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# Evaluation of municipal water demand and related parameters

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# APPENDIX A

*Comprehensive Summary of Data Characteristics*

***Summary of Available Data: Characteristics Table 1***

| Municipality | Development Characteristic | Towns and Cities | Economic and Development Attribute | Water Region (DWAF) | Number of records | Total Number of Stands | Number of Vacant records | Number of Vacant Stands | Number of Occupied Stands | Large User Definition (kL/day) | Number of Large Users (Stands) | Number of Large Users (meters) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Beaufort West | Rural | Beaufort West | Inland Town | Southern Coastal | 7,443 | 6,941 | 878 | 830 | 6,111 | 20 | 13 | 32 |
| BergRiver | Rural | Veldrif, Porterville, Piketberg, Laaiplek, Aurora, Eendekuil, Dwarskersbos, Redelingshuys | Coastal Town | South Western | 10,012 | 10,012 | | 6,386 | 3,626 | 20 | | 5,258 |
| Blaauwberg | Urban | Blaauwberg, Milnerton, Mamre, Atlantis, Melkbos | Coastal Metro | South Western | 55,362 | 49,298 | 20,509 | 16,415 | 32,883 | 50 | 51 | 59 |
| Breede River | Rural | Robertson, Bonnievale, Ashton, Montagu, McGregor | inland town | South Western | 20,612 | 20,079 | 9,249 | 9,244 | 10,835 | 20 | 7,064 | 4,405 |
| Breede Valley | Rural | Worcester | Inland Town | South Western | 15,389 | 15,075 | 2,299 | 2,285 | 12,790 | 20 | 58 | 71 |
| Buffalo City | Urban | East London | Coastal City | Eastern Coastal | 129,453 | 119,748 | 48,030 | 47,877 | 71,871 | 20 | 234 | 1,498 |
| Cape Agulhas | Rural | Bredasdorp, Waenhuiskrans, Struisbaai, Suiderstrand, Napier, Klipdale, Lagulhas | Coastal Town | South Western | 8,588 | 8,576 | 1,869 | 1,867 | 6,709 | 20 | 5 | 5 |
| Cederberg | Rural | Clanwilliam, Citrusdal, Lamberts Bay, Graafwater, Elands Bay, Leipoldtville | Inland Town | South Western | 7,158 | 6,881 | 2,308 | 2,307 | 4,574 | 20 | 39 | 96 |
| Drakenstein | Urban | Wellington, Paarl, Gouda, Bainskloof, Hermon, Mbekweni | Inland Town | South Western | 40,772 | 37,076 | 11,110 | 11,046 | 26,030 | 50 | 297 | 2,090 |
| Ekurhuleni | Urban | Alberton | Inland Metro | Northern | 41,365 | 40,065 | 6,925 | 6,879 | 33,186 | 20 | 151 | 541 |
| Ekurhuleni | Urban | Germiston | Inland Metro | Northern | 122,569 | 117,846 | 42,378 | 42,094 | 75,752 | 20 | 420 | 1,322 |
| Ekurhuleni | Urban | Kempton Park | Inland Metro | Northern | 90,163 | 87,779 | 33,753 | 33,532 | 54,247 | 20 | 233 | 619 |
| Ekurhuleni | Urban | Lethabong | Inland Metro | Northern | 25,843 | 25,150 | 9,374 | 9,345 | 15,805 | 20 | 90 | 169 |
| Ekurhuleni | Urban | Nigel | Inland Metro | Northern | 29,662 | 27,420 | 6,435 | 5,829 | 21,591 | 20 | 42 | 494 |
| Ekurhuleni | Urban | Springs | Inland Metro | Northern | 46,884 | 45,461 | 12,497 | 12,461 | 33,000 | 20 | 85 | 259 |
| Ekurhuleni | Urban | Benoni | Inland Metro | Northern | 104,407 | 100,921 | 46,503 | 46,448 | 54,473 | 20 | 141 | 474 |

