

Appendix C

Water Demand Data

Figure C-1. Zone 40 Demand Zones

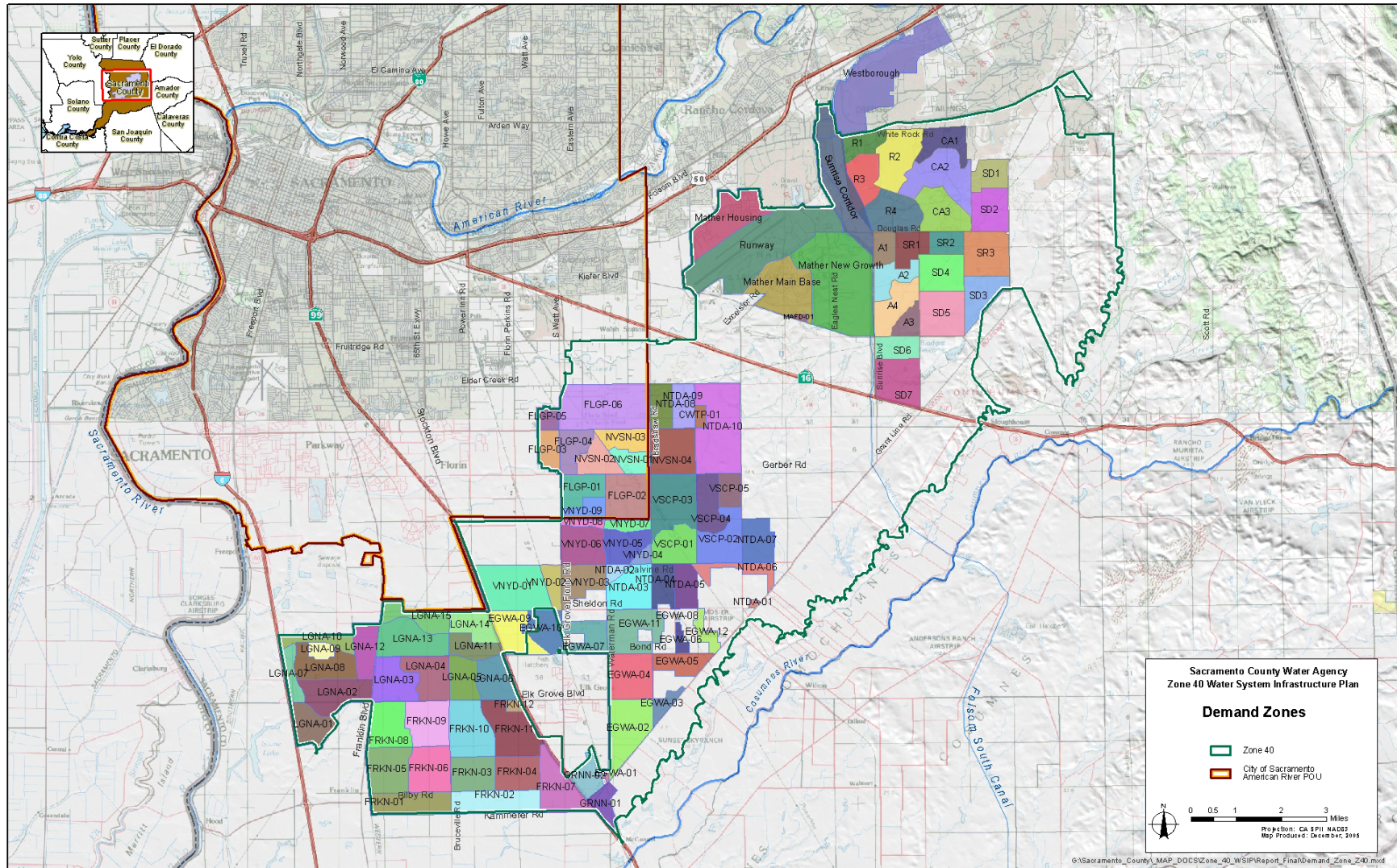


Table C-1. Zone 40 Annual Average Water Demand Estimates

| Landuse | AG | COM | IND | MFHD | MFLD | MLU | PREC | PUB | RE | ROW | SF | UR | VAC | Total Acreages | Water Demand (AF/year) |
|--|----------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|------------------------------|
| Unit Demand Factor (AFA/Year) | 0.00 | 2.75 | 2.71 | 4.12 | 3.70 | 2.51 | 3.46 | 1.04 | 1.33 | 0.21 | 2.89 | 2.75 | 0.00 | | |
| Demand Subregion | Acreages | | | | | | | | | | | | | | |
| A1 | 0 | 16 | 0 | 0 | 14 | 0 | 7 | 11 | 0 | 0 | 176 | 0 | 0 | 224.45 | 641.34 |
| A2 | 0 | 16 | 0 | 17 | 35 | 0 | 33 | 11 | 0 | 20 | 199 | 0 | 0 | 331.13 | 948.43 |
| A3 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 203 | 0 | 0 | 208.51 | 605.68 |
| A4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 484 | 484.32 | 0.59 |
| CA1 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 41 | 340 | 0 | 8 | 398.69 | 1025.25 |
| CA2 | 0 | 24 | 0 | 28 | 74 | 0 | 32 | 41 | 0 | 111 | 469 | 0 | 42 | 819.66 | 1984.43 |
| CA3 | 0 | 52 | 98 | 0 | 25 | 0 | 0 | 0 | 0 | 28 | 44 | 0 | 334 | 581.10 | 635.27 |
| R1 | 0 | 10 | 66 | 11 | 19 | 0 | 6 | 0 | 0 | 45 | 125 | 0 | 30 | 310.89 | 710.71 |
| R2 | 0 | 0 | 96 | 11 | 48 | 0 | 98 | 104 | 0 | 93 | 189 | 0 | 25 | 663.39 | 1497.69 |
| R3 | 0 | 46 | 120 | 15 | 0 | 0 | 26 | 14 | 0 | 67 | 198 | 0 | 0 | 485.97 | 1204.03 |
| R4 | 0 | 49 | 0 | 20 | 83 | 0 | 8 | 9 | 0 | 145 | 182 | 0 | 138 | 635.38 | 1120.92 |
| SD1 | 0 | 0 | 318 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 321.19 | 863.61 |
| SD2 | 0 | 0 | 354 | 0 | 9 | 0 | 9 | 0 | 0 | 12 | 113 | 0 | 0 | 497.39 | 1354.22 |
