

Southwest Florida Water Management District 2016 Estimated Water Use Report



Inglis By-Pass Spillway from Lake Rousseau to the Lower Withlacoochee River, Levy County.

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Southwest Florida Water Management District 2016 Estimated Water Use Report

This report is produced by the Southwest Florida Water Management District,
Resource Management Division, Water Resources Bureau, Water Supply Section

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EXECUTIVE SUMMARY

The Estimated Water Use (EWU) Report summarizes the withdrawal and use of water from natural resources in the Southwest Florida Water Management District (District). The EWU Report is a source for a variety of water supply planning and management purposes; however, it's not used to determine compliance with conditions of water use permits (WUPs). The report is based primarily on statistical analyses of metered pumpage records in the District's Water Management Information System (WMIS). Metered pumpage accounts for approximately 86 percent of the withdrawal quantities reported.

The EWU Report quantifies water withdrawals and use are under eight predominant use categories, as listed in Table ES-1 below.

Table ES-1. Districtwide Water Withdrawals and Use (mgd) in 2016.

Category	Withdrawal	%	Use	%
Public Supply	537.0	52%	514.9	51%
Domestic Self Supply	34.8	3%	34.8	3%
Landscape/Recreation	57.2	6%	57.2	6%
Agriculture	323.7	31%	323.7	32%
Mining/Dewatering	22.7	2%	22.7	2%
Industrial/Commercial	51.5	5%	51.5	5%
Institutional	0.2	0%	0.2	0%
"Other" Uses	0.9	0%	0.9	0%
Total	1,027.9	100%	1005.9	100%

Source data: Table 9. Rounding discrepancies occur

For all categories except public supply, it's assumed that the quantity of water withdrawn equals the quantity used, because the water was likely pumped at the same location and time of its use. Water withdrawn for public supply is often transferred regionally, stored for seasonal reliability, and is subject to treatment and distribution losses, therefore the quantity and spatial use can vary significantly.

As shown, the total amount of water withdrawn in the District from natural resources was 1,027.9 mgd. The total water used was 1,005.9 mgd. Most withdrawals were for public supply at 51 percent of total withdrawals, followed by agriculture at 31 percent of withdrawals.

PUBLIC SUPPLY

The public supply use category includes public water systems, regional water supply authorities, privately held water utilities, and other entities that provide potable water to a population. It

also includes irrigation uses by businesses and other entities that received water from public supply utilities.

The 537.0 mgd of public supply withdrawals in 2016 are up from 526.6 mgd withdrawn in 2015. After accounting for net changes in reservoir storage, and net losses in treatment and transmission, the public supply use quantity is 514.9 mgd, which is up from 489.1 mgd used in 2015.

The water used for public supply was distributed to a functional population of approximately 5.1 million persons. The Districtwide unadjusted gross use per person for major utilities was 99 gallons per capita per day (gpcd). Applying deductions, the "adjusted gross per capita" was 97 gpcd, the "compliance per capita" was 93 gpcd, and the "residential per capita" was 68 gpcd. The various per capita measures are explained in the public supply section of this report.

DOMESTIC SELF-SUPPLY

The District does not regulate domestic self-supply withdrawals, and metered data is unavailable for this category. An estimate of 34.8 mgd for domestic self-supply use in 2016 was calculated using a GIS-based evaluation of self-supplied population (outside of utility-served parcels) and the countywide residential per capita use ratios observed for public supply. The estimated self-supplied population was approximately 440,000 persons.

LANDSCAPE/RECREATION

The landscape/recreation use category is primarily for irrigation of large landscapes at golf courses, common areas, cemeteries, sports playing fields, botanical gardens, etc.; along with consumptive uses at water parks, theme parks, and other recreational attractions. The annual average use for 2016 was 57.2 mgd. This is up from 49.0 mgd in 2015. Golf course irrigation accounts for 58 percent of water use within the landscape/recreation category.

AGRICULTURE

The agriculture use category includes water use for irrigation and establishment of crops, freeze protection of crops, fertigation and chemigation, irrigation system maintenance, on-site washing and packing of products, animal watering and cleaning, and potable supply for employees. The annual average use in 2016 was 323.7 mgd,

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which was up slightly from 322.3 mgd in 2015. The highest water use crop type was citrus (184.1 mgd), followed by tomatoes (37.7 mgd) and strawberries (17.8 mgd).

MINING/DEWATERING

The quantities for the mining/dewatering use category include only water consumptively used from natural resources. Modern mining operations recirculate much of their water supply on-site and utilize alternative water sources if available. Valid consumptive uses include dewatering quantities that are discharged off-site, washing and sorting of mined materials, non-recycled slurry transport water, on-site processing, water entrained with the product, and water for potable/sanitary use by employees. The annual average use was 22.7 mgd in 2016. This was down from the 27.2 mgd in 2015. Phosphate mining accounted for 95 percent of the mining/dewatering use quantity.

INDUSTRIAL/COMMERCIAL

The industrial/commercial use category is for self-supplied water used by industries and businesses and includes product manufacturing, off-site phosphate processing, food and beverage processing and packing, power generation, evaporative cooling systems, and various commercial operations. The annual average in 2016 was 51.5 mgd. This was down from the 56.7 mgd in 2015. Power generation uses (non-seawater) accounted for 26 percent of the industrial/commercial quantity.

INSTITUTIONAL AND OTHER USES

In May 2014, the “institutional” and “other” use type categories were created by modification of 40D-2.501, Florida Administrative Code, as part of a statewide consumptive use consistency effort. In 2016 there were eleven WUPs with allocations for these new categories. It’s anticipated that the allocations will increase as WUPs continue to be renewed and issued.

The institutional use category includes hospitals, schools, and other facilities that were historically categorized as industrial/commercial or public supply. Institutional uses were 0.2 mgd in 2016.

The “other” uses issued to date are for environmental augmentation to maintain levels in surface water bodies if they fall below trigger levels defined by environmental management plans. In 2016, annual average “other” uses were approximately 0.9 mgd.

WATER USE CAUTION AREAS

Water withdrawal quantities for three Water Use Caution Areas (WUCAs) and the Most Impacted Area (MIA) of the Southern Water Use Caution Area (SWUCA) are reported in Appendix B. The estimates below are based on sources regulated by WUPs and therefore exclude domestic self-supply.

SWUCA: A quantity of 568.9 mgd of water was withdrawn in the SWUCA, of which 482.3 mgd was from groundwater and 86.6 mgd was from surface water. The largest water use category in the SWUCA was agriculture at 272.2 mgd.

MIA of the SWUCA: A quantity of 95.9 mgd of water was withdrawn under WUPs in the MIA of the SWUCA, of which 66.0 mgd was from groundwater. Public supply withdrawals in the MIA were 38.7 mgd, but mostly from surface water sources.

Northern Tampa Bay WUCA (NTB WUCA): A quantity of 292.0 mgd of water was withdrawn in the NTB WUCA in 2016. Groundwater made up 165.2 mgd of the withdrawals. The largest use category in the NTB WUCA was public supply at 246.8 mgd.

Dover/Plant City WUCA (DPC WUCA): A quantity of 57.1 mgd of water was withdrawn in the DPC WUCA, of which 55.1 mgd was from groundwater. The largest use in the DPC WUCA was for agriculture at 22.6 mgd, followed by public supply at 19.3 mgd.

METHODOLOGY AND DATA QUALITY IMPROVEMENT

The methodology used for estimations in this report is summarized in the introduction section, and additional technical details are provided in Appendix F. The quality control of the accuracy of permitted and pumped quantities is a continuous process, and sources used for this report may be updated post publication.

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INTRODUCTION

The Southwest Florida Water Management District (District) is one of five regional water management districts created by the Florida Legislature, and is charged with managing and protecting water resources to ensure their continued availability while maximizing the benefits to the public. The jurisdictional boundary of the District is based primarily on watershed drainage basins. The District encompasses all or part of 16 counties: Charlotte, Citrus, DeSoto, Hardee, Hernando, Highlands, Hillsborough, Lake, Levy, Marion, Manatee, Pasco, Pinellas, Polk, Sarasota, and Sumter.

Figure 1 shows the District's boundaries, the 16 counties within its jurisdiction, and the boundaries of water use caution areas (WUCAs) defined within the District: the Southern WUCA (SWUCA), the Northern Tampa Bay WUCA (NTB WUCA), and the Dover/Plant City WUCA (DPC WUCA). The region known as the Most Impacted Area (MIA) is not a WUCA itself, but a special area within the SWUCA where permitting of new quantities that impact the Upper Floridan aquifer water level is currently suspended.

The WUCAs are areas where the District determined that recovery strategies were needed to address water resource impacts. Strategies include enhanced regulatory requirements, engineering projects, and other management tools. Water use permits (WUPs) within the WUCAs are subject to additional water use reporting requirements.

Portions of the SWUCA and the NTB WUCA were created in 1989 and 1991, respectively, because long-term withdrawals from the Upper Floridan aquifer contributed to impacts including sea water intrusion, reduced aquifer levels, and lowered water levels in lakes and wetlands. The DPC WUCA was created in 2011 in response to intense but short-term pumpage for crop freeze protection of that caused intense drawdown in the Upper Floridan aquifer and off-site property damage. The DPC WUCA includes portions of the SWUCA and NTB WUCA, but does not supersede them.

The Central Florida Water Initiative (CFWI) has a water supply planning area established for

collaborative planning efforts of the three central water management districts and other agencies and stakeholders. The District's portion of the CFWI planning area matches the political boundaries of Polk and Lake Counties within the District. CFWI-specific calculations are not provided in this report because the county data can be easily combined if needed.

HISTORY OF SWFWMD ESTIMATED WATER USE REPORTS

The District has prepared Estimated Water Use (EWU) reports since 1982. Until 1986, the preparation of these reports was a cooperative effort between the District and U.S. Geological Survey (USGS). Beginning in 1987, the District published these reports on an annual or bi-annual basis. Prior to 1992, the EWU reports relied on non-documented sources such as data from the Benchmark Farm Program for agricultural WUPs, voluntary survey responses for public supply, the Bureau of Economic and Business Research (BEBR) population information for domestic use, and reported meter data for industrial use and power generation use. Beginning in 1992, the EWU reports were based on the metered water use data from a growing number of WUPs that were required to report their metered withdrawals on a monthly basis. The water use categories have been refined from those used in 1993 and earlier reports. Due to substantial changes in methodology, it is not recommended to create multi-year charts and graphs that combine the pre- and post- 1994 water use totals.

ESTIMATION PROCESS

The water use data in this report was primarily derived from the District WUP database in the Water Management Information System (WMIS) database. Empirical water quantities are acquired from metered withdrawal points. Ratio-based estimates (withdrawn/permitted quantities) are applied to unmetered withdrawal points. About 86 percent of the water quantities described in this report were sourced from metered withdrawals. Since the total water use contains an element of estimation, this report is collectively known as the "Estimated Water Use Report." Tables 1, 8, 11, and 12 present the metered withdrawals separately from the estimated withdrawals.

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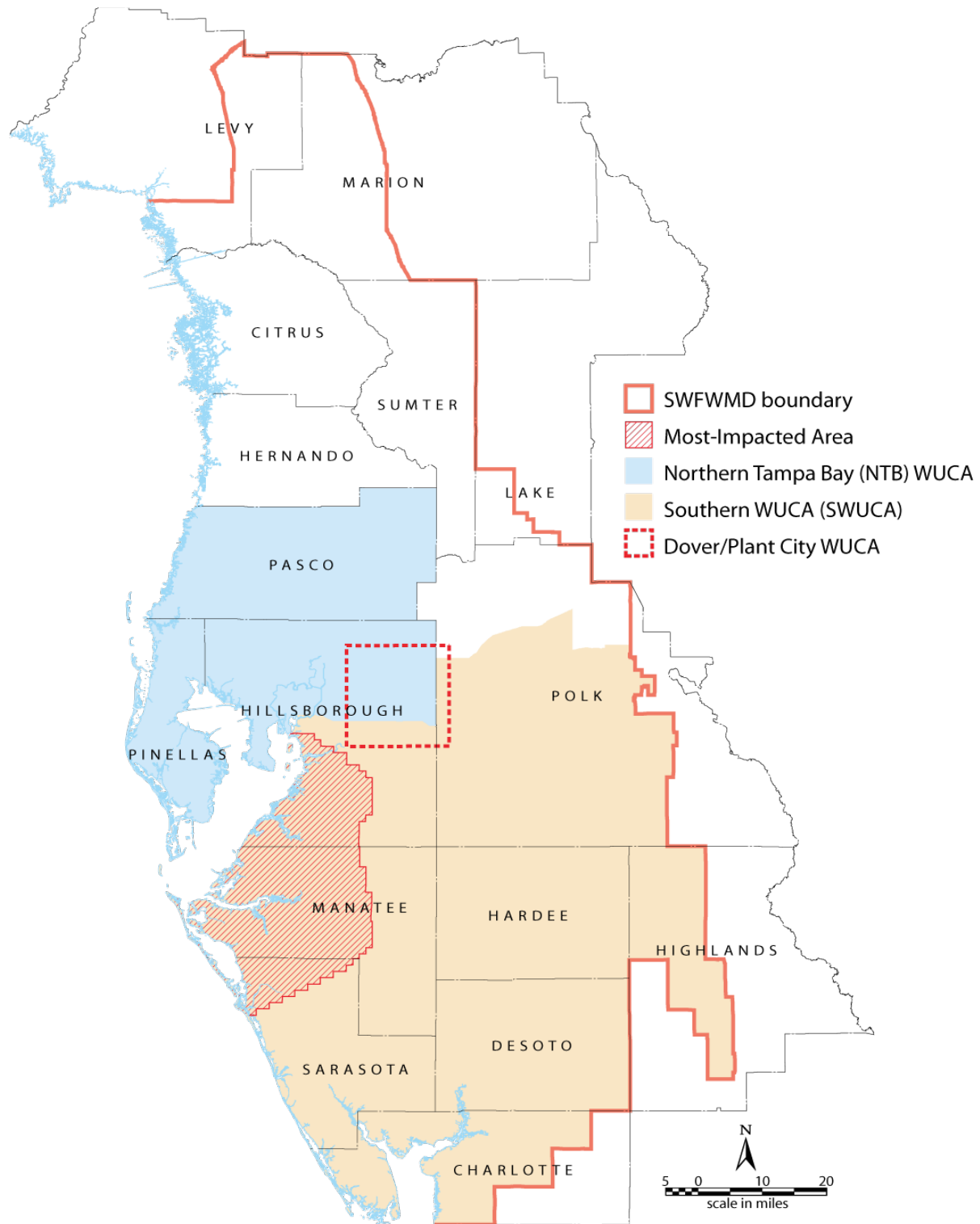


Figure 1. Southwest Florida Water Management District, Counties, and Water Use Caution Areas

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All quantities are reported as an annual average daily rate using units of “million gallons per day” (mgd) unless otherwise indicated. For counties that are only partially within District boundaries, (Charlotte, Highlands, Lake, Levy, Marion and Polk), the quantities are only for the portions of the counties within the District.

The EWU Report includes population data related to public supply and domestic self-supply water use. The public supply population is primarily based on data reported by permittees in the Public Supply Annual Reports (PSARs), which are submitted by April of the following year. If the PSAR population is not reported or questionable, a utility’s population may be supplemented with functional BEBR-based population data. The domestic self-supply population is based on US Census data for parcels not served by public supply utilities.

WATER USE CATEGORIES

The EWU Report identifies the use of water by seven broad “predominant use” categories:

- Public Supply
- Domestic Self-Supply
- Landscape/Recreation
- Agricultural
- Mining/Dewatering
- Industrial/Commercial
- Institutional & “Other”

Figure 2 shows the spatial distribution of active, regulated groundwater wells within the District, by tiered permitted quantity and predominant use types. There are many specific water uses within each of the seven predominant use categories, such as citrus, pasture, and vegetable irrigation in the agricultural water use category. Sections of this report are dedicated to each predominant use category and summarize the specific uses.

The domestic self-supply use is not regulated by the District and has no available metered data. It’s estimated using the county’s average residential per capita use multiplied by each county’s self-supply population. The category is excluded from some tables in the report that focus on withdrawals from regulated sources only (Tables 10, 11, 12, and Appendices B & C).

The institutional and “other” uses were introduced in 2104, following the creation of these categories in Florida Administrative Code 40D-2.501 as part of a statewide consumptive use consistency effort.

MEASURING WATER USE

The ability to collect and keep accurate meter records on water used is tremendously important to the District’s mission of managing the limited water resources of the District. Doing so increases the likelihood that water is shared fairly, and withdrawals do not adversely impact existing legal users and environmental resources. The District has a high number of responsible permittees who submit the data and reports required under the terms of their WUPs. Maintaining accurate records is also of high value to permittees. Permittees can submit meter readings and other data electronically via the District’s website or by mail. The regulatory compliance evaluations of WUPs are conducted independently of this report.

Metered Water Use: The District’s original metering requirement was for WUPs permitted for 500,000 gallons per day (gpd) or more on an annual average basis. In 2003, the metering threshold became 100,000 gpd for all public supply WUPs Districtwide, and all other WUPs that are located within a WUCA. Most non-public supply WUPs outside of the WUCAs (in the District’s northern counties) still have a metering threshold of 500,000. The District may require meter reporting for WUPs below the threshold if there’s a possibility that the withdrawals could impact existing users or natural systems in their vicinity. Since 2012, metering has been required on all WUPs in the DPC WUCA that have freeze protection quantities from groundwater, or have groundwater permitted for irrigation of crops that typically need freeze protection.

Estimated Water Use: Since the 1992 EWU report, non-metered water withdrawals have been estimated by ratio calculations of withdrawn/permitted quantities on similar metered wells or intakes. It’s assumed that unmetered withdrawal points are used a proportional amount as metered withdrawal points of similar size and use type.

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Groundwater Wells by Use and Permit Quantity (GPD)

AGRICULTURAL

- 0 - 100,000
- 100,000 - 500,000
- 500,000 - 1,000,000
- 1,000,000 - 2,000,000
- 2,000,000 - 6,000,000

INDUSTRIAL AND COMMERCIAL

- 0 - 100,000
- 100,000 - 500,000
- 500,000 - 1,000,000
- 1,000,000 - 2,000,000
- 2,000,000 - 6,000,000

LANDSCAPE/RECREATION

- 0 - 100,000
- 100,000 - 500,000
- 500,000 - 1,000,000
- 1,000,000 - 2,000,000
- 2,000,000 - 6,000,000

MINING/DEWATERING

- 0 - 100,000
- 100,000 - 500,000
- 500,000 - 1,000,000
- 1,000,000 - 2,000,000
- 2,000,000 - 6,000,000

PUBLIC SUPPLY

- 0 - 100,000
- 100,000 - 500,000
- 500,000 - 1,000,000
- 1,000,000 - 2,000,000
- 2,000,000 - 6,000,000

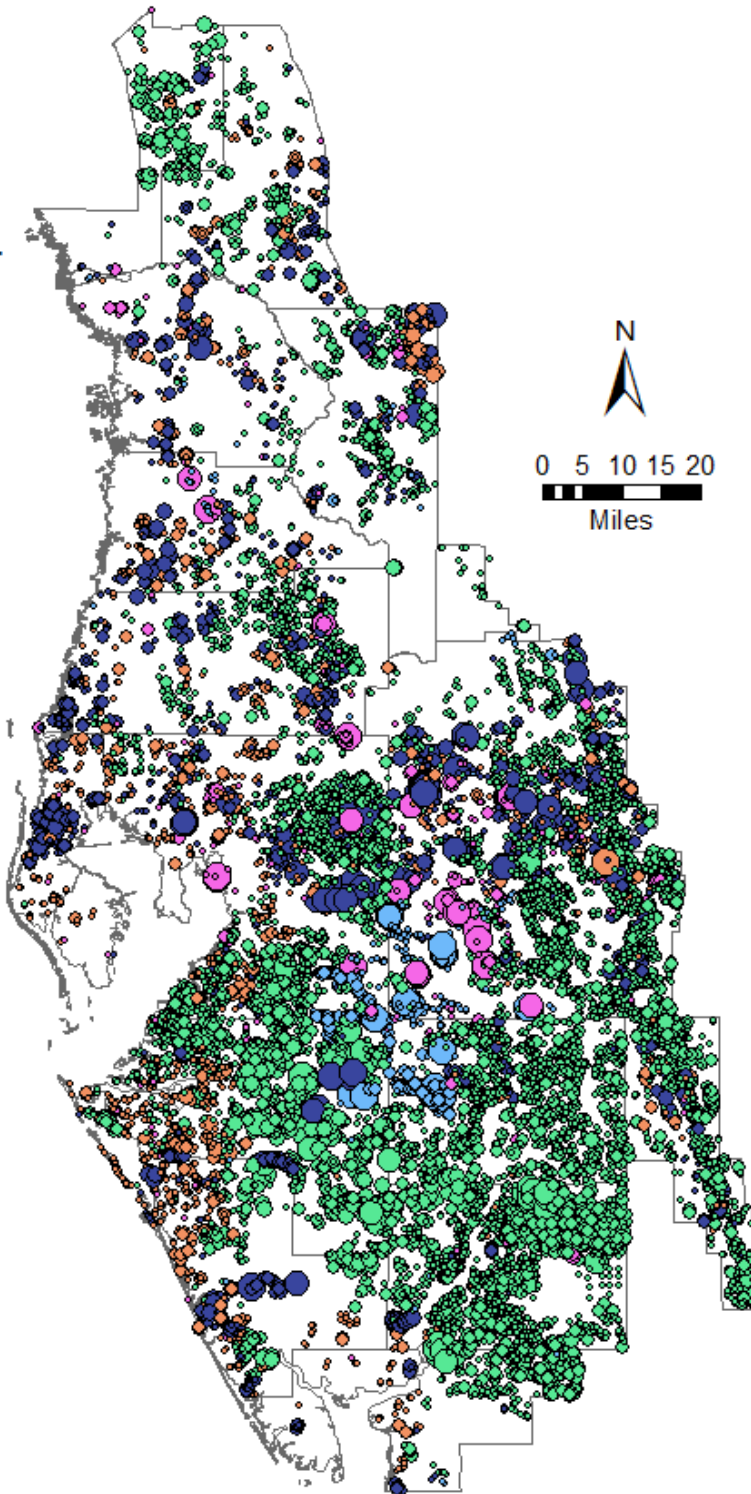


Figure 2. Active Groundwater Wells in the Southwest Florida Water Management District by Tiered Permitted Quantity (gpd annual average) and Predominant Use Type.

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The ratios of withdrawn/permitted quantities on metered withdrawals are analyzed by month, use type, and size tier, and are applied as multipliers to permit quantities on all non-metered withdrawal points. Multiple size tiers are used because the smaller WUP allocations are usually withdrawn in amounts closer to the permitted quantity than larger WUP allocations. Monthly calculations are made because the EWU data is later applied to hydrologic modeling. A detailed explanation of the methodology is provided in Appendix F.

Most of the unmetered WUPs are issued for less than 100,000 gpd on an annual average basis. Many small wells or surface withdrawals are still metered for WUPs that have several small withdrawal points, or to monitor potential environmental or resource impacts. These sources create proportional metered data that benefit the estimation process.

Augmentation and Repumped Water Quantities: Water withdrawals are metered and reported for numerous reasons. Withdrawals from natural resources that are sent directly to the end use are called “production pumpage.” Non-public supply withdrawals from natural resources that are sent to irrigation ponds or similar storage areas and are later repumped to the end use are called “augmentation pumpage.” Only production pumpage and augmentation pumpage are tallied as withdrawals in this report. Quantities repumped from storage ponds are excluded because they are not directly withdrawn from natural water resources, were previously counted as augmentation, and/or may be blended with alternative sources such as reclaimed water or captured stormwater. Agricultural crop irrigation estimates derived from this report should consider that permittees may have used alternative supplies or tailwater captured in ponds that reduced the need to withdrawal from natural resources.

Reclaimed Water and Stormwater: Reclaimed water use is not quantified in this report, except for deductions to calculate compliance per capita use. Reclaimed water inflows and use are quantified in other District reports available at: <http://www.swfwmd.state.fl.us/conservation/reclaimed/>

Captured stormwater is not regulated by the District, and it's seldom quantified by the users.

In most cases, captured stormwater use isn't included in this report. Exceptions were made for a few public supply utilities that quantify and report stormwater use in their PSARs.

Mitigation Pumpage: Environmental mitigation pumpage of groundwater to surface water bodies is included in this report on a case-by-case basis. In some cases, pumpage from a shallow well is excluded because a substantial portion of water percolates back into a poorly confined aquifer, and the quantity is assumed to be largely recirculated. Mitigation pumpage has historically been classified the same as the predominant use causing the impact, although a growing number of mitigation withdrawals will be categorized as the “other” use type.

Alternative Water Supply Requirements: Florida Statutes allow the District to require the use of alternative water supplies in place of natural water resources when reclaimed water is available, an alternative source is feasible, and the water has the quality and reliability necessary for the use. For WUPs where an alternative source is the primary supply, there may be a permitted “standby” quantity of groundwater or surface water that can be pumped if the alternative supply is not available through no fault of the permittee. In some cases, active permittees may appear to have little or no water use in this report because they were mostly or solely using alternative supplies.

CAVEATS FOR ESTIMATION OF TOTAL WATER USE

Some water withdrawals occurring in the District aren't regulated, and therefore aren't quantifiable by metered pumpage. A WUP is not required for withdrawals of less than 100,000 gpd from wells that are less than 6-inches in diameter, and/or from surface water withdrawal pipes that are less than 4-inches in diameter. In the MIA of the SWUCA, the threshold to require a WUP is when the cumulative outside diameter of the user's wells constructed after April 11, 1994 is greater than 6 inches at the surface.

Domestic self-supply wells, the common water source for rural households, are typically 4 inches in diameter and fall into the above non-regulated category. This report contains estimates for domestic self-supply use at residences outside of utility service areas. The domestic self-supply estimation does not account for additional water

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uses such as rural located small businesses or garden irrigation at ranchette properties. The domestic self-supply estimate also does not account for self-supplied residential lawn irrigation wells within public supply utility service areas.

Meter reporting errors: This report was compiled by analyzing over 227,000 monthly and daily pumpage/meter readings received by the District from permittees, and some data errors are inevitable. Obvious errors such as misplaced decimals, wrong well entries, or uncorrected meter rollovers are fixed when found. Discrepancies between PSAR-reported annual average withdrawals and monthly meter readings are reconciled. Despite quality control efforts, some errors can be masked as a reasonable quantity, or by the fact that withdrawals for some uses will vary greatly from month to month or annually. There can be readings that appear within the realm of possibility yet contained undetected recording or reporting errors. Corrections are made to historical records in the WMIS database as they are identified (with written consent from the permittee), which may create discrepancies between published EWU Reports and WMIS queries made at earlier or later dates.

Rounding Discrepancies: For this report, raw numbers were calculated to the gallon at the extent available, though many meters have hundred-gallon or thousand-gallon units. Values are rounded during the later stages of analysis. Despite the commutative and associative laws of mathematics, similar calculations of very large data fields can yield slightly different answers. Thus, some totals shown may be slightly different from manual calculations performed by the reader. Small discrepancies occur occasionally within the tables due to rounding and averaging. For this reason, the mgd totals are presented to three decimal places in the tables and appendices to support calculations, but are given to only one decimal place in the text to express a more conservative level of accuracy.

PROCESSING DATA BY WATER USE TYPE

The District uses over 300 detailed water use codes to identify specific activities. Permit and withdrawal quantities are scaled and grouped by specific use codes, which may create discrepancies from WMIS data. Some use codes

are excluded because they represent non-resource withdrawals. Many large permittees have multiple use codes for various uses, and may have more than one use code per well. To prevent this report from becoming overly complicated, detailed uses are grouped by general similarities for the tables. WUPs with more than one predominant use have their withdrawals appropriated to each category.

TERMINOLOGY: "USE" VERSUS "WITHDRAWAL"

For all predominant use categories except public supply, the water "use" is synonymous with water "withdrawal" because the water is typically used where and when it is withdrawn. For the public supply category, a utility's actual water use can be quite different from the amount withdrawn for several reasons:

- Imports and exports between utilities (including some outside of the District),
- Net yearly quantities stored and released from off-stream surface water reservoirs or aquifer storage and recovery (ASR) systems,
- Exports from regional large-scale water treatment facilities to public utilities in multiple counties,
- Water treatment losses (which may range from 15 to 50 percent for desalination systems),
- Transmission system losses.

This report relies on the utility PSARs to calculate the difference between public supply withdrawal and use, and to quantify the imports, exports, and water losses. Withdrawals by small, non-metered utilities (and other permittees with a small public supply allocation) are assumed to be used where they are withdrawn.

SNAPSHOT IN TIME

The WMIS database is dynamic; it is updated daily as WUPs are issued, modified, and expire. The cumulative changes are relatively stable, but specific values can fluctuate and are difficult to retrace. This report relies on "snapshots" of permit and pumpage data from the WMIS database. The permit and pumpage snapshots are taken on separate dates.

Permit Data: A snapshot of 2016 permit data was taken on January 1st, 2017 to save the end-of-year 2016 WUP conditions. The snapshot captured attributes of every active WUP and archived approximately 300mb of permit data for

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historical purposes. The permit snapshot data for the EWU Report includes:

- The status and permit quantity of each WUP;
- Each withdrawal point's status, location, and permitted quantity apportioned from the WUP's total permit quantity;
- The water use types and quantity allocations as assigned to the WUP and to specific withdrawal points;
- Several alpha-numeric codes applied to the permit and withdrawal points that describe various attributes and identify regulatory conditions.

Pumpage Data: Pumpage snapshots for this report are queried a few times later in the year, as withdrawal quantities are more easily isolated in time. The permittees have a few weeks after the new year to upload their late-year pumpage. District staff have time to capture tardy submissions and to identify and correct errors. Staff also take time to review the permit snapshot data that defines which withdrawals should be queried for the report. The final 2016 pumpage snapshot for this report was taken on October 10, 2016.

APPENDICES

Six appendices are provided in this report.

Appendix A, Tables A-1 through A-3 show the withdrawals, imports, exports, population served, and other data summarized from the PSARs for public supply. Additional tables for other water use categories contain lists of all metered WUPs including their annual average withdrawal, the permit total, and how much of the permit total is for the particular water use category. Similar data for non-metered WUPs is available to the

public by request, but was excluded from this report because they would more than triple the length of the appendix. Appendix A also includes tables showing the monthly average withdrawals for each water use category by county.

Appendix B shows the total annual average quantities withdrawn from regulated water resources within the District, within the three WUCAs, and within the MIA of the SWUCA. The withdrawal quantities are separated by surface water only and groundwater only.

Appendix C identifies the total permitted quantities, annual average, from surface water and groundwater by county for the District, the three WUCAs, and the MIA of the SWUCA. Appendix C also contains freeze protection quantities permitted for agricultural use in the DPC WUCA.

Appendix D contains ten years of historic per capita water use for the public supply permittees that submit PSARs. Two tables are provided, for unadjusted gross per capita (Table D-1) and for compliance per capita (Table D-2, new this year).

Appendix E contains the Uniform Per Capita Report prepared for the Florida Department of Environmental Protection (DEP). The report provides utility gross and residential per capita estimates that were calculated in accordance with statewide consistency guidelines.

Appendix F is a methodology section that explains how the data from the WMIS database, PSARs, and other sources is analyzed and processed to create the EWU reports. It also contains information regarding historical improvements to the methods.

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PUBLIC SUPPLY

WITHDRAWALS = 537.0 MGD

USE = 514.9 MGD

For the public supply use category, the location and quantity of water “used” by customers can vary from quantities “withdrawn” from water resources due to imports and exports between public supply utilities; treatment, storage and distribution system losses; and net quantities retained and released from storage systems over the year to improve supply reliability. Typically, the total amount of water used is less than water withdrawn, although exceptions may occur when large quantities of previously stored water are utilized. In 2016, average withdrawals in the District for public supply totaled 537.0 mgd. This total includes 336.6 mgd of groundwater, 198.3 mgd of surface water, and 2.0 mgd of desalinated seawater. After imports, exports, storage, and distribution losses were accounted for, the total gross public supply water use was 514.9 mgd. The public supply withdrawals and gross use for each county are shown in Table 1.

GENERAL INFORMATION

The public supply water use category is for water quantities distributed by public and private water utilities, which are defined by District Rule as a community water system that serves at least 15 service connections used by year-round residents or that serves at least 25 individual year-round residents. For large utilities, some specific uses within the public supply category may not be directly related to population such as fire suppression use, lawn and landscape irrigation, common area irrigation, and water supplied to businesses and commerce. The public supply category may also be a subcategory allocation for permittees that are not connected to a utility but provide water for personal/sanitary use to employees, visitors, or guests.

DATA SOURCES

There are three sources of data for the public supply water use category: the 2016 PSARs provided by most water utilities, metered withdrawals from the WMIS database for other permittees that have a public supply allocation, and District-estimated withdrawals for small public supply WUPs (having allocations less than

100,000 gpd). In 2016, there were 393 WUPs in active status that included the public supply use category, and 141 PSAR reporting entities. Twelve of the PSAR utilities were “wholesale” utilities that have no local withdrawals but import 100,000 gpd or more for public supply from a regional water authority or neighboring utility.

The PSARs include several details of annual water use and other demographic information. The PSAR data for each utility is provided in Appendix A, Tables A-1 through A-3. Table A-1, Part 1 shows the water withdrawn from resources, import/exports, treatment losses, gross use, functional population served, and per capita use calculations. (Part 2 lists metered non-PSAR WUPs.) Table A-2 shows the PSAR utility-reported specific uses by quantity and percentage: approximately 68 percent was delivered for residential uses, 19 percent was for industrial/commercial customers served by utilities, 8 percent was accounted by distribution system losses, and the remainder was used for common-area irrigation, firefighting, and other uses.