| Municipality | Development Characteristic | Towns and Cities | Economic and Development Attribute | Water Region (DWAF) | Number of records | Total Number of Stands | Number of Vacant records | Number of Vacant Stands | Number of Occupied Stands | Large User Definition (kL/day) | Number of Large Users (Stands) | Number of Large Users (meters) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ekurhuleni | Urban | Boksburg | Inland Metro | Northern | 82,503 | 72,334 | 22,267 | 14,040 | 58,294 | 20 | 194 | 784 |
| Ekurhuleni | Urban | Brakpan | Inland Metro | Northern | 64,776 | 63,812 | 49,400 | 49,327 | 14,485 | 20 | 56 | 220 |
| George | Rural | George, Heroldsbay, Wildernis, Twee Rivieren | Coastal Town | Southern Coastal | 33,292 | 33,229 | 8,155 | 8,151 | 25,078 | 20 | | 48 |
| Helderberg | Urban | Gordons Bay, Strand, Somerset West, Maccasar | Coastal Town | South Western | 38,420 | 37,830 | 4,755 | 4,656 | 33,174 | 50 | 26 | 44 |
| Johannesburg Water | Urban | Lethabong | Inland Metro | Northern | 6,594 | 6,398 | 2,923 | 2,914 | 3,484 | 20 | 3 | 84 |
| Johannesburg Water | Urban | Midrand | Inland Metro | Northern | 41,086 | 39,699 | 23,134 | 23,044 | 16,655 | 20 | 91 | 224 |
| Johannesburg Water | Urban | Northern Johannesburg (Sandton, Randburg,Bryanston, Sunninghill, Morningside) | Inland Metro | Northern | 132,061 | 123,262 | 67,218 | 64,847 | 58,415 | 20 | 490 | 1,736 |
| Johannesburg Water | Urban | Southern Johannesburg 1 | Inland Metro | Northern | 106,225 | 96,235 | 48,743 | 46,198 | 50,037 | 20 | 528 | 3,633 |
| Johannesburg Water | Urban | Southern Johannesburg (Soweto) | Inland Metro | Northern | 165,967 | 160,076 | 149,650 | 146,682 | 13,394 | 20 | 154 | 1,005 |
| Johannesburg Water | Urban | Eastern Johannesburg | Inland Metro | Northern | 128,483 | 118,315 | 53,668 | 52,324 | 65,991 | 20 | 1,376 | 3,276 |
| Johannesburg Water | Urban | Western Johannesburg | Inland Metro | Northern | 118,793 | 105,494 | 78,386 | 69,016 | 36,478 | 20 | 258 | 1,448 |
| Langeberg | Rural | Albertina, Gouritsmond, Heidelberg, Jongensfontein, Riversdale, Slangrivier, Stilbaai, Theronsville, Witsand | Coastal and Inland Town | Southern Coastal | 18,682 | 16,008 | 7,091 | 6,999 | 9,009 | 10 | 154 | 1,565 |
| Matzikama | Rural | Klawer, Lutzville, Vanrhynsdorp, Vredendal | Inland Town | South Western | 8,706 | 8,317 | 1,637 | 1,545 | 6,772 | 10 | 41 | 103 |
| Mossel Bay | Rural | Mossel Bay, Dana Bay, Klein Brak, Hartenbos | Coastal Town | Southern Coastal | 34,439 | 32,157 | 15,963 | 15,804 | 16,353 | 20 | 45 | 385 |
| Oostenberg | Urban | Brackenfell, Blue Downs, Kuilsrivier | Coastal Metro | South Western | 62,076 | 61,300 | 5,461 | 4,923 | 56,377 | 20 | 99 | 104 |
| Oudtshoorn | Rural | Oudtshoorn | Inland Town | Southern Coastal | 23,366 | 14,335 | 12,000 | | | | | |

