	0.616341	0.004796	0.006736	0.606089	0.3364
TOC	LAG3	5	-35.1287	107.3133	0.759821	0.000132	0.000239	0.609432	0.0711
TOC	LAG4	5	-35.2395	160.3108	0.836774	0.000147	0.000357	0.701837	0.0406
TOC	LAG5	1	326.5429			-0.00063			1
TOC	LAG6	5	-133.156	69.97698	0.12981	0.000342	0.000156	0.093236	0.5462
TOTAL_AL	LAG0	11	-7.32699	10.27366	0.492041	0.027187	0.010858	0.031243	0.3853
TOTAL_AL	LAG1	14	14.88502	20.1771	0.473792	0.032958	0.022977	0.17507	0.1366
TOTAL_AL	LAG2	20	18.28782	15.25791	0.245428	0.020989	0.01916	0.287	0.0594
TOTAL_AL	LAG3	24	5.27975	20.78642	0.801753	0.081683	0.027088	0.006163	0.2833
TOTAL_AL	LAG4	24	23.11993	11.10649	0.048691	0.004024	0.014165	0.778884	0.0035
TOTAL_AL	LAG5	18	13.86598	18.32739	0.459664	0.038364	0.02891	0.202041	0.0939
TOTAL_AL	LAG6	19	2.217717	13.32187	0.869641	0.056128	0.022104	0.020558	0.2637
TOTAL_FE	LAG0	11	4.748556	15.64423	0.767704	0.011087	0.014188	0.452652	0.0575
TOTAL_FE	LAG1	14	42.07483	23.00664	0.090454	-0.00178	0.019738	0.929517	0.0006
TOTAL_FE	LAG2	20	8.387238	15.53004	0.595426	0.023769	0.013421	0.092594	0.1417
TOTAL_FE	LAG3	24	30.51802	27.96291	0.286409	0.028881	0.024611	0.25261	0.0565
TOTAL_FE	LAG4	24	14.93377	11.90957	0.222463	0.010639	0.010458	0.319584	0.0431
TOTAL_FE	LAG5	18	20.29929	16.86458	0.245213	0.017128	0.016319	0.308583	0.0609
TOTAL_FE	LAG6	19	15.92241	12.75368	0.227859	0.017608	0.011515	0.143602	0.115
TOTAL_K	LAG0	5	-39.7004	70.63458	0.604082	0.214615	0.258007	0.452287	0.1475
TOTAL_K	LAG1	14	31.93847	42.26674	0.463337	0.026433	0.130573	0.84271	0.0031
TOTAL_K	LAG2	20	20.44444	31.30319	0.521511	0.040095	0.09729	0.684865	0.0089
TOTAL_K	LAG3	22	77.1979	51.87068	0.151542	-0.0656	0.162027	0.689687	0.0077
TOTAL_K	LAG4	19	-8.97151	26.9796	0.743331	0.114248	0.087265	0.20693	0.0869
TOTAL_K	LAG5	13	32.44212	35.96259	0.384749	0.013612	0.10495	0.898956	0.0014

TOTAL_K	LAG6	17	-9.97728	23.95419	0.682567	0.121448	0.071205	0.107414	0.1538
TOTAL_MG	LAG0	11	16.672	17.25361	0.356686	-7.7E-05	0.003777	0.984078	0
TOTAL_MG	LAG1	14	-34.7933	39.05869	0.389229	0.020104	0.010173	0.069733	0.231
TOTAL_MG	LAG2	20	-5.55511	33.90931	0.871601	0.010012	0.008608	0.259171	0.0665
TOTAL_MG	LAG3	24	30.3859	44.55711	0.502078	0.007544	0.010764	0.490428	0.0209
TOTAL_MG	LAG4	24	-15.6455	18.38525	0.403552	0.010284	0.004403	0.028596	0.1917
TOTAL_MG	LAG5	18	-12.2287	26.76759	0.653565	0.010915	0.005824	0.078209	0.1712
TOTAL_MG	LAG6	19	-36.2728	27.86712	0.209455	0.016812	0.006608	0.020352	0.2645
TP	LAG0	11	41.57331	6.269372	5.85E-05	-0.02529	0.005554	0.001052	0.6747
TP	LAG1	14	89.92913	14.86013	4.09E-05	-0.05387	0.014092	0.002114	0.5292
TP	LAG2	20	64.85343	11.60233	2.17E-05	-0.0312	0.009691	0.00451	0.353
TP	LAG3	24	111.512	19.39989	7.44E-06	-0.04883	0.016062	0.005817	0.2866
TP	LAG4	24	32.02755	10.9054	0.007408	-0.00553	0.008736	0.532714	0.0171
TP	LAG5	18	69.41757	12.39789	3.19E-05	-0.02837	0.009336	0.007418	0.352
TP	LAG6	19	51.29685	11.44161	0.000287	-0.01569	0.008769	0.090323	0.1511