| SD3 | 21 | 0 | 0 | 0 | 32 | 0 | 27 | 11 | 0 | 0 | 214 | 173 | 17 | 494.65 | 1317.33 |
| SD4 | 0 | 13 | 0 | 17 | 71 | 0 | 33 | 11 | 0 | 41 | 258 | 0 | 86 | 529.38 | 1249.11 |
| SD5 | 0 | 15 | 0 | 29 | 129 | 0 | 49 | 81 | 0 | 0 | 280 | 0 | 52 | 635.57 | 1702.10 |
| SD6 | 0 | 6 | 0 | 12 | 10 | 0 | 21 | 10 | 0 | 0 | 216 | 0 | 45 | 321.02 | 809.65 |
| SD7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 623 | 0 | 635.43 | 1716.48 |
| SR3 | 0 | 45 | 0 | 16 | 37 | 0 | 23 | 11 | 0 | 12 | 434 | 0 | 56 | 633.98 | 1674.43 |
| SR1 | 0 | 0 | 0 | 4 | 15 | 0 | 5 | 0 | 0 | 30 | 271 | 0 | 9 | 332.92 | 874.76 |
| SR2 | 0 | 21 | 0 | 0 | 0 | 0 | 9 | 10 | 0 | 15 | 192 | 0 | 0 | 246.56 | 657.56 |
| Mather New Growth | 0 | 0 | 0 | 0 | 0 | 1990 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1990.38 | 4946.55 |

APPENDIX C
Sacramento County Water Agency Zone 40
Zone 40 Water System Infrastructure Plan

| Landuse | AG | COM | IND | MFHD | MFLD | MLU | PREC | PUB | RE | ROW | SF | UR | VAC | Total Acreages | Water Demand (AF/year) |
|--|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------|------------------------------|
| Unit Demand Factor (AFA/Year) | 0.00 | 2.75 | 2.71 | 4.12 | 3.70 | 2.51 | 3.46 | 1.04 | 1.33 | 0.21 | 2.89 | 2.75 | 0.00 | | |
| Demand Subregion | Acreages | | | | | | | | | | | | | | |
| Mather Mainbase | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 391 | 0 | 0 | 390.70 | 1129.10 |
| Mather Housing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 333 | 0 | 0 | 332.50 | 961.00 |
| Sunrise Corridor | 0 | 0 | 370 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 369.86 | 1002.31 |
| NSA Subtotal | 21 | 312 | 1424 | 181 | 602 | 1990 | 400 | 323 | 0 | 673 | 4825 | 796 | 1327 | 12874.73 | 30680.94 |