| Municipality | Development Characteristic | Towns and Cities | Economic and Development Attribute | Water Region (DWAF) | Number of records | Total Number of Stands | Number of Vacant records | Number of Vacant Stands | Number of Occupied Stands | Large User Definition (kL/day) | Number of Large Users (Stands) | Number of Large Users (meters) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Overstrand | Rural | Gansbaai, Hermanus, Kleinmond, Stanford | Coastal and Inland Town | South Western | 30,515 | 30,307 | 9,236 | 9,185 | 21,122 | 20 | 28 | 32 |
| Plettenberg Bay | Rural | Plettenberg Bay | Coastal Town | Southern Coastal | 9,299 | 9,155 | 1,696 | 1,688 | 7,467 | 10 | 39 | 112 |
| Randfontein | Urban | Randfontein, Mohlakeng | Inland Town | Northern | 19,304 | 17,979 | 174 | 139 | 17,840 | 15 | 47 | 238 |
| Saldanha Bay | Rural | Langebaan,Paternoster, Jacobsbaai, Vredenburg, St Helena Bay, Hopefield, Ongegund, Louwville | Coastal Town | South Western | 23,750 | 23,481 | 6,589 | 6,565 | 16,916 | 20 | 73 | 119 |
| Sedibeng | Urban | Sharpville, Sebokeng, Boipatong, Evaton, Stretford, Vereeniging, Meyerton, Kanana, Hartebeestfontein, Klipwater, Walkerville | Inland Town | Central | 172,383 | 170,126 | 129,554 | 129,357 | 40,769 | 20 | 213 | 773 |
| Stellenbosch | Urban | Stellenbosch | Inland Town | South Western | 15,250 | 14,335 | 3,249 | 3,162 | 11,173 | 20 | 98 | 131 |
| Swartland | Rural | Abbotsdale, Chatsworth, Grottobaai, Darling, Malmesbury, Morreesburg, Koringberg, Riebeeck Wes, Riebeeck Kasteel,Yzerfontein | Inland Town | South Western | 23,652 | 22,763 | 9,018 | 9,014 | 13,749 | 10 | 62 | 382 |
| Theewaterskloof | Rural | Caledon, Grabouw, Genadedal, Greyton, Riversonderend, Villiersdorp | Inland Town | South Western | 16,852 | 16,305 | 6,230 | 6,180 | 10,125 | 20 | 19 | 124 |
| Tshwane | Urban | Atteridgeville | Inland Metro | Northern | 18,063 | 17,753 | 2,899 | 2,839 | 14,914 | 20 | 30 | 98 |
| Tshwane | Urban | Centurion | Inland Metro | Northern | 37,253 | 35,652 | 1,742 | 1,703 | 33,949 | 20 | 139 | 318 |
| Tshwane | Urban | Mamelodi | inland metro | Northern | 38,642 | 38,493 | 7,184 | 7,168 | 31,325 | 20 | 48 | 78 |
| Tshwane | Urban | NPMSS - Akasia, Rosslyn, Shoshanghuve | Inland Metro | Northern | 88,102 | 84,900 | 19,958 | 19,814 | 65,086 | 20 | 131 | 319 |

| Municipality | Development Characteristic | Towns and Cities | Economic and Development Attribute | Water Region (DWAF) | Number of records | Total Number of Stands | Number of Vacant records | Number of Vacant Stands | Number of Occupied Stands | Large User Definition (kL/day) | Number of Large Users (Stands) | Number of Large Users (meters) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tshwane | Urban | Odi (Garankua) | Inland Metro | Northern | 59,171 | 45,793 | 1,263 | 1,217 | 44,576 | 20 | 103 | 2,516 |
| Tshwane | Urban | Pretoria | Inland Metro | Northern | 174,000 | 146,691 | 43,546 | 38,917 | 107,774 | 20 | 974 | 3,703 |
| Tshwane | Urban | Temba (Hammanskraal) | Inland Metro | Northern | 12,231 | 12,108 | 933 | 929 | 11,179 | 20 | 42 | 111 |
| Tygerberg | Urban | Belville, CapeTown, Delft, Durbanville, Goodwood, Mfuleni, Khayelitsha, Parow | Coastal Metro | South Western | 224,878 | 196,036 | 71,139 | 62,385 | 133,651 | 20 | 423 | 4,362 |
| **TOTAL** | | | | | **2,784,496** | **2,589,006** | **1,118,978** | **1,065,577** | **1,509,094** | **985** | **14,907** | **45,467** |