UNIVARIATE LAG 0-6
 SOIL
 LOG MOSQUITOFISH THg vs Y
 POOLED STATIONS

independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
LAFDW	LAG1	2	1414.19	978.468	0.38532	-313.922	228.581	0.40067	0.6535
LAFDW	LAG2	5	579.331	171.852	0.02801	-128.601	39.7792	0.03189	0.7232
LAFDW	LAG3	5	859.633	241.835	0.0237	-192.025	55.9784	0.02653	0.7463
LAFDW	LAG4	1	1397.44			-300.059			1
LAFDW	LAG5	5	570.443	130.355	0.01191	-127.526	30.1738	0.01341	0.817
LAFDW	LAG6	5	534.828	279.21	0.12793	-115.69	64.6299	0.14794	0.4448
LASH	LAG0	11	17.1018	37.1395	0.65503	-0.24782	11.8878	0.98378	0
LASH	LAG1	14	-50.6745	69.7384	0.48033	29.1914	22.1704	0.21069	0.1177
LASH	LAG2	17	-21.1818	37.2506	0.5775	15.2981	11.7991	0.21318	0.0951
LASH	LAG3	18	-51.2952	94.9639	0.5961	39.8835	30.3849	0.20676	0.092
LASH	LAG4	18	-43.9728	34.8265	0.22377	22.1574	11.157	0.06341	0.1883
LASH	LAG5	16	-72.7241	48.4421	0.15404	32.4905	14.7636	0.04384	0.2441
LASH	LAG6	13	-19.9687	54.977	0.72276	18.3091	16.8602	0.29884	0.0895
LDRYWT	LAG0	11	-2.62415	27.9422	0.92703	7.93724	11.5075	0.50605	0.0454
LDRYWT	LAG1	14	-20.2613	47.0232	0.67362	26.2219	19.932	0.21105	0.1175
LDRYWT	LAG2	20	3.99099	40.8375	0.92317	12.4152	17.2041	0.4793	0.0267
LDRYWT	LAG3	24	1.55036	68.6073	0.98217	25.412	29.1331	0.39207	0.032
LDRYWT	LAG4	24	19.4286	28.5646	0.50319	2.91055	12.6014	0.81938	0.0023
LDRYWT	LAG5	18	57.7587	53.2352	0.29308	-10.0955	24.8483	0.6896	0.0096
LDRYWT	LAG6	19	72.0734	40.1995	0.08981	-18.0233	18.5296	0.3436	0.0499
LHCL_SRP	LAG0	5	94.0575	37.5188	0.06627	-14.0585	6.55036	0.0984	0.5352
LHCL_SRP	LAG3	1	803.532			-133.486			1
LHCL_SRP	LAG4	4	161.791	87.4625	0.16145	-22.931	14.854	0.22034	0.4427
LHCL_SRP	LAG5	4	272.987	110.433	0.08991	-40.6963	18.7551	0.11847	0.6108
LHCL_SRP	LAG6	1	275.817			-32.6801			1
LK	LAG0	5	303.769	280.36	0.33953	-55.0594	53.2732	0.35975	0.2108
LK	LAG3	1	2064.25			-375.71			1
LK	LAG4	4	790.314	367.405	0.12059	-144.532	69.594	0.1294	0.5898
LK	LAG5	4	1100.81	609.972	0.16889	-202.009	115.541	0.17872	0.5047
LK	LAG6	1	-391.386			85.9599			1
LOX_AL	LAG0	5	-107.3	42.9152	0.06675	22.4593	7.59674	0.0417	0.686
LOX_AL	LAG1	14	-37.3799	55.313	0.51102	14.7003	10.3131	0.17761	0.1352
LOX_AL	LAG2	16	-24.9073	33.0595	0.46287	9.84219	6.1764	0.13189	0.1448
LOX_AL	LAG3	15	-124.674	112.114	0.28486	36.2184	20.5104	0.09921	0.1822
LOX_AL	LAG4	12	20.4546	38.8741	0.60921	0.10219	7.15219	0.98886	0
LOX_AL	LAG5	10	5.01874	54.2251	0.92829	5.8257	10.4608	0.59117	0.0333
LOX_AL	LAG6	10	-9.17976	46.0591	0.84646	8.56539	8.8855	0.36024	0.0936
LOX_FE	LAG0	5	-119.64	72.3952	0.17376	23.2065	12.0986	0.12755	0.4791
LOX_FE	LAG1	14	-46.8034	57.9714	0.43399	15.7202	10.3247	0.15181	0.1513
LOX_FE	LAG2	16	-4.44041	35.9536	0.90335	5.58861	6.29906	0.38897	0.0499
LOX_FE	LAG3	15	-18.0291	177.261	0.92043	15.3973	30.3093	0.61936	0.0181
LOX_FE	LAG4	12	16.8236	37.4768	0.66221	0.75691	6.67789	0.9118	0.0012
LOX_FE	LAG5	10	74.4976	52.0878	0.18644	-7.2882	9.38277	0.45723	0.0628
LOX_FE	LAG6	10	16.9042	46.8191	0.72639	3.22455	8.43369	0.71108	0.016
LTC	LAG0	11	-40.0468	479.791	0.93513	4.37164	37.1991	0.90877	0.0014

LTC	LAG1	14	791.551	786.051	0.33231	-58.2142	60.8999	0.35656	0.0657
LTC	LAG2	20	173.054	613.28	0.78086	-10.8466	47.4824	0.82175	0.0027
LTC	LAG3	24	1728.59	1080.18	0.12319	-129.066	83.577	0.13617	0.0939
LTC	LAG4	24	726.811	389.538	0.07487	-54.2594	30.1537	0.08509	0.1234
LTC	LAG5	18	975.034	463.222	0.05048	-72.9092	35.975	0.05868	0.1946
LTC	LAG6	19	798.751	452.4	0.09442	-59.3142	35.0577	0.1079	0.1372
LTCA	LAG0	11	89.39	104.131	0.41076	-6.51791	9.27971	0.49846	0.047
LTCA	LAG1	14	-89.1795	233.039	0.70814	11.6579	20.9729	0.58775	0.0232
LTCA	LAG2	20	119.164	177.747	0.51066	-7.80388	16.0789	0.63298	0.0122
LTCA	LAG3	24	-313.964	272.218	0.26061	33.9056	24.623	0.18177	0.0762
LTCA	LAG4	24	-46.9779	110.97	0.67598	6.56519	9.98356	0.51732	0.0185
LTCA	LAG5	18	-136.542	158.696	0.40154	15.3618	14.0874	0.29072	0.0654
LTCA	LAG6	19	-136.741	147	0.36457	15.2764	13.189	0.26189	0.0694
LTIP	LAG0	5	130.706	26.0511	0.0074	-21.2565	4.8826	0.01212	0.8257
LTIP	LAG1	14	263.986	47.6778	9.6E-05	-39.9501	8.43655	0.00039	0.633
LTIP	LAG2	20	172.301	40.8249	0.00046	-24.3788	7.06832	0.00269	0.385
LTIP	LAG3	22	295.054	66.8215	0.00024	-41.2156	11.4401	0.00167	0.382
LTIP	LAG4	19	26.7863	43.1676	0.54269	-0.2153	7.36156	0.97699	0
LTIP	LAG5	13	152.731	56.8775	0.01984	-19.1562	9.32962	0.06251	0.26
LTIP	LAG6	17	144.672	38.5552	0.00174	-19.3484	6.44133	0.00841	0.3606
LTN	LAG0	11	-93.5181	345.034	0.79187	10.8247	33.9953	0.75672	0.01
LTN	LAG1	14	171.282	547.159	0.75922	-12.9072	53.8784	0.81441	0.0044
LTN	LAG2	20	7.68176	430.086	0.98594	2.48748	42.2974	0.95372	0.0002
LTN	LAG3	24	957.862	795.391	0.24073	-88.179	78.1567	0.27085	0.0524
LTN	LAG4	24	377.582	271.048	0.17692	-34.5712	26.6417	0.20728	0.0682
LTN	LAG5	18	611.713	324.639	0.07674	-56.6994	31.984	0.09419	0.156
LTN	LAG6	19	413.028	318.723	0.21139	-37.3086	31.3172	0.249	0.0731
LTOC	LAG2	2	-27591.7	38438.6	0.60365	2128.4	2957.51	0.60288	0.3412
LTOC	LAG3	5	-827.437	1441.74	0.59675	65.4638	110.844	0.58655	0.0802
LTOC	LAG4	5	-944.089	2155.28	0.68398	74.9268	165.703	0.67458	0.0486
LTOC	LAG5	1	3433.84			-260.388			
LTOC	LAG6	5	-2068.74	936.234	0.09166	160.574	71.9801	0.08953	0.5544
LTOTAL_A	LAG0	11	-147.521	71.1755	0.065	24.4964	10.6226	0.0438	0.3472
LTOTAL_A	LAG1	14	-128.552	120.195	0.30429	25.9581	18.4246	0.18234	0.1325
LTOTAL_A	LAG2	20	-72.6665	97.4113	0.46481	16.439	15.1163	0.29042	0.0586
LTOTAL_A	LAG3	24	-339.734	130.138	0.01564	62.5825	20.2888	0.00524	0.2926
LTOTAL_A	LAG4	24	-12.8285	67.7973	0.85158	6.0315	10.5236	0.57211	0.0141
LTOTAL_A	LAG5	18	-57.4488	112.876	0.61733	14.9075	17.9054	0.41663	0.0392
LTOTAL_A	LAG6	19	-172.847	84.2881	0.05515	33.0423	13.4782	0.02467	0.2503
LTOTAL_F	LAG0	11	-95.3868	97.8663	0.35271	16.2024	14.1757	0.27968	0.1155
LTOTAL_F	LAG1	14	39.7994	124.441	0.75418	0.06305	18.2389	0.99729	0
LTOTAL_F	LAG2	20	-90.0295	90.7481	0.33363	18.0661	13.2872	0.18985	0.0887
LTOTAL_F	LAG3	24	-165.205	190.899	0.39575	32.9009	27.771	0.24823	0.0575
LTOTAL_F	LAG4	24	-7.21074	70.2757	0.91916	4.85293	10.2669	0.6409	0.0096
LTOTAL_F	LAG5	18	11.7853	102.839	0.91011	3.64556	15.2315	0.8137	0.0034
LTOTAL_F	LAG6	19	-36.9812	77.6098	0.63945	10.3853	11.4202	0.37516	0.0439
LTOTAL_K	LAG0	5	-275.074	361.792	0.48942	52.4809	64.6343	0.46237	0.1415
LTOTAL_K	LAG1	14	-76.9106	246.156	0.75966	20.4861	43.0114	0.64177	0.0172
LTOTAL_K	LAG2	20	-93.9536	180.663	0.60904	22.2052	31.58	0.49049	0.0254
LTOTAL_K	LAG3	22	147.45	304.42	0.63314	-15.8681	53.2316	0.76856	0.0042
LTOTAL_K	LAG4	19	-179.847	154.766	0.26039	36.1096	27.1916	0.20078	0.0892
LTOTAL_K	LAG5	13	-36.0443	203.976	0.86268	12.6406	35.2828	0.72637	0.0106