There were nine utility golf communities whose PSAR-reported withdrawals included golf course irrigation quantities that are categorized in the landscape/recreation category of this report. To avoid double-counting, those quantities are deducted from the Table 1 column “PSAR metered withdrawals.” Details are footnoted on the table.

There was an additional 5.0 mgd of metered withdrawals by 48 WUPs that did not require a PSAR submittal. A 3.2 mgd portion was for surface water withdrawn from the Tampa Bypass Canal by Tampa Bay Water to augment the Hillsborough River Reservoir. Other metered withdrawals were for personal sanitary use at farms and institutions, small golf communities, and small utilities with a special metering condition because the withdrawals are near environmentally sensitive areas. The non-PSAR metered WUPs are listed in Appendix A, Table A-1 Part 2.

There were 212 small, unmetered public supply permittees with estimated withdrawals totaling 4.6 mgd. Approximately 80 percent of these withdrawals were for residential uses, 11 percent

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for personal sanitary uses, and the remainder were for irrigation, fire protection, and other uses.

GROSS WATER USE QUANTITIES

After accounting for imports, exports, water losses, and changes in storage, the total annual gross water use for public supply was 514.9 mgd, or 96 percent of the withdrawal total. The District's percentage of public supply water used/withdrawn has typically been 95 percent (20-year average), with the lowest being 88 percent in 2006. Some annual variation is expected due to net changes in regional storage reserves of captured surface water during wetter and dryer years.

The ratio of water used/withdrawn varies immensely by county, due to the transmission from regional water sources to utilities in neighboring counties. Pinellas County imported 76 percent of its public supply from either Pasco or Hillsborough County. Utilities in DeSoto County used just 1.5 mgd for public supply, but approximately 25.5 mgd was exported from the Peace River Facility in Desoto County to utilities in other counties. Figure 3 has separate pie charts of the county-level public supply water withdrawals and water use. Appendix A, Table A-3 provides a detailed accounting of water transfers among the utilities and regional water authorities.

GROUNDWATER & SURFACE WATER

In 2016, groundwater provided 63 percent (336.6 mgd) of public supply water withdrawn in the District. Though not quantified for this report, it's assumed that approximately 90 percent of the groundwater withdrawals were from the Upper Floridan aquifer. The surficial aquifer and the Hawthorne aquifer system (aka intermediate aquifer system) are utilized for public supply in southern counties.

The District's largest groundwater WUP is for Tampa Bay Water's Consolidated Wellfield (WUP #11771). The WUP's permitted quantity is for a combined 90 mgd among 11 regional wellfields situated among three counties. The withdrawals are rotated for resting and recovery of groundwater resources in accordance with environmental management plans. In 2016, a total of 78.4 mgd annual average was withdrawn

from the Consolidated Wellfield WUP; with 47.1 mgd from wells in Pasco, 22.5 mgd in Hillsborough, and 8.7 mgd in Pinellas. The withdrawals are divided per well for this report to accurately portray the county totals. In Appendix A, Table A-1 and Table A-3, each county's share is categorized as an import to Tampa Bay Water's regional system because water from the Consolidated Wellfield may be blended with other sources before its exported to the member utilities.

Surface water accounted for 37 percent (198.3 mgd) of public supply water withdrawals in 2016. Significant amounts of surface water are withdrawn from rivers, canals, and creeks for public supply to offset withdrawals from groundwater resources. The majority of surface water withdrawals for public supply occur at large-scale water treatment facilities located in Hillsborough County (132.0 mgd), DeSoto County (24.5 mgd), and Manatee County (28.5 mgd). The Villages community in Sumter County utilized an estimated 6.7 mgd of surface water captured in lined stormwater ponds for outdoor public supply use. The Villages' stormwater use quantity is included in Table 1 because it was factored into their PSAR calculations.

Tampa Bay Water withdrawals surface water from the Hillsborough and Alafia rivers and the Tampa Bypass Canal. The water is stored for seasonal and drought-year reliability in the C.W. Bill Young Reservoir, and is exported to utilities in Hillsborough, Pasco, and Pinellas counties. The reservoir has a capacity of 15.5 billion gallons. The reservoir held 14.9 billion gallons at the beginning of January 2016 and held 13.7 billion gallons at the end of the year. Notwithstanding evaporation and seepage losses, the net change of storage (1.2 billion gallons) equates to approximately 3 mgd (annual average) of the difference between the public supply withdrawal and gross use quantities.

Tampa Bay Water's seawater desalination facility near Apollo Beach treats salt water withdrawn from Tampa Bay and blends the water into its regional system. The facility is operated primarily in the dry season, and exported water over 60 days at an average rate of 12.2 mgd, which equates to 2.0 mgd annual average production in

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2016. While on stand-by, the facility may send an unspecified quantity of partially-treated water to the C.W. Bill Young Reservoir. Within this report, the exported seawater effluent is included in the Hillsborough PSAR totals, but it's excluded from tables listing specifically surface water and groundwater quantities. Seawater withdrawals are not regulated by the District.

The Peace River Manasota Regional Water Supply Authority (PRMRWSA) withdraws and stores water at its the Peace River Facility in DeSoto County; and distributes supplies to Charlotte, DeSoto, and Sarasota County utilities and the City of North Port. Manatee County is a member of the PRMRWSA but does not currently purchase water. The Peace River facility has two off-stream reservoirs with a combined capacity of 6.9 billion gallons and 21 ASR wells with a combined storage capacity of 6.3 billion gallons. The net quantity stored at the Peace River Facility increased by 1.2 billion gallons over the year. Notwithstanding evaporation and seepage losses, the net change equates to approximately 3 mgd annual average difference between the public supply withdrawal and gross use quantities.

There are five additional utility surface water facilities in the District. The Hillsborough River Reservoir is an in-stream system that's been operated by the City of Tampa since the 1920s, and is the city's primary source of water. The City of North Port acquired approximately half of its supply from a surface water facility on Myakkahatchee Creek. Manatee County and the City of Bradenton have in-stream reservoirs known as Lake Manatee and Evers Lake, respectively, which provide a major portion of their public supply. The City of Punta Gorda in Charlotte County generates most of its supply from the Shell Creek in-stream reservoir and treatment facility.

PER CAPITA WATER USE MEASURES

The water use per capita is a widely used ratio measurement of water use/population. Three types of per capita calculations are reported on the utilities' PSARs and are provided on Table A-1 of Appendix A: the "unadjusted gross," "adjusted gross," and "compliance" per capita. A "residential" per capita use is also calculated and shown on Table A-2. The District also prepares

"uniform" gross and residential per capita measures for the DEP using a consistent statewide methodology. The DEP uniform per capita measures are available in Appendix E. Each of the per capita measures are briefly described below. More details can be found in the District's WUP Applicant's Handbook, Part B: [http://www.swfwmd.state.fl.us/files/database/site_file_sets/14/Applicants Handbook Part B.pdf](http://www.swfwmd.state.fl.us/files/database/site_file_sets/14/Applicants%20Handbook%20Part%20B.pdf)

UNADJUSTED GROSS PER CAPITA: The unadjusted gross per capita (UGPC) is simply the utilities' gross water use divided by the population served. In 2016, the Districtwide UGPC was 99 gpcd.

The UGPC calculation can be proportionately high for some utilities because of various reasons. Utilities with industrial/commercial customers have a share of water use not related to population. A high UGPC is common in small master-metered communities where residents lack an economic incentive to conserve water. Residential developments with large lot sizes tend to have higher-than-average UGPC due to irrigation of larger lawns. Newly opened residential developments may have initially high UGPCs as new landscaping is established. Retirement communities with a below-average number of persons per dwelling may also show a high UGPC rate.

A low UGPC rate is common in communities with high water prices, as well as for utilities estimating their population by dwelling unit. The dwelling unit method multiplies number of units in a utility's service area by an average persons-per-household, which sometimes over-estimates the population by assuming year-round residency for seasonal or rental lodgings.

Appendix D, Table D-1, provides a ten-year history of public supply utilities' unadjusted gross per capita use.

ADJUSTED GROSS PER CAPITA: The Adjusted Gross Per Capita (AGPC) allows a more equitable comparison of utilities by allowing deductions of specific water uses that are unrelated to population. The PSAR forms allow water quantities for "significant use," "golf courses," and "environmental mitigation" to be subtracted before dividing by the population. In 2016, the Districtwide average AGPC was 97 gpcd.

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The significant use deductions are for utility-supplied water to industrial/commercial customers such as a factories and shopping centers. To qualify as a significant use, the amount delivered must meet certain criteria and the permittee must properly document the deduction claimed.

The golf course deduction is available to utilities that serve golf courses and mixed-use resorts. Most golf courses within the District have their own WUPs and irrigation wells, but a few golf courses in urban areas irrigate with fresh water supplied by public utilities.

The environmental mitigation deduction can be taken for augmentation quantities if a permittee was required to replenish any lakes or wetlands that were impacted by their withdrawals.

COMPLIANCE PER CAPITA: The compliance per capita (CPC) allows the AGPC deductions plus two additional credits for stormwater use and reclaimed water exports.

Stormwater deductions must be metered and reported under the WUP in order to be credited. The quantities are used within the utility's service area, and the deduction can't exceed the groundwater permitted allocation or quantity used. Stormwater deductions also exclude golf course uses to avoid double-counting with the golf course deduction.

The reclaimed water deduction is a special credit for reclaimed water provided to customers outside of the utility's service area. Reclaimed water used within the utility's own service area isn't applicable because it already offsets a share of their potable water use.

The CPC was developed for calculating compliance with a Districtwide conservation rule set in 2009. The rule required all public supply permittees to attain a CPC rate of 150 gpcd or lower by the end of 2019. In 2009, there were 27 utilities over the target compliance rate of 150 gpcd. There were nine reporting utilities with a CPC over 150 gpcd in 2016. For regulatory compliance purposes, a rolling five-year average CPC is used. Seven of the nine utilities also have a five-year average CPC over 150 gpcd. The 2016 Districtwide average CPC was 93 gpcd.

RESIDENTIAL PER CAPITA: The residential per capita (RPC) rate is a useful statistic for analyzing home water use only, but is not utilized for regulatory purposes. The RPC is similar to the AGPC in that it deducts non-residential uses, except formal documentation is not necessary. The RPC represents water used only at single-family, multi-family, and mobile home residences according to the utility's billing detail. The average District RPC rate was 68 gpcd in 2016. The utility RPC values are provided in Appendix A, Table A-2. The countywide RPC values are used as a multiplier to estimate the domestic self-supply use, as discussed in the next chapter.

DEP UNIFORM GROSS & RESIDENTIAL PER CAPITA: In 2009, the DEP developed a uniform statewide convention for calculating public supply per capita water use. Florida's five water management districts provide the DEP with public supply water use data using this consistent methodology for statewide analyses. This method is not otherwise utilized by the District for regulatory or planning purposes.

The DEP uniform method provides both gross and residential per capita values. The residential population is calculated by number of housing units and the average persons per household within the utility service area. The data is sent to the DEP annually and is provided in Appendix E, Table E-1. For 2016, the Districtwide DEP uniform gross per capita was 101 gpcd and the DEP uniform residential per capita was 69 gpcd.

PUBLIC SUPPLY WATER TRANSFERS

Regional water transfers play an important role in the District by allowing large-scale surface water treatment facilities to serve multiple utilities, reducing stress on groundwater resources and wetland environments, and improving reliability in water supply systems for emergencies and drought conditions. Tables A-1 and A-3 in Appendix A provide a reference of the public supply imports and exports by regional water supply authorities and utilities. Approximately 218 mgd was transferred among utilities and water authorities within the District in 2016.

MONTHLY WATER WITHDRAWALS

A monthly analysis of public supply surface water and groundwater withdrawals in comparison to monthly rainfall is illustrated in Figure 4. The

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figure reflects an increase in surface water withdrawals in August when seasonal resources became available for capture and storage in regional reservoirs. The monthly withdrawal source data for the figure is provided in Appendix A, Table A-4. The monthly data is calculated from WMIS pumpage records and excludes some PSAR-based data including the seawater desalination and stormwater use. The standard deviation of monthly public supply withdrawals was 57.4 mgd, which is 11 percent from the unweighted mean average.

PUBLIC SUPPLY IN WATER USE CAUTION AREAS

WUCA-specific withdrawal quantities are provided in Appendix B. In the SWUCA, 208.1 mgd of water was withdrawn for public supply, of which 139.2 mgd was withdrawn from groundwater (Table B-2). Most of the public supply groundwater withdrawals occurred in Polk County (59.5 mgd). Surface water withdrawals for public supply at multiple facilities in the SWUCA totaled to 68.9 mgd.

In the MIA, within the SWUCA (Table B-3), 38.7 mgd of water was withdrawn for public supply, of which 28.5 mgd was from surface water sources.

In the NTB WUCA, 246.8 mgd was withdrawn for public supply, of which 124.0 mgd was from groundwater (Table B-4). Surface water withdrawals in the NTB WUCA were 122.8 mgd, almost entirely from Hillsborough County.

In the DPC WUCA (Table B-5), 18.6 mgd was withdrawn from groundwater for public supply. Tampa Bay Water's South Central Wellfield (WUP #4352) has 6 of its 17 supply wells located in the WUCA boundary. The total above includes withdrawals specifically from those wells within the DPC WUCA.

PUBLIC SUPPLY PERMITTED QUANTITIES

The total permitted quantities allocated by the District for public supply were 779.7 mgd, annual average. Of this, 488.9 mgd (63 percent) were permitted for use from groundwater sources, and 291.9 mgd (37 percent) were for surface water. The total permitted quantities by source, county, use type, and by WUCA are provided in Appendix C. The permitted values shown were effective at the end of the year (December 31, 2016).

Polk County had the largest permitted amount of groundwater for public supply use (139.1 mgd), which accounts for 28 percent of the groundwater permitted Districtwide for public supply. Hillsborough County contains the most surface water quantities permitted for public supply at 205.7 mgd.

Comparing groundwater withdrawn for public supply (336.6 mgd) to the permitted groundwater quantity (488.9 mgd) shows that 68 percent of the permitted groundwater sources were withdrawn in 2016.

It should be noted that in Appendix C, Tables C-1 and C-4, that the permit allocation for Tampa Bay Water's Consolidated Wellfield WUP (90 mgd, annual average) is assigned solely to Hillsborough County, although a share of withdrawals occur in Pasco and Pinellas Counties. The permit allows for rotational use and does not divide the allocated quantities by well or by county. As previously mentioned, the actual withdrawals under this WUP are allocated among the three counties where they occurred. Any comparisons of "permitted" quantities to "withdrawal" quantities for these three counties could be affected by this difference.

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Table 1. Summary of Metered and Estimated Public Supply Water Withdrawals and Water Use (mgd), 2016

County	PSAR Metered Water Withdrawals (mgd)	PSAR Imported Water (mgd)	PSAR Exported Water (mgd)	PSAR Treatment Losses (mgd)	PSAR Gross Water Use ¹ (mgd)	Non-PSAR Metered Water Withdrawals & Use ² (mgd)	Non-PSAR Estimated Water Withdrawals & Use ³ (mgd)	Total Public Supply Withdrawals (mgd) ⁴	Ground- water	Surface Water	Total Public Supply Gross Water Use (mgd) ⁵
*Charlotte	7.401	11.007	0.621	1.104	16.683	0	0.019	7.420	2.373	5.047	16.702
Citrus	14.335	0.391	0.408	0.189	14.129	0.187	0.466	14.988	14.988	0	14.782
DeSoto	32.644	1.080	30.687	1.544	1.493	0.001	0.012	32.657	8.129	24.528	1.506
Hardee	1.118	0	0	0.018	1.100	0.251	0.056	1.425	1.425	0	1.407
Hernando	19.273	0	0	0.123	19.150	0	0.161	19.434	19.434	0	19.311
*Highlands	7.341	0	0	0.087	7.254	0.112	0.181	7.634	7.623	0.011	7.547
Hillsborough^{6,7}	188.361	56.939	106.345	3.639	135.316	3.568	0.807	192.736	58.754	131.972	139.691
*Lake	0	0	0	0	0	0	0	0	0	0	0
*Levy	0.690	0.001	0.001	0.034	0.656	0	0.004	0.694	0.694	0	0.660
Manatee	45.312	4.107	7.736	1.442	40.241	0.011	0.005	45.328	16.789	28.539	40.257
*Marion	10.107	0	0.105	0.132	9.870	0.084	0.284	10.475	10.475	0	10.238
Pasco	61.125	33.004	50.307	0.642	43.180	0.430	1.038	62.593	62.539	0.054	44.648
Pinellas⁸	27.133	88.736	19.771	5.080	91.018	0	0.059	27.192	27.192	0	91.077
*Polk^{7,8}	64.954	2.192	0.460	0.998	65.688	0.312	1.337	66.603	66.603	0	67.337
Sarasota⁷	20.441	18.876	1.010	5.675	32.632	0	0.011	20.452	18.993	1.459	32.643
Sumter^{7,9}	27.088	0	0	0.258	26.830	0.075	0.165	27.328	20.594	6.734	27.070
District Totals	527.323	216.333	217.451	20.965	505.240	5.031	4.605	536.959	336.605	198.344	514.876

Data Sources: 2016 Public Supply Annual Reports & 2016 Estimated Water Use Tables derived from the WMIS database.

Calculations from raw data create minor rounding discrepancies in totals.

* Data is only for that portion within the District.

¹ Generally, the Gross Use = Withdrawal Quantity + Imports – Exports – Treatment losses. Discrepancies can occur from seasonal storage and regional transmission losses.

² Quantities metered by public supply permittees that were not required to submit PSARs.

³ Estimated for non-metered Small General water use permits (less than 100,000 gpd on an annual average basis).

⁴ The total Public Supply withdrawals = PSAR metered withdrawals + Non-PSAR metered withdrawals + estimated public supply withdrawals.

⁵ The total Public Supply use = PSAR gross use + non-PSAR metered withdrawals + estimated public supply withdrawals.

⁶ The total PSAR Withdrawal for Hillsborough County includes 2.010 mgd of Tampa Bay Water's seawater desalination effluent. The seawater quantity is not included in the specific surface water or groundwater withdrawals.

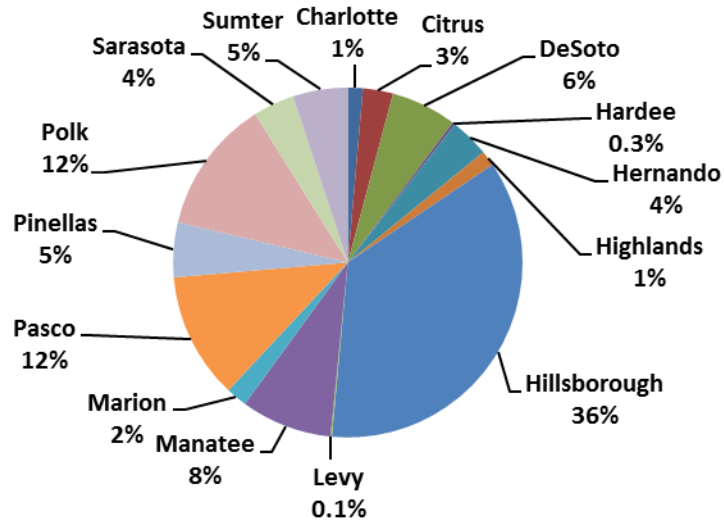
⁷ The countywide PSAR metered withdrawal contains deductions from totals shown in Appendix A, Table A-1, to avoid double-counting of landscape/recreation use at nine golf resorts with mixed-use permit quantities. The deductions are -0.123 in Hillsborough, -1.010 mgd in Polk, -0.176 mgd in Sarasota, and -1.350 mgd in Sumter counties.

⁸ The countywide PSAR metered withdrawal was adjusted from totals shown in Appendix A, Table-A to correct for "water year" (Oct-Sept) data reported on four PSARs. The WUPs and calendar year withdrawals were - Hillsborough: Plant City 1776 (5.192 mgd), City of Tampa 2062 (73.938 mgd). Pinellas: City of Clearwater 2981 (20.738 mgd). Polk: City of Lakeland 4912 (20.738 mgd)

⁹ The Total PSAR Withdrawal for Sumter County includes 6.734 mgd of stormwater captured and used by The Villages.

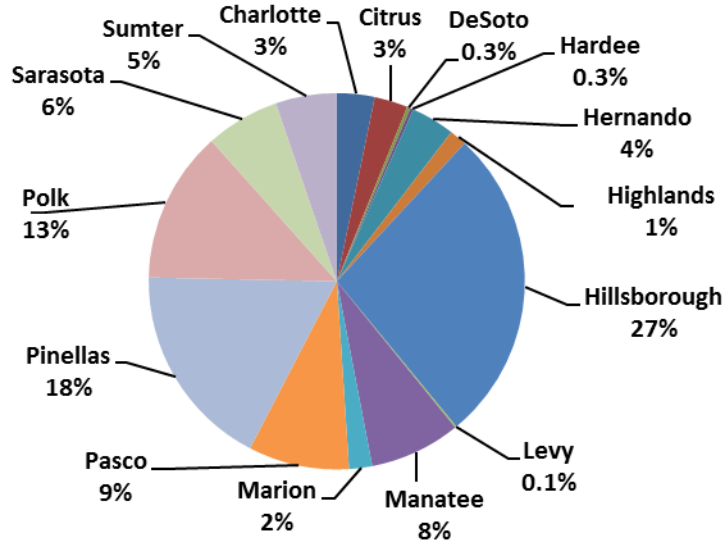
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Percent of Public Supply Withdrawals By County



Total Withdrawals = 537.0 mgd (PSAR, non-PSAR metered, and estimated)
Calculation includes only District portion of counties.

Percent of Public Supply Use By County



Total Use = 514.9 mgd (Table 1, Un-adjusted Gross Water Use)
Calculation includes only District portion of counties.

Figure 3. Percentages of Public Supply Withdrawals and Water Used by County
(Data Source: Table 1)

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Public Supply Monthly Withdrawals and Rainfall

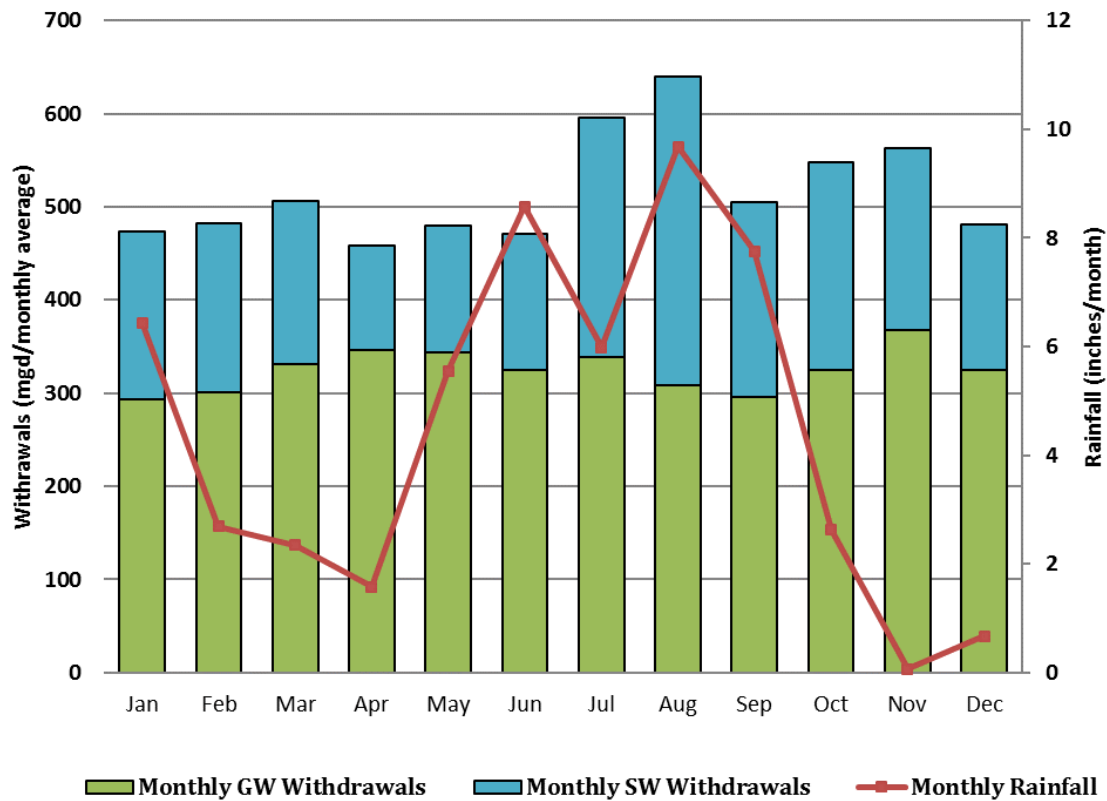


Figure 4. Public Supply Surface Water and Groundwater Withdrawals (mgd/month) and District Regional Rainfall (inches/month), 2016
(Data Sources: Appendix A, Table A-4 and District rainfall data)

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DOMESTIC SELF-SUPPLY WITHDRAWAL/USE = 34.8 MGD

For 2016, an estimate of approximately 34.8 mgd of water was calculated for domestic self-supply use within the District. This estimate is a slight increase from the 33.8 mgd calculated for domestic self-supply in 2015. The water users included in this category are generally rural residents that use private, domestic wells for potable supply.

GENERAL INFORMATION

The domestic self-supply category includes the amount of potable water withdrawn from privately-owned wells, typically at rural family residences. The water users are located outside of the distribution systems of public supply utilities. Domestic supply wells are typically 4-inches in diameter and are exempt from regulation by the water management districts. It is assumed that groundwater is the sole source of water for domestic self-supply because surface water treatment by private residences for potable uses is uncommon. Most of the self-supplied residences also use septic systems, therefore a major portion of the water used is recharged to the local shallow aquifer.

It is important to note that some utility customers who purchase potable water for indoor uses may also have small private lawn irrigation wells. Self-supplied irrigation withdrawals within public supply utility service areas are not included in these domestic self-supply estimates, or in other categories of this report. If an estimate is needed, see the “additional irrigation” quantities projected in 5-year increments in the District’s 2015 Regional Water Supply Plan, Appendix 3-3 Demand Projections for Public Supply, Table 23:

<http://www.swfwmd.state.fl.us/documents/plans/RWSP/2015>

METHODOLOGY

The domestic self-supply water use estimates are generated by multiplying the self-supplied population in each county by the average residential per capita water use by that county. One exception is Lake County, where the Districtwide per capita value is used instead of a countywide value because there’s no representative public supply use in the District portion of the county.

The self-supplied population is determined through a GIS-based demographic analysis of U.S. Census parcel-level populations outside of all public supply utility service areas within the District. Additional information on the GIS methodology is provided in Appendix F. Prior to 2014, the self-supplied population was calculated by subtracting the population served by utilities (as reported in the PSARs) from a BEBR-based countywide functional population. The prior methodology was subject to year-to-year inconsistencies due to the nature of using population data acquired from the numerous utilities and their various methods.

Each county’s residential per capita value is consistent with Appendix A, Table A-2. The method assumes that self-supplied water users had similar water use habits as the residents served by the public supply systems within the same county, including the weather influences during the year.

Table 2 shows the calculated self-supply population, the counties’ residential per capita, and estimated domestic self-supply use. Figure 5 is a pie graph showing the percentage of the estimated self-supply used in the counties. Monthly water use is not included for domestic self-supply, but it can be assumed that monthly use trends would be similar to public supply.

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Table 2. Summary of Domestic Self-Supply Water Use by County, 2016

County	GIS-Based Calculated Self-Supply Population¹	Residential Per Capita² (gpd/person)	Estimated Domestic Self-Supply Water Use ³ (mgd)
*Charlotte	5,886	65	0.383
Citrus	45,222	100	4.522
DeSoto	19,198	53	1.017
Hardee	11,935	43	0.513
Hernando	35,740	92	3.288
*Highlands	12,556	54	0.678
Hillsborough	100,318	71	7.123
*Lake ⁴	1,095	68	0.074
*Levy	16,632	54	0.898
Manatee	10,625	63	0.669
*Marion	36,683	119	4.365
Pasco	66,757	69	4.606
Pinellas	5,078	51	0.259
*Polk	25,104	75	1.883
Sarasota	30,439	52	1.583
Sumter	16,559	179	2.964
District Totals	439,827		34.826

Data sources: District GIS data and Appendix A.

* Data is only for the portion of the county within the District.

¹ Self-supply population was calculated in GIS query of census data point locations outside of active utility service areas. Values include Permanent/Seasonal, Tourist, and Net Commuter population.

² "Residential Per Capita," is from Table A-2 in Appendix A and is based on PSAR-reported residential water use submitted by utilities.

³ Estimated Domestic Self-Supply Water Use = ("Self-Supply Population" x "Residential Per Capita") / 1,000,000

⁴ The Districtwide residential per capita value of 67 gpcd (Appendix A, Table A-2) was used as the multiplier for Lake County because there are no Public Supply permittees in the District portion of the county.

2016 ESTIMATED WATER USE REPORT

Percent of District Domestic Self Supply Use By County

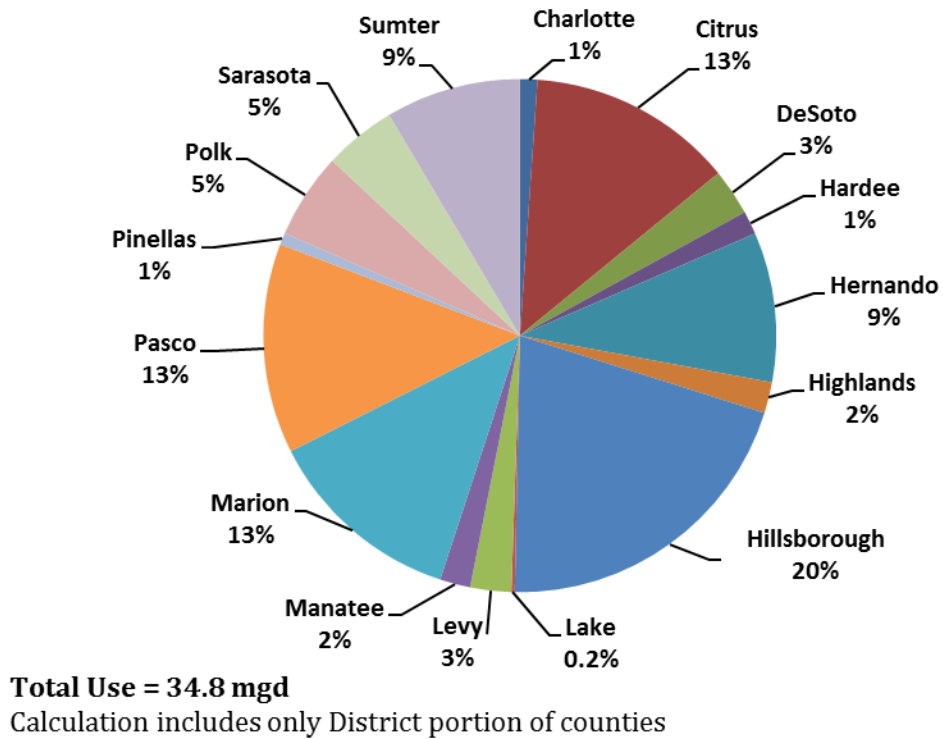


Figure 5. Percentage of Estimated Domestic Self-Supply Water Use by County, 2016
(Data source: Table 2.)

2016 ESTIMATED WATER USE REPORT

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2016 ESTIMATED WATER USE REPORT

LANDSCAPE/RECREATION

WITHDRAWAL/USE = 57.2 MGD

Landscape/recreation water withdrawals were 57.2 mgd within the District in 2016. This quantity is up from 49.0 mgd in 2015, but below a ten-year average of 63.2 mgd. Approximately 90 percent (51.7 mgd) was withdrawn from groundwater sources.

GENERAL INFORMATION

The landscape/recreation water use category is synonymous with the “recreation/aesthetic” category shown in the 2013 and earlier EWU Reports. The category name was changed by modification of Florida Administrative Code 40D-2.501 as part of statewide permitting consistency efforts. Approximately 96 percent of the category is for irrigation purposes including of golf courses, botanical gardens, cemeteries, parks, sport playing fields, common areas, and other large landscapes. Non-irrigation uses include public restrooms, and public fountains, and water-based recreation.

The water use totals shown are only for withdrawals from natural resources and do not include reclaimed water, stormwater, or other alternative water supplies used for the same purposes. At facilities where both groundwater and alternative water supplies are used for irrigation, they are typically blended in a storage pond. The EWU Report includes groundwater used to augment the irrigation pond water levels, but does not include the mixed quantities repumped from the pond to meet the facility’s irrigation demands. Permittees that have access to alternative water supplies are required to utilize all of the alternative supplies first. As more alternative supplies become available, use from natural resources for irrigation declines. Reclaimed water is used on more than half the golf courses within the District. Additional information on reclaimed water use is available in various reports at:

<http://www.swfwmd.state.fl.us/conservation/reclaimed/>

A WUP may be categorized under this predominant use type when the allocations are majorly for lawn and landscape irrigation, even if a permittee’s business practice may fit another category. Withdrawals from multi-use WUPs are

divided appropriately based on the use type allocation assigned to specific withdrawal points. Other predominant use categories will also contain some lawn and landscape uses as a minority. As in all use categories, there are also some small self-supply users that have withdrawal points below regulatory thresholds and don’t require a WUP, for which withdrawal information is not available.