***Summary of Available Data: Characteristics Table 2***

| Municipality | Towns and Cities | Number of domestic stands | % domestic stands of all stands | % of all records with zero stand area | Number of Records with Zero Stand Area | % of all records with zero stand value | Number of Records with Zero Stand Value | % of all stands with unknown land use assigned | Number of Stands with unknown landuse assigned |
|---|---|---|---|---|---|---|---|---|---|
| Beaufort West | Beaufort West | 6,227 | 89.71% | 31.66% | 2,356 | 26.39% | 1,964 | 6.21% | 431 |
| BergRiver | Veldrif, Porterville, Piketberg, Laaiplek, Aurora, Eendekuil, Dwarskersbos, Redelingshuys | | | 10.03% | 1,004 | 17.36% | 1,738 | 37.09% | |
| Blaauwberg | Blaauwberg, Milnerton, Mamre, Atlantis, Melkbos | 40,815 | 82.73% | 0.37% | 205 | 18.14% | 10,043 | 10.75% | 5,300 |
| Breede River | Robertson, Bonnievale, Ashton, Montagu, McGregor | 7,408 | 36.89% | 25.21% | 5,196 | 44.10% | 9,090 | 0.03% | 6 |
| Breede Valley | Worcester | 13,902 | 92.22% | 4.78% | 736 | 2.48% | 382 | 0.03% | 5 |
| Buffalo City | East London | 102,665 | 85.73% | 0.17% | 220 | 11.72% | 15,165 | 9.85% | 11,795 |
| Cape Agulhas | Bredasdorp, Waenhuiskrans, Struisbaai, Suiderstrand, Napier, Klipdale, Lagulhas | 8,136 | 94.87% | 1.79% | 154 | 6.25% | 537 | 0.00% | 0 |
| Cederberg | Clanwilliam, Citrusdal, Lamberts Bay, Graafwater, Elands Bay, Leipoldtville | 6,838 | 99.38% | 3.20% | 229 | 18.51% | 1,325 | 0.00% | 0 |
| Drakenstein | Wellington, Paarl, Gouda, Bainskloof, Hermon, Mbekweni | 15,647 | 42.20% | 0.11% | 45 | 11.27% | 4,595 | 30.08% | 11,152 |
| Ekurhuleni | Alberton | 34,055 | 85.00% | 0.00% | 0 | 1.03% | 426 | 2.85% | 1,142 |
| Ekurhuleni | Germiston | 107,602 | 91.31% | 0.37% | 454 | 14.37% | 17,613 | 2.42% | 2,852 |
| Ekurhuleni | Kempton Park | 82,262 | 93.71% | 0.13% | 117 | 20.73% | 18,691 | 0.36% | 316 |
| Ekurhuleni | Lethabong | 19,217 | 76.41% | 13.61% | 3,517 | 20.50% | 5,298 | 16.74% | 4,210 |
| Ekurhuleni | Nigel | 24,142 | 88.05% | 3.24% | 961 | 12.54% | 3,720 | 1.88% | 515 |
| Ekurhuleni | Springs | 40,267 | 88.57% | 0.00% | 0 | 4.82% | 2,260 | 1.92% | 873 |
| Ekurhuleni | Benoni | 95,160 | 94.29% | 0.00% | 4 | 0.26% | 271 | 0.36% | 363 |
| Ekurhuleni | Boksburg | 65,672 | 90.79% | 0.00% | 0 | 20.90% | 17,243 | 1.62% | 1,172 |
| Ekurhuleni | Brakpan | 60,988 | 95.57% | 0.01% | 7 | 8.43% | 5,461 | 0.51% | 325 |
| George | George, Heroldsbay, Wildernis, Twee Rivieren | 13,596 | 54.09% | 3.15% | 1,049 | 4.11% | 1,368 | 41.66% | 13,843 |