LTOTAL_K	LAG6	17	-234.346	133.649	0.09866	45.8272	23.1708	0.06544	0.1965
LTOTAL_M	LAG0	11	7.62827	145.004	0.95908	1.04451	17.3846	0.95327	0.0004
LTOTAL_M	LAG1	14	-595.468	344.248	0.10733	77.5372	41.9733	0.08758	0.2079
LTOTAL_M	LAG2	20	-322.212	287.741	0.27676	43.1403	34.9378	0.23197	0.0743
LTOTAL_M	LAG3	24	-116.282	411.944	0.78026	21.3967	49.8216	0.67158	0.008
LTOTAL_M	LAG4	24	-366.215	164.546	0.03613	47.3826	19.8748	0.02576	0.1982
LTOTAL_M	LAG5	18	-359.34	237.6	0.14881	47.2708	28.374	0.11403	0.1404
LTOTAL_M	LAG6	19	-546.541	236.818	0.0331	69.768	28.4831	0.02477	0.25
LTP	LAG0	11	165.727	25.4386	6.8E-05	-22.2191	3.76623	0.00015	0.7768
LTP	LAG1	14	379.248	63.3343	4.5E-05	-50.9558	9.47877	0.00013	0.6897
LTP	LAG2	20	263.067	60.3111	0.00034	-34.1431	8.91006	0.00112	0.4359
LTP	LAG3	24	434.539	99.8231	0.00023	-55.2317	14.6813	0.00101	0.3809
LTP	LAG4	24	112.443	58.4485	0.06684	-12.6241	8.49768	0.15097	0.0876
LTP	LAG5	18	251.543	64.4717	0.00115	-31.2236	9.31712	0.00379	0.3978
LTP	LAG6	19	172.331	61.0446	0.01127	-20.2157	8.84836	0.03469	0.2248

UNIVARIATE LAG 0-6
 SOIL
 MOSQUITOFISH THg vs LOG Y
 POOLED STATIONS

independent	month lag	df	intercept	se_int	p value intercept	slope	se_slope	p value slope	r_square
AFDW	LAG1	2	9.98339	9.14011	0.47195	-0.08769	0.12454	0.60945	0.3314
AFDW	LAG2	5	7.36119	2.16407	0.02724	-0.05942	0.02836	0.10424	0.5232
AFDW	LAG3	5	8.45005	2.06674	0.01499	-0.0717	0.02709	0.05718	0.6365
AFDW	LAG4	1	8.76679			-0.05427			1
AFDW	LAG5	5	10.6135	3.21314	0.02984	-0.11024	0.04211	0.05895	0.6314
AFDW	LAG6	5	6.56308	3.03487	0.09661	-0.04362	0.03978	0.33438	0.2312
ASH	LAG0	11	2.11405	0.76901	0.02051	0.00576	0.02828	0.84255	0.0041
ASH	LAG1	14	2.70722	0.61647	0.00073	0.01891	0.02149	0.39481	0.0562
ASH	LAG2	17	2.47663	0.40845	1.6E-05	0.01878	0.01414	0.20278	0.0993
ASH	LAG3	18	3.60362	0.45409	4.07E-07	0.01457	0.01644	0.38764	0.0442
ASH	LAG4	18	1.82654	0.50967	0.00229	0.03414	0.0181	0.0765	0.173
ASH	LAG5	16	1.83271	0.58944	0.00718	0.0384	0.01812	0.05121	0.2304
ASH	LAG6	13	2.86939	0.50096	9.5E-05	0.01855	0.01601	0.26902	0.1007
DRYWT	LAG0	11	2.42087	0.83991	0.01632	-0.01385	0.06395	0.83293	0.0047
DRYWT	LAG1	14	2.49159	0.67366	0.00268	0.06114	0.05374	0.27575	0.0906
DRYWT	LAG2	20	2.72634	0.56493	0.00012	0.02842	0.0462	0.54574	0.0195
DRYWT	LAG3	24	3.31081	0.5487	3.74E-06	0.03518	0.04639	0.45591	0.0244
DRYWT	LAG4	24	2.94747	0.5533	2.1E-05	-0.01927	0.04987	0.70266	0.0065
DRYWT	LAG5	18	3.42676	1.0329	0.00407	-0.04087	0.11378	0.72391	0.0075
DRYWT	LAG6	19	3.78861	0.87538	0.00041	-0.08187	0.09307	0.39062	0.0412
HCL_SRP	LAG0	5	3.19796	0.49641	0.00299	-0.00246	0.00112	0.09314	0.5464
HCL_SRP	LAG3	1	5.94425			-0.00694			1
HCL_SRP	LAG4	4	3.5045	0.77375	0.02014	-0.00109	0.0016	0.54443	0.1341
HCL_SRP	LAG5	4	4.0248	0.80963	0.01564	-0.00206	0.00168	0.30783	0.3336
HCL_SRP	LAG6	1	4.69412			-0.0008			1
K	LAG0	5	6.46708	3.20436	0.11373	-0.02152	0.01643	0.26048	0.3001
K	LAG3	1	8.32548			-0.02013			1
K	LAG4	4	8.76863	2.0173	0.02248	-0.029	0.01017	0.06503	0.7305
K	LAG5	4	9.33183	2.94552	0.05055	-0.03125	0.01485	0.12605	0.5961
K	LAG6	1	2.85371			0.00641			1
OX_AL	LAG0	5	0.68664	0.67757	0.36819	0.00444	0.00163	0.05289	0.6494
OX_AL	LAG1	14	2.51014	0.41444	4.1E-05	0.00237	0.00113	0.05572	0.2535
OX_AL	LAG2	16	2.4083	0.29178	5.85E-07	0.00199	0.00083	0.02954	0.2783
OX_AL	LAG3	15	3.4927	0.35266	1.05E-07	0.00161	0.00097	0.11968	0.164
OX_AL	LAG4	12	1.95671	0.54252	0.00412	0.00152	0.00141	0.3035	0.0958
OX_AL	LAG5	10	2.40584	0.58954	0.00275	0.00248	0.00189	0.22288	0.16
OX_AL	LAG6	10	2.80952	0.38377	4.5E-05	0.00176	0.00123	0.18642	0.1852
OX_FE	LAG0	5	0.22478	0.99883	0.83298	0.00447	0.00203	0.09191	0.5491
OX_FE	LAG1	14	2.10424	0.49651	0.00097	0.00323	0.00129	0.0259	0.3271
OX_FE	LAG2	16	2.37002	0.41405	4E-05	0.00161	0.001	0.1283	0.1473
OX_FE	LAG3	15	4.1154	0.53495	2.15E-06	-0.00041	0.00125	0.75138	0.0074
OX_FE	LAG4	12	1.67515	0.61155	0.01926	0.00214	0.0015	0.18045	0.1568
OX_FE	LAG5	10	3.49591	0.84944	0.00262	-0.0016	0.00234	0.51217	0.0492
OX_FE	LAG6	10	2.79644	0.55226	0.00068	0.00135	0.00152	0.3993	0.08
TC	LAG0	11	2.48477	2.86646	0.40635	#####	7.07E-06	0.93714	0.0007