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| Landuse | AG | COM | IND | MFHD | MFLD | MLU | PREC | PUB | RE | ROW | SF | UR | VAC | Total Acreages | Water Demand (AF/year) |
|--|----------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|------------------------------|
| Unit Demand Factor (AFA/Year) | 0.00 | 2.75 | 2.71 | 4.12 | 3.70 | 2.51 | 3.46 | 1.04 | 1.33 | 0.21 | 2.89 | 2.75 | 0.00 | | |
| Demand Subregion | Acreages | | | | | | | | | | | | | | |
| CWTP-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79 | 1 | 0 | 0 | 0 | 80.09 | 105.25 |
| EGWA-01 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 18.71 | 45.60 |
| EGWA-02 | 0 | 18 | 99 | 0 | 0 | 0 | 0 | 9 | 282 | 61 | 177 | 0 | 150 | 795.61 | 1224.73 |
| EGWA-03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 142 | 14 | 0 | 0 | 0 | 155.99 | 191.92 |
| EGWA-04 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 9 | 130 | 102 | 274 | 0 | 121 | 647.03 | 1024.82 |
| EGWA-05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 322 | 18 | 0 | 0 | 0 | 340.19 | 432.42 |
| EGWA-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 92 | 2 | 0 | 0 | 0 | 94.28 | 123.17 |
| EGWA-07 | 0 | 14 | 14 | 0 | 0 | 0 | 0 | 3 | 134 | 20 | 197 | 0 | 22 | 404.02 | 830.26 |
| EGWA-08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 8.04 | 10.27 |
| EGWA-09 | 0 | 176 | 0 | 0 | 12 | 0 | 0 | 38 | 72 | 42 | 102 | 0 | 58 | 498.66 | 964.66 |
| EGWA-10 | 0 | 8 | 0 | 0 | 0 | 33 | 0 | 8 | 8 | 76 | 242 | 0 | 48 | 423.41 | 839.74 |
| EGWA-11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 677 | 20 | 0 | 0 | 0 | 698.58 | 906.45 |
| EGWA-12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 156 | 6 | 0 | 0 | 0 | 168.79 | 215.93 |
| FLGP-01 | 0 | 40 | 0 | 0 | 22 | 0 | 2 | 0 | 116 | 16 | 210 | 0 | 0 | 405.79 | 962.09 |
| FLGP-02 | 0 | 34 | 0 | 0 | 11 | 0 | 2 | 0 | 213 | 32 | 306 | 0 | 57 | 655.42 | 1316.62 |
| FLGP-03 | 0 | 38 | 0 | 0 | 28 | 0 | 2 | 0 | 0 | 12 | 195 | 0 | 4 | 278.83 | 780.94 |
| FLGP-04 | 0 | 39 | 0 | 0 | 15 | 0 | 4 | 0 | 0 | 16 | 271 | 0 | 9 | 353.64 | 961.93 |
| FLGP-05 | 0 | 0 | 0 | 0 | 26 | 0 | 2 | 0 | 0 | 7 | 127 | 0 | 0 | 161.11 | 469.16 |
| FLGP-06 | 0 | 15 | 733 | 0 | 0 | 0 | 6 | 0 | 30 | 52 | 446 | 0 | 4 | 1285.73 | 3177.15 |
| NTDA-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 22.40 | 29.70 |
| NTDA-02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 91 | 3 | 0 | 0 | 0 | 94.09 | 121.45 |
| NTDA-03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 541 | 13 | 0 | 0 | 0 | 554.01 | 722.11 |
| NTDA-04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 296 | 10 | 0 | 0 | 0 | 306.21 | 396.37 |
| NTDA-05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 309 | 12 | 0 | 0 | 0 | 321.56 | 414.22 |
| NTDA-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 253 | 12 | 0 | 0 | 0 | 267.73 | 341.96 |

APPENDIX C
Sacramento County Water Agency Zone 40
Zone 40 Water System Infrastructure Plan

| Landuse | AG | COM | IND | MFHD | MFLD | MLU | PREC | PUB | RE | ROW | SF | UR | VAC | Total Acreages | Water Demand (AF/year) |
|-------------------------------|----------|------------|-------------|------------|------------|-----------|------------|------------|-------------|-------------|-------------|----------|-------------|-----------------|------------------------|
| Unit Demand Factor (AFA/Year) | 0.00 | 2.75 | 2.71 | 4.12 | 3.70 | 2.51 | 3.46 | 1.04 | 1.33 | 0.21 | 2.89 | 2.75 | 0.00 | | |
| Demand Subregion | Acreages | | | | | | | | | | | | | | |
| NTDA-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 427 | 17 | 0 | 0 | 0 | 444.04 | 571.04 |
| NTDA-08 | 0 | 45 | 234 | 0 | 0 | 0 | 2 | 0 | 32 | 8 | 0 | 0 | 0 | 320.49 | 806.80 |
| NTDA-09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 308 | 5 | 0 | 0 | 0 | 313.15 | 410.62 |
| NTDA-10 | 0 | 0 | 80 | 0 | 0 | 0 | 0 | 0 | 1123 | 25 | 0 | 0 | 0 | 1228.63 | 1716.74 |
| NVSN-01 | 0 | 3 | 0 | 0 | 8 | 0 | 18 | 21 | 0 | 22 | 159 | 0 | 19 | 249.82 | 585.51 |
| NVSN-02 | 0 | 6 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 26 | 208 | 0 | 96 | 351.01 | 675.83 |
| NVSN-03 | 0 | 22 | 0 | 31 | 5 | 0 | 8 | 0 | 6 | 32 | 176 | 0 | 57 | 338.00 | 761.93 |
| NVSN-04 | 0 | 29 | 0 | 7 | 7 | 0 | 25 | 10 | 2 | 52 | 494 | 0 | 26 | 651.50 | 1671.07 |
| VNYD-01 | 0 | 17 | 0 | 0 | 83 | 9 | 0 | 105 | 8 | 122 | 542 | 0 | 21 | 907.47 | 2088.71 |
| VNYD-02 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 6 | 5 | 32 | 156 | 0 | 10 | 213.09 | 480.41 |
| VNYD-03 | 0 | 25 | 0 | 12 | 0 | 0 | 0 | 10 | 38 | 60 | 247 | 0 | 62 | 454.15 | 904.73 |
| VNYD-04 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 32 | 0 | 34 | 81.00 | 124.36 |
| VNYD-05 | 0 | 3 | 0 | 43 | 0 | 0 | 0 | 0 | 17 | 34 | 239 | 0 | 76 | 413.01 | 908.75 |
| VNYD-06 | 0 | 18 | 0 | 0 | 14 | 0 | 0 | 0 | 16 | 105 | 380 | 0 | 0 | 532.55 | 1242.95 |
| VNYD-07 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 22 | 94 | 0 | 0 | 152.70 | 351.43 |
| VNYD-08 | 0 | 0 | 0 | 7 | 8 | 0 | 0 | 0 | 0 | 23 | 56 | 0 | 0 | 93.85 | 224.14 |
| VNYD-09 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 14 | 46 | 128 | 0 | 48 | 244.50 | 432.11 |
| VSCP-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 108 | 40 | 271 | 0 | 67 | 498.84 | 948.83 |
| VSCP-02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 485 | 58 | 0 | 0 | 38 | 581.78 | 657.75 |
| VSCP-03 | 0 | 26 | 0 | 23 | 47 | 0 | 0 | 7 | 146 | 42 | 424 | 0 | 84 | 799.24 | 1774.56 |
| VSCP-04 | 0 | 0 | 0 | 0 | 0 | 0 | 142 | 0 | 209 | 50 | 30 | 0 | 36 | 467.34 | 868.08 |
| VSCP-05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 230 | 7 | 0 | 0 | 0 | 237.37 | 307.97 |
| GRNN-01 | 0 | 0 | 135 | 0 | 0 | 0 | 19 | 72 | 0 | 18 | 0 | 0 | 0 | 243.41 | 508.91 |
| GRNN-02 | 0 | 14 | 246 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 5 | 290.86 | 710.49 |
| CSA Subtotal | 0 | 634 | 1557 | 123 | 294 | 43 | 247 | 325 | 7165 | 1426 | 6182 | 0 | 1152 | 19147.72 | 36362.63 |

