

## 5. IRRIGATION

### Table

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**5. IRRIGATION****5.1 SOURCES OF WATER SUPPLY 2007-08**

(in Numbers)

| <i>District</i>     | <i>Canals</i> |                     | <i>Tube Wells &amp; Other Wells</i> |
|---------------------|---------------|---------------------|-------------------------------------|
|                     | <i>Number</i> | <i>Length (Km.)</i> |                                     |
| <i>1</i>            | <i>2</i>      | <i>3</i>            | <i>4</i>                            |
| 1. Kancheepuram     | 20            | 184                 | 12249                               |
| 2. Thiruvallur      | 17            | 189                 | 21508                               |
| 3. Cuddalore        | 270           | 1058                | 36680                               |
| 4. Villupuram       | 196           | 845                 | 23734                               |
| 5. Vellore          | 604           | 1067                | 14936                               |
| 6. Thiruvannamalai  | 144           | 119                 | 1240                                |
| 7. Salem            | 78            | 233                 | 9552                                |
| 8. Namakkal         | 3             | 75                  | 5187                                |
| 9. Dharmapuri       | 85            | 187                 | 1117                                |
| 10. Krishnagiri     | 109           | 137                 | 8183                                |
| 11. Coimbatore      | 42            | 527                 | 29954                               |
| 12. Erode           | 13            | 772                 | 9905                                |
| 13. The Nilgiris    | 1             | 2                   | 0                                   |
| 14. Tiruchirappalli | 135           | 494                 | 7264                                |
| 15. Karur           | 23            | 226                 | 2055                                |
| 16. Perambalur      | 4             | 47                  | 12033                               |
| 17. Pudukottai      | 28            | 78                  | 13601                               |
| 18. Thanjavur       | 25            | 638                 | 46768                               |
| 19. Thiruvaur       | 13            | 612                 | 13669                               |
| 20. Nagapattinam    | 9             | 548                 | 16913                               |
| 21. Madurai         | 80            | 170                 | 871                                 |
| 22. Theni           | 107           | 226                 | 4298                                |
| 23. Dindigul        | 28            | 143                 | 3266                                |
| 24. Ramanathapuram  | 0             | 0                   | 310                                 |
| 25. Virudhunagar    | 0             | 0                   | 5                                   |
| 26. Sivagangai      | 19            | 20                  | 1458                                |
| 27. Tirunelveli     | 129           | 532                 | 1047                                |
| 28. Thoothukudi     | 4             | 78                  | 786                                 |
| 29. Kanyakumari     | 53            | 540                 | 1303                                |
| <b>STATE</b>        | <b>2239</b>   | <b>9747</b>         | <b>299892</b>                       |

## 5.1 SOURCES OF WATER SUPPLY 2007-08 (Concl.)

(in Numbers)

| <i>District</i>     | <i>Open Wells</i> | <i>Wells used for Domestic Purpose only</i> | <i>Reservoirs</i> | <i>Tanks</i> |
|---------------------|-------------------|---|-------------------|--------------|
| <i>1</i>            | <i>5</i>          | <i>6</i>                                    | <i>7</i>          | <i>8</i>     |
| 1. Kancheepuram     | 63411             | 48303                                       | 0                 | 1942         |
| 2. Thiruvallur      | 12775             | 65183                                       | 0                 | 1895         |
| 3. Cuddalore        | 10878             | 21965                                       | 1                 | 592          |
| 4. Villupuram       | 147332            | 42245                                       | 3                 | 2085         |
| 5. Vellore          | 95752             | 56298                                       | 3                 | 1355         |
| 6. Thiruvannamalai  | 143314            | 13427                                       | 1                 | 1965         |
| 7. Salem            | 108338            | 31218                                       | 3                 | 546          |
| 8. Namakkal         | 73249             | 9133  | 0                 | 259          |
| 9. Dharmapuri       | 82289             | 16265                                       | 7                 | 1015         |
| 10. Krishnagiri     | 56414             | 7137  | 4                 | 1327         |
| 11. Coimbatore      | 87752             | 12605                                       | 9                 | 77           |
| 12. Erode           | 121358            | 25362                                       | 7                 | 847          |
| 13. The Nilgiris    | 775               | 668   | 0                 | 0            |
| 14. Tiruchirappalli | 73830             | 7863  | 1                 | 1767         |
| 15. Karur           | 47230             | 6623  | 0                 | 266          |
| 16. Perambalur      | 44267             | 10891                                       | 2                 | 816          |
| 17. Pudukottai      | 24868             | 5527  | 0                 | 5451         |
| 18. Thanjavur       | 2515              | 35124                                       | 0                 | 428          |
| 19. Thiruvarur      | 164               | 18860                                       | 0                 | 0            |
| 20. Nagapattinam    | 4038              | 44992                                       | 0                 | 0            |
| 21. Madurai         | 47879             | 56364                                       | 2                 | 2287         |
| 22. Theni           | 24477             | 5937  | 3                 | 150          |
| 23. Dindigul        | 94088             | 15457                                       | 8                 | 3104         |
| 24. Ramanathapuram  | 7591              | 18664                                       | 0                 | 1694         |
| 25. Virudhunagar    | 35659             | 10162                                       | 6                 | 997          |
| 26. Sivagangai      | 16558             | 27852                                       | 0                 | 4966         |
| 27. Tirunelveli     | 78640             | 24973                                       | 13                | 2155         |
| 28. Thoothukudi     | 24770             | 12896                                       | 0                 | 651          |
| 29. Kanyakumari     | 2051              | 25358                                       | 5                 | 2623         |
| <b>STATE</b>        | <b>1532262</b>    | <b>677352</b>                               | <b>78</b>         | <b>41260</b> |

