

Appendix 3-1: Water Year 2004 Permit-Level Data

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INTRODUCTION

This appendix includes the water quality (WQ) data for individual farms within the Everglades Agricultural Area (EAA) basin for Water Year 2004 (WY2004) (May 1, 2003 through April 30, 2004) in both tabular form and as a spatial distribution.

The permit-level data for the EAA basin are presented in **Table 1**. This table identifies separate hydraulic drainage areas (individual farms) within the permits according to the unit area or basin identification (ID) and includes each area's percent reduction for the water year compared to its baseline year. It also provides the area's flow-weighted mean total phosphorus (TP) concentration for the water year.

Permit-level data are useful for making relative comparisons between farms or between water years for the same farm only when they are used in conjunction with in-depth knowledge of unique farm characteristics. The District currently uses such relative comparisons when discussing individual farm performance and BMP optimization with permittees. Factors that affect permit-level concentrations and loads are discussed in Chapter 3 of the *2005 South Florida Environmental Report – Volume I* (see *EAA Basin Permit-Level Monitoring Results* section).

The permit-level data will only be used for compliance determination if the EAA basin does not meet the 25 percent TP load reduction requirement. The permit-level results are not used to calculate TP reduction at the EAA basin level. EAA basin-level monitoring is conducted by the South Florida Water Management District (SFWMD or District).

This table lists the WQ data using the following column designations:

- **Early Baseline** is a farm that qualifies for early baseline status by having implemented Best Management Practices (BMPs) and established a baseline by a specific deadline. “Y” indicates an early baseline farm; “N” indicates that a farm does not qualify for early baseline status.
- **Baseline Year** is the water year for which the farm established its base period load.
- **Rainfall Adjusted Unit Area Load (pounds per acre, or lbs/ac):**
 - Baseline is the TP load per unit area measured for the baseline year for a farm (includes 10-year base period rainfall adjustment).
 - WY2004 is the TP load per unit area for the current water year for a farm (includes 10-year base period rainfall adjustment).

- **WY2004 Percent (%) TP Reduction** is the WY2004 load reduction for the farm compared to the baseline year.
- **WY2004 TP Concentration** (parts per billion, or ppb) is the flow-weighted mean concentration for the farm for WY2004.

Table 2 provides a detailed list of BMP equivalent points that can be applied to both the EAA and C-139 basins. It also provides a summary of BMP practices that may be applied to meet compliance requirements for both basins.

Table 3 lists the current Everglades Agricultural Privilege tax credits that apply for the current year in the EAA.

Figures 1 and 2 depict the spatial distribution of TP concentrations and loads, respectively, found in the EAA. These figures are derived from the data provided by individual permit holders and listed in **Table 1**. Each unit area is mapped as a whole and no attempt has been made to account for localized variations within a unit parcel.

Table 1. Permit-level data for the Everglades Agricultural Area (EAA) basin.