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Sacramento County Water Agency Zone 40
Zone 40 Water System Infrastructure Plan

| Landuse | AG | COM | IND | MFHD | MFLD | MLU | PREC | PUB | RE | ROW | SF | UR | VAC | Total Acreages | Water Demand (AF/year) |
|--|----------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|------------------------------|
| Unit Demand Factor (AFA/Year) | 0.00 | 2.75 | 2.71 | 4.12 | 3.70 | 2.51 | 3.46 | 1.04 | 1.33 | 0.21 | 2.89 | 2.75 | 0.00 | | |
| Demand Subregion | Acreages | | | | | | | | | | | | | | |
| FRKN-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 461 | 3 | 100 | 0 | 1 | 566.67 | 904.53 |
| FRKN-02 | 0 | 0 | 0 | 0 | 0 | 615 | 0 | 0 | 1 | 21 | 0 | 0 | 0 | 636.89 | 1550.26 |
| FRKN-03 | 0 | 0 | 0 | 56 | 24 | 0 | 39 | 16 | 2 | 61 | 286 | 0 | 1 | 484.54 | 1313.61 |
| FRKN-04 | 0 | 0 | 0 | 0 | 0 | 469 | 0 | 0 | 1 | 12 | 0 | 0 | 0 | 481.48 | 1180.03 |
| FRKN-05 | 0 | 4 | 0 | 16 | 0 | 0 | 11 | 31 | 7 | 20 | 478 | 0 | 0 | 566.59 | 1540.96 |
| FRKN-06 | 0 | 13 | 0 | 49 | 0 | 0 | 21 | 138 | 2 | 12 | 313 | 0 | 0 | 548.48 | 1364.96 |
| FRKN-07 | 0 | 446 | 8 | 10 | 0 | 108 | 0 | 0 | 0 | 60 | 0 | 0 | 2 | 634.36 | 1573.21 |
| FRKN-08 | 0 | 19 | 0 | 16 | 0 | 0 | 39 | 12 | 0 | 53 | 368 | 0 | 12 | 507.26 | 1340.98 |
| FRKN-09 | 0 | 13 | 0 | 49 | 0 | 0 | 21 | 138 | 2 | 12 | 367 | 0 | 0 | 602.40 | 1520.78 |
| FRKN-10 | 0 | 87 | 0 | 57 | 75 | 0 | 79 | 10 | 2 | 82 | 329 | 0 | 0 | 721.67 | 2007.50 |
| FRKN-11 | 0 | 32 | 0 | 24 | 29 | 148 | 103 | 138 | 1 | 47 | 202 | 0 | 6 | 730.29 | 1760.52 |
| FRKN-12 | 0 | 52 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 63.62 | 147.55 |
| LGNA-01 | 0 | 16 | 19 | 10 | 0 | 0 | 0 | 0 | 6 | 91 | 273 | 0 | 11 | 426.42 | 956.06 |
| LGNA-02 | 0 | 15 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 123 | 415 | 0 | 67 | 635.70 | 1332.32 |
| LGNA-03 | 0 | 12 | 0 | 14 | 14 | 0 | 149 | 3 | 0 | 74 | 251 | 0 | 38 | 554.11 | 1399.52 |
| LGNA-04 | 0 | 42 | 0 | 0 | 29 | 8 | 0 | 10 | 0 | 99 | 289 | 0 | 61 | 538.46 | 1110.17 |
| LGNA-05 | 0 | 13 | 0 | 12 | 0 | 33 | 0 | 28 | 0 | 80 | 206 | 0 | 12 | 384.30 | 808.30 |
| LGNA-06 | 0 | 75 | 0 | 7 | 9 | 126 | 0 | 2 | 19 | 82 | 115 | 0 | 39 | 474.41 | 961.92 |
| LGNA-07 | 0 | 1 | 52 | 14 | 0 | 0 | 0 | 0 | 0 | 57 | 95 | 0 | 24 | 242.75 | 486.13 |
| LGNA-08 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 106 | 302 | 0 | 84 | 519.04 | 1004.52 |
| LGNA-09 | 0 | 19 | 9 | 42 | 21 | 0 | 0 | 0 | 0 | 19 | 1 | 0 | 16 | 128.37 | 336.35 |
| LGNA-10 | 0 | 0 | 237 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 0 | 21 | 284.83 | 648.50 |
| LGNA-11 | 0 | 124 | 0 | 0 | 49 | 30 | 0 | 0 | 0 | 50 | 2 | 0 | 58 | 313.83 | 614.83 |
| LGNA-12 | 0 | 24 | 4 | 0 | 15 | 0 | 0 | 1 | 0 | 79 | 240 | 0 | 22 | 383.87 | 842.09 |
| LGNA-13 | 0 | 19 | 0 | 13 | 11 | 0 | 0 | 58 | 0 | 136 | 382 | 0 | 71 | 689.33 | 1336.98 |