Source: Department of Economics and Statistics, Chennai-600 006

**5.2 SOURCE-WISE NET AREA IRRIGATED BY DISTRICTS 2007-08**

(in Hectares)

| <i>District</i>     | <i>Source</i> |               |                                     |
|---------------------|---------------|---------------|-------------------------------------|
|                     | <i>Canals</i> | <i>Tanks</i>  | <i>Tube Wells &amp; Other Wells</i> |
| <i>1</i>            | <i>2</i>      | <i>3</i>      | <i>4</i>                            |
| 1. Kancheepuram     | 135           | 57026         | 9096                                |
| 2. Thiruvallur      | 1643          | 13815         | 56292                               |
| 3. Cuddalore        | 43624         | 6960          | 85055                               |
| 4. Villupuram       | 2101          | 53999         | 48837                               |
| 5. Vellore          | 0             | 1127          | 15314                               |
| 6. Thiruvannamalai  | 1423          | 33324         | 1085                                |
| 7. Salem            | 4013          | 1372          | 9278                                |
| 8. Namakkal         | 6046          | 205           | 4911                                |
| 9. Dharmapuri       | 972           | 3290          | 773                                 |
| 10. Krishnagiri     | 756           | 7218          | 7115                                |
| 11. Coimbatore      | 47832         | 1384          | 26459                               |
| 12. Erode           | 87961         | 263           | 16489                               |
| 13. The Nilgiris    | 15            | 0             | 0                                   |
| 14. Tiruchirappalli | 38622         | 4696          | 7554                                |
| 15. Karur           | 15820         | 55            | 4769                                |
| 16. Perambalur      | 9496          | 5952          | 17865                               |
| 17. Pudukottai      | 8658          | 65714         | 22812                               |
| 18. Thanjavur       | 129791        | 306           | 36602                               |
| 19. Thiruvarur      | 145238        | 0             | 0                                   |
| 20. Nagapattinam    | 122729        | 0             | 0                                   |
| 21. Madurai         | 26854         | 25226         | 584                                 |
| 22. Theni           | 11142         | 1260          | 7694                                |
| 23. Dindigul        | 5610          | 6540          | 3686                                |
| 24. Ramanathapuram  | 0             | 53110         | 2922                                |
| 25. Virudhunagar    | 0             | 24024         | 11                                  |
| 26. Sivagangai      | 0             | 65416         | 1933                                |
| 27. Tirunelveli     | 20201         | 47755         | 878                                 |
| 28. Thoothukudi     | 11824         | 10127         | 1108                                |
| 29. Kanyakumari     | 10148         | 15906         | 157                                 |
| <b>STATE</b>        | <b>752654</b> | <b>506070</b> | <b>389279</b>                       |

Contd.

**5.2 SOURCE-WISE NET AREA IRRIGATED BY DISTRICTS 2007-08 (Concl.)**

(in Hectares)