The District determines a WUP’s allowable permit quantities in part using an irrigation rate calculation model known as AGMOD. The model is used to derive an acre-inch application rate for irrigation of golf courses, lawn and landscape, parks, cemeteries, and sports fields based on Florida-modified Blaney-Criddle calculations. AGMOD uses site-specific data for soil type, irrigation method, amount of solar radiation received, historic rainfall for the county, root depth, and other factors that affect how much supplemental irrigation will be required to meet the plants’ needs.

Irrigation quantities are permitted for golf course irrigation based on the actual measured acreage of tees, greens, and fairways. A standard 50 inches per acre is permitted for tees and greens due to heavy foot traffic and very short cut height. The fairways receive supplemental irrigation quantities according to AGMOD calculations. No irrigation quantity is given for golf course roughs. Roughs are generally described as areas outside the main playing field for golfers, or at the third turfgrass cut height. Golf course permittees may irrigate these areas if there is water left over from the amount permitted for the playing areas. These restrictions apply to the use of both water from natural resources and alternative water supplies, unless excess disposal of reclaimed water is needed.

2016 DATA

Table 3 provides the landscape/recreation water withdrawal data by county and for specific use groups within the category. The use groups in Table 3 have been slightly revised for the 2016 EWU Report; the former “Other Uses” group in prior reports contained a mix of irrigation, augmentation, and other sanitary uses which are now divided. Augmentation is shown a separate group and includes both aesthetic purposes and

2016 ESTIMATED WATER USE REPORT

environmental mitigation. The irrigation uses included common areas and aesthetic uses which have been moved to the “Cemeteries, Sports Fields, Parks, etc.” group. The remaining non-irrigation uses are grouped as “Restrooms, Sanitary, Other Uses” and include public drinking fountains, air conditioning/cooling, cleaning and maintenance, decorative water features, firefighting/testing, personal/sanitary use, office/staff facilities, food preparation, etc.

Most of the landscape/recreation withdrawals were for irrigation purposes: 58 percent for golf courses, 27 percent for lawn and landscape irrigation (including non-playing areas at golf resorts), and 8 percent for other irrigation uses including parks, common areas, sport fields, cemeteries, etc.

The counties with the most landscape/recreation use were Manatee County (9.9 mgd) and Hillsborough County (8.7 mgd). Figure 6 shows the percentage of use for each county.

GROUNDWATER & SURFACE WATER

In 2016, groundwater provided 90 percent (51.7 mgd) of landscape/recreation water supply withdrawn for in the District. Since groundwater is typically withdrawn as it's needed, and the landscape/recreation category is mostly for irrigation uses, the monthly use graph in Figure 7 demonstrates an inverse relationship with the monthly withdrawal. The standard deviation of monthly landscape/recreation withdrawals was 15.9 mgd, which is 28 percent from the unweighted mean average.

Surface water use for landscape/recreation was 5.5 mgd, or 10 percent of total withdrawals in the category. Charlotte, Hernando, Pinellas, and Sarasota counties used the most surface water for landscape/recreation. The surface water

quantity reflects only withdrawals from natural resources; metered water use from irrigation ponds that receive reclaimed water or groundwater augmentation are excluded, although they likely include an unquantified share of captured stormwater use. The District only makes exceptions to account for stormwater if the permittee quantifies and reports the stormwater use for regulatory purposes.

APPENDICES

Appendix A, Table A-5 provides permit-specific water use data for all the metered landscape/recreation WUPs. The table shows the WUP number, permittee name, prominent water use code, withdrawal source (groundwater or surface water), annual average withdrawals, total WUP permitted quantities, and how much of the permitted quantity is specifically for landscape/recreation use.

Table A-6 in Appendix A gives the total monthly landscape/recreation water withdrawals per county. This is the source data for Figure 7.

Appendix B provides the annual average quantities withdrawn per use category by water source (groundwater and surface water) per county and each of the WUCAs. In the SWUCA, the landscape/irrigation water use total in the SWUCA was 29.1 mgd, or 51 percent of the Districtwide total for the use type.

Appendix C provides the permitted annual average quantities per use category, by water source, for the District and each WUCA. The District total permitted annual average quantities for landscape/ recreation use in 2016 was 118.9 mgd. Approximately 48 percent of the quantities permitted Districtwide for landscape/recreation supply were utilized.

2016 ESTIMATED WATER USE REPORT

Table 3. Summary of Metered + Estimated Annual Average Landscape/Recreation Water Withdrawals (mgd) by County and Water Source by Use Type, 2016

County	Golf Course Play Area Irrigation	Lawn & Landscape Irrigation	Cemeteries, Sports Fields, Parks, etc. Irrigation	Augmentation ¹	Animals & Aquariums	Restrooms, Sanitary & Other Uses ²	Water Parks & Recreation ³	Total	Total Ground-water	Total Surface Water
*Charlotte	1.061	0.360	0.096	0	0	0.002	0.239	1.758	0.650	1.108
Citrus	3.762	0.170	0.049	0.004	0	0.001	0.013	3.999	3.847	0.152
Desoto	0.112	0.078	0.004	0	0	0.031	0	0.225	0.225	0
Hardee	0.089	0.017	0	0.003	0	0	0	0.109	0.109	0
Hernando	3.049	0.630	0.159	0	0	0.035	0	3.873	3.064	0.809
*Highlands	1.848	0.270	0.042	0	0	0	0	2.160	2.118	0.042
Hillsborough	3.521	1.257	2.061	0.058	1.725	0.022	0.018	8.662	8.372	0.290
*Lake	0	0	0	0	0	0	0	0	0	0
*Levy	0.161	0.006	0.023	0	0.005	0.003	0	0.198	0.198	0
Manatee	1.634	7.750	0.484	0.000	0	0.006	0	9.874	9.660	0.214
*Marion	2.814	0.460	0.093	0	0.025	0.025	0.001	3.418	2.992	0.426
Pasco	1.853	0.295	0.461	0.643	0.068	0.046	0	3.366	3.123	0.243
Pinellas	2.159	0.425	0.360	0	0	0.001	0.003	2.948	2.167	0.781
*Polk	4.543	1.002	0.620	0.540	0.068	0.008	0	6.781	6.483	0.298
Sarasota	3.564	2.798	0.229	0	0.021	0.012	0.021	6.645	5.495	1.150
Sumter	2.955	0.146	0.090	0	0	0.003	0	3.194	3.194	0
District Total	33.125	15.664	4.771	1.248	1.912	0.195	0.295	57.210	51.697	5.513
% of Total	58%	27%	8%	2%	3%	0%	1%	100%	90%	10%
Groundwater Use	29.147	14.334	4.573	1.248	1.912	0.188	0.295		51.697	
Surface Water Use	3.978	1.330	0.198	0	0	0.007	0			5.513

* Data is only for the portion of the county within the District.

Data source: Estimated Water Use Tables derived from the WMIS database, 2016.

¹ Augmentation of surface water bodies for either aesthetic or environmental purposes related to landscape/recreation uses.

² Restrooms, Sanitary, & Other Uses are non-irrigation uses including cooling, food preparation, fire systems, and staff uses at recreational facilities; decorative water features; and public restrooms and drinking fountains.

³ Water Parks & Recreation includes water parks, flume rides, pool filling and make-up, and water-based recreation such as mud courses.

2016 ESTIMATED WATER USE REPORT

Percent of Landscape/Recreation Use by County

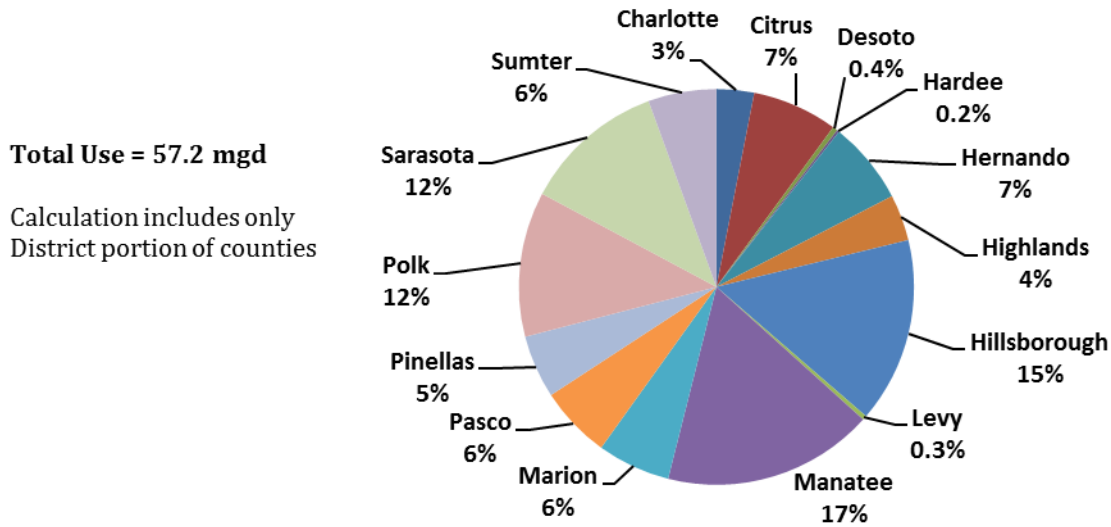


Figure 6. Percentage of Landscape/Recreation Water Use by County, 2016

(Data Source: Table 3)

Landscape/Recreation Monthly Withdrawals and Rainfall

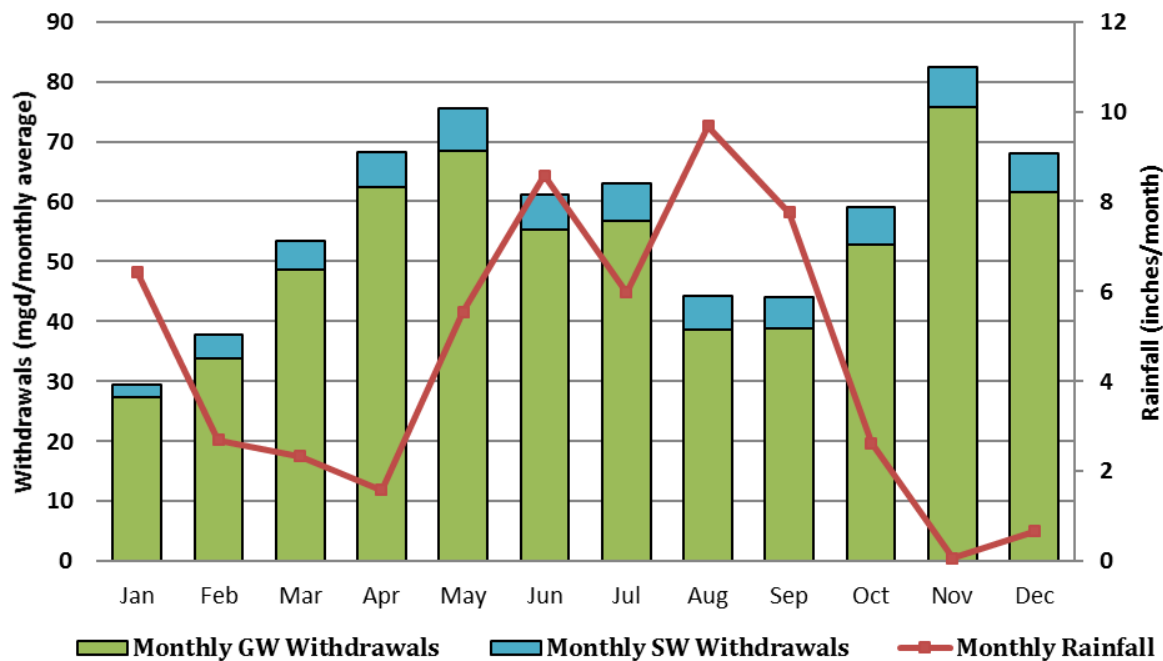


Figure 7. Landscape/Recreation Surface Water and Groundwater Withdrawals (mgd/month) and Regional Rainfall (inches/month), 2016

(Data Source: Appendix A, Table A-6 and District rainfall data)

2016 ESTIMATED WATER USE REPORT

AGRICULTURE **WITHDRAWAL/USE = 323.7 MGD**

In 2016, the total metered plus estimated agriculture water withdrawals and use in the District was 323.7 mgd. The agriculture use type category is for water withdrawals from natural resources related to agricultural activities such as irrigation, bed preparation, crop establishment, fertigation, chemigation, product washing and packing, freeze protection, irrigation system maintenance, livestock water needs, and potable water for farm employees.

GENERAL INFORMATION

Within the WUCAs, which cover much of the District, metering of agricultural water use is required for withdrawal points on WUPs issued for 100,000 gpd or more on an annual average basis. Additionally, in the SWUCA, all irrigation permits for 100,000 gpd or more on a “drought” annual average basis (2-in-10 statistical rainfall year) have metering requirements. In the District’s northern counties, outside of the SWUCA and the NTB WUCA, metering requirements are based on an original standard of 500,000 gpd or more permitted annual average. Because of this, fewer agricultural WUPs in the northern counties are metered. The northern counties include District portions of Citrus, Hernando, Lake, Levy, Marion, and Sumter counties.

The establishment of the DPC WUCA in 2011 required metering for all agricultural withdrawals permitted with freeze protection quantities, and all crops that typically require freeze protection. Since farmers dealing with freeze events are primarily concerned with saving their crops, and may be too busy to log meter readings, the District is providing free installation of automatic meter reading (AMR) devices to accurately account of freeze protection pumpage.

The combination of metered withdrawals for crops and the user-provided details on acreages and crops has given the District excellent data on water used for irrigation of many crop types under varying climate conditions. The AGMOD irrigation rate calculator is used to derive the

acre-inch application rate for 39 crop types based on Florida-modified Blaney-Criddle calculations that account for crop type, growing season, geographic location, rainfall, soil type, irrigation method, solar radiation, and root depth.

Additional information on agricultural permit quantity calculations can be found in Chapters 3 and 5 in the Water Use Permit Information Manual, Part B, Basis of Review, available at: http://www.swfwmd.state.fl.us/files/database/site_file_sets/14/Applicants_Handbook_Part_B.pdf

2016 DATA

The Districtwide agricultural water use quantity of 323.7 mgd in 2016 was similar to the 322.3 mgd in 2015, and below a ten-year average 413 mgd. Year-to-year fluctuations of agricultural water use has been common and more pronounced than with other predominant use categories. Withdrawals have been as low as 312 mgd in 2005 to a period-of-record high of 708 mgd in 2000. Multiple reasons for the annual variability include effective rainfall, freeze protection events, and citrus disease which has prompted both high use and abandonment.

Effective Rainfall: The Districtwide annual rainfall in 2016 was 54.0 inches, which was above the historical annual mean average of 52.8 inches. The timing and spatial distribution of rainfall events can be significant to its influence irrigation use. In 2016, there was at least 1.6 inches of rain each month through the typically dry spring season, but November experienced a near-record low rainfall and December was also dry. The monthly rainfall is illustrated along with monthly groundwater and surface water withdrawals in Figure 9. The figure demonstrates a pronounced inverse relationship between rainfall and agricultural irrigation water use. The standard deviation of monthly withdrawals was 158.7 mgd, which is 49 percent from the unweighted mean average.

Freeze Protection: Frost/freeze events typically last for a few days or hours, but the vast amount of water used to protect crops can influence the annual water use totals. Pumping for freeze protection of strawberries, citrus, blueberries, nurseries and aquaculture can remove over 800 mgd from the aquifer during a single freeze event.

2016 ESTIMATED WATER USE REPORT

During a record multi-day freeze event in January 2010, the intense freezes triggered over 1,200 mgd of agricultural withdrawals. Such events can cause intense but temporary drawdown in the aquifer that can potentially impact neighboring water users. In 2016, the DPC WUCA experienced temperatures between 30 and 34 degrees F. on three nights in a row on January 11th to 13th, and again on January 24th. The freeze protection withdrawals didn't increase January's monthly average significantly higher than the quantities typically used for crop establishment.

Citrus Disease: Citrus groves across Florida have been impacted by the Huanglongbing virus, commonly referred to as citrus greening. Several citrus farmers over-pumped their permitted quantities in 2011 and 2012 because they hoped that intense watering could reduce the adverse effects of greening. The practice was researched by the Florida Institute of Food and Agricultural Sciences (IFAS) and found to be ineffective. IFAS currently recommends insecticides or biological controls to fight the disease-carrying psyllids, nutritional sprays, and the removal of infected trees.

The ten-year average for citrus irrigation water use is 235.2 mgd, with the high occurring in 2012 at 289.1 mgd. Citrus irrigation use has since declined each year, down to 184.1 mgd in 2016. The current impacts of greening on water use are complex; water use may decrease where infected trees are cleared, and fields are fallow, but water use may also increase where young new trees are being established or were replaced with more water-intensive crops. From 2012 to 2016, the number of active WUPs permitted for citrus irrigation decreased 12 percent from 4,073 to 3,643 WUPs. The permitted quantity for citrus irrigation decreased just 3 percent, which may indicate some consolidation of citrus farms.

COUNTY AND CROP TYPES

Table 4 summarizes water use by county and by agricultural use groups based on similarity of crop types. The District's agricultural groupings are similar to those used by the Florida Department of Agricultural and Consumer Services. The "Livestock, Dairy" group is new for the 2016 EWU Report and was previously

included with the "Other" group. Citrus remains the largest crop in the District, utilizing 57 percent (184.1 mgd) of the total agricultural withdrawals. The largest citrus growing counties are Polk (63.3 mgd), DeSoto (39.9 mgd), Highlands (36.6 mgd), and Hardee (25.8 mgd). Tomatoes were the second largest crop, utilizing 12 percent (37.7 mgd) of the total agricultural withdrawals. Strawberries were the third largest crop utilizing 5 percent (17.5 mgd) of the total agricultural withdrawals. Figure 8 is a pie chart showing the percentage of water used for agriculture by each county. The county with the most agriculture water use in 2016 was Polk County (79.3 mgd).

GROUNDWATER & SURFACE WATER

Of the 323.6 mgd in agricultural withdrawals, 96 percent (310.5 mgd) was withdrawn from groundwater. Only 13.2 mgd was withdrawn from surface water resources. The surface water quantity represents withdrawals from natural resources only; it excludes pumpage from tailwater recovery systems, and storage ponds that receive groundwater augmentation or that blend reclaimed water, captured stormwater, or other AWS sources. Numerous farms within the District have implemented agricultural conservation and reuse systems that include storage ponds. If water use data in this report is utilized for determining crop application rates, it's recommended that AWS uses be considered.

Appendices

Appendix A, Table A-7, provides permit-specific water use data for all metered agricultural WUPs. The table includes the quantities withdrawn from both groundwater and surface water, the total permit annual average quantities, and the permitted quantity specifically for agricultural use. The crop type listed for each permittee represents the largest specific use, although multiple crop types may be coded in a WUP.

Appendix A, Table A-8, provides the monthly withdrawal data by county. This is the source data for the surface water and groundwater quantities in Figure 9.

Appendix B gives the annual average quantities withdrawn per use category and by water source (groundwater and surface water) per county.

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Multiple tables represent surface water and groundwater withdrawals in each WUCA. Table B-2 shows that 84 percent of all agricultural water use in the District occurred within the SWUCA. Agriculture accounted for 48 percent of all water withdrawals in the SWUCA, exceeding public supply.

Appendix C shows the permitted annual average quantities for the District and within each WUCA by groundwater and by surface water. Table C-1 shows that 753.5 mgd was permitted for agriculture in the District, of which 718.4 mgd was for groundwater. The amount of groundwater permitted Districtwide for agriculture exceeds the quantity permitted for public supply. Only 43 percent of the quantities permitted for agriculture were withdrawn in 2016.

DPC WUCA

As mentioned earlier, the DPC WUCA was created in 2011 to address adverse impacts to existing legal users of the groundwater resource and off-site land use caused by high pumpage from the Upper Floridan aquifer for freeze protection of crops. Table B-5 in Appendix B gives the annual average withdrawal quantities for the DPC WUCA. Table C-5 in Appendix C gives the total permitted annual average quantities in the DPC WUCA. Table C-6 presents freeze protection quantities permitted to agricultural WUPs by crop type. Strawberries are the predominant crop in the DPC WUCA, and 85 percent of the permitted freeze protection quantities are for the protection of strawberries.

2016 ESTIMATED WATER USE REPORT

Table 4. 2016 Summary of Metered + Estimated Annual Average Agricultural Water Withdrawals (mgd) by County and Water Source by Use

County	Blue- berry	Citrus	Field Crop ¹	Melon	Nursery	Pasture	Sod	Straw- berry	Tomato	Vegetable	Aqua- culture	Live- stock, Dairy	Other ²	Total	Ground- water	Surface Water
*Charlotte	0	2.276	0.017	0.153	0.080	0.684	1.061	0	0.552	0.746	0	0.003	0	5.572	4.333	1.239
Citrus	0.249	0.151	0.631	0.123	0.094	0.089	0.020	0.181	0	0.056	0.010	0.003	0	1.607	1.589	0.018
Desoto	0.231	39.865	0.211	2.465	0.049	1.587	1.919	0.369	1.106	0.384	0.458	0.099	0.034	48.777	48.057	0.720
Hardee	1.275	25.776	0.741	0.728	1.181	1.011	0.873	0.679	0.509	0.288	0	0.380	0.154	33.595	33.467	0.128
Hernando	0.164	0.581	0.269	0	0.339	0.061	0	0	0	0.017	0	0.111	0.026	1.568	1.530	0.038
*Highlands	0.221	36.641	0.090	0	0.895	0.037	0.491	0	0	0	0	0.043	0.027	38.445	32.634	5.811
Hillsborough	0.715	3.809	0.566	1.985	3.154	0.343	1.180	15.509	7.181	4.312	2.830	0.085	0.428	42.097	39.754	2.343
*Lake	0.021	0.556	0.237	0.115	0	0.038	0	0	0	0	0.016	0.001	0	0.984	0.984	0
*Levy	0.050	0	3.538	0.942	1.450	0.357	0.198	0	0	0.044	0	0.001	0	6.580	6.580	0
Manatee	0.022	6.945	0.712	0.087	0.939	0.336	3.313	0.555	27.884	9.867	0.064	0.519	0.040	51.283	51.065	0.218
*Marion	0.016	0.004	1.404	0.541	0.529	0.040	0.073	0	0.002	0.005	0	0.038	0.160	2.812	2.812	0
Pasco	0.522	3.744	0.487	0.096	0.488	0.133	0.375	0.062	0.098	0.139	0	0.079	0.053	6.276	6.187	0.089
Pinellas	0	0	0	0	0	0	0	0	0	0	0	0	0.015	0.015	0.015	0.000
*Polk	4.000	63.276	0.758	0.100	1.450	0.891	1.279	0.420	0.231	0.137	0.898	0.152	0.346	73.938	71.581	2.357
Sarasota	0.007	0.375	0.035	1.192	0.166	0.100	1.387	0	0.099	0.333	0.142	0.047	0	3.883	3.745	0.138
Sumter	0.160	0.086	1.302	0.987	1.505	0.057	0.411	0	0.065	0.126	1.419	0.055	0.063	6.236	6.149	0.087
-District-	7.653	184.085	10.998	9.514	12.319	5.764	12.580	17.775	37.727	16.454	5.837	1.616	1.346	323.668	310.482	13.186
% of Total	2%	57%	3%	3%	4%	2%	4%	5%	12%	5%	2%	0%	0%	100%	96%	4%
Groundwater Use	7.111	175.389	10.976	9.203	11.620	5.704	12.020	16.381	37.491	15.829	5.805	1.616	2.953		310.482	
Surface Water Use	0.542	8.696	0.022	0.311	0.699	0.060	0.560	1.394	0.236	0.625	0.032	0.000	0.009			13.186

Data source: Estimated Water Use Tables derived from the WMIS database, Calendar Year 2016.

* Data is only for the portion of the county within the District.

¹ Field crops include corn, grains, peanuts, other legumes, and commercial hay.

² Other includes: Lawn & landscape irrigation by agricultural businesses (0.261 mgd), non-citrus fruit trees and vineyards (0.518 mgd), agricultural research (0.432 mgd), and miscellaneous non-irrigation agriculture uses (0.135 mgd). Livestock and Dairy Operations were previously included in prior years but are now shown a separate group.

2016 ESTIMATED WATER USE REPORT

Percent of Agriculture Use by County

Total Use = 323.7 mgd

Calculation includes only
District portion of counties

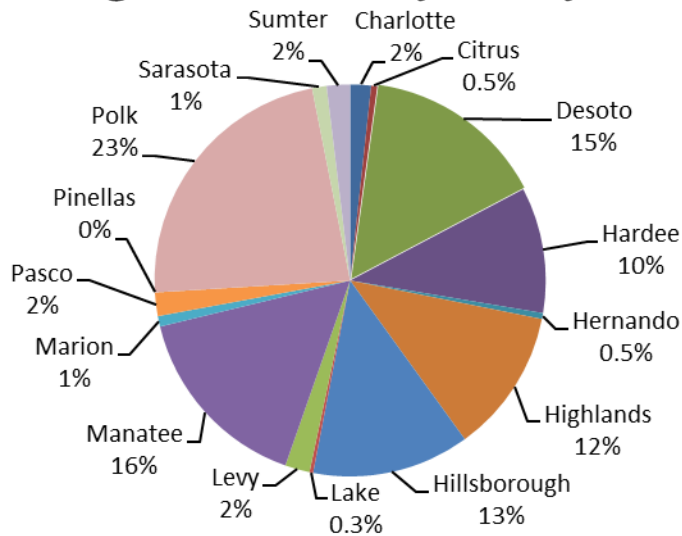


Figure 8. Percentage of Agriculture Water Use by County, 2016

(Data source: Table 4)

Agriculture Monthly Withdrawals and Rainfall

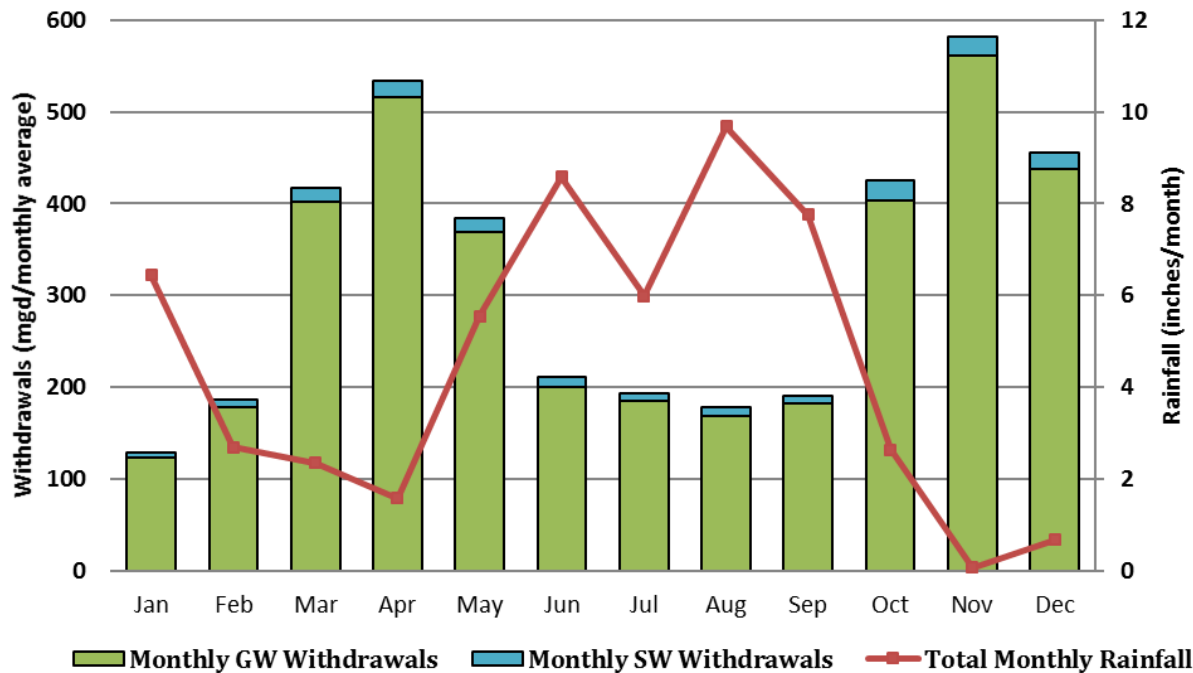


Figure 9. Agriculture Surface Water and Groundwater Withdrawals (mgd/month) and District Regional Rainfall (inches/month), 2016

(Data Sources: Appendix A, Table A-8 and 2016 District rainfall data)

2016 ESTIMATED WATER USE REPORT

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2016 ESTIMATED WATER USE REPORT

MINING/DEWATERING WITHDRAWAL/USE = 22.7 MGD

In 2016, 22.7 mgd was withdrawn from water resources for mining and dewatering activities in the District. This amount was down from 27.2 mgd in 2015, and below a ten-year average of 28.6 mgd. Most of the water was withdrawn from groundwater sources; only 0.9 mgd was withdrawn from surface water sources. Dewatering activities for construction were only 0.02 mgd of this use category in 2016.

GENERAL INFORMATION

The mining/dewatering water use category includes water for mining and processing of phosphate, peat, limestone, sand, shell, and gravel; and dewatering to create borrow pits for construction purposes.

The mining water uses that are quantified in this report include water entrained in the mined product, water used to move slurry if it's discharged off-site, make-up water for evaporative losses from circulation systems, water losses associated with washing and processing the product on-site, gypsum stack closure, augmentation withdrawals for environmental mitigation, irrigation of reclamation lands and facility landscapes, generation of electric power by mining operations (a process known as co-generation), maintenance of equipment and vehicles, fire suppression systems, and the sanitary water needs of employees.

When mined materials are processed on-site of the mining facility, those water uses are included in the mining/dewatering category. Water use for processing materials that are transported off-site are categorized separately in the industrial/commercial category.

The District's method of permitting and quantifying mining/dewatering water use was modified in 2000. WUPs issued by the District prior to 2000 were based on dewatering quantities regardless of whether the water was recirculated on-site or discharged off-site. In some cases, pumped water would recirculate from nearby discharge areas laterally through shallow aquifers and be pumped repeatedly. With WUP renewals since 2000, only

dewatering quantities that are removed from local hydrologic systems are counted as permitted quantities on the WUP. This distinction should be considered if evaluating long-term mining/dewatering water use trends, which appear to have decreased significantly from pre-2000 data.

Mining practices have improved their water efficiency over time. To conserve water, most of the mining operations today let the mined materials sit on-site to dewater, and dewatering quantities are recycled for other uses. The quantity of water entrained with the product is calculated according to the mining operations and reported to the District.

Some withdrawal points for mining WUPs are identified as "sealing wells." A sealing well withdraws water for transporting mined products through pipelines as slurry. Water is introduced at various locations along the pipeline to keep the slurry moving. Sealing water wells are drilled as needed and then plugged when the pipeline is relocated. Due to their temporary nature, sealing water wells can change their specific withdrawal location without revising the WUP. If the slurry water is discharged off-site, the quantity is included as a resource withdrawal. If the slurry water is recirculated, water losses associated with the process of moving the slurry and evaporative losses from any associated recycling pond are calculated as resource withdrawals.

The Mosaic Fertilizer Integrated WUP (#11400) had 88 active resource withdrawal points in 2016 located among multiple wellfields in four counties; Hardee, Hillsborough, Manatee, and Polk. For this report, the specific withdrawals are allocated to the counties in which they occurred. The total consumptive withdrawals for the Mosaic Integrated WUP were 31.4 mgd, of which 21.3 mgd was for mining/dewatering; the remainder is categorized as industrial/commercial uses because it was related to processing materials transported off-site of the mined area.

2016 DATA

Table 5 summarizes county-level water use by mining product type (limestone, peat, phosphate, and sand/shell/gravel), dewatering,

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general mining uses, and “sanitary use, fire safety” which is a new group in this year’s report and was previously included in General Mining Uses. Phosphate mining accounted for 95 percent of the water use in the category.

Figure 10 shows the percentage of mining/dewatering water use by each county. Polk County used 37 percent of the total quantities.

Figure 11 shows the monthly surface and groundwater mining/dewatering water use compared to rainfall. Mining water uses are less influenced by rainfall than other predominant use categories that have a larger irrigation component. The above-average use in January was related to a gypsum stack closure in Polk County. The above-average use in December was related to environmental uses at a land reclamation site in Hillsborough County.

Appendices

Appendix A, Table A-9 provides a reference of water withdrawals and permitted quantities for metered mining/dewatering permittee, grouped

by county. Table A-10 provides the average monthly withdrawals by county and water source. The adjustment for the multi-county Mosaic Fertilizer permit was applied to Hardee, Hillsborough, Manatee, and Polk county withdrawals.

The tables in Appendix C provide the permitted quantities for mining/dewatering in 2016 by county, groundwater and surface water, and within each WUCA. The Mosaic Integrated WUP’s permitted quantity is 69.6 mgd (annual average), of which 44.6 mgd is allocated for mining/dewatering and 25.0 mgd is for industrial/commercial. It should be noted that the WUP’s permitted quantities are assigned to only Polk County. This is because the total permitted quantities are allowed to rotate between mines are not divided among specific withdrawal points in each county. Any comparisons of “permit” quantities in Appendix C to “withdrawal” quantities for Hardee, Hillsborough, Manatee, and Polk Counties should compensate for this difference.