| Municipality | Towns and Cities | Number of domestic stands | % domestic stands of all stands | % of all records with zero stand area | Number of Records with Zero Stand Area | % of all records with zero stand value | Number of Records with Zero Stand Value | % of all stands with unknown land use assigned | Number of Stands with unknown landuse assigned |
|---|---|---|---|---|---|---|---|---|---|
| Helderberg | Gordons Bay, Strand, Somerset West, Maccasar | 31,948 | 84.45% | 9.41% | 3,615 | 9.34% | 3,588 | 11.04% | 4,176 |
| Johannesburg Water | Lethabong | 2,889 | 45.15% | 34.05% | 2,245 | 46.07% | 3,038 | 50.23% | 3,214 |
| Johannesburg Water | Midrand | 31,593 | 79.58% | 0.05% | 21 | 7.69% | 3,160 | 3.81% | 1,513 |
| Johannesburg Water | Northern Johannesburg (Sandton, Randburg,Bryanston, Sunninghill, Morningside) | 89,714 | 72.78% | 12.40% | 16,376 | 17.06% | 22,530 | 12.94% | 15,950 |
| Johannesburg Water | Southern Johannesburg 1 | 65,375 | 67.93% | 0.08% | 85 | 24.02% | 25,517 | 22.34% | 21,499 |
| Johannesburg Water | Southern Johannesburg (Soweto) | 136,348 | 85.18% | 0.86% | 1,421 | 19.44% | 32,264 | 11.47% | 18,361 |
| Johannesburg Water | Eastern Johannesburg | 95,515 | 80.73% | 7.14% | 9,174 | 29.11% | 37,401 | 8.80% | 10,412 |
| Johannesburg Water | Western Johannesburg | 89,696 | 85.02% | 0.05% | 65 | 15.24% | 18,104 | 9.47% | 9,990 |
| Langeberg | Albertina, Gouritsmond, Heidelberg, Jongensfontein, Riversdale, Slangrivier, Stilbaai, Theronsville, Witsand | 15,170 | 94.77% | 0.08% | 15 | 35.00% | 6,539 | 1.21% | 194 |
| Matzikama | Klawer, Lutzville, Vanrhynsdorp, Vredendal | 7,833 | 94.18% | 35.55% | 3,095 | 21.84% | 1,901 | 0.00% | 0 |
| Mossel Bay | Mossel Bay, Dana Bay, Klein Brak, Hartenbos | 26,387 | 82.06% | 17.54% | 6,041 | 29.26% | 10,078 | 0.43% | 138 |
| Oostenberg | Brackenfell, Blue Downs, Kuilsrivier | 57,849 | 94.37% | 25.00% | 15,519 | 12.75% | 7,915 | 2.36% | 1,447 |
| Oudtshoorn | Oudtshoorn | | | 42.58% | 9,949 | 46.52% | 10,870 | 100.00% | |
| Overstrand | Gansbaai, Hermanus, Kleinmond, Stanford | 21,805 | 71.95% | 4.57% | 1,395 | 7.60% | 2,319 | 17.79% | 5,392 |
| Plettenberg Bay | Plettenberg Bay | 7,305 | 79.79% | 7.23% | 672 | 6.10% | 567 | 14.08% | 1,289 |
| Randfontein | Randfontein, Mohlakeng | 16,055 | 89.30% | 1.93% | 373 | 1.85% | 357 | 5.26% | 946 |
| Saldanha Bay | Langebaan,Paternoster, Jacobsbaai, Vredenburg, St Helena Bay, Hopefield, Ongegund, Louwville | 21,564 | 91.84% | 2.05% | 487 | 10.08% | 2,394 | 1.25% | 294 |

| Municipality | Towns and Cities | Number of domestic stands | % domestic stands of all stands | % of all records with zero stand area | Number of Records with Zero Stand Area | % of all records with zero stand value | Number of Records with Zero Stand Value | % of all stands with unknown land use assigned | Number of Stands with unknown landuse assigned |
|---|---|---|---|---|---|---|---|---|---|
| Sedibeng | Sharpville, Sebokeng, Boipatong, Evaton, Stretford, Vereeniging, Meyerton, Kanana, Hartebeestfontein, Klipwater, Walkerville | 144,135 | 84.72% | 0.95% | 1,638 | 4.88% | 8,412 | 4.75% | 8,081 |
| Stellenbosch | Stellenbosch | 11,551 | 80.58% | 4.38% | 668 | 8.21% | 1,252 | 16.13% | 2,312 |
| Swartland | Abbotsdale, Chatsworth, Grottobaai, Darling, Malmesbury, Morreesburg, Koringberg, Riebeeck Wes, Riebeeck Kasteel,Yzerfontein | 17,038 | 74.85% | 19.46% | 4,603 | 16.21% | 3,834 | 10.92% | 2,486 |
| Theewaterskloof | Caledon, Grabouw, Genadedal, Greyton, Riversonderend, Villiersdorp | 10,186 | 62.47% | 9.74% | 1,641 | 12.84% | 2,164 | 33.58% | 5,475 |
| Tshwane | Atteridgeville | 17,257 | 97.21% | 12.77% | 2,306 | 12.75% | 2,303 | 1.97% | 350 |
| Tshwane | Centurion | 30,696 | 86.10% | 6.07% | 2,261 | 5.98% | 2,228 | 5.04% | 1,797 |
| Tshwane | Mamelodi | 31,151 | 80.93% | 12.14% | 4,691 | 12.18% | 4,707 | 18.63% | 7,171 |
| Tshwane | NPMSS - Akasia, Rosslyn, Shoshanghuve | 79,925 | 94.14% | 0.00% | 0 | 8.25% | 7,268 | 18.36% | 15,588 |
| Tshwane | Odi (Garankua) | 45,023 | 98.32% | 100.00% | 59,171 | 0.00% | 2 | 0.02% | 9 |
| Tshwane | Pretoria | 105,101 | 71.65% | 20.21% | 35,165 | 20.41% | 35,513 | 25.37% | 37,216 |
| Tshwane | Temba (Hammanskraal) | 11,754 | 97.08% | 100.00% | 12,231 | 100.00% | 12,231 | 0.00% | 0 |
| Tygerberg | Belville, CapeTown, Delft, Durbanville, Goodwood, Mfuleni, Khayelitsha, Parow | 185,093 | 94.42% | 8.35% | 18,777 | 23.45% | 52,734 | 0.43% | 843 |
| **TOTAL** | | **2,150,555** | **83.06%** | **8.26%** | **229,954** | **15.74%** | **438,380** | **8.90%** | **230,443** |