| <i>District</i>     | <i>Source</i>     |                      | <i>Total</i>   |
|---------------------|-------------------|----------------------|----------------|
|                     | <i>Open Wells</i> | <i>Other Sources</i> |                |
| <i>1</i>            | <i>5</i>          | <i>6</i>             | <i>7</i>       |
| 1. Kancheepuram     | 56041             | 0                    | 122298         |
| 2. Thiruvallur      | 19877             | 0                    | 91627          |
| 3. Cuddalore        | 9954              | 1018                 | 146611         |
| 4. Villupuram       | 123020            | 36                   | 227993         |
| 5. Vellore          | 84548             | 12                   | 101001         |
| 6. Thiruvannamalai  | 113950            | 0                    | 149782         |
| 7. Salem            | 84363             | 1                    | 99027          |
| 8. Namakkal         | 48948             | 4485                 | 64595          |
| 9. Dharmapuri       | 60780             | 0                    | 65815          |
| 10. Krishnagiri     | 31103             | 0                    | 46192          |
| 11. Coimbatore      | 101711            | 1439                 | 178825         |
| 12. Erode           | 66373             | 2257                 | 173343         |
| 13. The Nilgiris    | 534               | 140                  | 689            |
| 14. Tiruchirappalli | 51392             | 0                    | 102264         |
| 15. Karur           | 29292             | 0                    | 49936          |
| 16. Perambalur      | 29608             | 83                   | 63004          |
| 17. Pudukottai      | 7699              | 0                    | 104883         |
| 18. Thanjavur       | 1041              | 0                    | 167740         |
| 19. Thiruvarur      | 0                 | 0                    | 145238         |
| 20. Nagapattinam    | 0                 | 646                  | 123375         |
| 21. Madurai         | 31012             | 5                    | 83681          |
| 22. Theni           | 38888             | 0                    | 58984          |
| 23. Dindigul        | 85842             | 960                  | 102638         |
| 24. Ramanathapuram  | 17213             | 0                    | 73245          |
| 25. Virudhunagar    | 34229             | 0                    | 58264          |
| 26. Sivagangai      | 9743              | 0                    | 77092          |
| 27. Tirunelveli     | 48274             | 185                  | 117293         |
| 28. Thoothukudi     | 18592             | 0                    | 41651          |
| 29. Kanyakumari     | 375               | 151                  | 26737          |
| <b>STATE</b>        | <b>1204402</b>    | <b>11418</b>         | <b>2863823</b> |

Source: Department of Economics and Statistics, Chennai-600 006

## 5.3 AREA SOWN AND IRRIGATED BY DISTRICTS 2007-08

(in Hectares)

| <i>District</i>     | <i>Net Area Irrigated</i> | <i>Net Area Sown</i> | <i>Percentage of Col.2 to Col.3</i> |
|---------------------|---------------------------|----------------------|-------------------------------------|
| <i>1</i>            | <i>2</i>                  | <i>3</i>             | <i>4</i>                            |
| 1. Kancheepuram     | 122298                    | 128584               | 95.11                               |
| 2. Thiruvallur      | 91627                     | 111546               | 82.14                               |
| 3. Cuddalore        | 146611                    | 216148               | 67.83                               |
| 4. Villupuram       | 227993                    | 335266               | 68.00                               |
| 5. Vellore          | 101001                    | 197252               | 51.20                               |
| 6. Thiruvannamalai  | 149782                    | 224500               | 66.72                               |
| 7. Salem            | 99027                     | 204100               | 48.52                               |
| 8. Namakkal         | 64595                     | 159380               | 40.53                               |
| 9. Dharmapuri       | 65815                     | 158387               | 41.55                               |
| 10. Krishnagiri     | 46192                     | 178587               | 25.87                               |
| 11. Coimbatore      | 178825                    | 307351               | 58.18                               |
| 12. Erode           | 173343                    | 290185               | 59.74                               |
| 13. The Nilgiris    | 689                       | 77572                | 0.89                                |
| 14. Tiruchirappalli | 102264                    | 174280               | 58.68                               |
| 15. Karur           | 49936                     | 96603                | 51.69                               |
| 16. Perambalur      | 63004                     | 210682               | 29.90                               |
| 17. Pudukottai      | 104883                    | 151760               | 69.11                               |
| 18. Thanjavur       | 167740                    | 195311               | 85.88                               |
| 19. Thiruvaur       | 145238                    | 150900               | 96.25                               |
| 20. Nagapattinam    | 123375                    | 154044               | 80.09                               |
| 21. Madurai         | 83681                     | 141825               | 59.00                               |
| 22. Theni           | 58984                     | 112405               | 52.47                               |
| 23. Dindigul        | 102638                    | 236221               | 43.45                               |
| 24. Ramanathapuram  | 73245                     | 187167               | 39.13                               |
| 25. Virudhunagar    | 58264                     | 129951               | 44.84                               |
| 26. Sivagangai      | 77092                     | 112144               | 68.74                               |
| 27. Tirunelveli     | 117293                    | 164089               | 71.48                               |
| 28. Thoothukudi     | 41651                     | 175708               | 23.70                               |
| 29. Kanyakumari     | 26737                     | 79971                | 33.43                               |
| <b>STATE</b>        | <b>2863823</b>            | <b>5061919</b>       | <b>56.58</b>                        |