2016 ESTIMATED WATER USE REPORT

Table 5. Mining/Dewatering Water Withdrawals (mgd) by County & Use Type, 2016

County	Non-Mine Dewatering	General Mining Uses	Sanitary Use, Fire Safety	Limestone Mining	Peat Mining	Phosphate Mining	Sand/Shell/ Gravel Mining	Total	Ground- water	Surface Water
*Charlotte	0.007	0.022	0	0	0	0	0.048	0.077	0	0.077
Citrus	0	0.049	0.003	0	0	0	0	0.052	0.002	0.050
Desoto	0	0	0	0	0	0	0.002	0.002	0.001	0.001
Hardee	0	0	0	0	0	1.991	0	1.991	1.991	0
Hernando	0	0.024	0	0.002	0	0	0	0.026	0.022	0.004
*Highlands	0	0.005	0.002	0	0	0	0	0.007	0	0.007
Hillsborough	0	0.234	0	0	0	7.165	0.002	7.401	7.229	0.172
*Lake	0	0	0	0	0	0	0	0	0	0
*Levy	0	0	0	0	0	0	0	0	0	0
Manatee	0	0.083	0	0	0	4.089	0	4.172	4.105	0.067
*Marion	0	0.019	0	0	0	0	0	0.019	0.019	0
Pasco	0	0.055	0.004	0	0.001	0	0	0.06	0.008	0.052
Pinellas	0	0	0	0	0	0	0	0	0	0
*Polk	0.008	0.089	0	0	0	8.274	0.122	8.493	8.436	0.057
Sarasota	0	0.066	0	0	0	0	0.100	0.166	0.001	0.165
Sumter	0	0.231	0	0.027	0	0	0	0.258	0.017	0.241
-District-	0.015	0.877	0.009	0.029	0.001	21.519	0.274	22.724	21.831	0.893
% Of Total	0.1%	4%	0%	0%	0%	95%	1%	100%	96%	4%
Groundwater Use	0.008	0.215	0.004	0.004	0	21.480	0.120		21.831	
Surface Water Use	0.007	0.662	0.005	0.025	0.001	0.039	0.154			0.893

Data source: Estimated Water Use Tables derived from the WMIS database, 2016.

* Data is only for the portion of the county within the District.

2016 ESTIMATED WATER USE REPORT

Percent of Total Mining/Dewatering Use by County

Total Use = 22.7 mgd

"Other" includes Charlotte, Citrus, DeSoto, Hernando, Highlands, Lake, Levy, Marion, and Pinellas Counties.

Calculation includes only District portion of counties

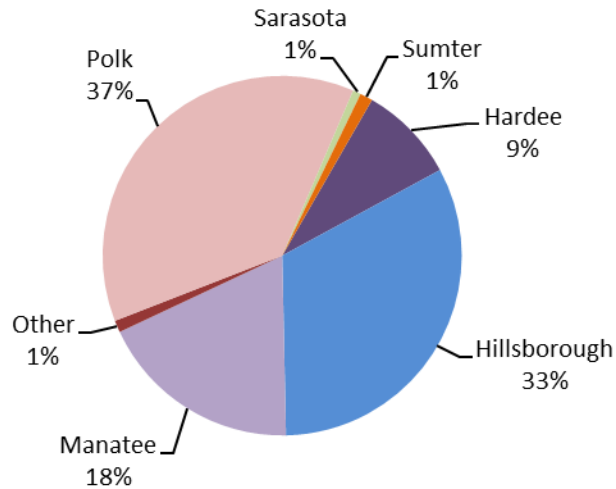


Figure 10. Percentage of Mining/Dewatering Water Use by County

(Data source: Table 5)

Mining/Dewatering Monthly Withdrawals and Rainfall

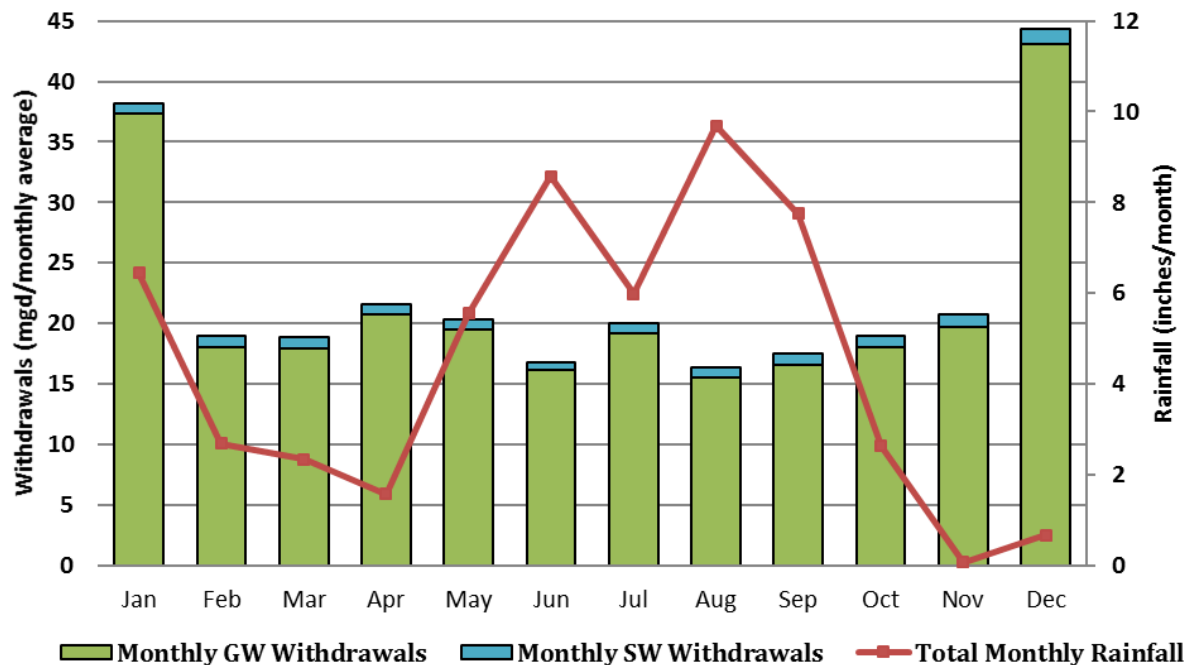


Figure 11. Mining/Dewatering Surface Water and Groundwater Withdrawals (mgd/month) and District Regional Rainfall (inches/month), 2016

(Data sources: Appendix A, Table A-10 District rainfall data)

2016 ESTIMATED WATER USE REPORT

INDUSTRIAL/COMMERCIAL WITHDRAWAL/USE = 51.5 MGD

Approximately 51.5 mgd were withdrawn from the groundwater and surface water resources for industrial/commercial water use in the District during 2016. This was less than the 56.7 mgd estimated for industrial/commercial use in 2015, and is below a ten-year average of 59.5 mgd. Groundwater was the source of 93 percent of the withdrawals.

GENERAL INFORMATION

The industrial/commercial water use category includes water permitted for product manufacturing, food processing, commercial and specialty businesses, power plants, and water used in the drink industry including bottled water. The category includes some WUPs for institutions (prisons, nursing homes, etc.) that were permitted prior to May 2014; and those uses may eventually be reassigned to the new institutional use category as the WUPs are renewed.

Industries and commercial businesses that purchase water from public supply utilities are not included in this category. If needed, the public supply quantities delivered by utilities to industrial/commercial customers in 2016 is available in Appendix A, Table A-2.

2016 DATA

Table 6 shows the county-level water use by industry group type, and by groundwater and surface water. The groups have been updated for this year's report to represent more industries. Each group type is discussed below:

Landscape Irrigation: Approximately 0.2 mgd was used for landscape irrigation by self-supplied industrial/commercial businesses with wells large enough to require a WUP allocation.

Power Generation: The water use at 20 power facilities totaled 13.5 mgd. This includes water withdrawn from natural resources and used for steam cooling, once-through cooling flows, emission control, boiler feed and makeup water, personal sanitary needs for visitors and employees, and other small uses related to power plants. Seawater that is used for power generation cooling is not included because it's not regulated by the District.

Food Processing and Packing: Food processing and packing uses were 4.1 mgd. Most of this use (3.4 mgd) was for citrus processing facilities in DeSoto and Polk Counties.

Beverage Processing: Beverage processing includes water for used for content or dilution for beverage products. The quantity used was 1.3 mgd, including 0.7 mgd for bottled water.

Phosphate Processing: Phosphate that is processed at a location away from the mine site where it was extracted is classified as an industrial/commercial water use. Off-site phosphate processing totaled 19.7 mgd in 2016.

Cement & Lime Processing: This group includes water used for cement manufacturing, concrete batch plants, products made from cement or concrete, and lime processing for food, fertilizer, or water treatment. Water use for this category was 1.25 mgd.

Manufacturing & Chemical Processing: This group includes water for numerous industries including asphalt manufacturing, biofuel generation, chemical manufacturing, and other general product manufacturing. The quantities include both product content and manufacturing uses such as cooling, washing, and maintenance. Water use for this category was 6.6 mgd.

General/Specialty: The general/specialty group includes varied business enterprises not specific to other groups such as car washes, laundries, water well contracting, and temporary water supplies for construction projects. The group also includes generalized commercial uses including water for air conditioners, personal sanitary use, boiler feed and makeup water (non-power plant), cleaning, maintenance, emission control, refrigerators, product dilution, equipment cooling, environmental augmentation related to industrial/commercial use, and other uses. Most of these uses are relatively small, and cumulatively add up to 4.7 mgd

Figure 12 shows the percentage of industrial/commercial use for each county. Polk County accounted for 59 percent of the industrial/commercial water use in the District. The largest industrial/commercial use in Polk County is an off-site phosphate processing plant, but several other industrial/commercial users operate in the county including a large power

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plant, chemical factories, and multiple food packing and distribution facilities.

Figure 13 shows monthly water use for the industrial/commercial category by surface water and groundwater sources and comparative rainfall. Since groundwater is the primary source and irrigation account for a small fraction of the category, rainfall has a minimal influence on the monthly use. The standard deviation of the monthly use was 3.5 mgd, which is just 7 percent from the mean average.

Appendices

Appendix A, Table A-1 provides WUP-specific information from the metered permittees. It gives the water source, the total permitted quantity for each WUP, and how much of the permitted quantity is allocated for the industrial/commercial category. Table A-12 provides the average monthly withdrawals by county and water source, and is the source data for Figure 13

Appendix B provides groundwater and surface water use quantities in 2016 by groundwater and surface water, by county, and by the WUCAs. Table B-2 shows the industrial/commercial category was 7 percent of the water use in the SWUCA. Table B-4 shows the category was 12 percent of the water use in the NTB WUCA.

Appendix C provides the quantities permitted in 2016 by county, for groundwater and surface water, and by the WUCAs. The Districtwide total permitted allocation for industrial/commercial uses was 147.4 mgd, and just 35 percent of the allocation was used in 2016.

The permit allocation for the Mosaic Integrated WUP #11400 is 69.6 mgd, of which 25.0 mgd is allocated for industrial/commercial uses. In the Appendix C tables, this permit allocation is assigned solely to Polk County, the home county of the permittee. In 2016, the all the withdrawals for industrial/commercial uses for this permit occurred within Polk County, although they could potentially occur in other counties.

2016 ESTIMATED WATER USE REPORT

Table 6. Industrial/Commercial Withdrawals (mgd) by County & Use Type, 2016

County	I/C Landscape Irrigation	Power Generation	Food Processing & Packing	Beverage Processing ¹	Phosphate Processing	Cement & Lime Processing	Manufacturing & Chemical Processing	General/Specialty ²	Total	Total Ground -water	Total Surface Water
*Charlotte	0	0	0.001	0	0	0.023	0	0	0.024	0.024	0
Citrus	0	2.779	0	0.002	0	0	0.010	0.140	2.931	2.931	0
Desoto	0	0.076	0.196	0	0	0	0	0.396	0.668	0.668	0
Hardee	0	0.024	0.042	0	0	0	0.019	0.213	0.298	0.298	0
Hernando	0	4.011	0	0.006	0	0.794	0.016	0.004	4.831	4.831	0
*Highlands	0.002	0	0	0	0	0	0.026	0.060	0.088	0.088	0
Hillsborough	0.017	0	0.383	0.002	2.141	0.030	4.922	2.034	9.529	7.076	2.453
*Lake	0	0	0	0	0	0	0	0.000	0	0	0
*Levy	0	0	0	0	0	0	0	0.005	0.005	0.005	0
Manatee	0	0.392	0.010	0	0	0.068	0.011	0.251	0.732	0.340	0.392
*Marion	0	0	0.004	0	0	0	0	0.000	0.004	0.004	0
Pasco	0.024	0.300	0.008	0.647	0	0.001	0	0.311	1.291	0.644	0.647
Pinellas	0.003	0	0	0	0	0.003	0	0.160	0.166	0.165	0.001
*Polk	0.172	5.908	3.404	0.596	17.613	0.123	1.592	0.707	30.115	29.963	0.152
Sarasota	0.022	0	0	0	0	0.055	0.002	0.078	0.157	0.157	0
Sumter	0.001	0	0.055	0.029	0	0.153	0.046	0.345	0.629	0.629	0
-District-	0.241	13.49	4.103	1.282	19.754	1.250	6.644	4.704	51.468	47.823	3.645
% of Total	0%	26%	8%	2%	38%	2%	13%	9%	100%	93%	7%
Groundwater Use	0.237	13.098	4.103	0.635	19.733	1.237	4.194	4.586		47.823	
Surface Water Use	0.004	0.392	0	0.647	0.021	0.013	2.450	0.118			3.645

Data source: Estimated Water Use Tables derived from the WMIS database, 2016.

* Data is only for the portion of the county within the District.

¹ Beverage Processing includes product content and industrial needs such as washing, cooling, maintenance, etc. In prior EWU Reports, the category was combined with Food Processing.

² General/Specialty includes specialty commercial uses not specific to other groups such as car washes, laundries, water well contracting, and temporary supply for construction purposes. The group also includes general industry uses including water for air conditioners and chillers, personal sanitary use, boiler feed and makeup water (non-power plant), cleaning and maintenance, emission control, refrigeration, product dilution, equipment cooling, augmentation related to industrial/commercial, and other uses.

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Percent of Industrial/Commercial Use by County

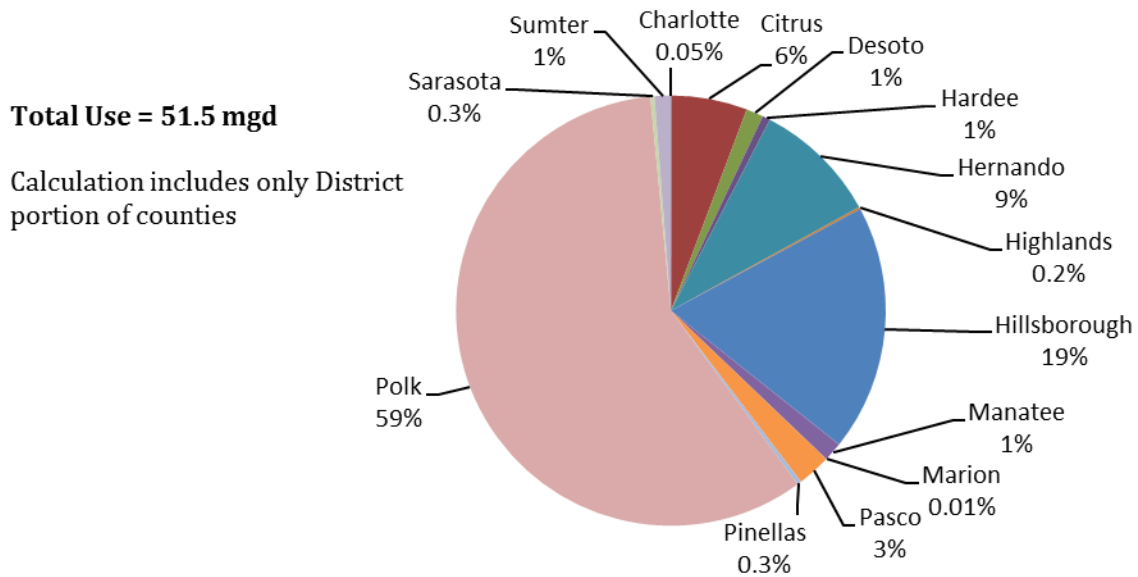


Figure 12. Percentage of Industrial/Commercial Water Use by County, 2016
(Data source: Table 6)

Industrial/Commercial Monthly Withdrawals and Rainfall

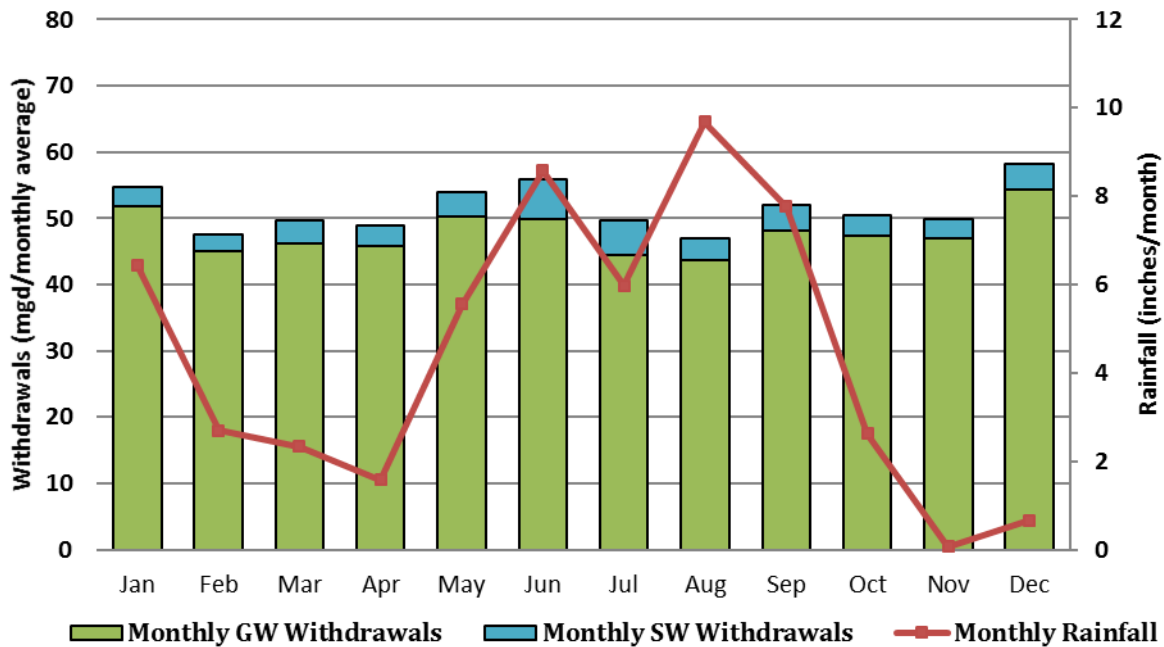


Figure 13. Industrial/Commercial Monthly Surface Water and Groundwater Withdrawals (mgd/month) and District Regional Rainfall (inches/month), 2016
(Data sources: Appendix A, Table A-12 and District rainfall data)

2016 ESTIMATED WATER USE REPORT

INSTITUTIONAL AND “OTHER” WITHDRAWAL/USE = 1.1 MGD

In May 2014 the institutional use and “other” use categories were formally adopted into Chapter 40D-2.501 Florida Administrative Code, which specifies the predominant water use categories for District permitting. The new categories were created as part of a statewide consumptive use permitting consistency (aka CUPcon) among the five water management districts.

By the end of December 2016, there were just six institutional WUPs and five “other” WUPs assigned within the District, but the number is expected to grow as WUPs fitting the categories are renewed and issued.

INSTITUTIONAL USE

The institutional use category includes specific uses that are currently listed in the other predominant use categories but permitted to self-supplied hospitals, penitentiaries, universities, or other institutional facilities. Specific use categories include personal/sanitary uses, lawn & landscape, air conditioners, sports playing fields, fire systems, etc. It may include water permitted for wells owned by municipalities but for uses without an associated population; such as fire hydrants, dust control, or street washing, cleaning and maintenance, etc.

The current institutional WUPs include personal sanitary use and air conditioning supply at Saint Leo University in Pasco County; hospitals in Sarasota and Hillsborough Counties; fire-fighting supply in Citrus County; and for landscape irrigation, sports playing fields, fire systems, and personal sanitary use at elementary schools in Highlands County and Hillsborough County. The total institutional use was 0.2 mgd.

“OTHER” USE

The “other” use category may include WUPs for environmental augmentation, water for

aquatic habitats, and other specific uses yet to be defined. Previously, environmental augmentation quantities have been categorized by the significant use of the permittee that was causing the environmental impacts.

In 2016, there were three WUPs in Pasco County categorized as “other” for environmental augmentation uses; two permits held by Tampa Bay Water and one by a ranch located close to the consolidated wellfields in Pasco County. There are two WUPs in Hillsborough county for environmental augmentation of the Hillsborough River, operated by the District to maintain minimum flow levels if needed.

Augmentation withdrawals are used in support of environmental management plans to maintain surface water levels when they fall below trigger levels. In 2016, The Hillsborough River was augmented in April, May, and early June by surface water pumped from the Harney Canal. The augmentation wells in Pasco were triggered at various times through the year. The total augmentation withdrawals from the “other” WUPs was 0.9 mgd, which was approximately 8 percent of the quantity permitted.

2016 DATA

Table 7 provides the water use under the institutional or “other” categories. It is anticipated that more WUPs will adopt these categories as they are renewed or awarded.

Figure 13 displays the monthly surface water and groundwater use in comparison to monthly rainfall. The surface water withdrawal for augmentation in May is pronounced in the figure, but it should be recognized that the mgd scale is much less than for similar figures in this report.

In Appendix A, Table A-13 provides the specific uses and quantities for each WUP. Table A-14 provides the monthly use quantities by county.

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Table 7. Institutional and "Other" Withdrawals (mgd) by County & Use Type, 2016

County	Institutional, Fire Systems	Institutional, Landscape	Institutional, Personal/ Sanitary	"Other" Category, Augmentation	Total	Groundwater	Surface Water
*Charlotte	0	0	0	0	0	0	0
Citrus	0.001	0	0	0	0.001	0.001	0
Desoto	0	0	0	0	0	0	0
Hardee	0	0	0	0	0	0	0
Hernando	0	0	0	0	0	0	0
*Highlands	0	0.003	0	0	0.003	0.003	0
Hillsborough	0	0	0	0.503	0.503	0	0.503
*Lake	0	0	0	0	0	0	0
*Levy	0	0	0	0	0	0	0
Manatee	0	0	0	0	0	0	0
*Marion	0	0	0	0	0	0	0
Pasco	0	0	0.184	0.388	0.572	0.572	0
Pinellas	0	0	0	0	0	0	0
*Polk	0	0	0	0	0	0	0
Sarasota	0	0	0	0	0	0	0
Sumter	0	0	0	0	0	0	0
-District-	0.001	0.003	0.184	0.891	1.079	0.576	0.503
% of Total	0%	0%	17%	83%	100%	53%	47%
Groundwater Use	0.001	0.003	0.184	0.388	0.576	0.576	
Surface Water Use	0	0	0	0.503	0.503		0.503

Data source: Estimated Water Use Tables derived from the WMIS database, 2016.

* Data is only for the portion of the county within the District.

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Percent of Institutional/Other Use by County

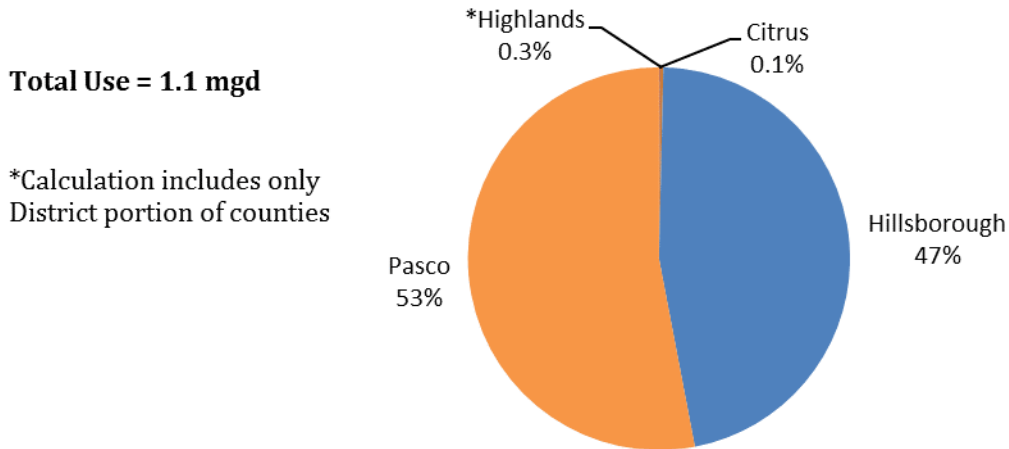


Figure 14. Percentage of Institutional and “Other” Water Use by County, 2016
(Data source: Table 6)

Institutional & "Other" Monthly Withdrawals and Rainfall

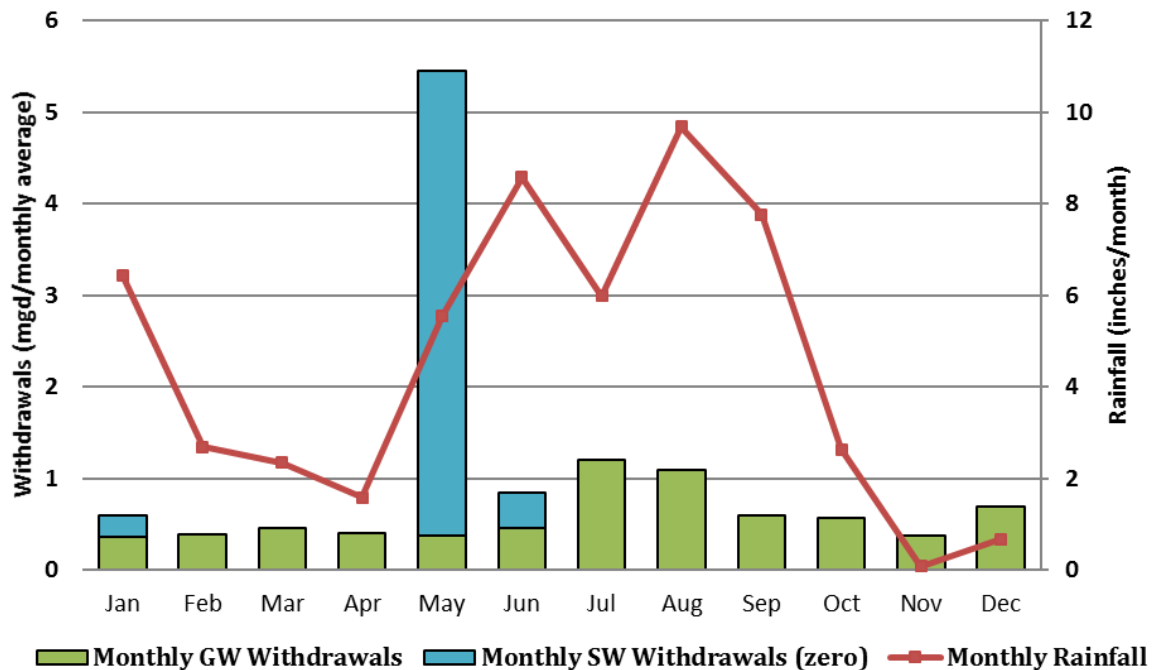


Figure 15. Institutional and “Other” Monthly Surface Water and Groundwater Withdrawals (mgd/month) and District Regional Rainfall (inches/month), 2016

(Data sources: Appendix A, Table A-14 and District rainfall data)

2016 ESTIMATED WATER USE REPORT

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DISRICTWIDE TOTALS

WITHDRAWALS = 1,027.9 MGD

USE = 1,005.9 MGD

The total amount of water *withdrawn* from water resources in the District was calculated as 1,027.9 mgd (Table 9) based on metered withdrawals and estimates for wells of similar sizes and uses. After public supply imports, exports, treatment losses, and net changes of storage are accounted for; the total water *used* in the District was 1,005.9 mgd (Table 9).

Withdrawals from only permitted/regulated sources under the District's authority were 991.1 mgd (Table 10), based on the exclusion of the domestic self-supply estimate (34.8 mgd) and seawater desalination for public supply (2.0 mgd).

As of December 31, 2016, the total quantity *permitted* for resource withdrawals by the District on an annual average basis was 1,869.4 mgd. This quantity was allocated to 7,246 unique WUPs with a combined 17,097 active resource withdrawals.

The Districtwide total water *withdrawals* in 2016 increased from the 2015 total of 1,015.7 mgd. Decreases occurred in the mining/dewatering and industrial/commercial categories, and the other categories had slight increases. The 2016 total withdrawal was below a ten-year average of 1,118.1 mgd

2016 DATA

The majority of water use data is based on the monthly or daily metered withdrawals reported by permittees and stored in the District's WMIS database. A series of SAS programs created by District staff were used to recompile the data by permit type, use category, and the water source type. Estimates of use by non-metered WUPs are based on statistical analysis of data for metered WUPs, and every regulated, non-metered withdrawal point receives proxy monthly withdrawal values for modeling purposes.

Only 28 percent of the active WUPs have meter reporting requirements. However, many of the metered WUPs are for water quantities

that are orders-of-magnitude larger than the unmetered WUPs. The metered WUPs comprise 88 percent of the total allocation *permitted* by the District, along with 86 percent of the total water *withdrawn* by permittees. Tables 8a and 8b show the historical metered quantities, the number of metered WUPS, and a comparison of quantities permitted to metered and unmetered WUPs.

Table 9 provides the totals of water *withdrawn* and water *used* in the District in 2016 by use type and county, as summarized from the prior chapters. The quantities *withdrawn* and *used* are assumed the same for all use categories except public supply. The public supply *use* accounts for imports, exports, treatment losses, and net storage changes in ASR or off-stream reservoirs; and can vary greatly by county from *withdrawn* quantities. Figure 16 provides a pie-chart comparison of quantities *withdrawn* and *used* by county.

Tables 10, 11, and 12 provide a comparison of *permitted* quantities to *withdrawn* quantities under the authority of District WUPs. Domestic self-supply and seawater desalination is not included in these tables because they are non-permitted water resources. The totals on Table 10 show that overall, 53 percent of the water quantities *permitted* by the District were *withdrawn*. A substantial unused amount is expected because the District WUP quantities allow for drought demands and the future potential needs during the term of the permit. Tables 11 and 12 provide a similar comparison for metered only (Table 11) and estimated only (Table 12) WUP *permitted* and *withdrawn* quantities. As noted in prior chapters, some WUPs with multi-county withdrawals have their permitted allocation assigned solely to their home county, but *withdrawal* data is shown in the counties where they occurred.

Figure 17 compares the amount of groundwater and surface water withdrawn in each county in 2016. The figure illustrates that Hillsborough County had the greatest amount of water withdrawals (268.1 mgd), but over half of the withdrawals were from surface water sources (137.7 mgd). Polk County had

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the greatest amount of groundwater *withdrawn* (183.1 mgd). Appendix B, Table B-1 contains the data presented in this graph.

Figure 18 provides total monthly groundwater and surface water *withdrawals* to monthly rainfall. Generally, the monthly groundwater *withdrawals* are inversely proportionate to the amount of monthly rainfall, which is expected because most of the primary use types include some degree of irrigation demands. In 2016 there was 54.0 inches of Districtwide rainfall, which was 1.2 inches above the historic mean average.

Figure 19 illustrates the Districtwide groundwater and surface water withdrawals by predominant use category. The figure shows that public supply is the largest use category, but agriculture withdrew a comparable amount of groundwater.

APPENDICES

Appendix A, Tables A-1, A-2, and A-3 provide WUP-specific public supply water use data including the withdrawals and use, water transfers among utilities, per capita data, and specific uses within the public supply category. The tables summarize the data reported by utilities and water supply authorities in the PSARs, along with metered and estimated data for the remaining WUPs that aren't required to submit a PSAR. There are some utility-specific differences between the PSAR-reported use and the total public supply estimate that are footnoted.

Appendix A, Tables A-5, A-7, A-9, A-11, and A-13 provide detailed listings of quantities permitted and withdrawn for each metered WUP in the landscape/recreation, agriculture, mining/dewatering, industrial/commercial, institutional, and "other" use categories respectively. WUPs issued for more than one predominant use type will appear in more than one table.

Appendix A, Tables A-4, A-6, A-8, A-10, and A-12 show the monthly average withdrawals by

county for the various water use categories. The quantities are based on monthly or daily metered data recorded in WMIS. Estimated shares are included in the totals and are based on monthly usage trends.

Appendix B tables show the total annual average quantities *withdrawn* specifically by groundwater and surface water sources for each county, regulated water use category, and within each WUCA. Seawater and domestic self-supply estimates are excluded from these tables because the sources are not regulated by the District. Table B-1 is the source data for Figure 15 and Figure 17

Appendix C identifies the total *permitted* annual average quantities from surface water and groundwater by county for the District and the WUCAs. Appendix C also contains freeze protection quantities *permitted* for agricultural use in the DPC WUCA (Tables C-6 and C-7).

Appendix D gives a ten-year history of the per capita use for public supply WUPs *permitted* for 100,000 gpd or more on an annual average basis. Table D-1 provides gross per capita values and Table D-2 provides compliance per capita.

Appendix E shows the calculations for the DEP uniform per capita rates (gross and residential). The DEP has specified a consistent methodology to compare water efficiency from the five water management districts for state-wide analysis.

Appendix F gives technical details on the methodology used to make the EWU report, along with some history of changes to the reports. Some refinements may occur each year. Quality controls, data point error corrections, and reasonability assumptions are also discussed. It is recommended to consider the methodology used for this report before comparing its information to data from prior EWU reports or other sources.