| Unit Area ID | Basin ID | Basin Acreage | Early Baseline | Baseline Year | Rain Adjusted Unit Area Load (lbs/ac) | | WY04 % TP Reduction | WY04 TP Conc. (ppb) | Comments |
|--------------|-----------|---------------|----------------|---------------|---------------------------------------|---------------------|---------------------|---------------------|--|
| | | | | | Baseline | WY04 | | | |
| 005 | 26-001-01 | 767.8 | Y | 1994 | 2.12 | 0.50 | 77% | 99.3 | |
| 191 | 26-002-01 | 897.8 | N | 2001 | not applicable | 0.00 | not applicable | 0.0 | Pasture area with no recorded flows |
| 200 | 26-003-01 | 599.2 | N | 1999 | 0.27 | 0.01 | 96% | 27.2 | |
| 201 | 26-004-01 | 4501.6 | N | 1999 | 1.22 | Unable to Calculate | Unable to Calculate | Unable to Calculate | <75% annual load sampled (70.4% Sampled) |
| 190 | 26-006-01 | 1198.4 | N | 1998 | 1.19 | 0.32 | 73% | 117.3 | |
| 196 | 26-007-01 | 653.3 | N | 1999 | 2.07 | 0.14 | 93% | 51.8 | |
| 005 | 26-008-01 | 120.0 | Y | 1994 | 2.12 | 0.50 | 77% | 99.3 | |
| 195 | 26-009-01 | 159.8 | N | 1999 | 0.74 | 0.19 | 75% | 74.7 | |
| 021 | 26-010-01 | 1231.0 | N | 1995 | 1.81 | Unable to Calculate | Unable to Calculate | Unable to Calculate | <75% annual load sampled (72.6% Sampled) |
| 012 | 26-010-02 | 9961.3 | N | 1995 | 5.83 | 0.71 | 88% | 159.0 | |
| 166 | 50-002-01 | 5656.4 | Y | 1994 | 3.21 | 0.58 | 82% | 103.5 | |
| 165 | 50-002-02 | 9285.4 | Y | 1994 | 2.90 | 0.75 | 74% | 143.0 | |
| 047 | 50-003-01 | 242.0 | Y | 1994 | 0.40 | 0.49 | -24% | 143.3 | |
| 040 | 50-003-02 | 520.0 | Y | 1994 | 0.62 | 0.23 | 63% | 61.2 | |
| 138 | 50-003-03 | 117.6 | N | 1995 | 0.22 | 2.54 | -1042% | 285.3 | |
| 093 | 50-003-04 | 292.8 | Y | 1994 | 0.91 | 0.03 | 97% | 313.9 | |
| 152 | 50-004-01 | 908.9 | Y | 1994 | 3.68 | 0.50 | 86% | 168.9 | |
| 039 | 50-005-01 | 347.2 | Y | 1994 | 0.91 | 0.59 | 35% | 84.9 | |
| 050 | 50-005-02 | 232.9 | Y | 1994 | 0.06 | 0.11 | -77% | 61.3 | |
| 048 | 50-005-03 | 320.0 | Y | 1994 | 0.26 | 0.28 | -8% | 184.0 | |
| 037 | 50-005-04 | 309.6 | Y | 1994 | 1.49 | 0.30 | 80% | 151.1 | |
| 011 | 50-005-05 | 747.0 | Y | 1994 | 1.95 | 0.40 | 80% | 146.5 | |
| 078 | 50-005-06 | 502.0 | Y | 1994 | 1.56 | 0.68 | 56% | 119.3 | |
| 134 | 50-006-01 | 397.2 | Y | 1994 | 4.53 | 0.48 | 89% | 80.6 | |
| 143 | 50-006-02 | 359.3 | Y | 1994 | 5.50 | 0.97 | 82% | 201.9 | |
| 141 | 50-006-03 | 640.3 | Y | 1994 | 3.55 | 0.50 | 86% | 90.4 | |
| 063 | 50-007-01 | 6472.6 | Y | 1994 | 1.56 | 0.30 | 81% | 28.6 | |
| 116 | 50-007-02 | 5716.7 | Y | 1994 | 15.11 | 1.45 | 90% | 193.1 | |
| 020 | 50-008-01 | 7261.2 | Y | 1994 | 0.34 | 0.21 | 39% | 74.2 | |
| 024 | 50-009-01 | 7058.6 | Y | 1994 | 1.13 | Unable to Calculate | Unable to Calculate | Unable to Calculate | <75% annual load sampled (15.5% Sampled) |
| 060 | 50-009-02 | 4271.8 | Y | 1994 | 3.57 | 1.48 | 59% | 60.2 | |
| 030 | 50-009-03 | 965.3 | Y | 1994 | 4.15 | 0.60 | 86% | 54.9 | |
| 194 | 50-009-04 | 317.0 | N | 1999 | 5.19 | 3.48 | 33% | 255.2 | |
| 211 | 50-009-05 | 1479.4 | Y | 1994 | 1.54 | 0.40 | 74% | 42.9 | |
| 104 | 50-010-01 | 784.2 | N | 1995 | 2.42 | 0.20 | 92% | 76.9 | |
| 102 | 50-010-02 | 5327.1 | N | 1994 | 1.80 | 0.93 | 48% | 100.9 | |
| 055 | 50-010-03 | 5962.3 | Y | 1994 | 1.31 | 0.38 | 71% | 70.0 | |
| 148 | 50-010-04 | 7159.0 | Y | 1994 | 4.76 | 1.07 | 78% | 114.8 | |
| 193 | 50-010-05 | 2111.3 | N | 2001 | 1.31 | 0.14 | 89% | 44.1 | |
| 112 | 50-011-01 | 1747.7 | Y | 1994 | 2.76 | 0.14 | 95% | 77.6 | |
| 075 | 50-011-03 | 14337.8 | Y | 1994 | 5.79 | 7.00 | -21% | 393.8 | |
| 089 | 50-011-04 | 4066.0 | Y | 1994 | 5.21 | 1.52 | 71% | 126.0 | |
| 202 | 50-011-06 | 638.0 | N | 1999 | 0.02 | 0.20 | -1243% | 57.8 | |
| 120 | 50-012-01 | 1021.5 | Y | 1994 | 4.06 | 2.53 | 38% | 99.9 | |
| 114 | 50-013-01 | 1362.6 | Y | 1994 | 24.22 | 0.44 | 98% | 184.5 | |
| 077 | 50-014-01 | 1520.4 | Y | 1994 | 1.37 | 0.30 | 78% | 96.9 | |
| 188 | 50-015-01 | 3276.4 | Y | 1994 | 2.62 | 0.72 | 73% | 156.7 | |
| 168 | 50-015-02 | 2554.5 | Y | 1994 | 5.28 | 1.06 | 80% | 266.5 | |
| 129 | 50-016-01 | 1497.3 | Y | 1994 | 15.11 | 0.71 | 95% | 143.4 | |
| 091 | 50-017-01 | 895.0 | Y | 1994 | 3.22 | 1.56 | 52% | 84.8 | |
| 187 | 50-018-01 | 5901.5 | Y | 1994 | 2.82 | 0.54 | 81% | 112.3 | |
| 186 | 50-018-02 | 6594.0 | Y | 1994 | 3.54 | 0.69 | 80% | 105.3 | |
| 179 | 50-018-03 | 9062.3 | Y | 1994 | 1.98 | 0.48 | 76% | 81.3 | |
| 015 | 50-018-04 | 1913.1 | Y | 1994 | 3.88 | 0.27 | 93% | 85.4 | |
| 016 | 50-018-05 | 1827.1 | N | 1995 | 3.64 | 0.76 | 79% | 227.4 | |
| 014 | 50-018-06 | 1255.1 | Y | 1994 | 1.46 | 0.27 | 81% | 72.6 | |
| 005 | 50-018-07 | 1117.4 | Y | 1994 | 2.12 | 0.50 | 77% | 99.3 | |
| 006 | 50-018-08 | 3208.6 | Y | 1994 | 2.28 | 0.58 | 75% | 163.3 | |
| 019 | 50-018-09 | 1736.6 | Y | 1994 | 4.22 | 0.61 | 86% | 94.9 | |
| 145 | 50-018-10 | 8254.4 | Y | 1994 | 3.05 | 0.88 | 71% | 166.4 | |
| 159 | 50-018-11 | 1871.1 | Y | 1994 | 19.73 | 2.48 | 87% | 291.1 | |
| 172 | 50-018-12 | 1655.2 | Y | 1994 | 1.78 | 0.39 | 78% | 46.7 | |
| 178 | 50-018-13 | 594.3 | Y | 1994 | 0.40 | 0.99 | -147% | 106.1 | |
| 056 | 50-018-14 | 569.9 | N | 1994 | 2.21 | 0.41 | 81% | 33.5 | |
| 079 | 50-018-15 | 757.3 | Y | 1994 | 1.12 | 0.69 | 39% | 227.1 | |
| 095 | 50-018-16 | 240.0 | Y | 1994 | 4.11 | 2.15 | 48% | 160.9 | |
| 043 | 50-018-17 | 488.1 | Y | 1994 | 3.10 | 0.59 | 81% | 142.0 | |
| 051 | 50-018-18 | 357.7 | Y | 1994 | 0.64 | 1.55 | -142% | 196.4 | |