**5.3 AREA SOWN AND IRRIGATED BY DISTRICTS 2007-08 (Concl.)**

(in Hectares)

| <i>District</i>     | <i>Gross Area Irrigated</i> | <i>Gross Area Sown</i> | <i>Percentage of Col. 5 to Col. 6</i> |
|---------------------|-----------------------------|------------------------|---------------------------------------|
| <i>1</i>            | <i>5</i>                    | <i>6</i>               | <i>7</i>                              |
| 1. Kancheepuram     | 130746                      | 137061                 | 95.39                                 |
| 2. Thiruvallur      | 111230                      | 132154                 | 84.17                                 |
| 3. Cuddalore        | 173290                      | 290239                 | 59.71                                 |
| 4. Villupuram       | 257202                      | 374360                 | 68.70                                 |
| 5. Vellore          | 121130                      | 221859                 | 54.60                                 |
| 6. Thiruvannamalai  | 197419                      | 275403                 | 71.68                                 |
| 7. Salem            | 107624                      | 218423                 | 49.27                                 |
| 8. Namakkal         | 80151                       | 183897                 | 43.58                                 |
| 9. Dharmapuri       | 75842                       | 180382                 | 42.05                                 |
| 10. Krishnagiri     | 47671                       | 187297                 | 25.45                                 |
| 11. Coimbatore      | 187266                      | 321526                 | 58.24                                 |
| 12. Erode           | 191441                      | 308398                 | 62.08                                 |
| 13. The Nilgiris    | 689                         | 77572                  | 0.89                                  |
| 14. Tiruchirappalli | 111294                      | 191982                 | 57.97                                 |
| 15. Karur           | 52447                       | 99903                  | 52.50                                 |
| 16. Perambalur      | 71070                       | 221968                 | 32.02                                 |
| 17. Pudukottai      | 105634                      | 152654                 | 69.20                                 |
| 18. Thanjavur       | 206320                      | 280220                 | 73.63                                 |
| 19. Thiruvarur      | 166145                      | 263067                 | 63.16                                 |
| 20. Nagapattinam    | 150105                      | 282252                 | 53.18                                 |
| 21. Madurai         | 92600                       | 150976                 | 61.33                                 |
| 22. Theni           | 66351                       | 119934                 | 55.32                                 |
| 23. Dindigul        | 107899                      | 245176                 | 44.01                                 |
| 24. Ramanathapuram  | 73245                       | 187167                 | 39.13                                 |
| 25. Virudhunagar    | 62638                       | 134596                 | 46.54                                 |
| 26. Sivagangai      | 77170                       | 112226                 | 68.76                                 |
| 27. Tirunelveli     | 144041                      | 192493                 | 74.83                                 |
| 28. Thoothukudi     | 46046                       | 180989                 | 25.44                                 |
| 29. Kanyakumari     | 36974                       | 91000                  | 40.63                                 |
| <b>STATE</b>        | <b>3251680</b>              | <b>5815174</b>         | <b>55.92</b>                          |

Source: Department of Economics and Statistics, Chennai-6  
www.jeywin.com

**5.4 PRINCIPAL CROP-WISE AREA IRRIGATED 2007-08**

| <b>Crop</b>           | <b>Area (in Hectares)</b> |                   | <b>%</b>      |
|-----------------------|---------------------------|-------------------|---------------|
|                       | <b>Area Irrigated</b>     | <b>Total Area</b> |               |
| <b>Paddy</b>          | <b>1659446</b>            | <b>1789170</b>    | <b>92.75</b>  |
| <b>Cholam (Jowar)</b> | <b>18787</b>              | <b>283526</b>     | <b>6.63</b>   |
| <b>Cumbu (Bajra)</b>  | <b>4132</b>               | <b>59798</b>      | <b>6.91</b>   |
| <b>Ragi</b>           | <b>11541</b>              | <b>93701</b>      | <b>12.32</b>  |
| <b>Sugarcane</b>      | <b>354012</b>             | <b>354022</b>     | <b>100.00</b> |
| <b>Cotton</b>         | <b>35452</b>              | <b>99335</b>      | <b>35.69</b>  |
| <b>Ground nut</b>     | <b>193595</b>             | <b>535211</b>     | <b>36.17</b>  |
| <b>Other Crops</b>    | <b>974715</b>             | <b>2600411</b>    | <b>37.48</b>  |