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Table 8a. Summary of 10 Years Metered Water Use Data, 2007 - 2016

Pumpage from <u>Metered</u> Withdrawal Points, 2007 to 2016, mgd/year											
Use type	Year	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Public Supply		471.9	495.2	518.1	454.4	514.4	502.1	494.9	525.2	520.0	532.4
Landscape/Recreation		32.7	30.2	32.5	48.0	49.7	54.7	42.7	42.7	39.2	48.1
Agricultural		273.6	240.3	291.2	303.7	271.6	299.2	263.8	227.3	220.6	228.0
Mining/Dewatering		45.3	37.1	30.8	26.9	20.7	23.1	25.6	17.7	26.3	21.8
Industrial/Commercial		57.3	57.5	58.8	50.5	52.5	62.6	60.2	54.1	54.8	49.5
Institutional/Other Uses		NA	NA	NA	NA	NA	NA	NA	0.6	0.2	1.1
District Total		880.7	860.3	931.5	883.4	908.9	941.6	887.3	867.7	861.1	880.8
Number of <u>Metered</u> Water Use Permits, 2007 to 2016											
Use type	Year	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Public Supply		239	264	228	220	205	200	195	191	186	181
Landscape/Recreation		235	217	217	305	299	305	299	312	310	330
Agricultural		1,243	1,240	1,244	1,180	1,182	1,200	1,210	1,367	1,461	1,500
Mining/Dewatering		32	29	26	19	17	14	11	14	16	16
Industrial/Commercial		80	83	83	77	80	87	85	88	91	89
Institutional/Other Uses		NA	NA	NA	NA	NA	NA	NA	2	4	6
District Total ¹		1,829	1,833	1,798	1,801	1,783	1,806	1,800	1,974	2,068	2,122

¹The total number of permits in this table reflects 106 duplicate counts for permits that have more than one predominant use. In 2016, there were 2,016 unique metered permits.

Table 8b. Annual Average Permitted Quantities, Metered and Unmetered WUPs, 2016

Use Type	Total Quantities Permitted (mgd)	Total Number of WUPs ¹	Total Quantities Permitted to Metered WUPs (mgd)	Total Number of Metered WUPs	Total Quantities Permitted to Non-Metered WUPs (mgd)	Total Number of Non-Metered WUPs
Public Supply	779.7	393	771.0	181	8.7	212
Landscape/Recreation	119.0	1036	93.9	330	25.1	706
Agricultural	753.5	5657	572.8	1500	180.7	4157
Mining/Dewatering	58.0	85	53.7	16	4.3	69
Industrial/Commercial	147.4	303	139.8	89	7.5	214
Institutional/Other Uses	11.9	11	9.8	6	2.1	5
District Total	1,869.4	7,485	1,641.0	2,122	228.4	5,363

Data Source: District Water Use Permit Database, Calendar Year 2016.

¹ The number of permits in this table reflects duplicate counts of permits that have more than one use. The distinct count of WUPs evaluated for this report was 7,246 total; 2,016 metered; and 5,230 estimated.

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Table 9. Total Metered + Estimated Water Withdrawal and Use (mgd) Quantities by Predominant Use Category, 2016

County	Public Supply Withdrawal	Domestic Self-Supply Withdrawal & Use	Landscape/ Recreation Withdrawal & Use	Agriculture Withdrawal & Use	Mining/ Dewatering Withdrawal & Use	Industrial/ Commercial Withdrawal & Use	Institutional & "Other" Withdrawal & Use	Total Withdrawal Quantity ¹	Public Supply Use Quantity ²	Total Use Quantity ³
*Charlotte	7.420	0.383	1.758	5.572	0.077	0.024	0	15.234	16.702	24.516
Citrus	14.988	4.522	3.999	1.607	0.052	2.931	0.001	28.100	14.782	27.894
DeSoto	32.657	1.018	0.225	48.777	0.002	0.668	0	83.347	1.506	52.196
Hardee ⁴	1.425	0.513	0.109	33.595	1.991	0.298	0	37.931	1.407	37.913
Hernando	19.434	3.288	3.873	1.568	0.026	4.831	0	33.020	19.311	32.897
Highlands	7.634	0.678	2.16	38.445	0.007	0.088	0.003	49.015	7.547	48.928
Hillsborough ^{4,5,6}	192.736	7.123	8.662	42.097	7.401	9.529	0.503	268.051	139.691	215.006
*Lake	0	0.074	0	0.984	0	0	0	1.058	0	1.058
*Levy	0.694	0.898	0.198	6.58	0	0.005	0	8.375	0.660	8.341
Manatee ⁴	45.328	0.669	9.874	51.283	4.172	0.732	0	112.058	40.257	106.987
*Marion	10.475	4.365	3.418	2.812	0.019	0.004	0	21.093	10.238	20.856
Pasco ⁵	62.593	4.606	3.366	6.276	0.06	1.291	0.572	78.764	44.648	60.819
Pinellas ⁵	27.192	0.259	2.948	0.015	0	0.166	0	30.580	91.077	94.465
*Polk ⁴	66.603	1.883	6.781	73.938	8.493	30.115	0	187.813	67.337	188.547
Sarasota	20.452	1.583	6.645	3.883	0.166	0.157	0	32.886	32.643	44.077
Sumter	27.328	2.964	3.194	6.236	0.258	0.629	0	40.609	27.070	40.351
Totals-	536.959	34.826	57.210	323.668	22.724	51.468	1.079	1,027.934	514.876	1,005.851
% of Withdrawal	52%	3%	6%	31%	2%	5%	0%	100%		
% of Use		3%	6%	32%	2%	5%	0%		51%	100.0%

* Data is for only the portion of the county located within the District boundaries.

Calculations from raw data may create nominal rounding errors of less than 0.1 percent in totals.

¹ Total Withdrawal - Represents the sum of the preceding seven columns and represents total water withdrawal by county for all categories.

² Public Supply Use - Represents total consumptive use of public supply water within a county. The difference from public supply withdrawals is the accounting of imports or exports of publicly supplied water from one county to another, treatment losses, and net change of storage in off-stream reservoirs or ASR systems.

³ Total Use = The sum of "Total (Withdrawal)" minus "Public Supply (Withdrawal)" plus "Public Supply (Use)."

⁴ Mosaic Consolidated Permit (#11400) withdrawals are shown in the county in which they occurred (Hardee, Hillsborough, Manatee, and Polk counties).

⁵ Tampa Bay Water Consolidated Permit (#11771) withdrawals are shown in the county in which they occurred (Hillsborough, Pasco, and Pinellas counties).

⁶ Hillsborough County Public Supply Withdrawal Quantity includes 2.020 mgd of Tampa Bay Water's seawater desalination effluent.

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Table 10. 2016 Total (metered + estimated) Permitted and Withdrawn Annual Average Quantities (mgd) for Regulated Water Resources

County	Agriculture	Industrial/ Commercial	Mining/ Dewatering	Public Supply	Landscape/ Recreation	Other/ Institutional	Total
Permitted Quantities							
*Charlotte	27.376	0.082	0.590	13.565	4.680	0	46.293
Citrus	3.192	6.072	0.168	19.421	5.352	0.001	34.206
Desoto	108.561	1.371	0.229	35.977	1.221	0	147.359
Hardee	74.047	4.697	6.390	2.423	0.247	0	87.804
Hernando	3.330	8.222	0.383	25.965	6.364	0	44.264
*Highlands	58.732	0.384	0.055	11.808	3.014	0.013	74.006
Hillsborough	103.975	26.254	1.060	344.757	21.856	9.190	507.092
*Lake	1.788	0	0	0	0	0	1.788
*Levy	21.720	1.628	0.123	1.071	0.367	0	24.909
Manatee	158.308	9.467	0.286	63.797	22.530	0	254.388
*Marion	13.839	0.010	0.119	13.127	5.062	0	32.157
Pasco	17.269	6.575	0.244	21.690	8.667	2.697	57.142
Pinellas	0.199	0.483	0	29.215	6.614	0	36.511
*Polk	121.674	78.962	47.026	117.087	13.788	0	378.537
Sarasota	22.119	0.319	0.383	52.568	14.877	0.001	90.267
Sumter	17.330	2.832	0.894	27.263	4.324	0	52.643
-District-	753.459	147.358	57.95	779.734	118.963	11.902	1,869.366
Withdrawn Quantities (from permitted sources)							
*Charlotte	5.572	0.024	0.077	7.420	1.758	0	14.851
Citrus	1.607	2.931	0.052	14.988	3.999	0.001	23.578
Desoto	48.777	0.668	0.002	32.657	0.225	0	82.329
Hardee	33.595	0.298	1.991	1.425	0.109	0	37.418
Hernando	1.568	4.831	0.026	19.434	3.873	0	29.732
*Highlands	38.445	0.088	0.007	7.634	2.160	0.003	48.337
Hillsborough	42.097	9.529	7.401	190.726	8.662	0.503	258.918
*Lake	0.984	0	0	0	0	0	0.984
*Levy	6.580	0.005	0	0.694	0.198	0	7.477
Manatee	51.283	0.732	4.172	45.328	9.874	0	111.389
*Marion	2.812	0.004	0.019	10.475	3.418	0	16.728
Pasco	6.276	1.291	0.060	62.593	3.366	0.572	74.158
Pinellas	0.015	0.166	0	27.192	2.948	0	30.321
*Polk	73.938	30.115	8.493	66.603	6.781	0	185.930
Sarasota	3.883	0.157	0.166	20.452	6.645	0	31.303
Sumter	6.236	0.629	0.258	27.328	3.194	0	37.645
-District-	323.668	51.468	22.724	534.949	57.210	1.079	991.098

* Data is for only the portion of the county located within the District boundaries.

Rounding errors of less than 0.1 percent may exist from tables in prior sections.

Tampa Bay Water Consolidated WUP (#11771) permitted allocation (90 mgd) is assigned to Hillsborough County, but withdrawals are counted in the county where they occurred (Hillsborough, Pasco, and Pinellas counties). Domestic self-supply and seawater desalination withdrawals are excluded, being unregulated sources, therefore totals differ from Table 9.

Mosaic WUP (#11400) allocations for Mining (44.6 mgd) and Industrial/Commercial (25.0 mgd) are assigned to Polk County, but withdrawals are counted in the county in which they occurred (Hardee, Hillsborough, Manatee, and/or Polk counties).

Data source: Estimated Water Use Tables derived from the WMIS database and 2016 PSARs.

Non-permitted sources excluded in Table 10 include Seawater Desalination (2.010 mgd) and Domestic Self-Supply (34.826).

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Table 11. 2016 Permitted and Withdrawn Annual Average Quantities (mgd), Metered WUPs Only, for Regulated Water Resources

County	Agriculture	Industrial/ Commercial	Mining/ Dewatering	Public Supply	Landscape/ Recreation	Other/ Institutional	Total
Permitted Quantities, Metered WUPs Only							
*Charlotte	25.545	0.023	0.084	13.510	3.269	0	42.431
Citrus	0.497	6.008	0	18.829	4.534	0	29.868
Desoto	97.037	1.222	0	35.949	0.259	0	134.467
Hardee	49.838	4.547	6.390	2.356	0.009	0	63.140
Hernando	0	8.126	0	25.747	4.952	0	38.825
*Highlands	45.854	0.036	0	11.459	2.343	0	59.692
Hillsborough	84.848	25.020	0.189	343.618	16.628	7.117	477.420
*Lake	0.603	0	0	0	0	0	0.603
*Levy	12.709	0	0	1.065	0	0	13.774
Manatee	146.501	9.138	0.062	63.791	19.059	0	238.551
*Marion	7.361	0	0	12.682	4.447	0	24.490
Pasco	9.499	6.268	0.004	19.986	7.319	2.697	45.773
Pinellas	0.194	0.379	0	29.132	5.326	0	35.031
*Polk	66.094	77.102	46.738	113.409	10.228	0	313.571
Sarasota	19.722	0.165	0	52.543	11.378	0	83.808
Sumter	6.465	1.802	0.200	26.921	4.174	0	39.562
-District-	572.767	139.836	53.667	770.997	93.925	9.814	1,641.006
Withdrawn Quantities, Metered WUPs Only							
*Charlotte	5.024	0	0	7.401	1.354	0	13.779
Citrus	0.337	2.908	0	14.522	3.607	0	21.374
Desoto	42.450	0.591	0	32.645	0.074	0	75.760
Hardee	19.095	0.234	1.991	1.369	0	0	22.689
Hernando	0	4.792	0	19.273	3.612	0	27.677
*Highlands	30.693	0	0	7.453	1.808	0	39.954
Hillsborough	32.930	9.205	7.229	189.919	7.411	0.503	247.197
*Lake	0.429	0	0	0	0	0	0.429
*Levy	3.072	0	0	0.690	0	0	3.762
Manatee	47.437	0.633	4.104	45.323	8.450	0	105.947
*Marion	0.230	0	0	10.191	3.097	0	13.518
Pasco	1.695	1.229	0.003	61.555	2.693	0.572	67.747
Pinellas	0.013	0.124	0	27.133	2.362	0	29.632
*Polk	39.602	29.318	8.431	65.266	5.310	0	147.927
Sarasota	2.997	0.078	0	20.441	5.238	0	28.754
Sumter	1.944	0.397	0.015	27.163	3.113	0	32.632
-District-	227.946	49.509	21.773	530.344	48.129	1.075	878.778

* Data is for only the portion of the county located within the District boundaries.

Rounding errors of less than 0.1 percent may exist from tables in prior sections.

Tampa Bay Water Consolidated WUP (#11771) Public Supply Permitted allocation (90 mgd) is assigned to Hillsborough County, but withdrawals are counted in the county where they occurred (Hillsborough, Pasco, and Pinellas counties).

Mosaic Integrated WUP (#11400) Mining allocation (44.6 mgd) and Industrial/Commercial allocation (25.0 mgd) are assigned to Polk County, but withdrawals are counted in the county in which they occurred (Hardee, Hillsborough, Manatee, and/or Polk counties).

Data source: Estimated Water Use Tables derived from the WMIS database and 2016 PSARs.

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**Table 12. 2016 Permitted and Estimated Withdrawn Annual Average Quantities (mgd),
Non-Metered (Estimated) WUPs only, for Regulated Water Resources**

County	Agriculture	Industrial/ Commercial	Mining/ Dewatering	Public Supply	Landscape/ Recreation	Other/ Institutional	Total
Permitted Quantities, Non-Metered WUPs							
*Charlotte	1.831	0.059	0.506	0.055	1.411	0	3.862
Citrus	2.695	0.064	0.168	0.592	0.818	0.001	4.338
Desoto	11.524	0.149	0.229	0.028	0.962	0	12.892
Hardee	24.209	0.150	0	0.067	0.238	0	24.664
Hernando	3.330	0.096	0.383	0.218	1.412	0	5.439
*Highlands	12.878	0.348	0.055	0.349	0.671	0.013	14.314
Hillsborough	19.127	1.234	0.871	1.139	5.228	2.073	29.672
*Lake	1.185	0	0	0	0	0	1.185
*Levy	9.011	1.628	0.123	0.006	0.367	0	11.135
Manatee	11.807	0.329	0.224	0.006	3.471	0	15.837
*Marion	6.478	0.010	0.119	0.445	0.615	0	7.667
Pasco	7.770	0.307	0.240	1.704	1.348	0	11.369
Pinellas	0.005	0.104	0	0.083	1.288	0	1.480
*Polk	55.580	1.860	0.288	3.678	3.560	0	64.966
Sarasota	2.397	0.154	0.383	0.025	3.499	0.001	6.459
Sumter	10.865	1.030	0.694	0.342	0.150	0	13.081
-District-	180.692	7.522	4.283	8.737	25.038	2.088	228.360
Withdrawn Quantities, Non-Metered WUPs							
*Charlotte	0.548	0.024	0.077	0.019	0.404	0	1.072
Citrus	1.270	0.023	0.051	0.466	0.392	0.001	2.203
Desoto	6.327	0.077	0.002	0.012	0.151	0	6.569
Hardee	14.500	0.064	0	0.056	0.109	0	14.729
Hernando	1.568	0.039	0.026	0.161	0.261	0	2.055
*Highlands	7.752	0.087	0.008	0.181	0.352	0.003	8.383
Hillsborough	9.167	0.324	0.172	0.807	1.251	0	11.721
*Lake	0.555	0	0	0	0	0	0.555
*Levy	3.508	0.005	0	0.004	0.198	0	3.715
Manatee	3.846	0.099	0.068	0.005	1.424	0	5.442
*Marion	2.582	0.004	0.019	0.284	0.321	0	3.210
Pasco	4.581	0.062	0.057	1.038	0.673	0	6.411
Pinellas	0.002	0.042	0	0.059	0.586	0	0.689
*Polk	34.336	0.797	0.062	1.337	1.471	0	38.003
Sarasota	0.886	0.079	0.166	0.011	1.407	0	2.549
Sumter	4.292	0.232	0.243	0.165	0.081	0	5.013
-District-	95.720	1.958	0.951	4.605	9.081	0.004	112.319

* Data is for only the portion of the county located within the District boundaries.

Rounding errors of less than 0.1 percent may exist from tables in prior sections.

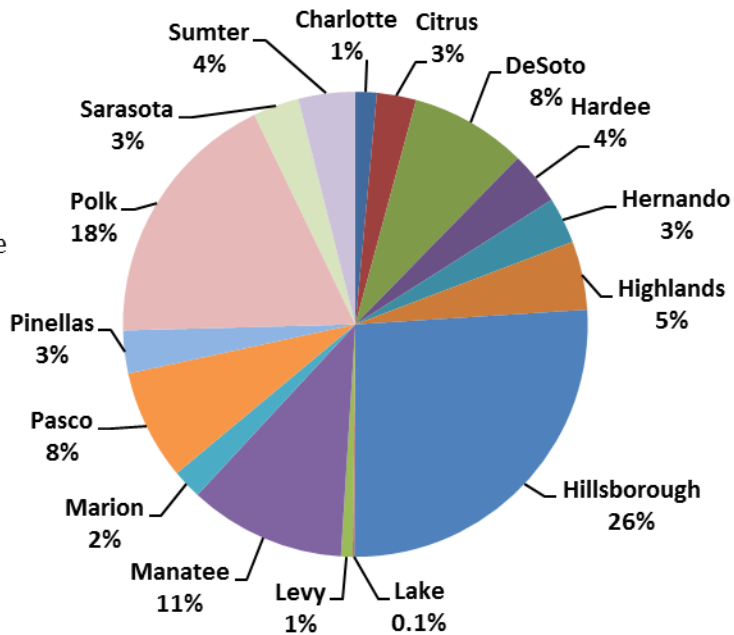
Data source: Estimated Water Use Tables derived from the WMIS database.

2016 ESTIMATED WATER USE REPORT

Percentage Total Water Withdrawn by County

Total Withdrawals = 1,028 mgd

Data only for the portion of the counties within the District.



Percentage Total Water Used by County

Total Use = 1,006 mgd

Data only for the portion of the county within the District.

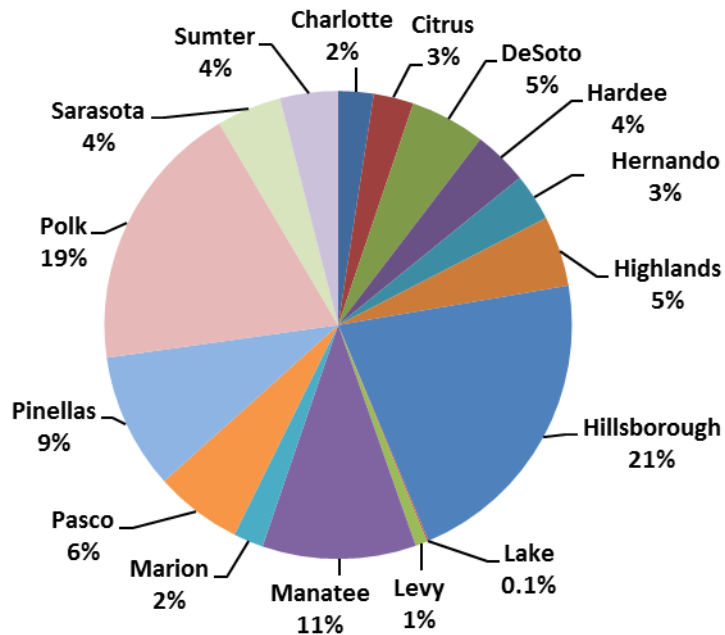


Figure 16. Percentages of Total Withdrawals and Total Use by County, 2016

(Data Source: Table 9)

2016 ESTIMATED WATER USE REPORT

Total Groundwater and Surface Water Withdrawals by County in 2016

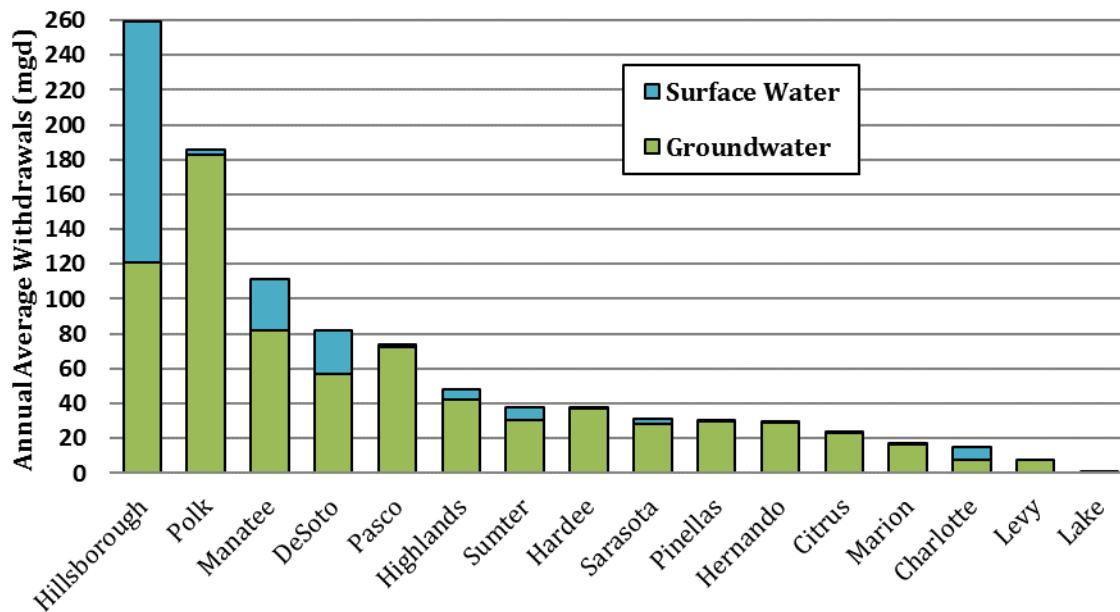


Figure 17. Total Groundwater and Surface Water Withdrawals by County, 2016

(Data Source: Appendix B, Table B-1. The domestic self-supply category is excluded.)

Total Groundwater and Surface Water Withdrawals and Rainfall by Month

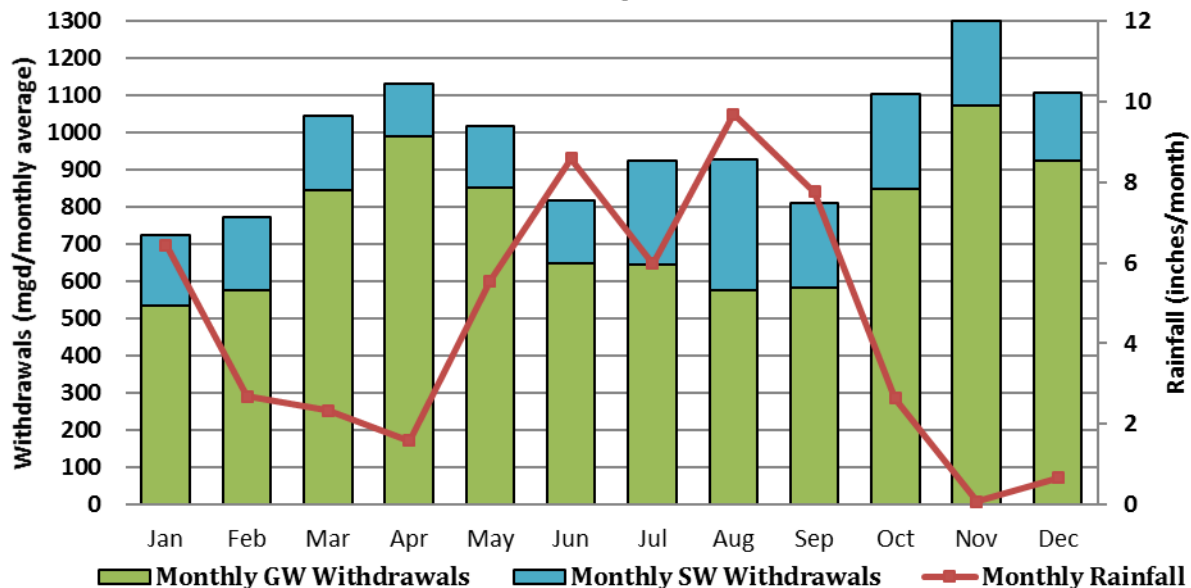


Figure 18. Total Groundwater and Surface Water Withdrawals by Month and Total Monthly Rainfall, 2016

(Data sources: Sum of quantities provided in Appendix A, Tables A-4, A-6, A-8, A-10, and A-12; and District rainfall data. The domestic self-supply category is excluded.)

2016 ESTIMATED WATER USE REPORT

Districtwide Groundwater and Surface Water Withdrawals by Predominant Use Category

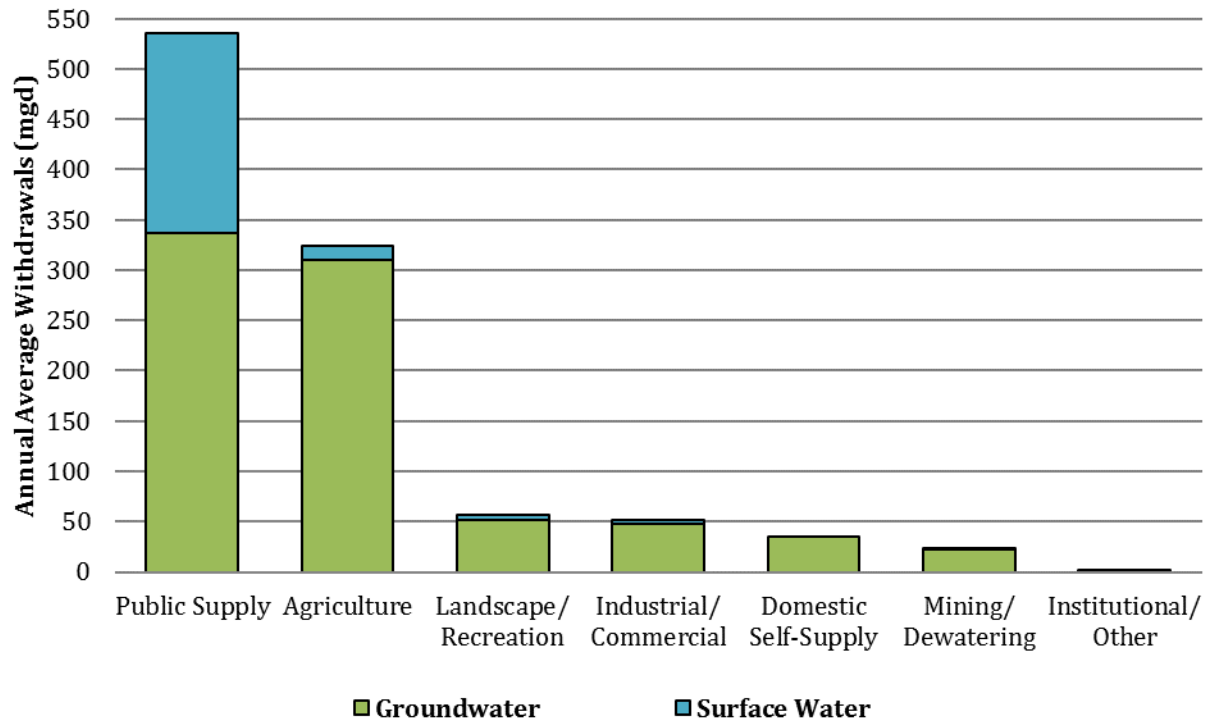


Figure 19. Total Groundwater and Surface Water Withdrawals by Predominant Use Category, 2016

(Data source: Table 9, Table B-1)

APPENDIX A

SUMMARIES OF METERED WITHDRAWALS

PER USE CATEGORY

BY WATER USE PERMIT

2016 ESTIMATED WATER USE REPORT

IMPORTANT INFORMATION REGARDING TABLE A-1

Table A-1, Part 1, presents a detailed list of the larger public supply water use permits (WUPs) throughout the District as reported by the permittees in their Public Supply Annual Reports (PSARs). A permittee having a public supply WUP issued for 100,000 gpd or greater is required under Chapter 40D-2 Water Use Permits, F.A.C., to submit a completed PSAR by April 1st of each year. The PSAR water use information that is used for Table A-1, Part 1, includes:

- Total withdrawals and use
- Imports from any source
- Exports to any receiver
- Imports from and exports to other public supply permittees
- Treatment plant losses
- Significant uses
- Environmental mitigation
- Golf course irrigation use
- Service population estimates
- Alternative water sources supplied to customers
- Desalination information, if any
- Quantifiable water losses such as those for fire suppression
- Estimate of the non-quantifiable losses that may have occurred in distribution to customers
- Percentage breakout of water supplied by customer-type

If a PSAR was not received from a utility, the data may be estimated using the WMIS database and the BEBR-based population estimates.

Both the PSAR annual average withdrawal information and the monthly/daily reported metered pumpage records in WMIS were analyzed for this report. The PSAR withdrawals were used for calculation in most cases. Where discrepancies existed, the file of record was extensively reviewed to support the withdrawal quantity used. The WMIS records are subject to updates post publication, and all updates to pumpage records in the WMIS database require the permittee's written approval.

Per Capita rates:

The water use per capita is a widely used ratio measurement of water use/population. Three types of per capita are provided on Table A-1: "unadjusted gross," "adjusted gross," and "compliance" per capita. A "residential" per capita use is also calculated and shown on Table A-2. Each of the per capita measures are described on pages 19-20 of the EWU Report. Additional information can be found in of the WUP Applicant's Handbook, Part B:

http://www.swfwmd.state.fl.us/files/database/site_file_sets/14/Applicants_Handbook_Part_B.pdf

The EWU report does not result in compliance or enforcement activity from the District's Regulation Bureau. Such activity is conducted independently. Some differences may occur from PSAR forms submitted by permittees and the published data due to the author's intent to provide accuracy and consistency for water use estimates in all predominant use categories.