APPENDIX C
Sacramento County Water Agency Zone 40
Zone 40 Water System Infrastructure Plan

| Landuse | AG | COM | IND | MFHD | MFLD | MLU | PREC | PUB | RE | ROW | SF | UR | VAC | Total Acreages | Water Demand (AF/year) |
|--|-----------|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|------------|-------------|-------------------|------------------------------|
| Unit Demand Factor (AFA/Year) | 0.00 | 2.75 | 2.71 | 4.12 | 3.70 | 2.51 | 3.46 | 1.04 | 1.33 | 0.21 | 2.89 | 2.75 | 0.00 | | |
| Demand Subregion | Acreages | | | | | | | | | | | | | | |
| LGNA-14 | 0 | 48 | 0 | 9 | 0 | 0 | 0 | 0 | 203 | 55 | 62 | 0 | 17 | 394.84 | 632.13 |
| LGNA-15 | 0 | 0 | 0 | 11 | 13 | 0 | 0 | 0 | 18 | 90 | 216 | 0 | 58 | 405.52 | 757.73 |
| SSA Subtotal | 0 | 1074 | 329 | 452 | 289 | 1538 | 462 | 585 | 725 | 1562 | 5293 | 0 | 621 | 12938.37 | 29432.44 |
| Total | 21 | 2038 | 3309 | 720 | 1186 | 3569 | 1117 | 1117 | 7889 | 3693 | 16540 | 796 | 3101 | 44883.54 | 96476.01 |
| System Loss (7.5%) | | | | | | | | | | | | | | | 7235 |
| Grand Total | | | | | | | | | | | | | | | 103711.01 |