*Source: Department of Economics and Statistics, Chennai-6*

**5.5 WATER LEVEL AND RELEASE OF WATER IN CERTAIN RESERVOIRS  
FOR THE YEAR 2008-09**

| <i>Name of the Reservoir</i> | <i>Full Reservoir Depth in</i> |             | <i>Capacity @ F.R.L in M.Cum</i> | <i>Capacity @ F.R.L in M.cft</i> |
|------------------------------|--------------------------------|-------------|----------------------------------|----------------------------------|
|                              | <i>Metres</i>                  | <i>Feet</i> |                                  |                                  |
| <i>1</i>                     | <i>2</i>                       | <i>3</i>    | <i>4</i>                         | <i>5</i>                         |
| 1. Mettur                    | 36.58                          | 120         | 2647                             | 93470                            |
| 2. Bhavanisagar              | 32.00                          | 105         | 929                              | 32800                            |
| 3. Amaravathy                | 33.53                          | 110         | 115                              | 4047                             |
| 4. Periyar                   | 46.33                          | 152         | 299                              | 10570                            |
| 5. Vaigai                    | 21.64                          | 71          | 172                              | 6091                             |
| 6. Papanasam                 | 45.11                          | 148         | 156                              | 5500                             |
| 7. Manimuthar                | 35.97                          | 118         | 156                              | 5511                             |
| 8. Pechiparai                | 14.63                          | 48          | 126                              | 4450                             |
| 9. Perunchani                | 23.47                          | 77          | 82                               | 2890                             |
| 10. Krishnagiri              | 15.85                          | 52          | 47                               | 1666                             |
| 11. Sathanur                 | 36.27                          | 119         | 207                              | 7321                             |
| 12. Poondi                   | 10.66                          | 35          | 91                               | 3231                             |
| 13. Sholayar                 | 48.77                          | 160         | 143                              | 5052                             |
| 14. Parambikulam             | 21.95                          | 72          | 380                              | 13408                            |
| 15. Aliyar                   | 36.58                          | 120         | 109                              | 3864                             |
| 16. Thirumoothy              | 18.29                          | 60          | 49                               | 1744                             |

| <i>Name of Reservoir</i> | <i>Highest Level Reached</i> |             | <i>Lowest Level Reached</i> |             | <i>Total Water Released in</i> |
|--------------------------|------------------------------|-------------|-----------------------------|-------------|--------------------------------|
|                          | <i>Metres</i>                | <i>Date</i> | <i>Metres</i>               | <i>Date</i> | <i>TMC</i>                     |
| <i>1</i>                 | <i>6</i>                     | <i>7</i>    | <i>8</i>                    | <i>9</i>    | <i>10</i>                      |
| 1. Mettur                | 31.47                        | 12.06.08    | 15.84                       | 17.05.09    | 241.64                         |
| 2. Bhavanisagar          | 30.55                        | 31.08.08    | 14.02                       | 31.05.09    | 58.95                          |
| 3. Amaravathy            | 33.53                        | 27.12.08    | 12.27                       | 09.05.09    | 13.49                          |
| 4. Periyar               | 40.57                        | 01.06.08    | 33.13                       | 11.03.09    | 21.66                          |
| 5. Vaigai                | 21.35                        | 01.06.08    | 8.37                        | 31.05.09    | 23.99                          |
| 6. Papanasam             | 43.40                        | 14.12.08    | 9.22                        | 15.07.09    | 24.97                          |
| 7. Manimuthar            | 35.97                        | 22.12.08    | 17.34                       | 29.07.08    | 8.58                           |
| 8. Pechiparai            | 14.16                        | 12.12.08    | 9.02                        | 10.03.08    | 12.80                          |
| 9. Perunchani            | 22.98                        | 04.12.08    | 7.86                        | 23.07.08    | 7.09                           |
| 10. Krishnagiri          | 15.80                        | 15.12.08    | 10.33                       | 28.04.09    | 9.75                           |
| 11. Sathanur             | 36.27                        | 01.01.09    | 23.12                       | 30.05.09    | 6.49                           |
| 12. Poondi               | 10.66                        | 04.12.08    | 6.78                        | 20.09.09    | 5.09                           |
| 13. Sholayar             | 49.39                        | 12.09.08    | 0.87                        | 05.05.09    | 17.69                          |
| 14. Parambikulam         | 20.50                        | 28.10.08    | 5.07                        | 28.04.09    | 20.15                          |
| 15. Aliyar               | 35.66                        | 06.11.08    | 21.60                       | 23.02.09    | 11.10                          |
| 16. Thirumoothy          | 18.07                        | 22.06.09    | 6.44                        | 02.05.09    | 18.74                          |

Source: The Chief Engineer (Operation & Maintenance I.S.W.), Chennai – 5