| Unit Area ID | Basin ID | Basin Acreage | Early Baseline | Baseline Year | Rain Adjusted Unit Area Load (lbs/ac) | | WY04 % TP Reduction | WY04 TP Conc. (ppb) | Comments |
|--------------|-----------|---------------|----------------|---------------|---------------------------------------|---------------------|---------------------|---------------------|--|
| | | | | | Baseline | WY04 | | | |
| 046 | 50-018-19 | 314.3 | Y | 1994 | 35.32 | 3.80 | 89% | 150.7 | |
| 044 | 50-018-20 | 380.6 | Y | 1994 | 3.59 | 1.80 | 50% | 163.8 | |
| 001 | 50-018-21 | 10416.5 | N | 1998 | 1.06 | 0.57 | 46% | 53.1 | |
| 017 | 50-018-22 | 4481.2 | Y | 1994 | 8.18 | 0.35 | 96% | 97.9 | |
| 054 | 50-018-23 | 2946.0 | Y | 1994 | 2.22 | 0.25 | 89% | 52.5 | |
| 053 | 50-018-24 | 3800.3 | Y | 1994 | 1.96 | 0.28 | 86% | 60.8 | |
| 052 | 50-018-25 | 3808.4 | Y | 1994 | 4.99 | 0.54 | 89% | 142.8 | |
| 067 | 50-019-01 | 568.4 | Y | 1994 | 1.54 | 0.41 | 74% | 77.9 | |
| 036 | 50-019-02 | 1210.0 | Y | 1994 | 1.38 | 0.39 | 71% | 57.2 | |
| 031 | 50-019-03 | 1051.4 | Y | 1994 | 0.58 | 0.11 | 81% | 58.2 | |
| 164 | 50-020-01 | 320.0 | Y | 1994 | 3.32 | 1.08 | 67% | 193.3 | |
| 111 | 50-021-01 | 2558.0 | Y | 1994 | 8.92 | 0.85 | 90% | 212.4 | |
| 049 | 50-022-01 | 320.0 | Y | 1994 | 0.80 | 0.05 | 94% | 73.9 | |
| 139 | 50-023-01 | 278.0 | Y | 1994 | 11.83 | 1.03 | 91% | 298.0 | |
| 032 | 50-024-01 | 574.0 | N | 1995 | 6.43 | 0.83 | 87% | 95.2 | |
| 153 | 50-025-01 | 823.7 | Y | 1994 | 3.68 | 0.51 | 86% | 142.6 | |
| 072 | 50-027-01 | 2771.8 | Y | 1994 | 2.40 | 0.66 | 72% | 116.1 | |
| 140 | 50-027-02 | 798.5 | Y | 1994 | 1.22 | 0.51 | 59% | 77.1 | |
| 147 | 50-027-03 | 1353.1 | Y | 1994 | 2.32 | 0.37 | 84% | 178.1 | |
| 144 | 50-027-04 | 2520.0 | Y | 1994 | 2.10 | 0.49 | 77% | 145.0 | |
| 086 | 50-028-01 | 220.0 | Y | 1994 | 14.54 | 1.34 | 91% | 50.1 | |
| 094 | 50-029-01 | 530.6 | Y | 1994 | 4.30 | 0.62 | 86% | 61.7 | |
| 156 | 50-030-01 | 446.1 | Y | 1994 | 14.14 | 0.96 | 93% | 106.0 | |
| 107 | 50-031-01 | 1608.9 | Y | 1994 | 2.56 | 0.58 | 77% | 27.5 | |
| 150 | 50-031-02 | 1387.0 | Y | 1994 | 5.48 | 1.89 | 66% | 265.3 | |
| 151 | 50-031-03 | 602.4 | Y | 1994 | 8.57 | 1.46 | 83% | 136.8 | |
| 096 | 50-032-01 | 305.7 | Y | 1994 | 0.84 | 1.32 | -57% | 113.6 | |
| 167 | 50-033-02 | 1158.8 | Y | 1994 | 12.52 | 2.69 | 78% | 303.6 | Acreage represents the portion of 50-033-02 that falls within the EAA basin baseline boundaries. |
| 065 | 50-034-01 | 7897.1 | Y | 1994 | 1.68 | 0.37 | 78% | 55.0 | |
| 069 | 50-034-02 | 600.5 | Y | 1994 | 3.37 | 0.40 | 88% | 73.0 | |
| 070 | 50-034-03 | 4611.8 | Y | 1994 | 4.08 | 0.71 | 82% | 73.6 | |
| 071 | 50-034-04 | 4138.0 | Y | 1994 | 1.54 | 0.56 | 64% | 89.4 | |
| 137 | 50-035-01 | 478.5 | Y | 1994 | 5.74 | 0.98 | 83% | 164.8 | |