TC	LAG1	14	5.2235	2.13172	0.02919	#####	5.18E-06	0.35154	0.067
TC	LAG2	20	4.37729	1.61749	0.014	#####	3.90E-06	0.41704	0.035
TC	LAG3	24	5.42401	1.71527	0.00435	#####	4.12E-06	0.32154	0.0427
TC	LAG4	24	6.01041	1.56482	0.00083	#####	3.77E-06	0.04684	0.161
TC	LAG5	18	5.51941	1.75092	0.00581	#####	4.36E-06	0.17481	0.1055
TC	LAG6	19	6.05494	1.81661	0.0037	#####	4.43E-06	0.11265	0.1339
TCA	LAG0	11	2.34061	0.67756	0.00618	#####	6.84E-06	0.88616	0.0022
TCA	LAG1	14	3.07752	0.60706	0.00021	1.40E-06	6.95E-06	0.84356	0.0031
TCA	LAG2	20	3.02126	0.44821	1.93E-06	3.69E-07	5.54E-06	0.94769	0.0002
TCA	LAG3	24	3.29263	0.40471	3.21E-08	5.76E-06	5.02E-06	0.26257	0.0542
TCA	LAG4	24	2.2852	0.41211	1.2E-05	6.08E-06	4.57E-06	0.19608	0.0716
TCA	LAG5	18	2.43717	0.5565	0.00041	7.16E-06	5.45E-06	0.20677	0.092
TCA	LAG6	19	2.47216	0.55881	0.00033	7.61E-06	6.52E-06	0.25779	0.0705
TIP	LAG0	5	3.72709	0.60064	0.00343	-0.00574	0.00186	0.03652	0.7049
TIP	LAG1	14	4.58262	0.31928	2.38E-09	-0.00403	0.00077	0.00017	0.6766
TIP	LAG2	20	3.44926	0.24539	1.72E-11	-0.00089	0.00035	0.01903	0.2569
TIP	LAG3	22	4.12581	0.23206	3.89E-14	-0.00107	0.00033	0.00359	0.3384
TIP	LAG4	19	2.55162	0.35288	1.00E-06	0.00026	0.00048	0.59479	0.016
TIP	LAG5	13	3.84769	0.38829	3.95E-07	-0.00135	0.00044	0.01043	0.4338
TIP	LAG6	17	3.17222	0.36824	2.10E-07	-0.00046	0.00047	0.343	0.0563
TN	LAG0	11	1.66161	2.60046	0.5372	2.3E-05	1E-04	0.82272	0.0053
TN	LAG1	14	3.63548	1.87836	0.07499	-1.7E-05	7.1E-05	0.8111	0.0046
TN	LAG2	20	3.81045	1.4552	0.0169	-2.9E-05	5.5E-05	0.60198	0.0146
TN	LAG3	24	5.80476	1.48044	0.00068	-7.9E-05	5.5E-05	0.16458	0.0822
TN	LAG4	24	4.9194	1.38492	0.0017	-8.2E-05	5.2E-05	0.12685	0.0984
TN	LAG5	18	4.99616	1.56405	0.00531	-7.4E-05	5.9E-05	0.22786	0.0843
TN	LAG6	19	5.44776	1.6135	0.00336	-9E-05	6E-05	0.15038	0.1114
TOC	LAG2	2	-75.9494	58.6072	0.4184	0.00018	0.00013	0.40419	0.6482
TOC	LAG3	5	-1.27548	3.84271	0.75661	9.26E-06	8.56E-06	0.34033	0.2262
TOC	LAG4	5	-1.48309	4.20898	0.74235	1E-05	9.38E-06	0.34287	0.2242
TOC	LAG5	1	8.16036			#####			1
TOC	LAG6	5	-8.79581	4.85405	0.1442	2.5E-05	1.1E-05	0.08396	0.5671
TOTAL_AL	LAG0	11	0.80843	0.71391	0.28389	0.00166	0.00075	0.05225	0.3266
TOTAL_AL	LAG1	14	2.19019	0.54573	0.00147	0.00129	0.00062	0.05805	0.2494
TOTAL_AL	LAG2	20	2.42826	0.42867	1.8E-05	0.00088	0.00054	0.11667	0.1245
TOTAL_AL	LAG3	24	2.76115	0.37114	1.46E-07	0.00138	0.00048	0.00882	0.2626
TOTAL_AL	LAG4	24	2.49058	0.4833	3.2E-05	0.00038	0.00062	0.54811	0.0159
TOTAL_AL	LAG5	18	2.37994	0.7378	0.00496	0.00118	0.00116	0.3251	0.057
TOTAL_AL	LAG6	19	1.83357	0.60658	0.00731	0.0022	0.00101	0.04265	0.2091
TOTAL_FE	LAG0	11	1.51777	1.04122	0.1756	0.00071	0.00094	0.47246	0.0528
TOTAL_FE	LAG1	14	2.98376	0.66467	0.00061	0.00019	0.00057	0.74126	0.0087
TOTAL_FE	LAG2	20	2.46677	0.46486	4E-05	0.00056	0.0004	0.17848	0.0932
TOTAL_FE	LAG3	24	2.95247	0.47743	2.61E-06	0.00072	0.00042	0.10162	0.1122
TOTAL_FE	LAG4	24	2.56987	0.53146	7E-05	0.00018	0.00047	0.70902	0.0062
TOTAL_FE	LAG5	18	2.56674	0.67334	0.00139	0.00054	0.00065	0.42019	0.0386
TOTAL_FE	LAG6	19	2.42205	0.57197	0.0005	0.00064	0.00052	0.23392	0.0777
TOTAL_K	LAG0	5	0.03457	5.06414	0.99488	0.00802	0.0185	0.68685	0.0449
TOTAL_K	LAG1	14	2.8619	1.22452	0.03608	0.00102	0.00378	0.79069	0.0056
TOTAL_K	LAG2	20	2.2512	0.89612	0.02119	0.00255	0.00279	0.37173	0.0422
TOTAL_K	LAG3	22	3.88759	0.91255	0.00035	-0.00086	0.00285	0.76553	0.0043
TOTAL_K	LAG4	19	0.05653	1.08403	0.95899	0.00868	0.00351	0.02351	0.2539
TOTAL_K	LAG5	13	3.21881	1.53922	0.05845	-0.00055	0.00449	0.90411	0.0013