Figure C-2. Water Demand Growth Projection - NSA

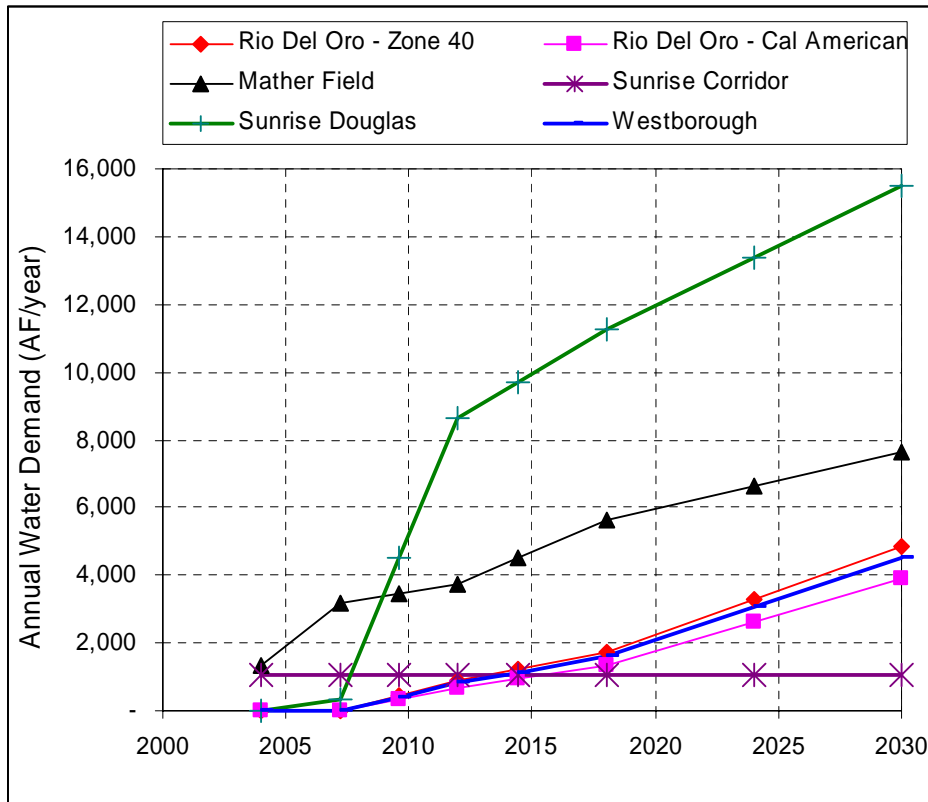


Figure C-3. Water Demand Growth Projection - CSA

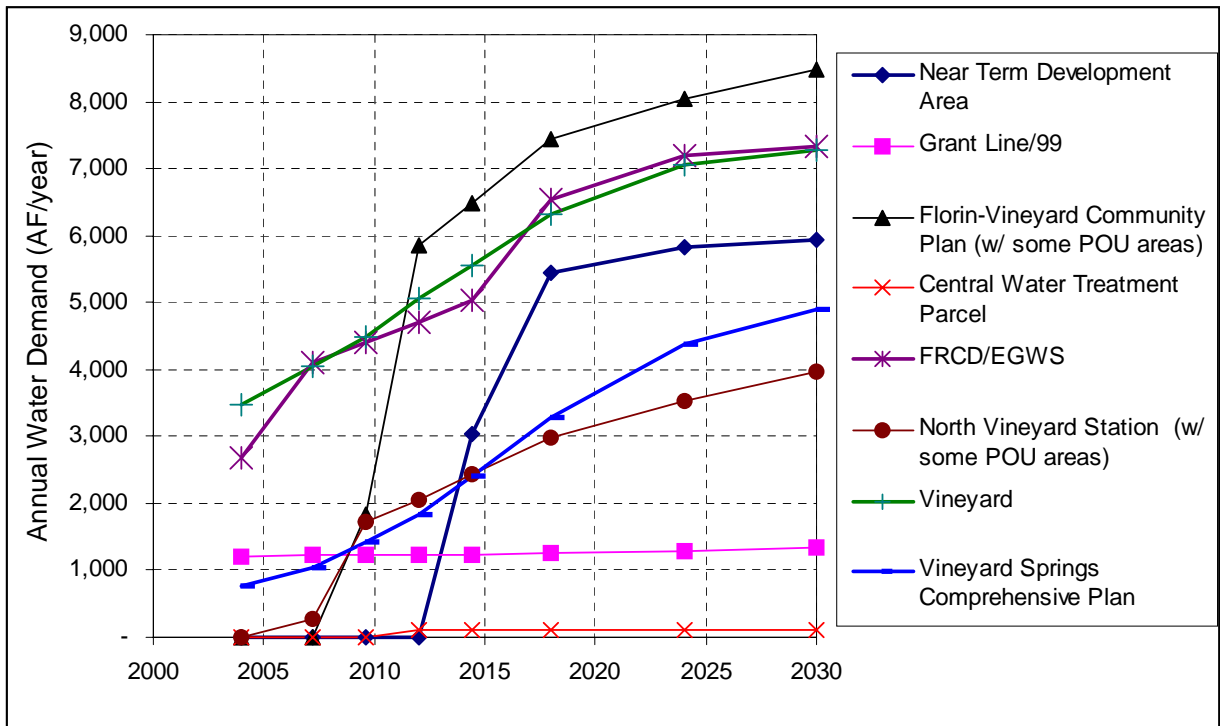


Figure C-4. Water Demand Growth Projection - SSA