***Summary of Available Data: Characteristics Table 3***

| Municipality | Towns and Cities | Number of monthly readings | Period of Readings (more or less) | Total Water Demand per Year (kL/yr) | AADD (kL/Day) | Unit Demand per Stand (kL/Day) | Unit Demand per Meter (kL/Day) | Comment |
|---|---|---|---|---|---|---|---|---|
| Beaufort West | Beaufort West | 13 | Dec 02 - Jan /Feb 04 | 1552374.25 | 4368.915039 | 0.71 | 0.66 | |
| BergRiver | Veldrif, Porterville, Piketberg, Laaiplek, Aurora, Eendekuil, Dwarskersbos, Redelingshuys | 13 (majority) range (1 -13) | Feb 03 - Mar 04 | 2018794 | 5531 | | 1.78 | Inaccurate dataset ito user classifications |
| Blaauwberg | Blaauwberg, Milnerton, Mamre, Atlantis, Melkbos | 24 | Jun 2000 - Jul 2002 | 17658818 | 51789 | 1.05 | 0.94 | Old format Swift data - cannot export monthly readings, no suburb codes or zoning codes or tariff data in Swift |
| Breede River | Robertson, Bonnievale, Ashton, Montagu, McGregor | 24 | Oct 2002 - Oct 2004 | 2784882 | 7717 | 1.91 | 1.75 | Could not export monthly readings, large number of records no readings, large number of vacant stands, high percentage non domestic users (farms) |
| Breede Valley | Worcester | 60 (majority) range of 12-60 | Nov 1999 - Jan 04 | 8507058 | 23852 | 1.87 | 1.82 | |
| Buffalo City | East London | 25 | Jan 2003 - Feb 2005 | 25466982 | 73713 | 1.03 | 0.91 | |
| Cape Agulhas | Bredasdorp, Waenhuiskrans, Struisbaai, Suiderstrand, Napier, Klipdale, Lagulhas | 60 (majority) range of 1- 60 | Mar 1999 - Feb 04 | 1494697 | 4143 | 0.62 | 0.62 | |
| Cederberg | Clanwilliam, Citrusdal, Lamberts Bay, Graafwater, Elands Bay, Leipoldtville | 13 | Dec 02 - Dec 03 | 2253426 | 6284 | 1.37 | 8.20 | |
| Drakenstein | Wellington, Paarl, Gouda, Bainskloof, Hermon, Mbekweni | 25 (majority) range of 1 - 70 | Nov/Dec01 - Nov/Dec 03 | 13412065 | 38471 | 1.48 | 1.30 | |