TOTAL_K	LAG6	17	1.40786	1.13875	0.23418	0.00465	0.00338	0.18883	0.1053
TOTAL_MG	LAG0	11	1.52356	1.11958	0.20345	0.00017	0.00025	0.50951	0.0447
TOTAL_MG	LAG1	14	1.78371	1.22873	0.1703	0.00038	0.00032	0.26221	0.0956
TOTAL_MG	LAG2	20	1.64571	0.96756	0.10527	0.00036	0.00025	0.15448	0.1037
TOTAL_MG	LAG3	24	3.28855	0.78768	0.00036	0.0001	0.00019	0.59585	0.0124
TOTAL_MG	LAG4	24	0.76073	0.78604	0.34321	0.00049	0.00019	0.01541	0.2295
TOTAL_MG	LAG5	18	1.3648	1.0787	0.22286	0.00038	0.00023	0.12074	0.1357
TOTAL_MG	LAG6	19	0.51489	1.29116	0.69475	0.00061	0.00031	0.06076	0.1819
TP	LAG0	11	4.04676	0.34856	3.98E-07	-0.0018	0.00031	0.00017	0.7719
TP	LAG1	14	4.79894	0.36383	6.67E-09	-0.00175	0.00035	0.00021	0.6646
TP	LAG2	20	4.22817	0.2751	3.58E-12	-0.00116	0.00023	7.4E-05	0.5711
TP	LAG3	24	4.84841	0.29385	3.06E-14	-0.0011	0.00024	0.00015	0.4717
TP	LAG4	24	3.22676	0.46849	5.06E-07	-0.00043	0.00038	0.26354	0.054
TP	LAG5	18	4.74599	0.39402	9.50E-10	-0.00144	0.0003	0.00015	0.5797
TP	LAG6	19	3.90948	0.4943	2.88E-07	-0.00075	0.00038	0.06301	0.1791

SOIL
SPEARMAN
CO-CORRELATION
POOLED STATIONS

independent	month	df	intercept	se_int	p value	slope	se_slope	p value	r_square
	lag				intercept			slope	
LAFDW	LAG1	2	29.90694	36.53371	0.563287	-6.14846	8.534665	0.602563	0.3417
LAFDW	LAG2	5	22.05615	8.488963	0.060161	-4.44472	1.964974	0.086491	0.5612
LAFDW	LAG3	5	25.8702	8.117555	0.033313	-5.29095	1.879002	0.048031	0.6647
LAFDW	LAG4	1	24.53889			-4.58916			1
LAFDW	LAG5	5	36.5742	13.18668	0.050147	-7.9444	3.052374	0.059878	0.6287
LAFDW	LAG6	5	17.47385	12.2382	0.226528	-3.2914	2.832824	0.309888	0.2523
LASH	LAG0	11	2.211454	2.465674	0.390855	0.013948	0.789223	0.986247	0
LASH	LAG1	14	1.82216	2.119556	0.405535	0.437112	0.673824	0.527824	0.0314
LASH	LAG2	17	1.664682	1.380881	0.245529	0.412943	0.437395	0.359159	0.0528
LASH	LAG3	18	3.0013	1.487738	0.059731	0.310347	0.476021	0.523144	0.0244
LASH	LAG4	18	-0.17364	1.786637	0.923713	0.919129	0.572367	0.126724	0.1317
LASH	LAG5	16	-0.69578	2.016811	0.734893	1.119163	0.614659	0.088645	0.181
LASH	LAG6	13	1.526778	1.735773	0.396352	0.57594	0.532322	0.300543	0.0889
LDRYWT	LAG0	11	2.497529	1.897067	0.217374	-0.1017	0.781276	0.899014	0.0017
LDRYWT	LAG1	14	1.713681	1.390851	0.239729	0.637091	0.589547	0.299496	0.0824
LDRYWT	LAG2	20	2.406095	1.196098	0.058661	0.274678	0.503894	0.592019	0.0154
LDRYWT	LAG3	24	3.448379	1.226289	0.009892	0.107477	0.520725	0.838296	0.0018
LDRYWT	LAG4	24	3.022941	1.250937	0.024006	-0.12153	0.551856	0.82764	0.0021
LDRYWT	LAG5	18	4.009358	2.098346	0.073055	-0.44236	0.979432	0.657232	0.0119
LDRYWT	LAG6	19	5.028209	1.749703	0.010102	-0.92029	0.806509	0.268791	0.0675
LHCL_SRP	LAG0	5	8.191979	2.027183	0.01559	-1.0364	0.353924	0.042886	0.6819
LHCL_SRP	LAG3	1	11.51896			-1.3204			1
LHCL_SRP	LAG4	4	6.954029	3.555705	0.145456	-0.66633	0.603877	0.350409	0.2887
LHCL_SRP	LAG5	4	9.437249	3.473205	0.072724	-1.06971	0.589865	0.167406	0.523
LHCL_SRP	LAG6	1	7.384554			-0.49982			1
LK	LAG0	5	24.48255	17.3695	0.231482	-4.21685	3.300502	0.27049	0.2898
LK	LAG3	1	23.98957			-3.7164			1
LK	LAG4	4	33.58572	10.73087	0.052073	-5.78523	2.032644	0.065315	0.7297
LK	LAG5	4	35.96716	15.73207	0.106324	-6.21368	2.979971	0.12837	0.5917
LK	LAG6	1	-2.81978			1.314687			1
LOX_AL	LAG0	5	-6.47528	2.78309	0.080547	1.550068	0.492656	0.034635	0.7122
LOX_AL	LAG1	14	0.377094	1.533457	0.809591	0.53155	0.285912	0.085786	0.21
LOX_AL	LAG2	16	1.034726	1.198058	0.401369	0.36368	0.223829	0.125025	0.1497
LOX_AL	LAG3	15	1.003642	1.621172	0.545804	0.545274	0.29658	0.087289	0.1945
LOX_AL	LAG4	12	1.873667	2.028498	0.375474	0.101204	0.37321	0.791279	0.0066
LOX_AL	LAG5	10	1.78045	2.315156	0.461573	0.236933	0.446628	0.608609	0.0303
LOX_AL	LAG6	10	2.015112	1.498989	0.211748	0.237059	0.289178	0.433521	0.0695
LOX_FE	LAG0	5	-8.09959	4.396996	0.139263	1.731344	0.734818	0.07799	0.5812
LOX_FE	LAG1	14	1.12618	1.731239	0.526696	0.371578	0.308335	0.24964	0.1005
LOX_FE	LAG2	16	2.028985	1.318481	0.14466	0.164259	0.230998	0.487941	0.0326
LOX_FE	LAG3	15	4.953569	2.592734	0.07676	-0.17065	0.443324	0.706078	0.0105
LOX_FE	LAG4	12	2.061029	1.960228	0.315614	0.064187	0.349288	0.857542	0.0031
LOX_FE	LAG5	10	4.81249	2.208739	0.057283	-0.33422	0.397868	0.422644	0.0727