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TABLE A-1, Part 1. 2016 Public Supply Annual Report (PSAR) Water Use Data

Water Use Permit	Permittee Name	(1) Permit Quantity AA (mgd)	(2) 2016 With-drawal PSAR	(3) PSAR Rec. Y/N	(4) Water Source	(5) Imports (mgd)	(6) Exports (mgd)	(7) Treat-ment Loss (mgd)	(8) Gross Water Use (mgd)	(9) Function al Populati on Served	(10) Gross Per Capita (gpcd)	(11) Sig. Use Deduct. (mgd)	(12) Golf Course Deduct. (mgd)	(13) Environ. Miti-gation Deduct. (mgd)	(14) Adjusted Gross Per Capita (mgd)	(15) Storm Water Deduct. (mgd)	(16) Reclaim Water Deduct. (mgd)	(17) Comp-liance Per Capita (gpcd)
Charlotte County																		
718	Gasparilla Island	1.538	1.299	Y	GW/RO	0.105	0.000	0.296	1.108	6,096	182	0.000	0.000	0.000	182	0.000	0.123	162
871	City of Punta Gorda	8.088	5.081	Y	SW	0.364	0.332	0.467	4.646	36,302	128	0.000	0.000	0.000	128	0.000	0.000	128
1512	Charlotte Harbor Water	0.712	0.494	Y	GW/RO	0.000	0.000	0.113	0.381	3,595	106	0.000	0.000	0.000	106	0.000	0.000	106
3522	Charlotte Co BOCC	3.172	0.527	Y	GW/RO	0.000	0.000	0.126	0.401	6,794	59	0.000	0.000	0.000	59	0.000	0.000	59
7104	Charlotte Co BOCC	Wholesale	0.000	Y	GW/SW	10.538	0.289	0.102	10.147	128,961	79	0.000	0.000	0.000	79	0.000	0.000	79
Charlotte County Totals			7.401			11.007	0.621	1.104	16.683	181,748	92	0.000	0.000	0.000	92	0.000	0.123	91
Citrus County																		
207	City of Crystal River	0.919	0.841	Y	GW	0.002	0.000	0.008	0.835	5,643	148	0.000	0.000	0.000	148	0.000	0.000	148
419	City of Inverness	1.535	1.029	Y	GW	0.000	0.000	0.038	0.991	9,520	104	0.000	0.000	0.000	104	0.000	0.000	104
1118	Floral City Water Assoc	0.545	0.342	Y	GW	0.000	0.000	0.009	0.333	5,077	66	0.000	0.000	0.000	66	0.000	0.000	66
2842	Citrus County	4.780	2.505	Y	GW	0.000	0.000	0.025	2.480	17,516	142	0.000	0.000	0.000	142	0.000	0.000	142
4153	Rolling Oaks Utilities Inc	2.500	1.538	Y	GW	0.000	0.000	0.029	1.509	11,301	134	0.000	0.000	0.000	134	0.000	0.000	134
4406	Homosassa Water Dist	0.960	0.746	Y	GW	0.000	0.000	0.007	0.739	5,691	130	0.000	0.000	0.000	130	0.000	0.000	130
6691	Gulf Highway Land Corp	0.223	0.063	Y	GW	0.000	0.000	0.000	0.063	562	112	0.000	0.000	0.000	112	0.000	0.000	112
7121	Citrus County & WRWSA	4.597	4.725	Y	GW	0.000	0.408	0.047	4.270	25,380	168	0.000	0.000	0.000	168	0.000	0.165	162
9791	Citrus County	2.362	2.399	Y	GW	0.000	0.000	0.024	2.375	11,217	212	0.000	0.000	0.000	212	0.000	0.000	212
11839	GCP Walden Woods	0.218	0.147	Y	GW	0.000	0.000	0.0000	0.147	1,021	144	0.000	0.000	0.000	144	0.000	0.000	144
20230	Ozello Water Assoc	Wholesale	0.000	Y	GW	0.389	0.000	0.002	0.387	4,886	79	0.000	0.000	0.000	79	0.000	0.000	79
Citrus County Totals			14.335			0.391	0.408	0.189	14.129	97,814	144	0.000	0.000	0.000	144	0.000	0.165	143
Desoto County																		
4725	City of Arcadia	1.093	0.854	Y	GW	0.000	0.000	0.011	0.843	10,039	84	0.000	0.000	0.000	84	0.000	0.000	84
10420	PRMRWSA ¹⁸	34.855	31.790	Y	SW/GW	0.428	30.687	1.531	0.000	NA	NA	0.000	0.000	0.000	NA	0.000	0.000	NA
20457	DeSoto County Utilities	Wholesale	0.000	Y	SW/GW	0.652	0.000	0.002	0.651	5,186	125	0.000	0.000	0.000	125	0.000	0.000	125
Desoto County Totals			32.644			1.080	30.687	1.544	1.494	15,225	98	0.000	0.000	0.000	98	0.000	0.000	98
Hardee County																		
30	City of Bowling Green	0.252	0.193	Y	GW	0.000	0.000	0.002	0.191	4,618	41	0.000	0.000	0.000	41	0.000	0.000	41
4461	City of Wauchula	0.782	0.657	Y	GW	0.000	0.000	0.013	0.644	6,400	101	0.000	0.000	0.000	101	0.000	0.000	101
7658	Town of Zolfo Springs	0.175	0.148	Y	GW	0.000	0.000	0.000	0.148	2,493	59	0.000	0.000	0.000	59	0.000	0.000	59

2016 ESTIMATED WATER USE REPORT

TABLE A-1, Part 1. 2016 Public Supply Annual Report (PSAR) Water Use Data

Water Use Permit	Permittee Name	(1) Permit Quantity AA (mgd)	(2) 2016 With-drawal PSAR	(3) PSAR Rec. Y/N	(4) Water Source	(5) Imports (mgd)	(6) Exports (mgd)	(7) Treat-ment Loss (mgd)	(8) Gross Water Use (mgd)	(9) Function al Populati on Served	(10) Gross Per Capita (gpcd)	(11) Sig. Use Deduct. (mgd)	(12) Golf Course Deduct. (mgd)	(13) Environ. Miti-gation Deduct. (mgd)	(14) Adjusted Gross Per Capita (mgd)	(15) Storm Water Deduct. (mgd)	(16) Reclaim Water Deduct. (mgd)	(17) Compl-iance Per Capita (gpcd)
13026	Hardee County BOCC	0.439	0.120	Y	GW	0.000	0.000	0.003	0.117	2,644	44	0.000	0.000	0.000	44	0.000	0.000	44
Hardee County Totals			1.118			0.000	0.000	0.018	1.100	16,155	68	0.000	0.000	0.000	68	0.000	0.000	68
Hernando County																		
5789	Hernando Co Utilities	23.299	18.050	Y	GW	0.000	0.000	0.113	17.937	141,263	127	0.000	0.000	0.000	127	0.000	0.000	127
7627	City of Brooksville	2.448	1.223	Y	GW	0.000	0.000	0.010	1.213	14,726	82	0.000	0.000	0.000	82	0.000		82
Hernando County Totals			19.273			0.000	0.000	0.123	19.150	155,989	123	0.000	0.000	0.000	123	0.000	0.000	123
Highlands County																		
4167	HC Waterworks	0.255	0.197	Y	GW	0.000	0.000	0.026	0.171	1,488	115	0.000	0.000	0.000	115	0.000	0.000	115
4492	City of Sebring	5.811	3.587	Y	GW	0.000	0.000	0.000	3.587	36,059	99	0.000	0.000	0.000	99	0.000	0.000	99
4980	Lake Placid Holding	0.406	0.285	Y	GW	0.000	0.000	0.003	0.282	4,340	65	0.000	0.000	0.000	65	0.000	0.000	65
5270	Town of Lake Placid	0.807	0.589	Y	GW	0.000	0.000	0.000	0.589	7,172	82	0.000	0.000	0.000	82	0.000	0.000	82
6029	City of Avon Park	2.372	1.832	Y	GW	0.000	0.000	0.000	1.832	21,995	83	0.000	0.000	0.000	83	0.000	0.000	83
7139	Buttonwood Bay Util	0.203	0.167	Y	GW	0.000	0.000	0.026	0.141	1,646	85	0.000	0.000	0.000	85	0.000	0.000	85
9490	LP Utilities Corp	0.150	0.042	Y	GW	0.000	0.000	0.0004	0.041	733	56	0.000	0.000	0.000	56	0.000	0.000	56
13099	Sun N Lake of Sebring	1.104	0.642	Y	GW	0.000	0.000	0.032	0.610	7,376	83	0.000	0.000	0.000	83	0.000	0.000	83
Highlands County Totals			7.341			0.000	0.000	0.087	7.254	80,809	90	0.000	0.000	0.000	90	0.000	0.000	90
Hillsborough County																		
450	City of Temple Terrace	5.150	3.705	Y	GW	0.000	0.000	0.271	3.434	34,551	99	0.000	0.000	0.000	99	0.000	0.000	99
1776	City of Plant City ²⁰	9.852	5.685	Y	GW	0.004	0.040	0.063	5.586	39,444	142	0.818	0.000	0.000	121	0.000	0.764	101
2062	City of Tampa ²⁰	82.000	74.205	Y	SW/GW	0.000	2.493	3.303	68.410	611,181	112	0.000	0.000	0.000	112	0.000	1.891	109
2285	Davpam Mobile Home	0.150	0.122	Y	GW	0.000	0.000	0.000	0.122	1,167	104	0.000	0.000	0.000	104	0.000	0.000	104
4352	TBW SC Hillsborough Wellfield ¹⁸	24.100	19.848	Y	GW	0.000	19.848	0.000	0.000	NA	NA	0.000	0.000	0.000	NA	0.000	0.000	NA
6312	TBW Eagles Water System ¹⁸	0.198	0.082	Y	GW	0.000	0.082	0.000	0.000	NA	NA	0.000	0.000	0.000	NA	0.000	0.000	NA
6879	The Meadows	0.236	0.198	Y	GW	0.000	0.000	0.000	0.198	2,018	98	0.000	0.000	0.000	98	0.000	0.000	98
7637	Riverside Golf Course	0.514	0.423	Y	GW	0.000	0.000	0.000	0.423	1,132	374	0.000	0.136	0.000	254	0.044	0.000	215
7790	Paradise Village MHC	0.128	0.063	Y	GW	0.000	0.000	0.001	0.063	1,355	46	0.000	0.000	0.000	46	0.000	0.000	46
10443	Windemere Utility Co	0.317	0.249	Y	GW	0.000	0.000	0.002	0.247	2,776	89	0.000	0.000	0.000	89	0.000	0.000	89
11732	TBW Brandon Urban Wellfield ¹⁷	6.000	4.286	Y	GW	0.000	4.286	0.000	0.000	NA	NA	0.000	0.000	0.000	NA	0.000	0.000	NA

2016 ESTIMATED WATER USE REPORT

TABLE A-1, Part 1. 2016 Public Supply Annual Report (PSAR) Water Use Data

Water Use Permit	Permittee Name	(1) Permit Quantity AA (mgd)	(2) 2016 With-drawal PSAR	(3) PSAR Rec. Y/N	(4) Water Source	(5) Imports (mgd)	(6) Exports (mgd)	(7) Treat-ment Loss (mgd)	(8) Gross Water Use (mgd)	(9) Function al Populati on Served	(10) Gross Per Capita (gpcd)	(11) Sig. Use Deduct. (mgd)	(12) Golf Course Deduct. (mgd)	(13) Environ. Miti-gation Deduct. (mgd)	(14) Adjusted Gross Per Capita (mgd)	(15) Storm Water Deduct. (mgd)	(16) Reclaim Water Deduct. (mgd)	(17) Comp-liance Per Capita (gpcd)
11771	TBW Consol. Wellfield (Hillsborough Portion) ¹⁷	90.000	22.537	Y	SW/GW	0.000	22.537	0.000	0.000	NA	NA	0.000	0.000	0.000	NA	0.000	0.000	NA
11794	TBW Alafia River Withdrawal ¹⁸	18.700	9.180	y	SW/GW	0.000	9.180	0.000	0.000	NA	NA	0.000	0.000	0.000	NA	0.000	0.000	NA
11796	TBW Bypass Canal Withdrawal ¹⁸	85.000	45.869	Y	SW/GW	0.000	45.869	0.000	0.000	NA	NA	0.000	0.000	0.000	NA	0.000	0.000	NA
NA	TBW Seawater Desal ¹⁹	NA	2.010	NA	SEA	0.000	2.010	0.000	0.000	NA	NA	0.000	0.000	0.000	NA	0.000	0.000	NA
20141	Hillsborough County	Wholesale	0.022	Y	SW/GW	56.935	0.000	0.000	56.957	595,348	96	0.000	0.000	0.000	96	0.000	0.000	96
Hillsborough County Totals			188.484			56.939	106.345	3.639	135.438	1,288,972	105	0.818	0.136	0.000	104	0.044	2.655	102
Lake County																		
There Are No Permitted or Significant Public Supply Uses in the SWFWMD Portion of Lake County																		
Levy County																		
5640	City of Williston	0.827	0.476	Y	GW	0.000	0.000	0.006	0.470	3,223	146	0.000	0.000	0.000	146	0.000	0.000	146
7755	Town of Yankeetown	0.099	0.079	Y	GW	0.0006	0.0002	0.006	0.073	856	85	0.000	0.000	0.000	85	0.000	0.000	85
8953	Town of Inglis	0.139	0.135	Y	GW	0.0002	0.0006	0.022	0.113	1,632	69	0.000	0.000	0.000	69	0.000	0.000	69
Levy County Totals			0.690			0.001	0.001	0.034	0.656	5,711	115	0.000	0.000	0.000	115	0.000	0.000	115
Manatee County																		
6392	City of Bradenton	6.950	5.791	Y	SW	0.216	0.027	0.158	5.823	66,167	88	0.000	0.000	0.000	88	0.000	0.000	88
10963	Town of Longboat Key	Wholesale	0.000	Y	SW	1.650	0.000	0.000	1.650	18,108	91	0.000	0.000	0.000	91	0.000	0.000	91
12443	City of Palmetto	Wholesale	0.000	Y	SW/GW	1.321	0.000	0.013	1.307	17,886	73	0.000	0.000	0.000	73	0.000	0.000	73
13343, 7345	Manatee County Util ¹⁸	54.836, 1.960	39.521	Y	SW/GW	0.921	7.709	1.271	31.461	341,928	92	2.193	0.000	0.000	86	0.000	4.000	74
Manatee County Totals			45.312			4.107	7.736	1.442	40.241	444,089	91	2.193	0.000	0.000	86	0.000	4.000	77
Marion County																		
1156	Bay Laurel CDD	2.555	2.852	Y	GW	0.000	0.105	0.089	2.657	11,276	236	0.000	0.000	0.000	236	0.000	0.172	220
2999	Marion Utilities Inc	0.126	0.106	Y	GW	0.000	0.000	0.001	0.105	1,109	94	0.000	0.000	0.000	94	0.000	0.000	94
5643	Utilities Inc of Florida	0.188	0.161	Y	GW	0.000	0.000	0.001	0.160	1,000	160	0.000	0.000	0.000	160	0.000	0.000	160
6151	Marion County Utilities	6.661	4.983	Y	GW	0.000	0.000	0.031	4.952	35,618	139	0.000	0.000	0.000	139	0.000	0.000	139
6792	Sun Communities	0.145	0.085	Y	GW	0.000	0.000	0.001	0.084	598	140	0.000	0.000	0.000	140	0.000	0.000	140
7849	Marion Utilities Inc	0.290	0.134	Y	GW	0.000	0.000	0.001	0.133	1,078	123	0.000	0.000	0.000	123	0.000	0.000	123
8005	Century Fairfield Village	0.103	0.056	Y	GW	0.000	0.000	0.000	0.056	475	118	0.000	0.000	0.000	118	0.000	0.000	118
8020	Marion Landing	0.179	0.154	Y	GW	0.000	0.000	0.000	0.154	1,127	137	0.000	0.000	0.000	137	0.000	0.000	137

2016 ESTIMATED WATER USE REPORT

TABLE A-1, Part 1. 2016 Public Supply Annual Report (PSAR) Water Use Data

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8339	City of Dunnellon	1.117	0.947	Y	GW	0.000	0.000	0.000	0.947	6,458	147	0.000	0.000	0.000	147	0.000	0.000	147
8481	Spruce Creek Dev	1.180	0.629	Y	GW	0.000	0.000	0.006	0.623	5,891	106	0.000	0.000	0.000	106	0.000	0.000	106
Marion County Totals			10.107			0.000	0.105	0.132	9.870	64,630	153	0.000	0.000	0.000	153	0.000	0.172	150
Pasco County																		
279	Aqua Utilities FL Inc	0.319	0.200	Y	GW	0.000	0.000	0.002	0.198	3,522	56	0.000	0.000	0.000	56	0.000	0.000	56
590	Mad Hatter Utility Inc	1.000	0.871	Y	GW	0.000	0.000	0.004	0.866	8,337	104	0.000	0.000	0.000	104	0.000	0.000	104
964	C S Water Co Inc	0.136	0.079	Y	GW	0.000	0.000	0.000	0.079	939	84	0.000	0.000	0.000	84	0.000	0.000	84
1631	City of Dade City	1.971	1.343	Y	GW	0.000	0.000	0.001	1.342	12,304	109	0.000	0.000	0.000	109	0.000	0.201	93
2043	Orangewood Lakes MHC	0.150	0.077	Y	GW	0.000	0.000	0.000	0.077	1,040	74	0.000	0.000	0.000	74	0.000	0.000	74
2978	FGUA Gulf Harbor	0.870	0.551	Y	GW	0.007	0.000	0.0005	0.558	5,315	105	0.000	0.000	0.000	105	0.000	0.000	105
3182	FGUA Seven Springs	2.289	2.397	Y	GW	0.272	0.000	0.077	2.592	31,000	84	0.000	0.000	0.000	84	0.000	0.000	84
3590	Utilities Inc of FL	0.260	0.219	Y	GW	0.000	0.000	0.0004	0.218	3,754	58	0.000	0.000	0.000	58	0.000	0.000	58
3668	Utilities Inc of FL	0.274	0.128	Y	GW	0.000	0.000	0.003	0.125	2,554	49	0.000	0.000	0.000	49	0.000	0.000	49
3677	FGUA Colonial Manor	Wholesale	0.000	Y	GW	0.090	0.000	0.000	0.089	1,612	55	0.000	0.000	0.000	55	0.000	0.000	55
3692	City of Port Richey	1.050	0.444	Y	GW	0.259	0.000	0.119	0.584	11,855	49	0.000	0.000	0.000	49	0.000	0.000	49
4550	City of San Antonio	0.207	0.138	Y	GW	0.000	0.000	0.001	0.136	2,216	61	0.000	0.000	0.000	61	0.000	0.000	61
4669	Hudson Water Works	0.691	0.632	Y	GW	0.000	0.000	0.006	0.626	7,910	79	0.000	0.000	0.000	79	0.000	0.000	79
4734	City of New Port Richey	0.490	0.468	Y	GW	5.110	2.302	0.055	3.221	33,500	96	0.000	0.000	0.000	96	0.000	0.000	96
6040	City of Zephyrhills	2.900	2.374	Y	GW	0.000	0.000	0.033	2.341	27,880	84	0.000	0.000	0.000	84	0.000	0.000	84
7999	FGUA Angus Valley	0.145	0.108	Y	GW	0.000	0.000	0.000	0.108	1,987	55	0.000	0.000	0.000	55	0.000	0.000	55
8417	FGUA Aloha Gardens	0.136	0.072	Y	GW	0.352	0.000	0.001	0.423	7,867	54	0.000	0.000	0.000	54	0.000	0.000	54
11771	TBW Consolidated Wellfield (Pasco Portion) ¹⁸	See Hills.	47.100	Y	GW	0.000	47.100	0.000	0.000	NA	NA	0.000	0.000	0.000	NA	0.000	0.000	NA
11863	Pasco Co Utilities	6.286	3.925	Y	GW	26.914	0.905	0.338	29.595	276,526	107	0.000	0.000	0.000	107	0.000	0.000	107
Pasco County Totals			61.125			33.004	50.307	0.642	43.180	440,118	98	0.000	0.000	0.000	98	0.000	0.201	98
Pinellas County																		
742	City of Tarpon Springs	4.200	3.682	Y	GW	0.055	0.047	0.659	3.032	33,736	90	0.000	0.000	0.000	90	0.000	0.000	90
2980	City of Dunedin	6.617	4.682	Y	GW/RO	0.000	0.000	1.209	3.473	43,537	80	0.000	0.000	0.000	80	0.000	0.000	80
2981	City of Clearwater ²⁰	14.300	7.563	Y	GW/RO	4.211	0.000	1.087	10.688	141,828	75	0.000	0.000	0.000	75	0.000	0.000	75
7692	Town of Belleair	1.160	0.768	Y	GW	0.001	0.000	0.007	0.762	5,463	140	0.000	0.000	0.000	140	0.000	0.172	108

2016 ESTIMATED WATER USE REPORT

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10795	City of Gulfport	Wholesale	0.000	Y	GW	0.975	0.000	0.000	0.975	14,528	67	0.000	0.000	0.000	67	0.000	0.000	67
11218	City of Oldsmar	2.700	1.710	Y	GW	0.006	0.000	0.446	1.270	17,117	74	0.000	0.000	0.000	74	0.000	0.000	74
11245	City of Safety Harbor	Wholesale	0.000	Y	GW	1.472	0.000	0.000	1.472	15,183	97	0.000	0.000	0.000	97	0.000	0.000	97
11771	TBW Consol. Wellfield (Pinellas Portion) ¹⁸	See Hills.	8.728	Y	SW/GW	0.000	8.728	0.000	0.000	NA	NA	0.000	0.000	0.000	NA	0.000	0.000	NA
12351	City of Pinellas Park	Wholesale	0.000	Y	GW	4.228	0.000	0.000	4.228	85,249	50	0.000	0.000	0.000	50	0.000	0.000	50
20142	Pinellas County	Wholesale	0.000	Y	GW	49.237	10.023	1.101	38.113	501,192	76	0.000	0.000	0.000	76	0.000	0.000	76
20143	City of St Petersburg	Wholesale	0.000	Y	GW	28.551	0.974	0.571	27.006	344,829	78	0.000	0.000	0.000	78	0.000	0.000	78
Pinellas County Totals			27.133			88.736	19.771	5.080	91.018	1,202,662	76	0.000	0.000	0.000	76	0.000	0.172	76
Polk County																		
341	City of Bartow	7.900	3.006	Y	GW	0.000	0.000	0.428	2.578	25,058	103	0.000	0.000	0.000	103	0.000	1.216	54
645	City of Fort Meade	0.760	0.584	Y	GW	0.000	0.000	0.014	0.570	5,586	102	0.000	0.000	0.000	102	0.000	0.256	56
1625	Four Lakes Golf Club	0.406	0.384	Y	GW	0.000	0.000	0.004	0.380	1,448	263	0.000	0.143	0.000	164	0.000	0.000	164
2332	Town of Lake Hamilton	0.381	0.281	Y	GW	0.000	0.000	0.003	0.278	1,806	154	0.029	0.000	0.000	138	0.000	0.000	138
3415	Orchid Springs Dev Corp	0.115	0.064	Y	GW	0.0002	0.000	0.000	0.064	929	69	0.000	0.000	0.000	69	0.000	0.000	69
4005	Crooked Lake Park Co	0.302	0.235	Y	GW	0.000	0.000	0.017	0.218	2,584	84	0.000	0.000	0.000	84	0.000	0.000	84
4607	City of Winter Haven	14.060	9.402	Y	GW	0.001	0.001	0.158	9.243	81,135	114	0.000	0.000	0.000	114	0.000	0.000	114
4658	City of Lake Wales	3.903	2.458	Y	GW	0.000	0.000	0.003	2.455	21,632	113	0.000	0.000	0.000	113	0.000	0.000	113
4912	City of Lakeland	35.030	20.893	Y	GW	0.000	0.327	0.028	20.537	173,842	118	0.000	0.037	0.000	118	0.000	4.838	90
5251	Grenelefe Resort LLC	1.235	1.818	Y	GW	0.000	0.000	0.010	1.808	2,715	666	0.000	0.406	0.000	516	0.000	0.000	516
5750	City of Davenport	1.002	0.837	Y	GW	0.000	0.000	0.000	0.837	7,081	118	0.000	0.000	0.000	118	0.000	0.000	118
5870	City of Frostproof	0.870	0.391	Y	GW	0.000	0.000	0.000	0.391	3,285	119	0.036	0.000	0.000	108	0.000	0.000	108
5893	Town of Dundee	0.918	0.527	Y	GW	0.000	0.000	0.000	0.527	5,169	102	0.000	0.000	0.000	102	0.000	0.000	102
6124	City of Mulberry	0.807	0.383	Y	GW	0.000	0.000	0.002	0.381	4,609	83	0.000	0.000	0.000	83	0.000	0.000	83
6174	Saddlebag Lake Owners	0.117	0.087	Y	GW	0.000	0.000	0.000	0.087	1,332	65	0.000	0.000	0.000	65	0.000	0.000	65
6505	Polk County Utilities	5.700	2.388	Y	GW	0.149	0.000	0.033	2.504	31,844	79	0.000	0.000	0.000	79	0.000	0.000	79
6506	Polk County Utilities	7.000	3.172	Y	GW	0.050	0.050	0.041	3.130	41,297	76	0.000	0.000	0.000	76	0.000	0.000	76
6507	Polk County Utilities	2.003	1.021	Y	GW	0.000	0.000	0.014	1.007	13,983	72	0.000	0.000	0.000	72	0.000	0.000	72
6508	Polk County Utilities	1.367	0.617	Y	GW	0.000	0.000	0.009	0.608	4,998	122	0.000	0.000	0.000	122	0.000	0.000	122
6509	Polk County Utilities	10.919	4.928	Y	GW	1.983	0.008	0.075	6.828	71,289	96	0.000	0.000	0.000	96	0.000	0.000	96

2016 ESTIMATED WATER USE REPORT

TABLE A-1, Part 1. 2016 Public Supply Annual Report (PSAR) Water Use Data

Water Use Permit	Permittee Name	(1) Permit Quantity AA (mgd)	(2) 2016 With-drawal PSAR	(3) PSAR Rec. Y/N	(4) Water Source	(5) Imports (mgd)	(6) Exports (mgd)	(7) Treat-ment Loss (mgd)	(8) Gross Water Use (mgd)	(9) Function al Populati on Served	(10) Gross Per Capita (gpcd)	(11) Sig. Use Deduct. (mgd)	(12) Golf Course Deduct. (mgd)	(13) Environ. Miti-gation Deduct. (mgd)	(14) Adjusted Gross Per Capita (mgd)	(15) Storm Water Deduct. (mgd)	(16) Reclaim Water Deduct. (mgd)	(17) Compl-iance Per Capita (gpcd)
6624	City of Lake Alfred	1.303	1.080	Y	GW	0.010	0.000	0.011	1.080	8,323	130	0.000	0.000	0.000	130	0.000	0.000	130
6920	City of Eagle Lake	0.662	0.350	Y	GW	0.000	0.000	0.008	0.342	3,577	96	0.000	0.000	0.000	96	0.000	0.000	96
7119	City of Auburndale	7.036	4.756	Y	GW	0.000	0.010	0.000	4.746	28,834	165	1.034	0.000	0.000	129	0.000	0.375	116
7187	CHC Century Realty	0.429	0.267	Y	GW	0.000	0.000	0.003	0.264	1,640	161	0.000	0.135	0.000	79	0.000	0.000	79
7328	Carefree RV	0.131	0.104	Y	GW	0.000	0.000	0.000	0.104	979	106	0.000	0.044	0.000	61	0.000	0.000	61
7878	FGUA Aqua Utilities	0.243	0.149	Y	GW	0.000	0.000	0.002	0.147	2,253	65	0.000	0.000	0.000	65	0.000	0.000	65
8054	Polk County Utilities	1.373	0.440	Y	GW	0.000	0.001	0.010	0.429	6,546	66	0.000	0.000	0.000	66	0.000	0.000	66
8344	S V Utilities Ltd	0.212	0.144	Y	GW	0.000	0.000	0.001	0.143	1,379	103	0.000	0.000	0.000	103	0.000	0.000	103
8468	City of Polk City	0.761	0.363	Y	GW	0.000	0.000	0.005	0.359	6,550	55	0.000	0.000	0.000	55	0.000	0.000	55
8522	City of Haines City	5.921	4.711	Y	GW	0.000	0.062	0.114	4.535	32,506	140	0.233	0.000	0.000	132	0.000	0.123	129
8967	Sweetwater Community	0.141	0.120	Y	GW	0.000	0.000	0.000	0.120	698	172	0.000	0.029	0.000	130	0.000	0.000	130
13043	Cypress Lakes Utilities	0.331	0.182	Y	GW	0.000	0.000	0.005	0.176	2,848	62	0.000	0.000	0.000	62	0.000	0.000	62
Polk County Totals			66.143			2.192	0.460	0.998	66.878	597,755	112	1.332	0.794	0.000	108	0.000	6.807	97
Sarasota County																		
2923	City of North Port	7.100	2.043	Y	SW	1.110	0.041	0.156	2.957	49,450	60	0.000	0.000	0.000	60	0.000	0.000	60
4318, 10224, 10225	City of Sarasota	6.000, 6.000, 0.043	7.899	Y	GW	0.000	0.000	1.646	6.253	79,765	78	0.000	0.000	0.000	78	0.000	0.000	78
4866	Englewood Water Dist	5.360	3.659	Y	GW/RO	0.000	0.143	0.974	2.542	38,265	66	0.000	0.000	0.000	66	0.000	0.357	57
5393	City of Venice	6.864	4.610	Y	GW/RO	0.000	0.000	2.427	2.183	34,778	63	0.000	0.000	0.000	63	0.000	0.000	63
5807	Camelot Communities	0.390	0.343	N	GW/RO	0.000	0.000	0.000	0.343	1,829	187	0.000	0.000	0.000	187	0.000	0.000	187
7448	SNF Property LLC	0.186	0.085	Y	GW	0.000	0.000	0.009	0.076	1,254	61	0.000	0.000	0.000	61	0.000	0.000	61
8836	Sarasota County BOCC	13.737	1.978	Y	GW/RO	17.766	0.827	0.464	18.454	226,601	81	0.000	0.000	0.000	81	0.000	0.000	81
Sarasota County Total			20.617			18.876	1.010	5.675	32.808	431,942	76	0.000	0.000	0.000	76	0.000	0.357	75
Sumter County																		
1368	Lake Panasoffkee Assoc	0.410	0.249	Y	GW	0.000	0.000	0.000	0.249	3,871	64	0.000	0.000	0.000	64	0.000	0.000	64
6519	City of Bushnell	1.367	0.452	Y	GW	0.000	0.000	0.000	0.452	2,749	164	0.210	0.000	0.000	88	0.000	0.000	88
7185	City of Webster	0.103	0.085	Y	GW	0.000	0.000	0.0009	0.085	1,370	62	0.000	0.000	0.000	62	0.000	0.000	62
8135	City of Wildwood	6.445	2.121	Y	GW	0.000	0.000	0.015	2.106	20,194	104	0.000	0.000	0.000	104	0.000	0.862	62
8193	City of Center Hill	0.171	0.067	Y	GW	0.000	0.000	0.000	0.067	1,057	64	0.000	0.000	0.000	64	0.000	0.000	64

2016 ESTIMATED WATER USE REPORT

TABLE A-1, Part 1. 2016 Public Supply Annual Report (PSAR) Water Use Data

Water Use Permit	Permittee Name	(1) Permit Quantity AA (mgd)	(2) 2016 Withdrawal PSAR	(3) PSAR Rec. Y/N	(4) Water Source	(5) Imports (mgd)	(6) Exports (mgd)	(7) Treatment Loss (mgd)	(8) Gross Water Use (mgd)	(9) Functional Population Served	(10) Gross Per Capita (gpcd)	(11) Sig. Use Deduct. (mgd)	(12) Golf Course Deduct. (mgd)	(13) Environ. Mitigation Deduct. (mgd)	(14) Adjusted Gross Per Capita (mgd)	(15) Storm Water Deduct. (mgd)	(16) Reclaim Water Deduct. (mgd)	(17) Compliance Per Capita (gpcd)
13005	The Villages CDD ²⁰	19.346	25.314	Y	GW/SW	0.000	0.000	0.230	25.084	84,083	298	0.316	2.160	0.000	269	5.923	2.488	169
20597	City of Wildwood- CCC	0.238	0.149	Y	GW	0.000	0.000	0.012	0.137	2,405	57	0.000	0.000	0.000	57	0.000	0.000	57
Sumter County Total			28.438			0.000	0.000	0.258	28.179	115,729	243	0.526	2.160	0.000	220	5.923	3.350	140
Northern Planning Region			72.842			0.392	0.514	0.736	71.984	439,873	164	0.526	2.160	0.000	158	5.923	3.687	136
Tampa Bay Planning Region			276.741			178.678	176.423	9.361	269.635	2,931,752	92	0.818	0.136	0.000	92	0.044	3.028	91
Southern Planning Region			105.974			35.070	40.055	9.765	91.225	1,073,004	85	2.193	0.000	0.000	83	0.000	4.480	79
Heartland Planning Region			74.602			2.192	0.460	1.103	75.232	694,719	108	1.332	0.794	0.000	105	0.000	6.807	95
District Totals ²⁰			530.159			216.333	217.451	20.967	508.076	5,139,348	99	4.869	3.090	0.000	97	5.967	18.002	93

Record of Public Supply Annual Reports Received and Number of WUPs in compliance with the 150 gpcd compliance per capita requirement. (Those not in compliance may have interim compliance per capita rate allowed.)

No. WUPs		No. WUPs		No. WUPs		No. WUPs	
PSAR Received	140	Unadjusted Gross PC ≤ 150:	115	Adjusted Gross PC ≤ 150:	120	Compliance PC ≤ 150:	121
PSAR Not Received *	1	Unadjusted Gross PC > 150:	15	Adjusted Gross PC > 150:	10	Compliance PC > 150:	9
Total Due ¹⁹	141	Total	130	Total	130	Total	130

Notes:

Calculations from raw data may create minor rounding discrepancies in summations.

gpcd: gallons per capita day (gallons per day per person)

mgd: million gallons per day

PSAR: Public Supply Annual Report

* If the PSAR was not received, withdrawals were derived from District metering data, and population was calculated from District GIS data.

¹ The permitted quantity that the WUP is allowed to withdrawal on an annual average basis.

² The annual average withdrawals reported by utility or water supply authority.

³ Signifies if a PSAR was received by the District. If a PSAR was required but not received, "N" is noted in this column and the District's data and demographics were used.

⁴ GW = Groundwater, SW = Surface Water, RO = Brackish groundwater treated by desalination, SEA = Seawater treated by desalination

⁵ IMPORT = Water purchased or transferred in bulk from another utility or water supply authority.

⁶ EXPORT = Water sold or transferred in bulk to another utility or water supply authority.

⁷ TREATMENT LOSS = Annual average gallons per day which are lost in routine treatment for potability. This includes, but is not limited to, desalination reject water, sand filtration backwash, and quantities used to maintain appropriate water quality in pipelines or tanks. Treatment losses are calculated as raw water into the plant minus treated water out of the plant. This should not include more than 1 percent of treated water volume delivered to the distribution system for flushing distribution lines for potability.

⁸ GROSS USE = (Withdrawal + Import) - (Export + Treatment Loss) +/- (storage in ASR or off-stream reservoirs [may not be quantified]). The Gross Use is the water distributed to utility customers.

⁹ POPULATION SERVED = permanent population + adjusted seasonal population + tourist (optional) + net commuters (optional). Information on functional population methodology is available in the District's Water Use Permit Information Manual, Part D: http://www.swfwmd.state.fl.us/files/database/site_file_sets/14/wup_part_d.pdf.