| 115 | 50-035-02 | 1634.3 | Y | 1994 | 5.40 | 1.34 | 75% | 228.7 | |
| 208 | 50-035-03 | 205.5 | N | 1999 | 8.71 | 7.31 | 16% | 73.1 | |
| 169 | 50-037-01 | 1755.4 | Y | 1994 | 6.70 | 0.09 | 99% | 130.4 | |
| 160 | 50-038-01 | 1285.0 | Y | 1994 | 3.71 | 1.16 | 69% | 302.7 | |
| 083 | 50-039-01 | 62.5 | N | 1995 | 4.01 | 0.00 | 100% | 0.0 | |
| 084 | 50-039-02 | 143.1 | N | 1995 | 4.25 | 0.50 | 88% | 55.2 | |
| 184 | 50-040-01 | 216.2 | N | 1995 | 1.40 | 0.20 | 86% | 33.3 | |
| 183 | 50-040-02 | 498.6 | N | 1995 | 3.61 | 0.22 | 94% | 62.9 | |
| 149 | 50-041-01 | 108.8 | N | 1998 | 2.69 | 1.01 | 62% | 130.7 | |
| 057 | 50-041-02 | 300.4 | N | 1998 | 2.44 | 2.77 | -14% | 81.0 | |
| 034 | 50-042-01 | 320.0 | N | 1995 | 0.14 | 0.27 | -91% | 84.6 | |
| 176 | 50-044-01 | 2168.8 | N | 1996 | 5.02 | 1.09 | 78% | 176.4 | |
| 087 | 50-045-01 | 281.8 | N | 1995 | 4.35 | 0.22 | 95% | 86.8 | |
| 085 | 50-045-02 | 160.6 | N | 1995 | 1.41 | 0.45 | 68% | 79.2 | |
| 056 | 50-046-01 | 35.0 | N | 1994 | 2.21 | 0.41 | 81% | 33.5 | |
| 161 | 50-047-01 | 630.3 | N | 1996 | 1.46 | 0.76 | 48% | 106.3 | |
| 163 | 50-047-02 | 640.0 | N | 1995 | 0.84 | 1.03 | -23% | 203.6 | |
| 157 | 50-047-03 | 1832.0 | N | 1997 | 0.44 | 0.37 | 16% | 74.4 | |
| 136 | 50-047-04 | 198.5 | N | 1996 | 0.68 | Unable to Calculate | Unable to Calculate | Unable to Calculate | <75% annual load sampled (59.3% Sampled) |
| 162 | 50-047-05 | 314.0 | N | 1997 | 0.55 | 1.83 | -233% | 189.2 | |
| 155 | 50-047-07 | 3494.2 | N | 1996 | 0.67 | 0.33 | 50% | 63.5 | |
| 158 | 50-047-08 | 1557.7 | N | 1996 | 0.96 | 1.19 | -24% | 159.4 | |
| 074 | 50-048-01 | 1185.1 | N | 1995 | 1.25 | 0.36 | 71% | 44.6 | |
| 090 | 50-048-02 | 640.0 | N | 1995 | 0.36 | 0.24 | 34% | 66.7 | |
| 180 | 50-049-01 | 1909.0 | N | 1996 | 2.35 | 1.21 | 48% | 252.9 | |
| 022 | 50-050-01 | 1280.0 | N | 1996 | 0.36 | Unable to Calculate | Unable to Calculate | Unable to Calculate | <75% annual load sampled (0% Sampled) |
| 110 | 50-051-01 | 811.4 | N | 1995 | 0.97 | 0.11 | 89% | 22.1 | |
| 146 | 50-053-01 | 148.9 | N | 1995 | 5.16 | 0.34 | 93% | 183.6 | |
| 170 | 50-054-01 | 7507.8 | N | 1996 | 0.84 | 0.17 | 80% | 68.7 | |
| 173 | 50-054-02 | 960.0 | N | 1996 | 0.50 | 0.34 | 32% | 85.8 | |
| 130 | 50-054-03 | 1227.2 | N | 1996 | 0.35 | 0.09 | 76% | 196.9 | |
| 127 | 50-054-04 | 3684.3 | N | 1996 | 0.82 | 0.50 | 39% | 61.1 | |
| 073 | 50-055-01 | 392.9 | N | 1997 | 0.86 | 0.06 | 93% | 66.6 | |
| 142 | 50-055-02 | 810.4 | N | 1999 | 0.45 | 0.30 | 34% | 55.5 | |
| 121 | 50-055-03 | 2871.2 | N | 1996 | 0.74 | 0.14 | 81% | 55.7 | |
| 105 | 50-056-01 | 849.8 | N | 1996 | 0.98 | 1.93 | -96% | 235.5 | |
| 097 | 50-058-01 | 157.0 | N | 1995 | 0.02 | 0.00 | 100% | 0.0 | |