LOX_FE	LAG6	10	3.077405	1.515205	0.072815	0.026866	0.272939	0.923746	0.0011
LTC	LAG0	11	6.823388	31.84212	0.834629	-0.35425	2.46878	0.888753	0.0021
LTC	LAG1	14	23.15224	22.92941	0.331055	-1.54724	1.776474	0.399575	0.0551
LTC	LAG2	20	17.68194	17.56577	0.326769	-1.13316	1.360008	0.415084	0.0352
LTC	LAG3	24	24.99352	19.47471	0.212139	-1.64778	1.506815	0.285472	0.0494
LTC	LAG4	24	37.1677	16.7454	0.036588	-2.66429	1.296242	0.051367	0.1552
LTC	LAG5	18	32.45936	19.07996	0.107117	-2.28263	1.4818	0.141858	0.1225
LTC	LAG6	19	35.05301	20.02349	0.097041	-2.47995	1.551673	0.127395	0.1243
LTCA	LAG0	11	5.53201	7.00523	0.448025	-0.29241	0.624275	0.649546	0.0215
LTCA	LAG1	14	4.041926	6.835528	0.564453	-0.07735	0.61518	0.901868	0.0012
LTCA	LAG2	20	5.483665	5.178017	0.302866	-0.22059	0.4684	0.643042	0.0115
LTCA	LAG3	24	0.448537	4.938788	0.928423	0.294167	0.446728	0.51676	0.0185
LTCA	LAG4	24	-1.03292	4.840631	0.832906	0.340869	0.435495	0.441779	0.0259
LTCA	LAG5	18	-2.54199	6.332692	0.693121	0.498738	0.562152	0.387354	0.0443
LTCA	LAG6	19	-3.1482	6.532649	0.635672	0.556822	0.586116	0.354684	0.0477
LTIP	LAG0	5	9.768066	1.807501	0.005676	-1.43235	0.338769	0.01339	0.8172
LTIP	LAG1	14	9.965251	1.268823	2.73E-06	-1.21085	0.224517	0.000123	0.6911
LTIP	LAG2	20	7.921177	1.010648	2.27E-07	-0.8528	0.174981	0.000105	0.5556
LTIP	LAG3	22	8.280874	1.082727	1.68E-07	-0.8063	0.185368	0.000282	0.4739
LTIP	LAG4	19	4.14005	1.886863	0.041591	-0.25191	0.321775	0.443874	0.0329
LTIP	LAG5	13	9.646365	2.07369	0.000559	-1.09402	0.340148	0.007405	0.463
LTIP	LAG6	17	7.501948	1.9081	0.001192	-0.77014	0.318782	0.028018	0.2673
LTN	LAG0	11	-1.45198	22.99247	0.950891	0.36524	2.265387	0.875126	0.0026
LTN	LAG1	14	6.86394	15.87379	0.672532	-0.36249	1.563082	0.820219	0.0041
LTN	LAG2	20	9.524246	12.43719	0.453212	-0.63708	1.22315	0.608485	0.0141
LTN	LAG3	24	23.9234	13.75017	0.09525	-1.98759	1.351119	0.154823	0.086
LTN	LAG4	24	21.29443	11.67168	0.081102	-1.82287	1.147226	0.125727	0.0989
LTN	LAG5	18	21.70706	13.19131	0.118216	-1.83649	1.299631	0.175679	0.1051
LTN	LAG6	19	22.4779	13.80412	0.120828	-1.90897	1.356372	0.176341	0.0991
LTOC	LAG2	2	-1033.04	755.61	0.402036	79.76069	58.13747	0.400981	0.653
LTOC	LAG3	5	-55.3563	51.29492	0.341239	4.476178	3.943685	0.319766	0.2436
LTOC	LAG4	5	-61.1179	55.97816	0.336267	4.931452	4.303745	0.315749	0.2471
LTOC	LAG5	1	55.68399			-3.98242			1
LTOC	LAG6	5	-151.228	63.47768	0.075793	11.80154	4.880328	0.072906	0.5938
LTOTAL_A	LAG0	11	-8.8704	4.667279	0.086544	1.663185	0.696568	0.038109	0.3631
LTOTAL_A	LAG1	14	-3.51465	3.246232	0.298622	1.030136	0.497612	0.058913	0.2479
LTOTAL_A	LAG2	20	-1.12332	2.761735	0.688741	0.649013	0.428566	0.146388	0.1077
LTOTAL_A	LAG3	24	-3.28228	2.299445	0.166895	1.091289	0.358488	0.00576	0.2872
LTOTAL_A	LAG4	24	0.732211	2.959898	0.806811	0.314394	0.459438	0.500623	0.02
LTOTAL_A	LAG5	18	-0.17324	4.475216	0.969572	0.515633	0.709895	0.477506	0.0301
LTOTAL_A	LAG6	19	-5.9115	3.715996	0.129058	1.436247	0.59421	0.026482	0.245
LTOTAL_F	LAG0	11	-6.1357	6.377483	0.358692	1.216803	0.923765	0.217147	0.1479
LTOTAL_F	LAG1	14	2.628237	3.606381	0.479064	0.081649	0.528576	0.879611	0.0018
LTOTAL_F	LAG2	20	0.481106	2.704525	0.860693	0.376913	0.395993	0.353142	0.0455
LTOTAL_F	LAG3	24	-1.48403	3.287578	0.655926	0.755159	0.47826	0.127998	0.0978
LTOTAL_F	LAG4	24	2.883663	3.092065	0.360714	-0.0193	0.451735	0.966297	0.0001
LTOTAL_F	LAG5	18	2.020409	4.056948	0.624857	0.155955	0.600875	0.798331	0.0039
LTOTAL_F	LAG6	19	0.771548	3.445076	0.825313	0.336698	0.506939	0.514994	0.0239
LTOTAL_K	LAG0	5	-8.91335	25.85702	0.747669	1.988522	4.619366	0.68903	0.0443
LTOTAL_K	LAG1	14	-1.32378	7.092856	0.854828	0.78824	1.239348	0.535806	0.0302
LTOTAL_K	LAG2	20	-3.60244	5.105684	0.489014	1.163353	0.892476	0.207975	0.0821
LTOTAL_K	LAG3	22	4.388842	5.355084	0.421669	-0.13464	0.936402	0.887039	0.001

LTOTAL_K	LAG4	19	-13.2207	6.15585	0.045607	2.795122	1.08155	0.018704	0.2706
LTOTAL_K	LAG5	13	1.922444	8.770364	0.83018	0.192631	1.517054	0.901061	0.0013
LTOTAL_K	LAG6	17	-7.14856	6.415251	0.281606	1.748472	1.112214	0.135499	0.1338
LTOTAL_M	LAG0	11	-5.15867	9.338316	0.592793	0.889343	1.119578	0.445431	0.0594
LTOTAL_M	LAG1	14	-8.19788	10.76653	0.459995	1.388191	1.312734	0.309547	0.0792
LTOTAL_M	LAG2	20	-9.00747	8.25794	0.289017	1.464162	1.002688	0.160564	0.1009
LTOTAL_M	LAG3	24	2.572554	7.276189	0.726891	0.136164	0.88	0.878382	0.001
LTOTAL_M	LAG4	24	-16.5191	6.970355	0.026561	2.328564	0.841917	0.011	0.2496
LTOTAL_M	LAG5	18	-11.0404	9.515165	0.261964	1.685834	1.136294	0.156212	0.1146
LTOTAL_M	LAG6	19	-17.3271	11.01075	0.132979	2.451813	1.32431	0.080592	0.16
LTP	LAG0	11	12.19559	1.675152	2.66E-05	-1.47853	0.248009	0.000139	0.7804
LTP	LAG1	14	13.11347	1.796605	6.01E-06	-1.49253	0.268884	9.37E-05	0.7033
LTP	LAG2	20	11.23266	1.382416	1.33E-07	-1.2146	0.204231	1E-05	0.6505
LTP	LAG3	24	10.88415	1.650127	9.92E-07	-1.06132	0.24269	0.000222	0.454
LTP	LAG4	24	7.521794	2.48652	0.006025	-0.69593	0.361508	0.066674	0.1388
LTP	LAG5	18	12.64573	2.304941	4.01E-05	-1.38921	0.333098	0.000641	0.5057
LTP	LAG6	19	9.516912	2.634215	0.00199	-0.94049	0.381827	0.024081	0.2521