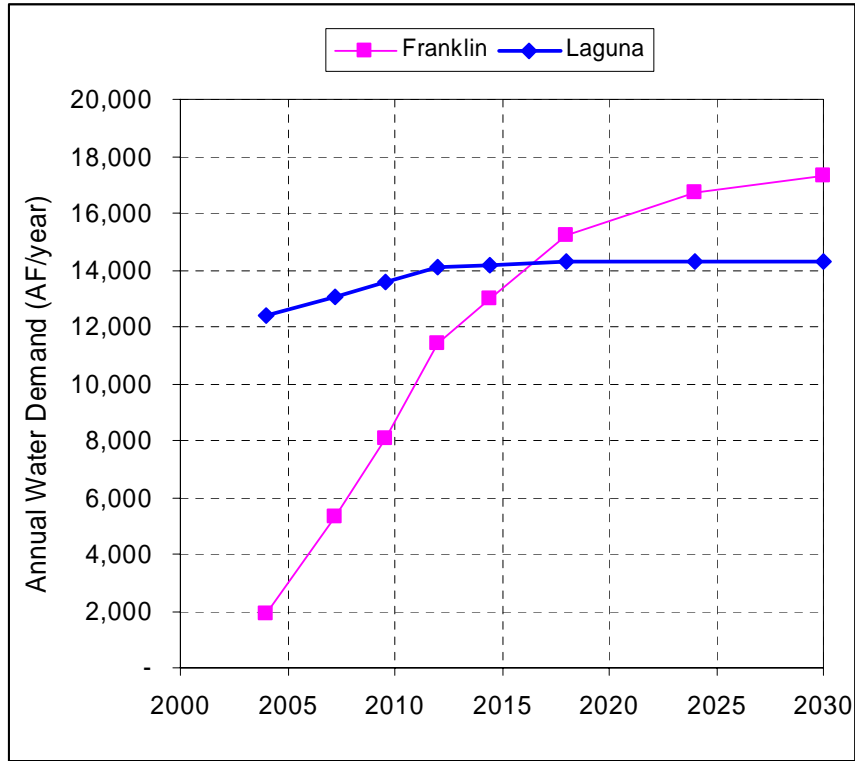


Figure C-5. Zone 40 Regional Areas

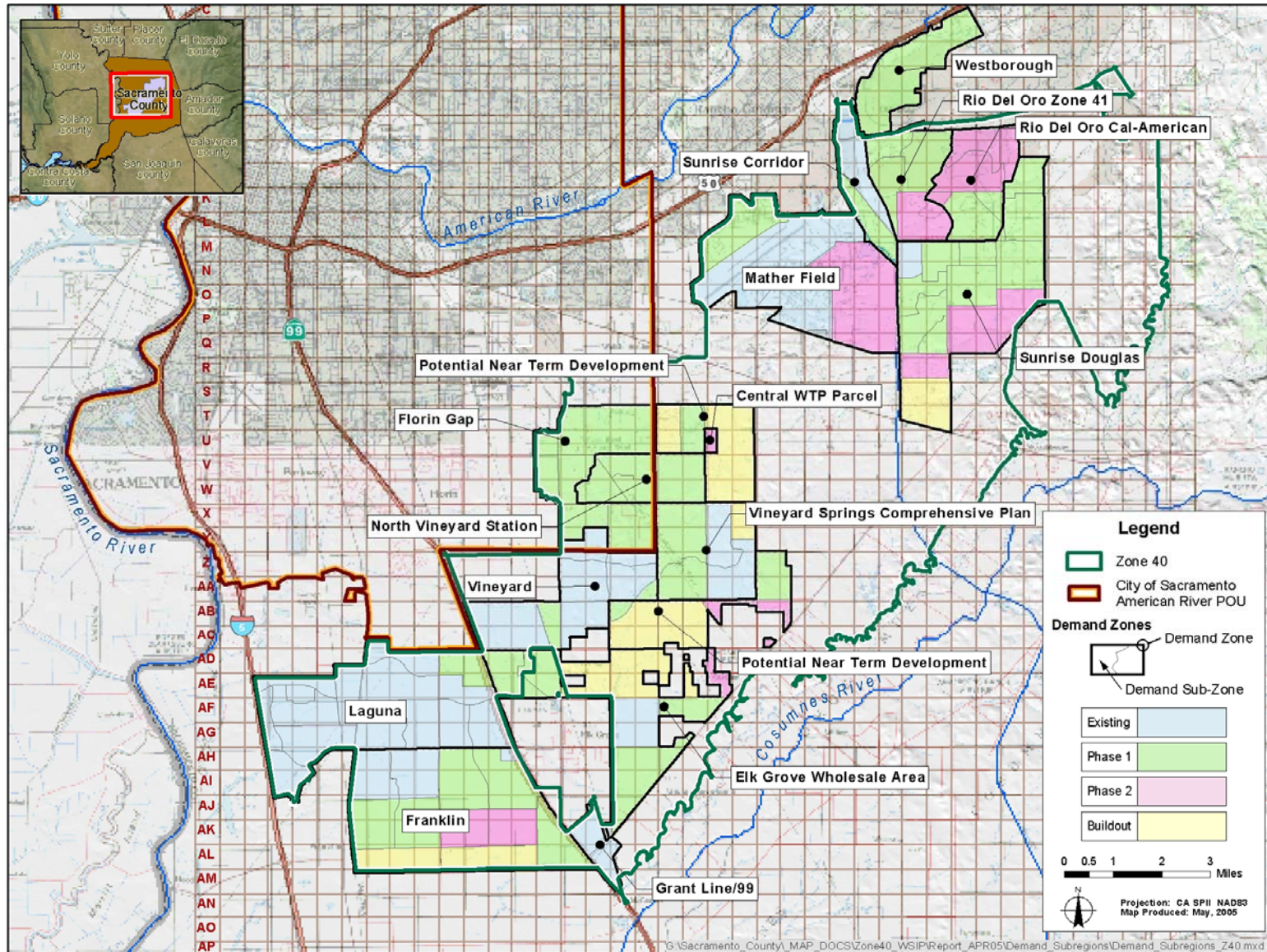


Figure C-6. Zone 40 Water Demand Distribution in AF/Ac/Year - NSA