| Municipality | Towns and Cities | Number of monthly readings | Period of Readings (more or less) | Total Water Demand per Year (kL/yr) | AADD (kL/Day) | Unit Demand per Stand (kL/Day) | Unit Demand per Meter (kL/Day) | Comment |
|---|---|---|---|---|---|---|---|---|
| Ekurhuleni | Alberton | 25 (majority) range 1 -36 | Aug 02 - Sep 04 | 18378994 | 56392 | 1.70 | 1.64 | |
| Ekurhuleni | Germiston | 25 (majority) | Aug 02 - Sep 04 | 39374500 | 112446 | 1.48 | 1.40 | |
| Ekurhuleni | Kempton Park | 25 (majority) | Aug 02 - Sep 04 | 24072152 | 68561 | 1.26 | 1.22 | |
| Ekurhuleni | Lethabong | 25 (majority) | Aug 02 - Sep 04 | 8228412 | 23549 | 1.49 | 1.43 | |
| Ekurhuleni | Nigel | 25 (majority) | Sep 02 - Oct 04 | 9500665 | 26387 | 1.22 | 1.14 | |
| Ekurhuleni | Springs | 25 (majority) | Sep 02 - Oct 04 | 21963518 | 61379 | 1.86 | 1.79 | |
| Ekurhuleni | Benoni | 25 (majority) | Sep 02 - Oct 04 | 20878052 | 60891 | 1.12 | 1.05 | |
| Ekurhuleni | Boksburg | 25 (majority) | Aug 02 - Sep 04 | 24136060 | 68898 | 1.18 | 1.14 | |
| Ekurhuleni | Brakpan | 25 majority | Sep 02 - Oct 04 | 6537073 | 19164 | 1.32 | 1.25 | |
| George | George, Heroldsbay, Wildernis, Twee Rivieren | 48 (majority( range 12 -48) | jul 1999 - jul 2003 | 5852239 | 16817 | 0.67 | 0.67 | Users identified in SWIFT as large users incorrect --re-ran the query to id them |
| Helderberg | Gordons Bay, Strand, Somerset West, Maccasar | 60 | Apr 1998 - Apr 2003 | 12616328 | 35164 | 1.06 | 1.05 | Old format SWIFT, cannot extract monthly readings or exception reports |
| Johannesburg Water | Lethabong | 25 | Feb 2002 - Mar 2004 | 803689 | 2332 | 0.67 | 0.64 | 2737 records no readings |
| Johannesburg Water | Midrand | 25 | Feb 2002 - Mar 2004 | 8308707 | 23806 | 1.43 | 1.33 | Large number of 'domestic' users on small holdings, categorised as Farms |
| Johannesburg Water | Northern Johannesburg (Sandton, Randburg,Bryanston, Sunninghill, Morningside) | 25 | Jan 2002 - Feb 2004 | 47344048 | 135363 | 2.32 | 2.09 | more than 50 000 records have no readings |
| Johannesburg Water | Southern Johannesburg 1 | 25 | Feb 2002 - Mar 2004 | 35949232 | 103278 | 2.06 | 1.80 | |
| Johannesburg Water | Southern Johannesburg (Soweto) | 25 (148 057 (89% records have no readings) | Feb 2002 - Mar 2004 | 10238229 | 30722 | 2.29 | 1.88 | Data indicates a large number of vacant stands |

| Municipality | Towns and Cities | Number of monthly readings | Period of Readings (more or less) | Total Water Demand per Year (kL/yr) | AADD (kL/Day) | Unit Demand per Stand (kL/Day) | Unit Demand per Meter (kL/Day) | Comment |
|---|---|---|---|---|---|---|---|---|
| Johannesburg Water | Eastern Johannesburg | 25 | Feb 2002 -Mar 2004 | 76233480 | 287743 | 4.36 | 3.85 | large number of vacant stands with no meter readings ( |
| Johannesburg Water | Western Johannesburg | 25 | Feb 2002-Mar 2004 | 21685446 | 61570 | 1.69 | 1.52 | Large number of vacant stands (more than 65%) |
| Langeberg | Albertina, Gouritsmond, Heidelberg, Jongensfontein, Riversdale, Slangrivier, Stilbaai, Theronsville, Witsand | 25 (majority) range 1 -42 | Dec02 -Jan 04 | 4316426 | 12453 | 1.38 | 1.07 | |
| Matzikama | Klawer, Lutzville, Vanrhynsdorp, Vredendal | 25 (majority) range of 1 - 31 | Jan 02 - Feb 04 | 4199155 | 11505 | 1.70 | 1.63 | |
| Mossel Bay | Mossel Bay, Dana Bay, Klein Brak, Hartenbos | 24 | Oct 2001 - Oct 2003 | 5219693 | 14801 | 0.91 | 0.58 | Large number of vacant stands |
| Oostenberg | Brackenfell, Blue Downs, Kuilsrivier | 25 | Nov 99 - Dec 01 | 18026358 | 54577 | 0.97 | 0.97 | |
| Oudtshoorn | Oudtshoorn | 24 | Nov 2001 - Nov 2003 | 5014013 | 13803 | | | No landuse assigned in SWIFT data, large and vacant records not identified, large number of data set no meter readings (more than 47% of records) |
| Overstrand | Gansbaai, Hermanus, Kleinmond, Stanford | 48 (majority) | Feb 00 -Feb 04 | 5382502 | 14747 | 0.70 | 0.69 | |
| Plettenberg Bay | Plettenberg Bay | 60 (majority) range of 1-60 | Dec 1999 - Nov 04 | 2015392 | 5537 | 0.74 | 0.73 | |
| Randfontein | Randfontein, Mohlakeng | 25 | Apr 2001 - May 2003 | 5602136 | 15696 | 0.88 | 0.83 | |
| Saldanha Bay | Langebaan,Paternoster, Jacobsbaai, Vredenburg, St Helena Bay, Hopefield, Ongegund, Louwville | 60 (majority) range of 1-60 | Apr 1999 - Mar 04 | 7917047 | 22601 | 1.34 | 1.32 | |