var1	var2	corr	n	pvalue	fishersz	sigmaz	l95	u95
AFDW	ASH	-0.94286	6	0.004805	-1.76318	0.57735	-0.9939	-0.55913
AFDW	DRYWT	-0.37143	6	0.468478	-0.39008	0.57735	-0.90899	0.630067
AFDW	HCL_SRP		0					
AFDW	K		0					
AFDW	OX_AL	0.6	5	0.284757	0.693147	0.707107	-0.59977	0.969209
AFDW	OX_FE	0.5	5	0.391002	0.549306	0.707107	-0.68402	0.959154
AFDW	TC	0.885714	6	0.018845	1.40168	0.57735	0.263693	0.987471
AFDW	TCA	-0.94286	6	0.004805	-1.76318	0.57735	-0.9939	-0.55913
AFDW	TIP	0.714286	6	0.110787	0.89588	0.57735	-0.23146	0.965919
AFDW	TN	0.771429	6	0.072397	1.023846	0.57735	-0.10734	0.973513
AFDW	TOC		0					
AFDW	TOTAL_A	-0.02857	6	0.957155	-0.02858	0.57735	-0.8211	0.801584
AFDW	L							
AFDW	TOTAL_F	-0.11595	6	0.826848	-0.11648	0.57735	-0.84775	0.767875
AFDW	E							
AFDW	TOTAL_K	-0.14286	6	0.787172	-0.14384	0.57735	-0.85527	0.756408
AFDW	TOTAL_M	-0.81168	6	0.049858	-1.13193	0.57735	-0.97861	-0.00033
AFDW	G							
AFDW	TP	0.714286	6	0.110787	0.89588	0.57735	-0.23146	0.965919
ASH	DRYWT	0.030435	24	0.887734	0.030444	0.218218	-0.3776	0.428576
ASH	HCL_SRP	0.257143	6	0.622787	0.263047	0.57735	-0.70064	0.88419
ASH	K	-0.37143	6	0.468478	-0.39008	0.57735	-0.90899	0.630067
ASH	OX_AL	-0.60049	17	0.010808	-0.69391	0.267261	-0.83899	-0.16846
ASH	OX_FE	-0.2195	17	0.39729	-0.22313	0.267261	-0.63333	0.291957
ASH	TC	-0.91478	24	3.98E-10	-1.55608	0.218218	-0.96286	-0.81046
ASH	TCA	0.953893	24	5.57E-13	1.873308	0.218218	0.89482	0.980136
ASH	TIP	-0.06089	18	0.81033	-0.06096	0.258199	-0.51318	0.417869
ASH	TN	-0.56	24	0.00443	-0.63283	0.218218	-0.78587	-0.2023
ASH	TOC		0					
ASH	TOTAL_A	-0.23826	24	0.262218	-0.24293	0.218218	-0.5854	0.182703
ASH	L							
ASH	TOTAL_F	-0.36842	24	0.076486	-0.38659	0.218218	-0.67196	0.041089
ASH	E							
ASH	TOTAL_K	0.178812	18	0.477751	0.180755	0.258199	-0.3143	0.595938
ASH	TOTAL_M	0.605046	24	0.001734	0.701069	0.218218	0.26675	0.8106
ASH	G							
ASH	TP	-0.14174	24	0.508832	-0.1427	0.218218	-0.51566	0.277533
DRYWT	HCL_SRP	-0.54286	6	0.265703	-0.6082	0.57735	-0.9402	0.480327
DRYWT	K	-0.48571	6	0.328723	-0.53044	0.57735	-0.93049	0.537882
DRYWT	OX_AL	0.171569	17	0.510266	0.173282	0.267261	-0.33686	0.602533
DRYWT	OX_FE	0.516248	17	0.033878	0.571211	0.267261	0.047343	0.798711
DRYWT	TC	-0.07187	30	0.705886	-0.07199	0.19245	-0.42123	0.296075
DRYWT	TCA	-0.12639	30	0.50571	-0.12707	0.19245	-0.46547	0.245043
DRYWT	TIP	-0.16609	24	0.437967	-0.16764	0.218218	-0.53373	0.254358
DRYWT	TN	-0.08699	30	0.647626	-0.08721	0.19245	-0.43367	0.282131
DRYWT	TOC	-0.48571	6	0.328723	-0.53044	0.57735	-0.93049	0.537882
DRYWT	TOTAL_A	0.157098	30	0.407067	0.15841	0.19245	-0.21537	0.48966
DRYWT	L							
DRYWT	TOTAL_F	0.058084	30	0.760459	0.058149	0.19245	-0.30865	0.409784
DRYWT	E							
DRYWT	TOTAL_K	-0.26844	24	0.204694	-0.27518	0.218218	-0.6062	0.151357

DRYWT	TOTAL_M	-0.17538	30	0.35392	-0.17722	0.19245	-0.50382	0.197362
	G							
DRYWT	TP	-0.00912	30	0.961846	-0.00912	0.19245	-0.36819	0.352312
HCL_SRP	K	0.6	6	0.208	0.693147	0.57735	-0.41237	0.94931
HCL_SRP	OX_AL		0					
HCL_SRP	OX_FE		0					
HCL_SRP	TC	-0.31429	6	0.544093	-0.32529	0.57735	-0.89705	0.667551
HCL_SRP	TCA	0.142857	6	0.787172	0.143841	0.57735	-0.75641	0.855267
HCL_SRP	TIP		0					
HCL_SRP	TN	0.885714	6	0.018845	1.40168	0.57735	0.263693	0.987471
HCL_SRP	TOC		0					
HCL_SRP	TOTAL_A	0.142857	6	0.787172	0.143841	0.57735	-0.75641	0.855267
	L							
HCL_SRP	TOTAL_F	-0.25714	6	0.622787	-0.26305	0.57735	-0.88419	0.700642
	E							
HCL_SRP	TOTAL_K		0					
HCL_SRP	TOTAL_M	-0.37143	6	0.468478	-0.39008	0.57735	-0.90899	0.630067
	G							
HCL_SRP	TP	1	6	0				
K	OX_AL		0					
K	OX_FE		0					
K	TC	0.314286	6	0.544093	0.325294	0.57735	-0.66755	0.897049
K	TCA	-0.25714	6	0.622787	-0.26305	0.57735	-0.88419	0.700642
K	TIP		0					
K	TN	0.6	6	0.208	0.693147	0.57735	-0.41237	0.94931
K	TOC		0					
K	TOTAL_A	-0.6	6	0.208	-0.69315	0.57735	-0.94931	0.412367
	L							
K	TOTAL_F	-0.42857	6	0.396501	-0.45815	0.57735	-0.92011	0.587252
	E							
K	TOTAL_K		0					
K	TOTAL_M	-0.54286	6	0.265703	-0.6082	0.57735	-0.9402	0.480327
	G							
K	TP	0.6	6	0.208	0.693147	0.57735	-0.41237	0.94931
OX_AL	OX_FE	0.641324	17	0.005526	0.76042	0.267261	0.232271	0.857614
OX_AL	TC	0.54902	17	0.022461	0.616977	0.267261	0.092876	0.814686
OX_AL	TCA	-0.69283	17	0.002049	-0.85337	0.267261	-0.88032	-0.31811
OX_AL	TIP	-0.52941	17	0.028856	-0.58933	0.267261	-0.80518	-0.0654
OX_AL	TN	0.612745	17	0.008919	0.713305	0.267261	0.187238	0.844637
OX_AL	TOC		0					
OX_AL	TOTAL_A	0.867647	17	6.43E-06	1.323481	0.267261	0.663841	0.951492
	L							
OX_AL	TOTAL_F	0.803188	17	0.000103	1.107532	0.267261	0.52535	0.926256
	E							
OX_AL	TOTAL_K	-0.08717	17	0.739384	-0.08739	0.267261	-0.54499	0.410689
OX_AL	TOTAL_M	-0.15686	17	0.547681	-0.15817	0.267261	-0.59282	0.350193
	G							
OX_AL	TP	-0.39951	17	0.112118	-0.42307	0.267261	-0.73838	0.100427
OX_FE	TC	-0.00368	17	0.98882	-0.00368	0.267261	-0.48348	0.477818
OX_FE	TCA	-0.35092	17	0.167258	-0.36649	0.267261	-0.71155	0.156054
OX_FE	TIP	-0.46229	17	0.061711	-0.50022	0.267261	-0.77151	0.023604
OX_FE	TN	0.240343	17	0.352784	0.245139	0.267261	-0.2717	0.64633
OX_FE	TOC		0					