| Unit Area ID | Basin ID | Basin Acreage | Early Baseline | Baseline Year | Rain Adjusted Unit Area Load (lbs/ac) | | WY04 % TP Reduction | WY04 TP Conc. (ppb) | Comments |
|--------------|-----------|---------------|----------------|---------------|---------------------------------------|---------------------|---------------------|---------------------|---|
| | | | | | Baseline | WY04 | | | |
| 180 | 50-059-01 | 9613.9 | N | 1996 | 2.35 | 1.21 | 48% | 252.9 | |
| 181 | 50-059-02 | 1767.6 | N | 1997 | 1.07 | 0.56 | 47% | 68.5 | |
| 182 | 50-059-03 | 709.5 | N | 1996 | 1.65 | 4.33 | -162% | 744.3 | |
| 185 | 50-059-04 | 306.1 | N | 1996 | 1.14 | 1.07 | 7% | 234.0 | |
| 068 | 50-060-01 | 8137.2 | N | 1995 | 0.18 | 0.09 | 51% | 25.4 | |
| 109 | 50-060-02 | 7613.8 | N | 1995 | 0.75 | 0.28 | 63% | 52.3 | |
| 117 | 50-061-01 | 639.5 | N | 1995 | 1.44 | 0.03 | 98% | 75.5 | |
| 076 | 50-061-03 | 3434.3 | N | 1995 | 0.76 | 0.43 | 44% | 58.6 | |
| 045 | 50-061-05 | 313.7 | N | 1995 | 1.89 | 0.94 | 50% | 46.4 | |
| 098 | 50-061-06 | 237.0 | N | 1995 | 1.68 | 0.20 | 88% | 112.2 | |
| 092 | 50-061-07 | 318.2 | N | 1995 | 1.24 | 0.94 | 24% | 83.1 | |
| 135 | 50-061-08 | 375.2 | N | 1999 | 1.76 | 0.41 | 77% | 91.4 | |
| 027 | 50-061-10 | 23044.0 | N | 1996 | 0.49 | 0.16 | 66% | 37.1 | |
| 026 | 50-061-11 | 12372.5 | N | 1995 | 0.95 | 0.24 | 75% | 87.8 | |
| 099 | 50-061-12 | 730.0 | N | 1995 | 2.55 | 0.65 | 74% | 158.6 | |
| 100 | 50-061-13 | 1059.6 | N | 1995 | 1.16 | 0.81 | 30% | 36.7 | |
| 132 | 50-061-15 | 6760.2 | N | 1995 | 1.91 | 0.28 | 85% | 87.0 | |
| 177 | 50-061-17 | 1598.1 | N | 1995 | 12.22 | 1.76 | 86% | 178.8 | |
| 108 | 50-061-18 | 1555.1 | N | 1995 | 9.82 | 0.50 | 95% | 42.1 | |
| 102 | 50-061-20 | 156.1 | N | 1994 | 1.80 | 0.93 | 48% | 100.9 | |
| 033 | 50-062-01 | 4625.8 | N | 1996 | 0.20 | 0.23 | -17% | 57.4 | |
| 066 | 50-062-02 | 10754.2 | N | 1996 | 0.46 | 0.33 | 28% | 63.4 | |
| 080 | 50-062-03 | 1188.3 | N | 1996 | 0.54 | 0.30 | 44% | 46.4 | |
| 101 | 50-062-04 | 901.2 | N | 1996 | 0.26 | 0.26 | -1% | 77.7 | |
| 062 | 50-062-05 | 5249.6 | N | 1996 | 0.41 | 0.53 | -29% | 84.9 | |
| 058 | 50-062-07 | 4041.6 | N | 1996 | 1.41 | 0.48 | 66% | 20.4 | |
| 025 | 50-062-08 | 9119.9 | N | 1996 | 0.51 | 0.15 | 70% | 34.6 | |
| 064 | 50-062-09 | 7658.9 | N | 1997 | 0.22 | 0.23 | -5% | 69.5 | |
| 061 | 50-062-10 | 8772.4 | N | 1997 | 0.72 | 0.14 | 81% | 34.4 | |
| 035 | 50-062-11 | 1276.6 | N | 1996 | 0.44 | 0.27 | 39% | 76.1 | |
| 041 | 50-063-01 | 9792.2 | N | 1996 | 0.45 | 0.72 | -59% | 104.8 | |
| 113 | 50-064-01 | 898.7 | N | 1997 | 2.98 | 0.53 | 82% | 103.3 | |
| 113 | 50-064-03 | 145.0 | N | 1997 | 2.98 | 0.53 | 82% | 103.3 | |
| 113 | 50-064-04 | 1150.4 | N | 1997 | 2.98 | 0.53 | 82% | 103.3 | |
| 118 | 50-065-02 | 938.1 | N | 1995 | 3.64 | 0.07 | 98% | 39.8 | |
| 113 | 50-065-03 | 3751.7 | N | 1997 | 2.98 | 0.53 | 82% | 103.3 | |
| 119 | 50-065-05 | 929.8 | N | 1997 | 2.98 | 0.85 | 72% | 270.2 | |
| 122 | 50-065-06 | 453.9 | N | 1997 | 2.98 | 0.32 | 89% | 137.0 | |
| 081 | 50-065-07 | 513.0 | N | 1995 | 3.92 | 0.48 | 88% | 82.5 | |
| 113 | 50-065-08 | 628.0 | N | 1997 | 2.98 | 0.53 | 82% | 103.3 | |
| 106 | 50-065-10 | 792.3 | N | 1995 | 1.55 | 0.25 | 84% | 26.6 | |
| 059 | 50-066-01 | 1233.6 | N | 1995 | 2.13 | Unable to Calculate | Unable to Calculate | Unable to Calculate | <75% annual load sampled (0% Sampled) |
| 010 | 50-067-01 | 1143.9 | N | 1996 | 0.40 | 0.25 | 36% | 35.1 | |
| 042 | 50-067-02 | 10257.1 | N | 1996 | 0.94 | 0.35 | 62% | 60.6 | |
| 028 | 50-067-03 | 681.6 | N | 1996 | 1.02 | 0.54 | 47% | 25.5 | |
| 029 | 50-067-04 | 3819.5 | N | 1996 | 0.55 | 0.51 | 8% | 49.0 | |
| 007 | 50-067-05 | 7322.6 | N | 1996 | 0.42 | 0.26 | 37% | 41.0 | |
| 197 | 50-067-06 | 1277.2 | N | 1999 | 0.49 | 0.26 | 47% | 25.6 | |
| 198 | 50-067-07 | 1975.5 | N | 1999 | 0.54 | 0.31 | 42% | 25.4 | |
| 203 | 50-067-09 | 1277.7 | N | 1999 | 0.54 | 0.18 | 67% | 38.8 | |
| 204 | 50-067-10 | 2551.8 | N | 1999 | 1.21 | 0.18 | 85% | 48.3 | |
| 205 | 50-067-11 | 6179.0 | N | 1999 | 0.85 | 0.29 | 66% | 40.1 | |
| 189 | 50-067-13 | 685.3 | N | 1997 | 2.29 | Unable to Calculate | Unable to Calculate | Unable to Calculate | <75% annual load sampled (45% Sampled) |
| 175 | 50-068-01 | 2615.8 | N | 1996 | 1.13 | 0.45 | 61% | 98.4 | |
| 171 | 50-068-02 | 1998.1 | N | 1997 | 2.30 | 1.06 | 54% | 183.9 | |
| 038 | 50-069-01 | 317.5 | N | 1996 | 1.06 | 0.73 | 31% | 54.7 | |
| 088 | 50-070-01 | 245.0 | N | 1995 | 3.82 | 1.17 | 70% | 75.8 | |
| 082 | 50-070-02 | 244.0 | N | 1995 | 3.09 | 0.62 | 80% | 135.4 | |
| 126 | 50-073-01 | 67.8 | N | 2001 | Unable to Calculate | 0.00 | Unable to Calculate | 0.0 | Not used for agriculture; has on-site retention area and does not discharge |
| 209 | 50-078-01 | 71.6 | N | 1999 | 8.71 | 3.82 | 56% | 203.4 | |
| 206 | 50-081-01 | 210.0 | N | 2004 | Baseline Year | 0.35 | Unable to Calculate | 50.0 | First year in model, no baseline; calculations will begin in WY05 |
| 212 | 50-082-01 | 484.5 | N | 1995 | 9.82 | 0.24 | 98% | 17.6 | |