| Municipality | Towns and Cities | Number of monthly readings | Period of Readings (more or less) | Total Water Demand per Year (kL/yr) | AADD (kL/Day) | Unit Demand per Stand (kL/Day) | Unit Demand per Meter (kL/Day) | Comment |
|---|---|---|---|---|---|---|---|---|
| Sedibeng | Sharpville, Sebokeng, Boipatong, Evaton, Stretford, Vereeniging, Meyerton, Kanana, Hartebeestfontein, Klipwater, Walkerville | 25 (majority) range 1 -42 | June 02 - Jul 04 | 24441034 | 66962 | 1.64 | 1.56 | |
| Stellenbosch | Stellenbosch | 24 | Oct 1999 - Oct 2001 | 6382174 | 18301 | 1.64 | 1.53 | Old format Swift |
| Swartland | Abbotsdale, Chatsworth, Grottobaai, Darling, Malmesbury, Morreesburg, Koringberg, Riebeeck Wes, Riebeeck Kasteel,Yzerfontein | 24 (majority) range of 1-24 | Oct 01 - Oct 03 | 3632927 | 10080 | 0.73 | 0.89 | |
| Theewaterskloof | Caledon, Grabouw, Genadedal, Greyton, Riversonderend, Villiersdorp | 13 (majority) | Sep 03 -Oct 04 | 3138804 | 8930 | 0.88 | 1.63 | |
| Tshwane | Atteridgeville | 36 | Feb 2002 - Feb 2005 | 5460691 | 15011 | 1.01 | 0.99 | bulk meter data available, only extracted the last 36 months of data- more data available |
| Tshwane | Centurion | 25 | Dec 2002 -Jan 2005 | 26605304 | 73138 | 2.15 | 2.06 | bulk meter data available, only extracted the last 24 months of data- more data available |
| Tshwane | Mamelodi | 36 | Feb 2002 - Feb 2005 | 8576809 | 23836 | 0.76 | 0.76 | bulk meter data available, only extracted the last 36 months of data- more data available |
| Tshwane | NPMSS - Akasia, Rosslyn, Shoshanghuve | 25 | Feb 2003 -Mar 2005 | 18259324 | 53234 | 0.82 | 0.78 | bulk meter data available, only extracted the last 24 months of data- more data available |

| Municipality | Towns and Cities | Number of monthly readings | Period of Readings (more or less) | Total Water Demand per Year (kL/yr) | AADD (kL/Day) | Unit Demand per Stand (kL/Day) | Unit Demand per Meter (kL/Day) | Comment |
|---|---|---|---|---|---|---|---|---|
| Tshwane | Odi (Garankua) | 27 | Dec 2002 - Mar 2005 | 13887147 | 38440 | 0.86 | 0.66 | bulk meter data available, only extracted the last 24 months of data- more data available, no stand area data available, accuracy of stand values questionable |
| Tshwane | Pretoria | 36 | Feb 2002 -Feb 2005 | 98195992 | 271560 | 2.52 | 2.08 | bulk meter data available, only extracted the last 36 months of data- more data available |
| Tshwane | Temba (Hammanskraal) | 13 | Jan 2004 - Feb 2005 | 3404962 | 9330 | 0.84 | 0.83 | bulk meter data available, only extracted the last 13 months of data- more data available.No data on stand areas or stand values |
| Tygerberg | Belville, CapeTown, Delft, Durbanville, Goodwood, Mfuleni, Khayelitsha, Parow | 24 | Jul/Aug 2001 - Jul/Aug 2003 | 50582972 | 143210 | 1.07 | 0.94 | |
| **TOTAL** | | | | **787510782.3** | **2308082.915** | | | |