2016 ESTIMATED WATER USE REPORT

- 10 UNADJUSTED GROSS PER CAPITA = (Gross Use) ÷ (Functional Population). Population-related withdrawals associated with residential, business, institutional, industrial, miscellaneous metered, and unaccounted water uses are applicable to all public supply benefits.
- 11 SIGNIFICANT USE DEDUCTION = A Significant Use is a substantial amount of water provided for industrial/commercial (I/C) use and that is not related to population. Permittees are allowed to deduct significant use under five options: A: Single significant Use; B: Districtwide percent I/C use; C: Combined regional government and higher education facilities; D: Individual regional health facilities; E: Individual I/C facilities where water is the primary ingredient or the final product. Definitions and exclusions of each type are given in the Basis of Review for Water Use Permit Applications, Chapter 3, Section 3.6.
- 12 GOLF COURSE DEDUCTION = Separately metered golf course irrigation quantities from ground water, surface water, reclaimed water, or storm water provided to golf courses inside the service area. The permitted quantities for the service area and reported as withdrawals (WD) in the Annual Report. The golf course deduction quantities shall not exceed the actual quantity provided, or would be permitted for use by the District, whichever is less. Quantities provided may be deducted only if they are included in the permit.
- 13 ENVIRONMENTAL MITIGATION = Annual average quantities used by a utility to mitigate withdrawal-related stress to a specified environmental feature as required by the utility's WUP.
- 14 ADJUSTED GROSS PER CAPITA = ((Gross Use) - (Significant Uses + Golf Course Deduction + Environmental Mitigation) ÷ Functional Population).
- 15 STORMWATER DEDUCTION = Separately metered and reported stormwater quantities captured by the permittee that are included in the utility's permitted quantities for uses inside the service area, and for uses other than for golf course irrigation (GC). The stormwater withdrawal quantities deducted shall not exceed the quantities actually provided, or those that would be permitted for the use by the District, whichever is less. The surface withdrawal points from the stormwater catchments shall be permitted on the provider's water use permit and must be reported as withdrawals in the PSAR to be deducted. The stormwater deduction is not taken where the quality of the groundwater source is of lower water quality but is suitable for the intended use, unless the stormwater use reduces adverse impacts to the water resources.
- 16 RECLAIMED WATER DEDUCTION = A deduction from the gross per capita that is applicable if the utility provides reclaimed water for beneficial use to an area as set forth in the Basis of Review for Water Use Permit Applications, Chapter 3, Section 3.1.
- 17 COMPLIANCE PER CAPITA = ((gross use) - (significant use + golf course deduction + environmental mitigation + stormwater deduction + reclaimed water deduction)) / (Functional Population). This is a rate that is calculated for compliance with the 150 gpd per person limit.

The following footnotes pertain to specified utilities and District total

- 18 Regional Water Supply Supplier. For Tampa Bay Water consolidated wellfield WUP No. 11771, the total withdrawn quantity (78.366 mgd) is divided among the three counties from which the withdrawals occurred (Hillsborough, Pasco and Pinellas counties).
- 19 The quantity shown for the Tampa Bay Water Seawater Desalination Facility is only the quantity exported to the regional distribution system for use. While on standby, the seawater facility may also send an unknown quantity of partially treated effluent to the Bill Young reservoir. The seawater quantity is omitted from other tables that specify the regulated groundwater or fresh surface water withdrawals from natural resources. Seawater use is not regulated by the District.
- 20 The District gross use total is the sum of the individual WUP gross withdrawals. Note that the total public supply withdrawal does not match some county and Districtwide totals reported in table 1 and table 9 due to two adjustments:
- The PSAR reported withdrawal totals at some golf resorts with mixed-use permit quantities contain water that was categorized as landscape/recreation in the EWU Report. To avoid double-counting, deductions to public supply withdrawals were made in table 1 and table 9: -0.123 mgd in Hillsborough, -1.010 mgd in Polk, -0.176 mgd in Sarasota, and -1.350 mgd in Sumter counties. The WUPs that included the additional use in their PSAR total withdrawal but claimed the golf course deduction were: 1625, 4658, 5251, 5807, 7187, 7637, 8193, 8967, and 13005.
 - The City of Lakeland calculated "water year" (Oct-Sept) data on their PSAR. Table A-1 retains their reported data, but WMIS-based calendar year data was substituted for EWU Report tables 1 and 9. Their calendar year withdrawal was 20.714 mgd.
- 21 The Villages CDD withdrawal quantity shown (21.443 mgd) includes surface water withdrawals from stormwater ponds, an alternative supply which was reported for the PSAR to balance their gross use and water losses. The permitted quantity shown (19.346 mgd) is their groundwater allocation. The Villages CDD annual average groundwater withdrawal was 12.401 mgd, and was within their permitted quantity.

Please note that data in these tables may not exactly match what was reported in official PSAR submittals due to rule requirements [40D-2.091(1)(a)], supporting documentation conditions, and staff quality evaluation. In addition, the data from the Water Management Information System (WMIS) is subject to updates.

2016 ESTIMATED WATER USE REPORT

Table A-1, Part 2. Metered Withdrawals for Public Supply WUPs that aren't required to submit a PSAR, Permitted Quantities (mgd), and Countywide Estimates for Non-Metered WUPs, 2016

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Withdrawal ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to Public Supply ⁴
Charlotte	10726	JDI Farms Inc	P100	G	0.000	0.402	0.001
Charlotte	10726	JDI Farms Inc	P100	S	0.000	0.402	0.001
Charlotte County Totals					0.000	Metered, Non-PSAR, mgd	
					0.019	Estimated, mgd, 1 WUP	
					0.019	Total, mgd	
Citrus	729	Citrus County Water Resources	P130	G	0.090	0.080	0.080
Citrus	1345	Royal Oaks of Citrus HOA Inc	P130	G	0.060	0.067	0.067
Citrus	7879	Citrus County Water Resources	P130	G	0.037	0.073	0.073
Citrus County Totals					0.187	Metered, Non-PSAR, mgd	
					0.466	Estimated, mgd, 18 WUPs	
					0.653	Total, mgd	
DeSoto	8935	V C Hollingsworth Sr. Estate	P100	G	0.001	0.131	0.001
DeSoto County Totals					0.001	Metered, Non-PSAR, mgd	
					0.012	Estimated, mgd, 3 WUPs	
					0.013	Total, mgd	
Hardee	1912	V & W Farms Inc of Delray Beach	P135	G	0.000	1.298	0.002
Hardee	9550	Hardee Correctional Institution	P100	G	0.240	0.301	0.285
Hardee	11858	FINR II, Inc.	P040	G	0.011	0.431	0.421
Hardee County Totals					0.251	Metered, Non-PSAR, mgd	
					0.056	Estimated, mgd, 4 WUPs	
					0.307	Total, mgd	
Hernando County Totals					0.000	Metered, Non-PSAR, mgd	
There are no Non-PSAR Metered WUPS in Hernando County					0.161	Estimated, mgd, 6 WUPs	
					0.161	Total, mgd	
Highlands	7704	County Club Utilities Inc	P130	G	0.112	0.183	0.183

2016 ESTIMATED WATER USE REPORT

Table A-1, Part 2. Metered Withdrawals for Public Supply WUPs that aren't required to submit a PSAR, Permitted Quantities (mgd), and Countywide Estimates for Non-Metered WUPs, 2016

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Withdrawal ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to Public Supply ⁴
Highlands	9550	Sebring 365 LLC	P130	G	0.000	0.316	0.169
Highlands County Totals					0.112	Metered, Non-PSAR, mgd	
					0.181	Estimated, mgd, 12 WUPs	
					0.293	Total, mgd	
Hillsborough	689	School Board of Hillsborough Co	P100	G	0.041	0.150	0.083
Hillsborough	2707	Hillsborough County BOCC	P130	G	0.023	0.306	0.306
Hillsborough	4421	Jack P, Meribeth Sizemore	P100	G	0.001	0.613	0.002
Hillsborough	4757	Wilder Corporation	P131	G	0.054	0.065	0.065
Hillsborough	5886	Tampa Bay Water	P105	G	0.036	0.820	0.820
Hillsborough	6420	Linda Lawton DKL Properties, LLC	P130	G	0.000	0.106	0.005
Hillsborough	6420	Linda Lawton DKL Properties, LLC	P130	S	0.000	0.106	0.005
Hillsborough	6480	Betty Astin	P135	G	0.006	0.164	0.008
Hillsborough	6675	Tampa Bay Water	P105	S	3.214	20.000	20.000
Hillsborough	7002	MHC FR Utility Systems	P130	G	0.160	0.097	0.097
Hillsborough	8563	T.G. and Laverne Robinson Family Partnership	P130	G	0.000	0.087	0.040
Hillsborough	8955	Lone Oak Baptist Missionary Baptist Church	P100	G	0.000	0.027	0.001
Hillsborough	9418	Fancy Farms Inc	P060	G	0.000	0.185	0.001
Hillsborough	9658	Keel Farms, Inc	P100	G	0.000	0.069	0.001
Hillsborough	10066	Florida Acecapaders, Inc	P070	G	0.001	0.029	0.022
Hillsborough	12523	University of Florida IFAS Facility	P100	G	0.001	0.345	0.001
Hillsborough	12957	NHC-FL 8-LP	P131	G	0.031	0.347	0.045
Hillsborough County Totals					3.568	Metered, Non-PSAR, mgd	
					0.807	Estimated, mgd, 45 WUPs	
					4.375	Total, mgd	
Lake County Totals					0.000	Metered, Non-PSAR, mgd	
There are no Metered WUPS in Lake County					0.000	Estimated, mgd, 0 WUPs	
There are no Estimated Public Supply WUPS in Lake County					0.000	Total, mgd	

2016 ESTIMATED WATER USE REPORT

Table A-1, Part 2. Metered Withdrawals for Public Supply WUPs that aren't required to submit a PSAR, Permitted Quantities (mgd), and Countywide Estimates for Non-Metered WUPs, 2016

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Withdrawal ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to Public Supply ⁴
Levy County Totals		There are no Non-PSAR Metered WUPS in Levy County			0.000	Metered, Non-PSAR, mgd	
					0.004	Estimated, mgd, 1 WUP	
					0.004	Total, mgd	
Manatee	503	J T Reeder Partners LLLP	P131	G	0.002	0.875	0.004
Manatee	4467	John Falkner	P131	G	0.002	9.778	0.006
Manatee	9089	FFD Land Co Inc	P135	G	0.003	2.791	0.012
Manatee	11105	WFA Land Company, Inc	P100	G	0.004	3.016	0.024
Manatee County Totals					0.011	Metered, Non-PSAR, mgd	
					0.005	Estimated, mgd, 2 WUPs	
					0.016	Total, mgd	
Marion	5731	MHC Foxwood Farms & Utility Systems	P130	G	0.061	0.085	0.085
Marion	6674	Golden Ocala Golf Course and Country Club	P130	G	0.023	0.449	0.053
Marion County Totals					0.084	Metered, Non-PSAR, mgd	
					0.284	Estimated, mgd, 16 WUPs	
					0.368	Total, mgd	
Pasco	540	Holiday Gardens Utilities, LLC	P130	G	0.054	0.100	0.100
Pasco	543	Crestridge Utilities, LLC	P130	G	0.075	0.100	0.100
Pasco	7299	L V W Utilities Inc	P130	G	0.080	0.095	0.095
Pasco	8491	Parrish Properties LLC	P131	G	0.015	0.060	0.060
Pasco	9666	Alfred Heiler	P131	G	0.045	0.061	0.061
Pasco	11131	Tampa Bay Water (Triangle Lake Augmentation)	P020	G	0.021	0.084	0.084
Pasco	11132	Tampa Bay Water (Monsees Pond Augmentation)	P020	G	0.086	0.200	0.200
Pasco	13348	Pasco Co (Grassy Lake Augmentation)	P020	S	0.054	0.180	0.180
Pasco County Totals					0.430	Metered, Non-PSAR, mgd	
					1.038	Estimated, mgd, 33 WUPs	
					1.468	Total, mgd	

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Table A-1, Part 2. Metered Withdrawals for Public Supply WUPs that aren't required to submit a PSAR, Permitted Quantities (mgd), and Countywide Estimates for Non-Metered WUPs, 2016

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Withdrawal ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to Public Supply ⁴
Pinellas	12905	City of St. Petersburg	P080	G	0.000	0.070	0.070
Pinellas County Totals					0.000	Metered, Non-PSAR, mgd	
					0.059	Estimated, mgd, 2 WUPs	
					0.059	Total, mgd	
Polk	143	Mountain Lake Corp	P130	G	0.019	3.380	0.092
Polk	494	Florida Dept of Corrections	P100	G	0.188	0.470	0.470
Polk	1616	Lake Region Mobile Home Owners, Inc	P131	G	0.072	0.090	0.090
Polk	8753	GCP Plantation Landings, LLC	P130	G	0.033	0.070	0.057
Polk	10141	Polk County Utilities	P120	G	0.000	0.257	0.257
Polk County Totals					0.312	Metered, Non-PSAR, mgd	
					1.337	Estimated, mgd, 60 WUPs	
					1.649	Total, mgd	
Sarasota	12926	PRMRWSA Operational Flexibility	P105	G	0.000	7.251	7.251
Sarasota	12926	PRMRWSA Operational Flexibility	P105	S	0.000	7.251	7.251
Sarasota County Totals					0.000	Metered, Non-PSAR, mgd	
					0.011	Estimated, mgd, 1 WUP	
					0.011	Total, mgd	
Sumter	6793	Rainforest RV, Inc	P130	G	0.034	0.147	0.028
Sumter	11778	Village Center CDD	P040	G	0.021	0.170	0.114
Sumter	13123	Loan Portfolio Solutions, LLC	P131	G	0.020	0.114	0.061
Sumter County Totals					0.075	Metered, Non-PSAR, mgd	
					0.165	Estimated, mgd, 8 WUPs	
					0.240	Total, mgd	
District Totals					5.031	Metered, Non-PSAR, mgd	
					4.605	Estimated, mgd, 212 WUPs	
					9.636	Public Supply Total (mgd) for non-PSAR WUPs	

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Data source: Estimated Water Use Tables derived from the WMIS WUP database.

- ¹ Use Codes: The predominant Public Supply use on the permit is shown on the table, although other smaller specific uses may be listed on the WUP.
- ² Source: G = Groundwater; S = Surface Water
- ³ The annual average withdrawals by each permittee under the public supply use category, in million gallons per day. The totals show the sum of metered withdrawals, an additional amount estimated for the non-metered permittees, and the combined total for the county and District.
- ⁴ The Public Supply portion of the total permitted quantity. If the number is less than the total permitted quantity, there are uses other than Public Supply on the WUP.

The public supply use codes that are used in WMIS are provided below. There are more use codes listed, for reference, than appear in Table A-1 Part 2. Codes in italics are discontinued but may still appear until WUPs are renewed.

P020	Augmentation for Environmental	P082	General Landscape Recreation	P130	Residential Single Family
P025	Aquifer Depletion Mitigation	P083	Golf Course Irrigation by Public Supply	P131	Residential Mobile Home
<i>P030</i>	<i>Commercial Non-Process</i>	<i>P090</i>	<i>Other Uses (Unmetered)</i>	P135	Temporary Employee Housing
P040	Commercial/Industrial	P100	Personal Sanitary Use	P140	Treatment Losses (Back-flushing)
P050	Desalination Reject	<i>P101</i>	<i>Potable Water for Institutions</i>	P150	Unaccounted Use
P060	Fire Fighting/Testing	P105	Regional Public Supply System	P160	Water Utility Use (Cleaning, Maint., Line Flushing)
P070	Lawn & Landscape Irrigation	P110*	Quantities Supplied by External Source	P170*	Reuse Water to Customers in Service Area
P075	Common Area Irrigation	P112	Quantities Sold or Provided to Another Utility	P175*	Reuse Water Supplied within Service Area
P080	Other Metered Uses	P115	Residential (Provided by Non-Utility)	P180*	Reuse Water to Customers outside Service Area
P081	Cooling	P120	Residential Multi-Family	P181	Line Flushing

* The uses P110, P170, P175, and P180 are excluded from the estimated water use query.

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TABLE A-2. This table presents information given by permittees on Part B of the PSAR form regarding the end use of water for specific use categories. The Gross Use is the same amount shown on Table A-1. The percentages for residential use are the proportion of water supplied to single family and multifamily dwellings units, mobile homes, and RV parks. The percentages for the specific use categories of industrial/commercial (I/C), agriculture (AG), landscape/recreation use excluding golf courses, (L/R), and golf course irrigation (GC). Percentages are also shown for the proportion used for fire systems and other quantified ancillary water needs (F&O). Any discrepancies between the amount of water leaving the treatment plant and the amount recorded at the customer meters are non-quantified water losses (WL). Such water losses may be the result of leaking pipelines, pipeline breaks, users tapping into supply lines illegally, and under-registering customer meters.

The quantities supplied for residences only are divided by the functional population to generate a residential per capita rate. The countywide residential per capita rates are used to estimate the domestic self-supply quantities in this report.

Table A-2. 2016 PSAR Use Type Percentages and Residential Per Capita

County	Water Use Permit Number	Permittee Name(s)	PSAR Rec. Y/N	(1) Gross Use (mgd)	(2) % RES	(3) % I/C	(4) % AG	(5) % L/R	(6) % GC	(7) % F&O	(8) % WL	(9) Residential Use (mgd)	(10) Population Served Functional	(11) Residential Per Capita	(12) I/C Use (mgd)	(13) AG Use (mgd)	(14) L/R Use (mgd)	(15) GC Use (mgd)	(16) F & O Use (mgd)	(17) WL Use (mgd)
Charlotte	718	Gasparilla Island	Y	1.108	75.9	12.8	0.0	0.0	0.0	1.4	9.8	0.841	6,096	138	0.142	0.000	0.000	0.000	0.016	0.109
Charlotte	871	City of Punta Gorda	Y	4.646	72.7	13.1	0.0	5.0	0.0	2.2	7.0	3.379	36,302	93	0.608	0.000	0.231	0.000	0.101	0.325
Charlotte	1512	Charlotte Harbor	Y	0.381	68.6	17.9	0.0	0.0	0.0	0.0	13.4	0.261	3,595	73	0.068	0.000	0.000	0.000	0.000	0.051
Charlotte	3522	Charlotte Co Utilities	Y	0.401	73.0	8.9	0.0	0.0	0.0	0.5	17.5	0.293	6,794	43	0.036	0.000	0.000	0.000	0.002	0.070
Charlotte	7104	Charlotte Co Utilities	Y	10.147	68.9	12.8	0.0	1.0	0.0	11.2	6.1	6.986	128,961	54	1.301	0.000	0.102	0.000	1.134	0.624
Charlotte County Totals				16.683	70.5	12.9	0.0	2.0	0.0	7.5	7.1	11.761	181,748	65	2.155	0.000	0.333	0.000	1.253	1.179
Citrus	207	City of Crystal River	Y	0.835	32.0	28.1	0.0	0.0	0.0	1.7	38.1	0.267	5,643	47	0.234	0.000	0.000	0.000	0.014	0.318
Citrus	419	City of Inverness	Y	0.991	55.2	37.6	0.0	0.0	0.0	0.0	7.2	0.547	9,520	57	0.373	0.000	0.000	0.000	0.000	0.071
Citrus	1118	Floral City Water	Y	0.333	66.1	16.4	1.6	0.3	0.0	2.7	13.0	0.220	5,077	43	0.055	0.005	0.001	0.000	0.009	0.043
Citrus	2842	Citrus County	Y	2.480	70.0	1.5	0.0	0.0	0.0	11.3	17.2	1.737	17,516	99	0.037	0.000	0.000	0.000	0.279	0.427
Citrus	4153	Rolling Oaks Utilities	Y	1.509	70.2	6.3	0.0	0.0	0.0	2.6	21.0	1.059	11,301	94	0.095	0.000	0.000	0.000	0.039	0.317
Citrus	4406	Homosassa Water D	Y	0.739	55.3	22.6	0.0	0.0	0.0	0.3	21.9	0.409	5,691	72	0.167	0.000	0.000	0.000	0.002	0.162
Citrus	6691	Gulf Highway Corp	Y	0.063	93.1	0.0	0.0	0.0	0.0	0.0	7.2	0.059	562	104	0.000	0.000	0.000	0.000	0.000	0.005
Citrus	7121	Citrus Co & WRWSA	Y	4.270	74.1	11.9	0.0	0.0	0.0	7.8	6.2	3.164	25,380	125	0.506	0.000	0.000	0.000	0.334	0.266
Citrus	9791	Citrus County	Y	2.375	81.8	1.6	0.0	0.0	0.0	16.3	0.2	1.944	11,217	173	0.039	0.000	0.000	0.000	0.387	0.005
Citrus	11839	Walden Woods	Y	0.147	76.6	0.0	0.0	3.8	0.0	1.2	18.1	0.113	1,021	110	0.000	0.000	0.006	0.000	0.002	0.027
Citrus	20230	Ozello Water Assoc	Y	0.387	58.7	28.8	2.8	0.0	0.0	4.3	5.5	0.227	4,886	46	0.112	0.011	0.000	0.000	0.017	0.021
Citrus County Totals				14.129	69.0	11.4	0.1	0.0	0.0	7.7	11.8	9.744	97,814	100	1.617	0.016	0.006	0.000	1.082	1.662

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Table A-2. 2016 PSAR Use Type Percentages and Residential Per Capita

County	Water Use Permit Number	Permittee Name(s)	PSAR Rec. Y/N	(1) Gross Use (mgd)	(2) % RES	(3) % I/C	(4) % AG	(5) % L/R	(6) % GC	(7) % F&O	(8) % WL	(9) Residential Use (mgd)	(10) Population Served Functional	(11) Residential Per Capita	(12) I/C Use (mgd)	(13) AG Use (mgd)	(14) L/R Use (mgd)	(15) GC Use (mgd)	(16) F & O Use (mgd)	(17) WL Use (mgd)
Desoto	4725	City of Arcadia	Y	0.843	78.5	8.9	0.0	0.0	0.0	1.0	11.6	0.662	10,039	66	0.075	0.000	0.000	0.000	0.009	0.098
Desoto	20457	DeSoto County Util	Y	0.651	21.9	12.3	0.0	0.0	0.0	0.0	65.8	0.143	5,186	27.49	0.080	0.000	0.000	0.000	0.000	0.428
Desoto County Totals				1.494	53.8	10.4	0.0	0.0	0.0	0.6	35.2	0.804	15,225	53	0.155	0.000	0.000	0.000	0.009	0.526
Hardee	30	City of Bowling Green	Y	0.191	85.5	9.9	0.0	0.0	0.0	1.3	3.4	0.163	4,618	35	0.019	0.000	0.000	0.000	0.002	0.007
Hardee	4461	City of Wauchula	Y	0.644	57.3	31.9	0.0	1.5	0.0	2.7	6.6	0.369	6,400	58	0.205	0.000	0.009	0.000	0.017	0.043
Hardee	7658	Town of Zolfo Springs	Y	0.148	59.3	27.5	0.0	0.0	0.0	3.9	9.5	0.088	2,493	35	0.041	0.000	0.000	0.000	0.006	0.014
Hardee	13026	Hardee County Util	Y	0.117	69.5	15.1	0.0	2.3	0.0	8.7	4.7	0.081	2,644	31	0.018	0.000	0.003	0.000	0.010	0.006
Hardee County Totals				1.100	63.8	25.7	0.0	1.1	0.0	3.2	6.2	0.702	16,155	43	0.282	0.000	0.012	0.000	0.036	0.069
Hernando	5789	Hernando Co Utilities	Y	17.937	75.9	10.1	0.0	0.0	0.0	4.1	9.8	13.623	141,263	96	1.820	0.000	0.000	0.000	0.729	1.765
Hernando	7627	City of Brooksville	Y	1.213	56.7	36.7	0.0	0.0	0.0	0.5	6.1	0.688	14,726	47	0.445	0.000	0.000	0.000	0.006	0.074
Hernando County Totals				19.150	74.7	11.8	0.0	0.0	0.0	3.8	9.6	14.311	155,989	92	2.265	0.000	0.000	0.000	0.735	1.839
Highlands	4167	HC Waterworks	Y	0.171	40.2	1.5	0.0	0.0	0.0	5.7	52.8	0.069	1,488	46	0.003	0.000	0.000	0.000	0.010	0.090
Highlands	4492	City of Sebring	Y	3.587	61.2	28.5	0.0	0.0	0.0	7.0	3.3	2.195	36,059	61	1.023	0.000	0.000	0.000	0.251	0.118
Highlands	4980	Lake Placid Hold Co	Y	0.282	79.8	4.4	0.0	0.0	0.0	8.6	7.5	0.225	4,340	52	0.012	0.000	0.000	0.000	0.024	0.021
Highlands	5270	Town of Lake Placid	Y	0.589	62.2	23.6	0.0	1.0	0.0	4.3	8.9	0.366	7,172	51	0.139	0.000	0.006	0.000	0.026	0.052
Highlands	6029	City of Avon Park	Y	1.832	54.6	11.3	2.3	0.0	0.0	7.2	24.5	1.000	21,995	45	0.208	0.043	0.000	0.000	0.132	0.450
Highlands	7139	Buttonwood Bay Util	Y	0.141	81.8	0.0	0.0	0.0	0.0	6.9	10.9	0.115	1,646	70	0.000	0.000	0.000	0.000	0.010	0.015
Highlands	9490	LP Utilities Corp	Y	0.042	45.3	17.4	0.0	0.0	0.0	3.1	32.9	0.019	733	26	0.007	0.000	0.000	0.000	0.001	0.014
Highlands	13099	Sun N Lake of Sebring	Y	0.610	63.6	28.5	0.0	3.0	0.0	3.6	1.2	0.388	7,376	53	0.174	0.000	0.018	0.000	0.022	0.008
Highlands County Totals				7.254	60.3	21.6	0.6	0.3	0.0	6.6	10.6	4.377	80,809	54	1.566	0.043	0.024	0.000	0.476	0.768
Hillsborough	450	City of Temple Terrace	Y	3.434	59.6	18.5	0.0	4.0	0.0	5.7	12.4	2.047	34,551	59	0.635	0.000	0.139	0.000	0.197	0.426
Hillsborough	1776	City of Plant City	Y	5.586	49.7	38.7	0.0	1.5	0.0	0.7	9.4	2.776	39,444	70	2.161	0.000	0.085	0.000	0.037	0.527
Hillsborough	2062	City of Tampa	Y	68.410	59.2	32.1	0.0	1.2	0.0	1.8	5.8	40.471	611,181	66	21.927	0.000	0.851	0.001	1.222	3.937
Hillsborough	2285	Davpam MHC	Y	0.122	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.122	1,167	104	0.000	0.000	0.000	0.000	0.000	0.000
Hillsborough	6879	The Meadows MHC	Y	0.198	98.5	0.0	0.0	0.0	0.0	1.0	0.5	0.195	2,018	96	0.000	0.000	0.000	0.000	0.002	0.001
Hillsborough	7637	Riverside Golf Course	Y	0.423	67.8	0.0	0.0	0.0	32.2	0.0	0.0	0.287	1,132	254	0.000	0.000	0.000	0.136	0.000	0.000
Hillsborough	7790	Paradise Village MHC	Y	0.063	92.4	0.0	0.0	0.0	0.0	0.0	8.0	0.058	1,355	43	0.000	0.000	0.000	0.000	0.000	0.005

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Table A-2. 2016 PSAR Use Type Percentages and Residential Per Capita

County	Water Use Permit Number	Permittee Name(s)	PSAR Rec. Y/N	(1) Gross Use (mgd)	(2) % RES	(3) % I/C	(4) % AG	(5) % L/R	(6) % GC	(7) % F&O	(8) % WL	(9) Residential Use (mgd)	(10) Population Served Functional	(11) Residential Per Capita	(12) I/C Use (mgd)	(13) AG Use (mgd)	(14) L/R Use (mgd)	(15) GC Use (mgd)	(16) F & O Use (mgd)	(17) WL Use (mgd)
Hillsborough	10443	Windemere Utility	Y	0.247	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.247	2,776	89	0.000	0.000	0.000	0.000	0.000	0.000
Hillsborough	20141	Hillsborough County	Y	56.957	80.2	11.8	0.0	0.0	0.0	1.3	6.7	45.670	595,348	77	6.720	0.000	0.000	0.000	0.724	3.843
Hillsborough County Totals				135.439	67.8	23.2	0.0	0.8	0.1	1.6	6.5	91.873	1,288,972	71	31.443	0.000	1.076	0.137	2.182	8.739
There was no significant public supply use in the SWFWMD portion of Lake County																				
Levy	5640	City of Williston	Y	0.470	44.1	45.3	0.0	0.0	0.0	2.4	8.2	0.207	3,223	64	0.213	0.000	0.000	0.000	0.012	0.039
Levy	7755	Town of Yankeetown	Y	0.073	39.8	12.4	0.0	0.4	0.0	17.4	30.3	0.029	856	34	0.009	0.000	0.000	0.000	0.013	0.022
Levy	8953	Town of Inglis	Y	0.113	63.8	16.5	0.0	0.0	0.0	0.4	19.7	0.072	1,632	44	0.019	0.000	0.000	0.000	0.000	0.022
Levy County Totals				0.656	47.0	36.7	0.0	0.0	0.0	3.8	12.7	0.308	5,711	54	0.240	0.000	0.000	0.000	0.025	0.083
Manatee	6392	City of Bradenton	Y	5.823	67.4	21.1	0.0	0.0	0.0	4.0	7.4	3.924	66,167	59	1.230	0.000	0.000	0.000	0.236	0.434
Manatee	10963	Town of Longboat Key	Y	1.650	93.1	6.5	0.0	0.0	0.0	0.1	0.2	1.536	18,108	85	0.107	0.000	0.000	0.000	0.002	0.004
Manatee	12443	City of Palmetto	Y	1.307	65.7	22.9	0.0	0.0	0.0	0.6	10.8	0.859	17,886	48	0.300	0.000	0.000	0.000	0.008	0.141
Manatee	13343	Manatee County Util	Y	31.461	69.0	21.1	0.0	0.0	0.0	1.2	8.7	21.719	341,928	64	6.624	0.000	0.000	0.000	0.383	2.736
Manatee County Totals				40.241	69.7	20.5	0.0	0.0	0.0	1.6	8.2	28.037	444,089	63	8.261	0.000	0.000	0.000	0.628	3.314
Marion	1156	Bay Laurel CDD	Y	2.657	87.8	2.5	0.0	5.2	0.0	0.7	3.8	2.333	11,276	207	0.065	0.000	0.139	0.000	0.018	0.102
Marion	2999	Marion Utilities Inc	Y	0.105	76.4	3.6	0.0	0.0	0.0	2.8	17.2	0.080	1,109	72	0.004	0.000	0.000	0.000	0.003	0.018
Marion	5643	Utilities Inc of FL	Y	0.160	83.2	15.5	0.0	0.0	0.0	0.1	1.2	0.133	1,000	133	0.025	0.000	0.000	0.000	0.000	0.002
Marion	6151	Marion Co Utilities	Y	4.952	78.7	11.0	0.0	0.0	0.0	0.7	9.7	3.895	35,618	109	0.543	0.000	0.000	0.000	0.032	0.481
Marion	6792	Sun Com Operating	Y	0.084	89.8	0.0	0.0	0.0	0.0	2.7	7.5	0.075	598	126	0.000	0.000	0.000	0.000	0.002	0.006
Marion	7849	Marion Utilities Inc	Y	0.133	80.2	2.9	0.0	0.0	0.0	4.9	12.0	0.106	1,078	99	0.004	0.000	0.000	0.000	0.007	0.016
Marion	8005	Century Fairfield	Y	0.056	81.4	0.0	0.0	4.5	0.0	0.0	14.1	0.046	475	96	0.000	0.000	0.003	0.000	0.000	0.008
Marion	8020	Marion Landing	Y	0.154	90.6	0.0	0.0	2.2	0.0	0.0	7.2	0.140	1,127	124	0.000	0.000	0.003	0.000	0.000	0.011
Marion	8339	City of Dunnellon	Y	0.947	38.0	6.1	0.0	1.5	0.0	2.2	52.1	0.360	6,458	56	0.058	0.000	0.014	0.000	0.021	0.494
Marion	8481	Spruce Creek Dev	Y	0.623	87.6	0.7	0.0	0.0	0.0	2.0	9.7	0.546	5,891	93	0.004	0.000	0.000	0.000	0.013	0.060
Marion County Totals				9.870	78.2	7.1	0.0	1.6	0.0	1.0	12.1	7.714	64,630	119	0.703	0.000	0.160	0.000	0.096	1.199
Pasco	279	Aqua Utilities FL Inc	Y	0.198	89.4	1.1	0.0	0.0	0.0	1.3	8.2	0.177	3,522	50	0.002	0.000	0.000	0.000	0.003	0.016
Pasco	540	Mad Hatter Utility	Y	0.866	76.8	15.6	0.0	0.0	0.0	0.7	6.9	0.666	8,337	80	0.135	0.000	0.000	0.000	0.006	0.060
Pasco	964	C S Water Co Inc	Y	0.079	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.079	939	84	0.000	0.000	0.000	0.000	0.000	0.000

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Table A-2. 2016 PSAR Use Type Percentages and Residential Per Capita