Table 2. Best Management Practice (BMP) summary and “BMP equivalent” points for the EAA and C-139 basins.

| BMP | PTS | DESCRIPTION |
|--|----------|--|
| NUTRIENT CONTROL PRACTICES | | MINIMIZES THE MOVEMENT OF NUTRIENTS OFF-SITE |
| Nutrient Application Control | 2 ½ | Controlled application of nutrients with a 4' setback from canals: banding, pneumatic application - AIRMAX; fertigation; and fertilization placement near root under plastic. |
| Nutrient Spill Prevention | 2 ½ | Formal spill prevention protocols (storage, handling, transfer, and education/instruction). |
| Successive Vegetable Planting to Minimize P | 2 ½ | Successive planting of high P/low P demand crops to avoid P build up and no successive P application. |
| Plant Tissue Analysis | 2 ½ 5 | Determines plant nutrient requirements next growing season (crop specific). Citrus only – because plant tissue analysis provides information on current season, additional points are allowed. |
| Nutrient Application Control | 5 | Determine the P requirements of the soil and follow standard recommendations for application rates (crop specific). |
| Split Nutrient Application | 5 | Applying small portions of P at various times without exceeding the total recommendation. |
| Slow Release P Fertilizer | 5 | Specially treated fertilizer. |
| Reduced P Fertilization | 5 | P application rate is at least 30% below the recommendation. |
| No Nutrients Imported Via Direct Land Application | 15 | No application of P in any form. Native and semi-improved range may apply fertilizer at maintenance levels every 6-8 years. |
| No Nutrients Imported Indirectly Through Cattle Feed | 15 | No P import to the basin through cattle feed (Note: native range is not excluded by use of mineral supplements or molasses). |
| Nutrient Management Plan | Up to 35 | Managing the amount, source, placement, form, and timing of the application of nutrients on lands with cattle operations. |
| WATER MANAGEMENT PRACTICES | | MINIMIZES THE VOLUME OF OFF-SITE DISCHARGES |
| ½ Inch Detained 1 Inch Detained | 5 10 | Delay discharge (based on measuring daily rain events using a rain gauge). |
| Improved Infrastructure | 5 | Recirculate water inside farm boundaries to improve water quality prior to offsite discharge (e.g., rice and vegetables); fallow field flood water with no direct discharge (instead allow to “drain” via evapotranspiration, seepage, use as irrigation water); or increasing water detention using properly constructed canal berms. |
| Water Table Management | 5 | Optimize drainage and irrigation schedules and/or by using low volume irrigation methods to decrease discharge. |
| Approved and Operational Surface Water Reservoir | 35 | Properly permitted, constructed, and maintained storage system meeting specified ERP Basis of Review criteria (version in effect at the time of permitting or in effect at the time of permit modification for modified systems): |
| Temporary Holding Pond | 15 | Temporary agricultural activities (as described in Chapter 40E-400, FAC.) with a properly constructed and permitted temporary holding pond. |
| No Direct Discharge | 15 | Overland sheet flow; no direct discharge. |

| BMP | PTS | DESCRIPTION |
|---|------------------|--|
| PARTICULATE MATTER AND SEDIMENT CONTROLS | | MINIMIZES THE MOVEMENT OF PARTICULATE MATTER AND SEDIMENTS |
| Any 2 | 2 ½ | <ul style="list-style-type: none"> • Leveling fields • Slow drainage velocity near pumps • Grassed swales/field ditch connections • Ditch bank berms • Canal cleaning program • Aquatic weed control • Field ditch drainage sumps |
| Any 4 | 5 | <ul style="list-style-type: none"> • Barriers at discharge locations • Ditch bank stabilization • Sediment sump/trap in canals |
| Any 6 | 10 | <ul style="list-style-type: none"> • Maintain forage to reduce soil erosion/range seedings • Soil stabilization through infrastructure improvements |
| Any 8 | 15 | <ul style="list-style-type: none"> • Cover crops • Culvert bottoms above ditch bottoms • Vegetated ditch banks |
| PASTURE MANAGEMENT | | ON-FARM SITE OPERATION AND MANAGEMENT PRACTICES |
| | 2 ½ | <ul style="list-style-type: none"> • Restricted placement of feeders, cowpens, or feed and water to reduce "hot spots" near drainage ditches (2 ½ points each) |
| | 2 ½ | <ul style="list-style-type: none"> • Provide shade structures to prevent cattle in waterways |
| | 5 | <ul style="list-style-type: none"> • Low cattle density (1 head/2 acres, non-irrigated pasture) |
| | 5 | <ul style="list-style-type: none"> • Reduced P in feed (by a minimum of 20%) |
| | 10 | <ul style="list-style-type: none"> • Restrict cattle from waterways through fencing of canals in a manner that protects the discharge water quality |
| Urban Xeriscape | 5 | Use of plants that required less water and fertilizer |
| Detention Pond Littoral Zone | 5 | Vegetative filtering area for on-site stormwater runoff. |
| Other BMPs | TBD ³ | BMPs proposed by permittee and accepted by SFWMD. |

Notes:

A BMP plan is required for each land use or crop, and shall be implemented across the entire farm acreage (drainage area).

¹ For the EAA basin, a minimum of 25 points is required for each BMP plan.