OX_FE	TOTAL_A	0.698958	17	0.001797	0.86526	0.267261	0.328752	0.882971
	L							
OX_FE	TOTAL_F	0.585276	17	0.01358	0.67045	0.267261	0.145577	0.831902
	E							
OX_FE	TOTAL_K	-0.0645	17	0.80574	-0.06459	0.267261	-0.52876	0.429469
OX_FE	TOTAL_M	0.275904	17	0.283758	0.283244	0.267261	-0.23605	0.667974
	G							
OX_FE	TP	-0.29307	17	0.253614	-0.30192	0.267261	-0.67819	0.218336
TC	TCA	-0.84166	30	5.63E-09	-1.22684	0.19245	-0.92227	-0.69088
TC	TIP	0.033051	24	0.878152	0.033063	0.218218	-0.37536	0.430711
TC	TN	0.639893	30	0.00014	0.757993	0.19245	0.363394	0.81279
TC	TOC	0.085714	6	0.871743	0.085925	0.57735	-0.78012	0.838925
TC	TOTAL_A	0.063759	30	0.737834	0.063845	0.19245	-0.30349	0.414512
	L							
TC	TOTAL_F	0.28422	30	0.127964	0.292267	0.19245	-0.08473	0.584631
	E							
TC	TOTAL_K	-0.25174	24	0.23536	-0.25727	0.218218	-0.59475	0.168805
TC	TOTAL_M	-0.55904	30	0.001321	-0.63144	0.19245	-0.7652	-0.2489
	G							
TC	TP	0.128824	30	0.497485	0.129544	0.19245	-0.24272	0.467406
TCA	TIP	0.068276	24	0.751247	0.068382	0.218218	-0.34462	0.459036
TCA	TN	-0.49955	30	0.004944	-0.54871	0.19245	-0.72868	-0.16985
TCA	TOC	-0.02857	6	0.957155	-0.02858	0.57735	-0.8211	0.801584
TCA	TOTAL_A	-0.12631	30	0.505993	-0.12699	0.19245	-0.4654	0.245122
	L							
TCA	TOTAL_F	-0.33868	30	0.067144	-0.3526	0.19245	-0.62294	0.024601
	E							
TCA	TOTAL_K	0.014578	24	0.946098	0.014579	0.218218	-0.39113	0.415538
TCA	TOTAL_M	0.511242	30	0.003886	0.56441	0.19245	0.185051	0.735962
	G							
TCA	TP	-0.01446	30	0.939532	-0.01446	0.19245	-0.3728	0.347623
TIP	TN	0.187826	24	0.379458	0.190083	0.218218	-0.23325	0.549587
TIP	TOC	-0.71429	6	0.110787	-0.89588	0.57735	-0.96592	0.231455
TIP	TOTAL_A	-0.5411	24	0.006325	-0.60572	0.218218	-0.77528	-0.17615
	L							
TIP	TOTAL_F	-0.34841	24	0.095217	-0.36364	0.218218	-0.65917	0.063984
	E							
TIP	TOTAL_K	-0.19273	24	0.366898	-0.19518	0.218218	-0.55313	0.228429
TIP	TOTAL_M	-0.12486	24	0.561015	-0.12552	0.218218	-0.50293	0.293314
	G							
TIP	TP	0.923478	24	1.27E-10	1.612158	0.218218	0.82885	0.966738
TN	TOC	-0.6	6	0.208	-0.69315	0.57735	-0.94931	0.412367
TN	TOTAL_A	0.278149	30	0.136673	0.285674	0.19245	-0.09127	0.580275
	L							
TN	TOTAL_F	0.407255	30	0.025504	0.432316	0.19245	0.055058	0.669324
	E							
TN	TOTAL_K	-0.40374	24	0.050401	-0.42811	0.218218	-0.6941	-0.0004
TN	TOTAL_M	-0.40953	30	0.024618	-0.43504	0.19245	-0.67083	-0.05777
	G							
TN	TP	0.301891	30	0.104943	0.311599	0.19245	-0.06551	0.597211
TOC	TOTAL_A	0.695725	6	0.124789	0.858967	0.57735	-0.26608	0.963356
	L							
TOC	TOTAL_F	0.371429	6	0.468478	0.390079	0.57735	-0.63007	0.908991
	E							

TOC	TOTAL_K	0.828571	6	0.041563	1.183562	0.57735	0.051909	0.980685
TOC	TOTAL_M	0.6	6	0.208	0.693147	0.57735	-0.41237	0.94931
	G							
TOC	TP	-0.77143	6	0.072397	-1.02385	0.57735	-0.97351	0.107345
TOTAL_AL	TOTAL_F	0.690373	30	2.42E-05	0.848668	0.19245	0.439383	0.841377
	E							
TOTAL_AL	TOTAL_K	-0.28988	24	0.169435	-0.29844	0.218218	-0.6207	0.128556
TOTAL_AL	TOTAL_M	-0.05109	30	0.788607	-0.05114	0.19245	-0.40393	0.314982
	G							
TOTAL_AL	TP	-0.38362	30	0.036373	-0.4043	0.19245	-0.65357	-0.02709
TOTAL_FE	TOTAL_K	-0.19173	24	0.369449	-0.19413	0.218218	-0.55241	0.229417
TOTAL_FE	TOTAL_M	-0.05844	30	0.759019	-0.05851	0.19245	-0.41008	0.308324
	G							
TOTAL_FE	TP	-0.25682	30	0.170696	-0.2627	0.19245	-0.56483	0.114008
TOTAL_K	TOTAL_M	0.45973	24	0.023808	0.496969	0.218218	0.069151	0.728102
	G							
TOTAL_K	TP	-0.26409	24	0.21241	-0.27049	0.218218	-0.60323	0.15593
TOTAL_MG	TP	-0.22502	30	0.23189	-0.22893	0.19245	-0.5414	0.147191