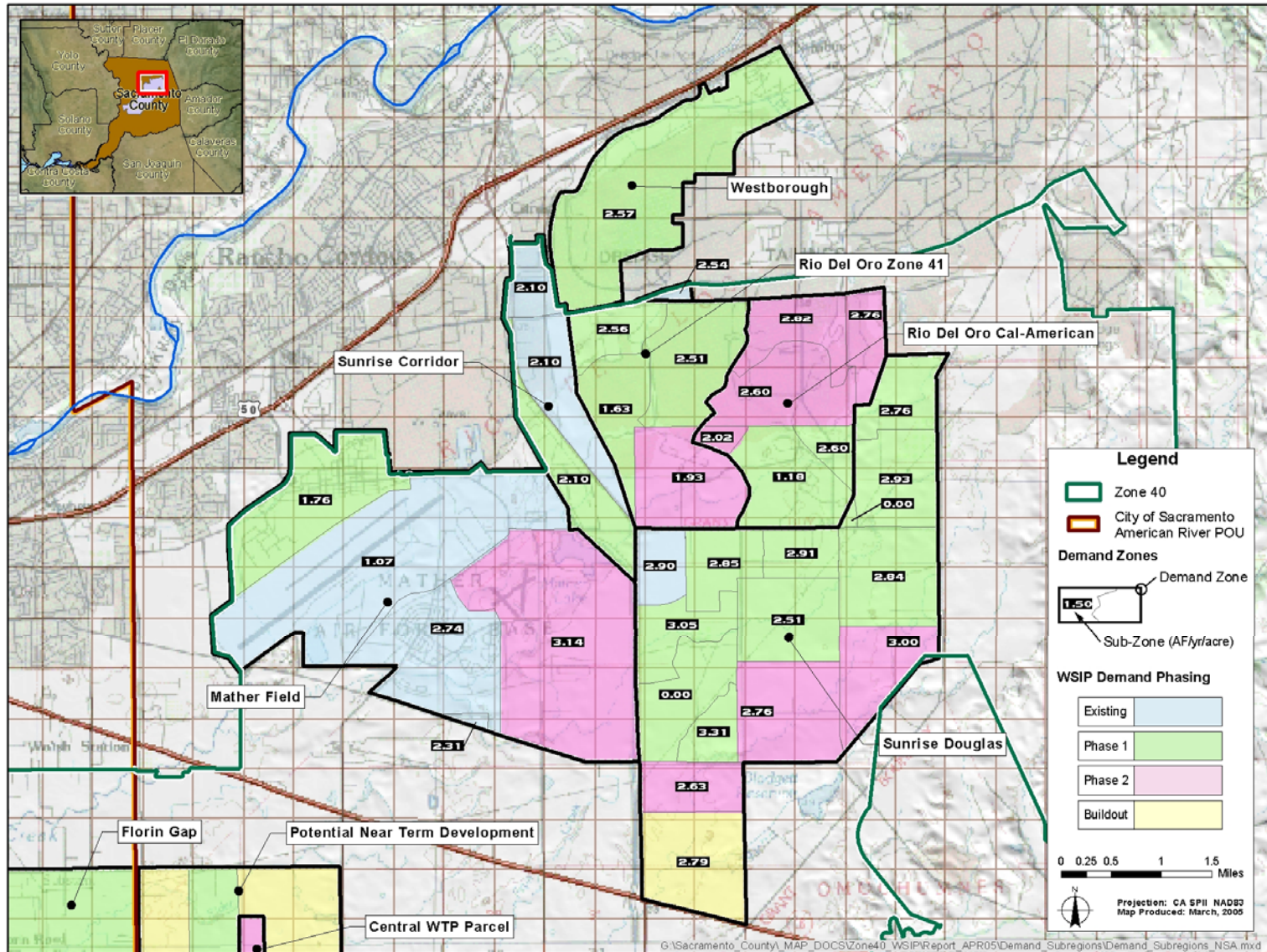


Figure C-6. Zone 40 Water Demand Distribution in AF/Ac/Year – CSA

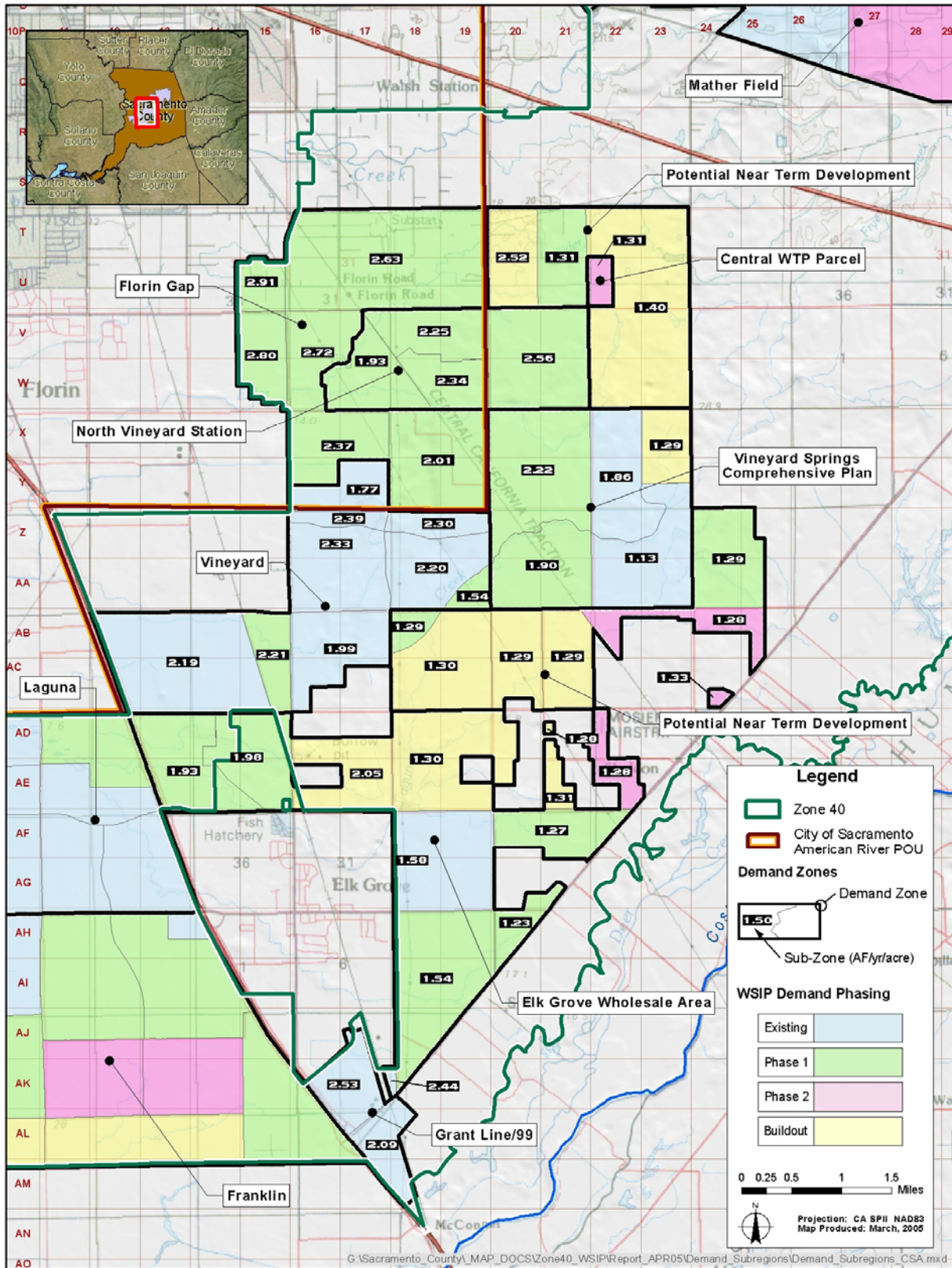


Figure C-6. Zone 40 Water Demand Distribution in AF/Ac/Year – SSA