² For the C-139 basin, the minimum required points for each BMP plan are based on compliance status as follows:

- Level I: Initial phase 15 points for each BMP plan.
- Level II: First incidence out of compliance, no additional BMPs; however, onsite verification of BMPs begin. Frequency of visits based on compliance record.
- Level III: Second incidence out of compliance, 10 additional BMP points for each BMP plan (25 points total).
- Level IV: Third incidence out of compliance, 10 additional BMP points for each BMP plan (35 points total)

³ TBD - To be determined.

Table 3. Everglades Agricultural Privilege Tax credits for the EAA basin.¹

**Everglades Agricultural Privilege Tax
Area-Wide Incentive Credit Schedule**

| Calendar Year | Water Year | Min. Phos. Reduction Required (%) | Actual Phos. Reduction Achieved (%) | Credits Earned | Total Credits (Cumulative) | Credits Used | Credit Balance | Fiscal Year |
|---------------|------------|-----------------------------------|-------------------------------------|----------------|----------------------------|--------------|----------------|-------------|
| 1994 | 1993 | 25 | 44 | 19 | 19.00 | 0.00 | 19.00 | FY95 |
| 1995 | 1994 | 25 | 17 | 0 | 19.00 | 0.00 | 19.00 | FY96 |
| 1996 | 1995 | 25 | 31 | 6 | 25.00 | 0.00 | 25.00 | FY97 |
| 1997 | 1996 | 25 | 68 | 43 | 68.00 | 0.00 | 68.00 | FY98 |
| 1998 | 1997 | 25 | 49 | 24 | 92.00 | 3.91 | 88.09 | FY99 |
| 1999 | 1998 | 25 | 34 | 9 | 97.09 | 3.91 | 93.18 | FY00 |
| 2000 | 1999 | 25 | 49 | 24 | 117.18 | 3.91 | 113.27 | FY01 |
| 2001 | 2000 | 25 | 55 | 30 | 143.27 | 3.91 | 139.36 | FY02 |
| 2002 | 2001 | 25 | 73 | 48 | 187.36 | 10.02 | 177.34 | FY03 |
| 2003 | 2002 | 25 | 55 | 30 | 207.34 | 10.02 | 197.32 | FY04 |
| 2004 | 2003 | 25 | 35 | 10 | 207.32 | 10.02 | 197.30 | FY05 |
| 2005 | 2004 | 25 | 64 | 39 | 236.30 | 10.02 | 226.28 | FY06 |
| 2006 | 2005 | 25 | | | 226.28 | 15.55 | 210.73 | FY07 |
| 2007 | 2006 | 25 | | | 210.73 | 15.55 | 195.18 | FY08 |
| 2008 | 2007 | 25 | | | 195.18 | 15.55 | 179.63 | FY09 |
| 2009 | 2008 | 25 | | | 179.63 | 15.55 | 164.08 | FY10 |
| 2010 | 2009 | 25 | | | 164.08 | 15.55 | 148.53 | FY11 |
| 2011 | 2010 | 25 | | | 148.53 | 15.55 | 132.98 | FY12 |
| 2012 | 2011 | 25 | | | 132.98 | 15.55 | 117.43 | FY13 |
| 2013 | 2012 | 25 | | | 117.43 | 15.55 | 101.88 | FY14 |

Note: Water Year 2003 (Calendar Year 2004 / FY2005) subject to Governing Board approval at 09/07/04 public hearing.

Water Year 2003 = May 1, 2002 to April 30, 2003

Additional Information of Interest

| Per Acre Charge | Years | Area-Wide Incentive Credit | Min. Phos. Reduction Required |
|-----------------|-------------|----------------------------|-------------------------------|
| \$24.89 | 1994 - 1997 | 0.33 | 25% |
| \$27.00 | 1998 - 2001 | 0.54 | 25% |
| \$31.00 | 2002 - 2005 | 0.61 | 25% |
| \$35.00 | 2006 - 2013 | 0.65 | 25% |
| \$25.00 | 2014 - 2016 | N/A | N/A |
| \$10.00 | 2017 | N/A | N/A |

Note:

1. Vegetable classified acreage is never charged more than \$24.89 pre acre.
2. Vegetable classified acreage is not eligible for incentive credits.
3. The minimum per acre charge will never drop below \$24.89 through Nov 2013. If incentive credits would cause the per acre charge to drop below \$24.89, any earned, unused credits will be carried forward and applied to the following year.
4. Any unused or excess incentive credits remaining after certification of the Everglades agricultural privilege tax roll for the tax notices mailed in November 2013 shall be canceled.
5. The annual Everglades agricultural privilege tax for the tax notices mailed in November 2014 through November 2016 shall be \$25 per acre and for tax notices mailed in November 2017 and thereafter shall be \$10 per acre.

Florida Statute 373.4592, EFA

Calculating Credits:

| | |
|-------------|---|
| 1994 - 1997 | N/A |
| 1998 - 2001 | $\$27.00 - \$24.89 = \$2.11 / .54 = 3.91$ |
| 2002 - 2005 | $\$31.00 - \$24.89 = \$6.11 / .61 = 10.02$ |
| 2006 - 2013 | $\$35.00 - \$24.89 = \$10.11 / .65 = 15.55$ |

¹ Calculated in accordance with the Everglades Forever Act, Section 373.4592(6), Florida Statutes.

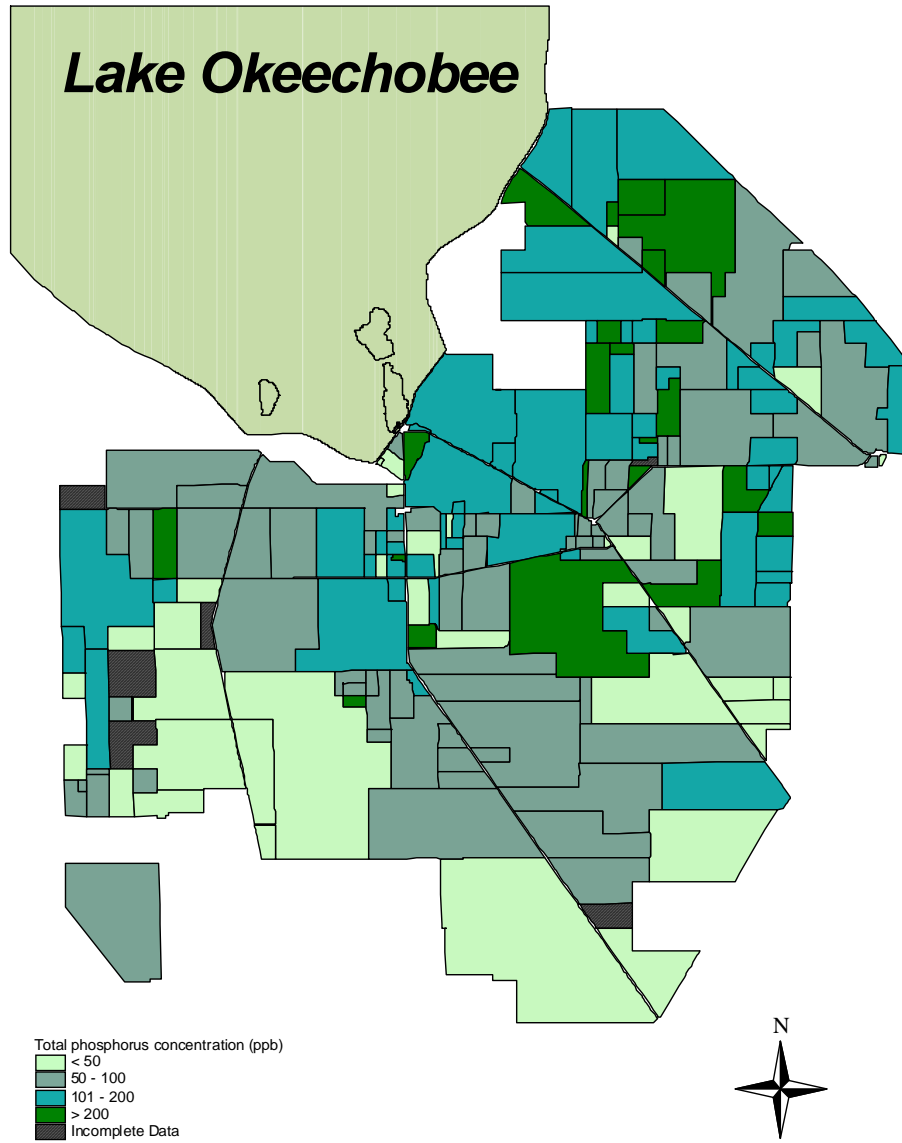


Figure 1. Total phosphorus (TP) concentrations (ppb) in the EAA.

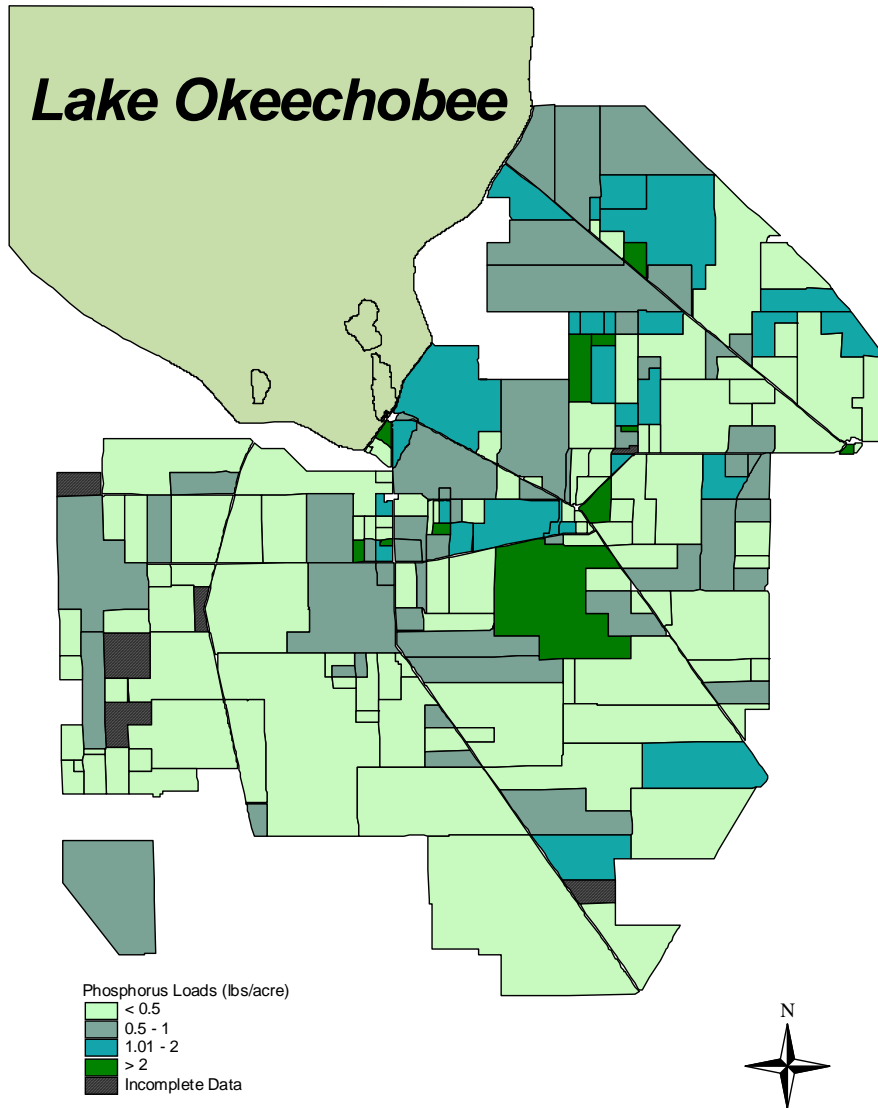


Figure 2. TP loads (lbs/ac) in the EAA.