County	Water Use Permit Number	Permittee Name(s)	PSAR Rec. Y/N	(1) Gross Use (mgd)	(2) % RES	(3) % I/C	(4) % AG	(5) % L/R	(6) % GC	(7) % F&O	(8) % WL	(9) Residential Use (mgd)	(10) Population Served Functional	(11) Residential Per Capita	(12) I/C Use (mgd)	(13) AG Use (mgd)	(14) L/R Use (mgd)	(15) GC Use (mgd)	(16) F & O Use (mgd)	(17) WL Use (mgd)
Pasco	1631	City of Dade City	Y	1.342	61.7	19.7	0.0	0.0	0.0	0.0	18.5	0.828	12,304	67	0.265	0.000	0.000	0.000	0.000	0.249
Pasco	2043	Orangewood Lakes	Y	0.077	97.3	0.0	0.0	0.0	0.0	0.0	3.0	0.075	1,040	72	0.000	0.000	0.000	0.000	0.000	0.002
Pasco	2978	FGUA Gulf Harbor	Y	0.558	91.6	6.2	0.0	0.0	0.0	0.0	2.2	0.512	5,315	96	0.035	0.000	0.000	0.000	0.000	0.012
Pasco	3182	FGUA Seven Springs	Y	2.592	77.3	10.8	0.0	2.4	0.0	0.0	9.5	2.005	31,000	65	0.280	0.000	0.061	0.000	0.000	0.247
Pasco	3590	Utilities Inc of FL	Y	0.218	81.4	0.0	0.0	0.0	0.0	0.0	18.5	0.178	3,754	47	0.000	0.000	0.000	0.000	0.000	0.040
Pasco	3668	Utilities Inc of FL	Y	0.125	61.3	0.0	0.0	0.0	0.0	1.0	37.7	0.076	2,554	30	0.000	0.000	0.000	0.000	0.001	0.047
Pasco	3677	FGUA Colonial Manor	Y	0.089	84.5	3.6	0.0	0.0	0.0	0.7	11.3	0.075	1,612	47	0.003	0.000	0.000	0.000	0.001	0.010
Pasco	3692	City of Port Richey	Y	0.584	66.8	24.7	0.0	0.0	0.0	1.6	6.9	0.390	11,855	33	0.145	0.000	0.000	0.000	0.009	0.040
Pasco	4550	City of San Antonio	Y	0.136	78.5	10.3	1.0	0.0	0.0	1.4	8.7	0.107	2,216	48	0.014	0.001	0.000	0.000	0.002	0.012
Pasco	4669	Hudson Water Works	Y	0.626	62.0	12.4	0.0	0.0	0.0	9.6	16.0	0.388	7,910	49	0.078	0.000	0.000	0.000	0.060	0.100
Pasco	4734	City of New Port Richey	Y	3.221	80.3	14.3	0.0	0.0	0.0	0.9	4.5	2.587	33,500	77	0.460	0.000	0.000	0.000	0.030	0.144
Pasco	6040	City of Zephyrhills	Y	2.341	53.3	30.2	0.0	6.5	0.0	1.3	8.7	1.247	27,880	45	0.707	0.000	0.153	0.000	0.030	0.205
Pasco	7999	FGUA Angus Valley	Y	0.108	93.8	0.0	0.0	0.0	0.0	0.0	6.2	0.102	1,987	51	0.000	0.000	0.000	0.000	0.000	0.007
Pasco	8417	FGUA Aloha Gardens	Y	0.423	75.4	9.1	0.0	0.0	0.0	0.8	14.7	0.318	7,867	40	0.039	0.000	0.000	0.000	0.003	0.062
Pasco	11863	Pasco Co Utilities	Y	29.595	70.2	13.9	0.0	0.7	0.0	0.0	15.2	20.763	276,526	75	4.120	0.000	0.207	0.000	0.006	4.500
Pasco County Totals				43.180	70.8	14.5	0.0	1.0	0.0	0.3	13.3	30.572	440,118	69	6.281	0.001	0.422	0.000	0.151	5.753
Pinellas	742	City of Tarpon Springs	Y	3.032	59.5	26.4	0.0	4.0	0.0	0.1	9.9	1.804	33,736	53	0.801	0.000	0.123	0.000	0.002	0.302
Pinellas	2980	City of Dunedin	Y	3.473	70.8	19.4	0.0	0.2	0.0	0.0	9.6	2.458	43,537	56	0.673	0.000	0.007	0.000	0.000	0.333
Pinellas	2981	City of Clearwater	Y	10.688	64.2	24.1	0.0	0.0	0.0	4.1	7.6	6.864	141,828	48	2.578	0.000	0.000	0.000	0.439	0.808
Pinellas	7692	Town of Belleair	Y	0.762	81.8	11.3	0.0	2.8	0.0	1.3	2.7	0.624	5,463	114	0.086	0.000	0.022	0.000	0.010	0.021
Pinellas	10795	City of Gulfport	Y	0.975	78.9	11.1	0.0	0.0	0.0	1.9	8.1	0.769	14,528	53	0.108	0.000	0.000	0.000	0.018	0.079
Pinellas	11218	City of Oldsmar	Y	1.270	67.2	28.0	0.0	0.0	0.0	2.5	2.4	0.853	17,117	50	0.355	0.000	0.000	0.000	0.031	0.030
Pinellas	11245	City of Safety Harbor	Y	1.472	100	0	0	0	0	0	0	1.472	15,183	97	0.000	0.000	0.000	0.000	0.000	0.000
Pinellas	12351	City of Pinellas Park	Y	4.228	70.9	25.4	0.0	0.0	0.0	0.3	3.4	2.996	85,249	35	1.075	0.000	0.000	0.000	0.012	0.145
Pinellas	20142	Pinellas County	Y	38.113	70.6	17.9	0.0	0.0	0.0	2.3	9.2	26.901	501,192	54	6.807	0.000	0.000	0.000	0.886	3.518
Pinellas	20143	City of St Petersburg	Y	27.006	61.6	23.0	0.0	0.4	0.0	0.0	15.0	16.647	344,829	48	6.219	0.000	0.095	0.000	0.000	4.045
Pinellas County Totals				91.018	67.4	20.5	0.0	0.3	0.0	1.5	10.2	61.389	1,202,662	51	18.701	0.000	0.247	0.000	1.400	9.281

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Table A-2. 2016 PSAR Use Type Percentages and Residential Per Capita

County	Water Use Permit Number	Permittee Name(s)	PSAR Rec. Y/N	(1) Gross Use (mgd)	(2) % RES	(3) % I/C	(4) % AG	(5) % L/R	(6) % GC	(7) % F&O	(8) % WL	(9) Residential Use (mgd)	(10) Population Served Functional	(11) Residential Per Capita	(12) I/C Use (mgd)	(13) AG Use (mgd)	(14) L/R Use (mgd)	(15) GC Use (mgd)	(16) F & O Use (mgd)	(17) WL Use (mgd)
Polk	341	City of Bartow	Y	2.578	58.1	28.6	0.0	4.7	0.0	0.2	8.4	1.499	25,058	60	0.736	0.000	0.121	0.000	0.006	0.217
Polk	645	City of Fort Meade	Y	0.570	70.5	18.2	0.0	0.1	0.0	1.3	9.9	0.402	5,586	72	0.104	0.000	0.001	0.000	0.008	0.056
Polk	1625	Four Lakes Golf Club	Y	0.380	46.3	0.0	0.0	1.7	39.6	0.9	11.6	0.176	1,448	121	0.000	0.000	0.006	0.151	0.003	0.044
Polk	2332	Town of Lake Hamilton	Y	0.278	39.6	19.9	0.0	0.0	0.0	0.0	40.5	0.110	1,806	61	0.055	0.000	0.000	0.000	0.000	0.112
Polk	3415	Orchid Springs Dev	Y	0.064	93.7	2.0	0.0	0.0	0.0	0.9	3.3	0.060	929	65	0.001	0.000	0.000	0.000	0.001	0.002
Polk	4005	Crooked Lake Park	Y	0.218	72.6	18.7	0.0	0.0	0.0	2.3	6.4	0.158	2,584	61	0.041	0.000	0.000	0.000	0.005	0.014
Polk	4607	City of Winter Haven	Y	9.243	60.5	20.9	0.0	7.1	0.0	3.0	8.5	5.597	81,135	69	1.930	0.000	0.658	0.000	0.277	0.781
Polk	4658	City of Lake Wales	Y	2.455	66.7	15.3	0.0	2.5	0.0	5.7	9.8	1.638	21,632	76	0.377	0.000	0.060	0.000	0.139	0.241
Polk	4912	City of Lakeland	Y	20.537	62.5	26.1	0.0	2.0	0.2	0.6	8.6	12.829	173,842	74	5.358	0.000	0.413	0.037	0.126	1.776
Polk	5251	Grenelefe Resort	Y	1.808	32.4	0.0	0.0	0.0	65.2	0.0	2.4	0.586	2,715	216	0.000	0.000	0.000	1.178	0.000	0.043
Polk	5750	City of Davenport	Y	0.837	96.6	3.2	0.0	0.0	0.0	0.0	0.1	0.809	7,081	114	0.027	0.000	0.000	0.000	0.000	0.001
Polk	5870	City of Frostproof	Y	0.391	42.8	26.3	5.1	0.4	0.0	9.9	15.4	0.167	3,285	51	0.103	0.020	0.002	0.000	0.039	0.060
Polk	5893	Town of Dundee	Y	0.527	73.9	15.7	0.0	2.4	0.0	1.7	6.3	0.389	5,169	75	0.083	0.000	0.013	0.000	0.009	0.033
Polk	6124	City of Mulberry	Y	0.381	52.0	29.0	0.0	0.0	0.0	0.3	18.6	0.198	4,609	43	0.111	0.000	0.000	0.000	0.001	0.071
Polk	6174	Saddlebag Lake	Y	0.087	96.7	0.0	0.0	0.0	0.0	0.0	3.3	0.084	1,332	63	0.000	0.000	0.000	0.000	0.000	0.003
Polk	6505	Polk County Utilities	Y	2.504	90.9	4.8	0.0	0.5	0.0	1.1	2.7	2.278	31,844	72	0.120	0.000	0.013	0.000	0.027	0.066
Polk	6506	Polk County Utilities	Y	3.130	88.2	3.2	0.0	0.9	0.0	3.0	4.7	2.762	41,297	67	0.099	0.000	0.028	0.000	0.093	0.148
Polk	6507	Polk County Utilities	Y	1.007	84.3	7.6	0.0	1.5	0.0	4.4	2.1	0.850	13,983	61	0.077	0.000	0.016	0.000	0.045	0.021
Polk	6508	Polk County Utilities	Y	0.608	36.5	49.1	0.0	0.0	0.0	3.7	10.7	0.222	4,998	44	0.298	0.000	0.000	0.000	0.022	0.065
Polk	6509	Polk County Utilities	Y	6.828	88.3	6.6	0.0	0.7	0.0	2.7	1.7	6.028	71,289	85	0.451	0.000	0.050	0.000	0.184	0.115
Polk	6624	City of Lake Alfred	Y	1.080	70.9	14.0	0.0	1.2	0.0	5.1	8.7	0.766	8,323	92	0.151	0.000	0.013	0.000	0.055	0.094
Polk	6920	City of Eagle Lake	Y	0.342	65.2	14.5	0.0	1.4	0.0	11.4	7.5	0.223	3,577	62	0.050	0.000	0.005	0.000	0.039	0.026
Polk	7119	City of Auburndale	Y	4.746	52.1	33.3	0.0	11.1	0.0	0.2	3.3	2.475	28,834	86	1.579	0.000	0.529	0.000	0.009	0.154
Polk	7187	CHC Century Realty	Y	0.264	34.4	0.0	0.0	9.4	54.0	0.5	1.7	0.091	1,640	55	0.000	0.000	0.025	0.143	0.001	0.005
Polk	7328	Carefree RV	Y	0.104	55.8	0.0	0.0	0.0	44.3	0.0	0.0	0.058	979	59	0.000	0.000	0.000	0.046	0.000	0.000
Polk	7878	FGUA Aqua Utilities	Y	0.147	80.3	1.5	0.0	0.0	0.0	6.8	11.4	0.118	2,253	52	0.002	0.000	0.000	0.000	0.010	0.017
Polk	8054	Polk County Utilities	Y	0.429	72.4	2.5	0.0	0.0	0.0	22.9	2.2	0.311	6,546	47	0.011	0.000	0.000	0.000	0.098	0.010
Polk	8344	S V Utilities Ltd	Y	0.143	70.5	0.0	0.0	13.7	0.0	1.7	14.1	0.100	1,379	73	0.000	0.000	0.020	0.000	0.002	0.020

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Table A-2. 2016 PSAR Use Type Percentages and Residential Per Capita

County	Water Use Permit Number	Permittee Name(s)	PSAR Rec. Y/N	(1) Gross Use (mgd)	(2) % RES	(3) % I/C	(4) % AG	(5) % L/R	(6) % GC	(7) % F&O	(8) % WL	(9) Residential Use (mgd)	(10) Population Served (Functional)	(11) Residential Per Capita	(12) I/C Use (mgd)	(13) AG Use (mgd)	(14) L/R Use (mgd)	(15) GC Use (mgd)	(16) F & O Use (mgd)	(17) WL Use (mgd)
Polk	8468	City of Polk City	Y	0.359	71.7	4.7	0.0	0.0	0.0	0.0	23.6	0.257	6,550	39	0.017	0.000	0.000	0.000	0.000	0.085
Polk	8522	City of Haines City	Y	4.535	68.0	13.5	0.0	5.0	0.0	0.1	13.5	3.084	32,506	95	0.610	0.000	0.225	0.000	0.003	0.613
Polk	8967	Sweetwater Com	Y	0.120	75.8	0.0	0.0	0.0	24.2	0.0	0.0	0.091	698	130	0.000	0.000	0.000	0.029	0.000	0.000
Polk	13043	Cypress Lakes Util	Y	0.176	72.6	0.0	0.0	1.0	0.0	3.0	23.4	0.128	2,848	45	0.000	0.000	0.002	0.000	0.005	0.041
Polk County Totals				66.878	66.6	18.5	0.0	3.3	2.4	1.8	7.4	44.543	597,755	75	12.391	0.020	2.198	1.583	1.208	4.934
Sarasota	2923	City of North Port	Y	2.957	63.7	10.9	0.0	0.0	0.0	1.8	23.6	1.884	49,450	38	0.324	0.000	0.000	0.000	0.053	0.697
Sarasota	4318, 10224, 10225	City of Sarasota	Y	6.253	57.3	35.0	0.0	0.2	0.0	0.7	6.8	3.580	79,765	45	2.188	0.000	0.013	0.000	0.044	0.428
Sarasota	4866	Englewood Water District	Y	2.542	84.8	13.2	0.0	0.5	0.0	0.0	1.5	2.155	38,265	56	0.336	0.000	0.012	0.000	0.000	0.039
Sarasota	5393	City of Venice	Y	2.183	62.3	30.2	0.0	0.0	0.0	0.0	7.5	1.359	34,778	39	0.660	0.000	0.000	0.000	0.000	0.164
Sarasota	5807	Camelot Communities	N	0.343	NA	NA	NA	NA	NA	NA	NA	0.000	1,829	0	0.000	0.000	0.000	0.000	0.000	0.000
Sarasota	7448	SNF Property LLC	Y	0.076	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.076	1,254	61	0.000	0.000	0.000	0.000	0.000	0.000
Sarasota	8836	Sarasota County	Y	18.454	72.5	17.6	0.0	0.0	0.0	0.0	9.9	13.376	226,601	59	3.252	0.000	0.000	0.000	0.000	1.826
Sarasota County Totals				32.808	68.4	20.6	0.0	0.1	0.0	0.3	9.6	22.430	431,942	52	6.759	0.000	0.025	0.000	0.097	3.154
Sumter	1368	Lake Panasoffkee Water Association	Y	0.249	77.7	11.3	0.0	0.0	0.0	1.8	9.2	0.194	3,871	50	0.028	0.000	0.000	0.000	0.005	0.023
Sumter	6519	City of Bushnell	Y	0.452	22.3	65.6	0.0	0.0	0.0	6.7	5.4	0.101	2,749	37	0.297	0.000	0.000	0.000	0.030	0.024
Sumter	7185	City of Webster	Y	0.085	53.3	40.6	0.0	0.0	0.0	0.2	5.9	0.045	1,370	33	0.034	0.000	0.000	0.000	0.000	0.005
Sumter	8135	City of Wildwood	Y	2.106	30.3	58.5	0.0	0.0	0.0	3.5	6.0	0.639	20,194	32	1.233	0.000	0.000	0.000	0.073	0.127
Sumter	8193	City of Center Hill	Y	0.067	75.5	14.7	0.0	0.0	0.0	0.0	9.8	0.051	1,057	48	0.010	0.000	0.000	0.000	0.000	0.007
Sumter	13005	Village Center CDD	Y	25.084	77.8	2.8	0.0	18.0	0.0	1.0	0.4	19.503	84,083	232	0.692	0.000	4.525	0.000	0.256	0.108
Sumter	20457	Wildwood CCC	Y	0.137	104.6	0.0	0.0	0.0	0.0	0.0	0.0	0.143	2,405	59	0.000	0.000	0.000	0.000	0.000	0.000
Sumter County totals				28.179	73.4	8.1	0.0	16.1	0.0	1.3	1.0	20.675	115,729	179	2.294	0.000	4.525	0.000	0.363	0.294
Northern Planning Region				71.984	73.3	9.9	0.0	6.5	0.0	3.2	7.1	52.752	439,873	120	7.119	0.016	4.691	0.000	2.301	5.077
Tampa Bay Planning Region				269.636	68.2	20.9	0.0	0.6	0.1	1.4	8.8	183.834	2,931,752	63	56.425	0.001	1.744	0.137	3.732	23.772
Southern Planning Region				91.225	69.1	19.0	0.0	0.4	0.0	2.2	9.0	63.032	1,073,004	59	17.330	0.000	0.358	0.000	1.987	8.173
Heartland Planning Region				75.231	66.0	18.9	0.1	3.0	2.1	2.3	7.7	49.621	694,719	71	14.240	0.063	2.234	1.583	1.719	5.771
District Totals & Averages				508.075	68.3	18.7	0.0	1.8	0.3	1.9	8.4	349.239	5,139,348	68	95.115	0.081	9.027	1.720	9.740	42.793

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Table A-2 NOTES:

The totals for Gross Use, Population Served, and Gross Per Capita listed in Table A-2 may not match those listed in Table A-1 because not all the same permittees are listed in Table A-2. Table A-2 excludes water supply authorities that only export water wholesale to other public supply utilities, and may exclude new inactive permittees that have never submitted Part B of the PSAR form.

- ¹ Gross Use is taken directly from Table A-1 and represents the total amount of water withdrawn plus imports minus exports and treatment loss.
- ² Percent of water supplied that is used for residential purposes only.
- ³ Percent of water supplied that is used for industrial/commercial purposes only.
- ⁴ Percent of water supplied that is used for agricultural purposes only.
- ⁵ Percent of water supplied that is used for landscape/recreation purposes only.
- ⁶ Percent of water supplied that is used for golf course irrigation only.
- ⁷ Percent of water supplied that is used for firefighting, line flushing, and other accountable (F&O) purposes only.
- ⁸ Percent of water supplied that is considered lost or unaccounted for due to system leaks, illegal connections, etc.
- ⁹ Residential Use = (Gross Use) X (% Residential). This number represents the total amount of water that is used for residential purposes only.
- ¹⁰ Population Served is taken directly from Table A-1, column 11, and represents the served population for the permittee listed.
- ¹¹ (Residential per capita = (residential water use) / (population served). This number represents the average quantity of water used per person per day for residential purposes only.
- ¹² I/C Use (Industrial/Commercial Water Use) = (Gross Use) X (% I/C). This number represents the amount of Public Supply water that is used for Industrial/Commercial purposes only.
- ¹³ AG Use (Agriculture Use) = (Gross Use) X (% AG). This number represents the amount of Public Supply water that is used for Agriculture purposes only.
- ¹⁴ L/R Use (Landscape/Recreation Use) = (Gross Use) X (% REC/AES). This number represents the amount of Public Supply water that is used for Recreational purposes only.
- ¹⁵ GC Use (Golf Course Use) = (Gross Use) X (% GC). This number represents the amount of Public Supply water that is used for Golf Course purposes only.
- ¹⁶ F & O Use (Fire and Other) = (Gross Use) X (% F&O). This number represents the amount of Public Supply Water that is used for Fire Supply and Other purposes only.
- ¹⁷ WL (Water Loss) = (Gross Use) X (% WL). This number represents the amount of water that is lost or unaccounted for each day by the permittee listed.

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Table A-3. This table shows the transfers of water between public supply permittees in the District, as well as to some communities outside of the District. The chart is sorted by county and WUP into which water is imported. Regional withdrawals by Tampa Bay Water are shown as imports to the authority's consolidated regional system.

Table A-3. 2016 PSAR Utility Permit-to-Permit Water Transfers

Import Details (Sorted by Destination)				Exporter Details			
Importing County	Importing WUP #	Importer Permittee Name	Imported Quantity (mgd)	Exporting County	Exporting WUP #	Exporter Permittee Name	Exported Quantity (mgd)
Charlotte	718	Gasparilla Island	0.105	Charlotte	7104	Charlotte County Utilities	0.058
Charlotte	871	City of Punta Gorda	0.364	DeSoto	12926	PRMRWSA	0.363
Charlotte	1512	Charlotte Harbor Water	0.001	Charlotte	7104	Charlotte County Utilities	0.001
Charlotte	7104	Charlotte County Utilities	0.013	Sarasota	2923	City of North Port	0.013
Charlotte	7104	Charlotte County Utilities	10.666	DeSoto	10420	PRMRWSA	10.702
Charlotte	99913	El Jobean Water Association	0.065	Charlotte	7104	Charlotte County Utilities	0.065
Charlotte	99916	Riverwood Development, Inc.	0.131	Charlotte	7104	Charlotte County Utilities	0.131
Charlotte	NA	Encore Super Park	0.035	Charlotte	7104	Charlotte County Utilities	0.035
Total Charlotte County Imports:			11.379	Total Exports to/within Charlotte County			11.368
Citrus	207	City of Crystal River	0.002	Citrus	7121	Citrus County, Charles A Black Wellfield	0.002
Citrus	20230	Ozello Water Association, Inc.	0.389	Citrus	7121	Citrus County, Charles A Black Wellfield	0.388
Total Citrus County Imports:			0.391	Total Exports within Citrus County			.390
DeSoto	12926	PRMRWSA	0.305	Charlotte	871	City of Punta Gorda	0.332
DeSoto	20457	DeSoto County Utilities	0.546	DeSoto	12926	PRMRWSA	0.651
Total Desoto County Imports:			0.851	Total Exports to Desoto County			0.983
Hillsborough	1776	City of Plant City	0.004	Polk	4912	City of Lakeland	0.003
Hillsborough	20141	Hillsborough County Wholesale	0.038	Hillsborough	1776	City of Plant City	0.040
Hillsborough	20141	Hillsborough County Wholesale	1.347	Hillsborough	2062	City of Tampa	1.284
Hillsborough	20141	Hillsborough County Wholesale	55.539	Hillsborough	Multiple	Tampa Bay Water	55.539
Hillsborough	20141	Hillsborough County Wholesale	0.010	Hillsborough	450	City of Temple Terrace	0.010
Hillsborough	Consolidated	Tampa Bay Water	1.208	Hillsborough	2062	City of Tampa	1.208
Total Hillsborough County Imports:			58.146	Total Exports to/within Hillsborough County			58.084
Levy	7755	Town of Yankeetown	0.001	Levy	8953	Town of Inglis	0.001
Levy	8953	Town of Inglis	0.0002	Levy	7755	Town of Yankeetown	0.0002

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Table A-3. 2016 PSAR Utility Permit-to-Permit Water Transfers

Import Details (Sorted by Destination)				Exporter Details			
Importing County	Importing WUP #	Importer Permittee Name	Imported Quantity (mgd)	Exporting County	Exporting WUP #	Exporter Permittee Name	Exported Quantity (mgd)
Total Levy County Imports:			0.001	Total Exports within Levy County			0.001
Manatee	6392	City of Bradenton	0.216	Manatee	13343	Manatee County Utilities	0.207
Manatee	10963	Town of Longboat Key	1.650	Manatee	13343	Manatee County Utilities	1.645
Manatee	12443	City of Palmetto	1.321	Manatee	13343	Manatee County Utilities	1.432
Manatee	13343	Manatee County Utilities	0.009	Sarasota	6392	City of Bradenton	0.009
Total Manatee County Imports:			3.196	Total Exports to/within Manatee County			3.293
Pasco	2978	FGUA Gulf Harbor	0.007	Pasco	4734	City of New Port Richey	0.007
Pasco	3182	FGUA Seven Springs	0.272	Pasco	11863	Pasco County Utilities	0.256
Pasco	3677	FGUA Colonial Manor	0.096	Pasco	11863	Pasco County Utilities	0.092
Pasco	3692	City of Port Richey	0.259	Pasco	4734	City of New Port Richey	0.295
Pasco	4734	City of New Port Richey	5.070	Hillsborough, Pasco, Pinellas	Consolidated	Tampa Bay Water	5.070
Pasco	4734	City of New Port Richey	0.040	Pasco	TBW	Tampa Bay Water	0.040
Pasco	6223	Paradise Lakes Utilities	0.006	Pasco	11863	Pasco County Utilities	0.006
Pasco	7745	FGUA-Virginia City	0.002	Pasco	11863	Pasco County Utilities	0.002
Pasco	8417	FGUA Aloha Gardens	0.352	Pasco	11863	Pasco County Utilities	0.354
Pasco	11473	Aripeka West Utility	0.007	Pasco	11863	Pasco County Utilities	0.007
Pasco	11863	Pasco County Utilities	26.905	Hillsborough, Pasco, Pinellas	Consolidated	Tampa Bay Water	26.905
Pasco	11863	Pasco County Utilities	0.009	Pasco	6040	City of Zephyrhills	0.009
Pasco	99906	Arbor Oaks	0.008	Pasco	11863	Pasco County Utilities	0.008
Pasco	999915	Orchid Lake Utility	0.020	Pasco	11863	Pasco County Utilities	0.020
Pasco	NA	FGUA- Palm Terrace	0.160	Pasco	11863	Pasco County Utilities	0.160
Pasco	TBW	Tampa Bay Water	1.980	Pasco	4734	City of New Port Richey	1.980
Total Pasco County Imports:			35.195	Total Exports to/within Pasco County			35.211
Pinellas	742	City of Tarpon Springs	0.055	Pinellas	20142	Pinellas County Utilities	0.055
Pinellas	2981	City of Clearwater	4.211	Pinellas	20142	Pinellas County Utilities	4.186
Pinellas	7692	Town of Belleair	0.001	Pinellas	20142	Pinellas County Utilities	0.001

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Table A-3. 2016 PSAR Utility Permit-to-Permit Water Transfers

Import Details (Sorted by Destination)				Exporter Details			
Importing County	Importing WUP #	Importer Permittee Name	Imported Quantity (mgd)	Exporting County	Exporting WUP #	Exporter Permittee Name	Exported Quantity (mgd)
Pinellas	10795	City of Gulfport	0.975	Pinellas	20143	City of St. Petersburg	0.970
Pinellas	11218	City of Oldsmar	0.006	Pinellas	20142	Pinellas County Utilities	0.006
Pinellas	11245	City of Safety Harbor	1.472	Pinellas	20142	Pinellas County Utilities	1.468
Pinellas	12351	City of Pinellas Park	4.228	Pinellas	20142	Pinellas County Utilities	4.307
Pinellas	20142	Pinellas County Utilities	49.237	Hillsborough, Pasco, Pinellas	Consolidated	Tampa Bay Water	49.237
Pinellas	20142	Pinellas County Utilities	0.005	Pinellas	20143	City of St. Petersburg	0.005
Pinellas	20143	City of St. Petersburg	28.551	Hillsborough, Pasco, Pinellas	Consolidated	Tampa Bay Water	28.551
Pinellas	NA	FGUA	0.047	Pinellas	742	City of Tarpon Springs	0.047
Total Pinellas County Imports:			88.787	Total Exports to/within Pinellas County			88.832
Polk	3415	Orchid Springs Development Corp.	0.00024	Polk	4607	City of Winter Haven	0.00024
Polk	4607	City of Winter Haven	0.001	Polk	4658	City of Lake Wales	0.001
Polk	4658	City of Lake Wales	0.00001	Polk	NA	Unknown	0.00001
Polk	4658	City of Lake Wales	0.001	Polk	8054	Polk County Utilities	0.001
Polk	6505	Polk County Utilities	0.149	Polk	4912	City of Lakeland	0.205
Polk	6509	Polk County Utilities-NERUSA	0.001	Osceola	49-00103-W	Toho Water Authority (SFWMD)	0.001
Polk	6509	Polk County Utilities-NERUSA	1.982	Polk	53-00126-W	Polk County Utilities (SFWMD)	1.982
Polk	6624	City of Lake Alfred	0.001	Polk	4607	City of Winter Haven	0.001
Polk	6624	City of Lake Alfred	0.010	Polk	7119	City of Auburndale	0.010
Polk	8054	Polk County Utilities	0.000	Polk	4658	City of Lake Wales	0.000
Polk	20141	Ovation Utility Service Area	0.008	Polk	6509	Polk County Utilities-NERUSA	0.008
Osceola	49-00103-W	Toho Water Authority (SFWMD)	0.000	Polk	6509	Polk County Utilities-NERUSA	0.000
Polk	NA	FGUA - Village Water Industrial Park	0.082	Polk	4912	City of Lakeland	0.082
Polk		Unknown	0.062	Polk	8522	City of Haines City	0.062
Total Polk County Imports:			2.296	Total Exports to/within Polk County			2.353
Sarasota	2923	City of North Port	1.110	DeSoto	10420	PRMRWSA	1.109
Sarasota	99914	Pluris/Southgate Utilities	0.827	Sarasota	8836/12926	Sarasota County Utilities	0.827

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Table A-3. 2016 PSAR Utility Permit-to-Permit Water Transfers

Import Details (Sorted by Destination)				Exporter Details			
Importing County	Importing WUP #	Importer Permittee Name	Imported Quantity (mgd)	Exporting County	Exporting WUP #	Exporter Permittee Name	Exported Quantity (mgd)
Sarasota	8836/12926	Sarasota County Utilities	0.027	Sarasota	2923	City of North Port	0.027
Sarasota	8836/12926	Sarasota County Utilities	4.413	Manatee	13343/7345	Manatee County Utilities	4.426
Sarasota	8836/12926	Sarasota County Utilities	13.355	DeSoto	10420	PRMRWSA	13.355
Sarasota	PWS-6084079	Bocilla Utilities	0.143	Sarasota	4866	Englewood Water District	0.143
Total Sarasota County Imports:			19.876	Total Exports to/within Sarasota County			19.888
Total District Imports:			220.118	Total District Exports:			220.403

Data Source: Public Supply Annual Reports.

Notes: Some discrepancies occur between imports and exports reported by separate utilities. Discrepancies can be caused by transfer water losses, meter accuracy, unresolved reporting errors, or other reasons. Quantities exported by regional water supply authorities may be blended from multiple sources, so their withdrawals were considered imports to a generalized regional system, and exports from the regional system. Some discrepancies also occur in summations due to rounding of raw data.

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Table A-4. 2016 Metered + Estimated Public Supply Monthly Average Withdrawals (mgd/month) by County

County	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
*Charlotte	6.334	6.362	7.546	7.816	6.096	4.670	5.895	9.511	9.744	9.468	2.776	13.669
Citrus	12.277	12.651	14.189	15.109	16.475	15.540	17.181	14.438	14.009	15.555	16.601	12.585
Desoto	25.491	18.518	16.042	17.717	0.875	31.908	58.461	39.386	26.373	31.759	30.539	7.639
Hardee	1.450	1.443	1.516	1.563	1.529	1.439	1.207	1.183	1.646	1.426	1.309	1.308
Hernando	16.832	17.154	18.922	20.077	21.569	20.272	20.181	18.801	18.174	19.757	21.755	19.660
*Highlands	6.427	7.020	7.405	7.444	7.940	7.085	7.179	7.840	7.619	7.987	8.499	8.320
Hillsborough	186.228	188.162	184.882	144.378	155.836	128.627	218.758	304.252	189.991	193.112	199.743	186.639
*Lake	0	0	0	0	0	0	0	0	0	0	0	0
*Levy	0.676	0.677	0.671	0.681	0.734	0.735	0.780	0.605	0.314	0.539	1.333	0.708
Manatee	42.878	44.172	48.969	23.611	49.473	46.086	47.632	42.283	42.457	51.039	49.787	28.009
*Marion	7.362	7.708	9.371	10.742	11.918	11.601	13.326	10.186	10.147	11.041	11.717	10.049
Pasco	54.660	60.465	67.468	71.636	65.451	64.590	64.324	52.157	56.778	69.501	66.668	57.680
Pinellas	22.334	24.129	26.210	25.757	24.503	29.701	27.658	33.436	30.457	28.064	28.447	20.805
*Polk	59.350	60.749	66.144	69.349	71.640	65.640	68.651	65.943	63.132	65.509	73.355	68.099
Sarasota	18.892	21.765	23.122	20.294	20.017	17.825	20.457	18.128	18.531	20.535	21.712	20.594
Sumter	12.447	11.013	13.866	21.578	25.150	24.684	24.484	21.751	15.574	22.031	29.239	24.785
District Total	473.638	481.988	506.323	457.752	479.206	470.403	596.174	639.900	504.946	547.323	563.480	480.549
Groundwater	293.903	300.409	330.956	345.654	344.024	325.214	338.663	308.972	295.535	324.535	368.007	325.296
Surface Water	179.734	181.581	175.366	112.099	135.180	145.188	257.510	330.927	209.410	222.787	195.473	155.252

* Data is only from the portion of the county within the District.

Data source: Estimated Water Use Tables derived from the WMIS database.

The average of monthly withdrawal totals may vary from PSAR-based annual withdrawal estimates. The WMIS records for TBW Consolidated Wellfield (WUP 11771) was manually adjusted so withdrawals are represented on the county where they occurred. Seawater desalination and stormwater uses were not included in calculation.

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Table A-5. 2016 Permitted and Withdrawn Quantities (mgd) on Metered Landscape/Recreation WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to L/R Use Category ⁴
Charlotte	2588	Kelly Family Holdings LLC	R320	G	0.239	0.705	0.197
Charlotte	3523	Twin Isles Country Club	R250	G	0.000	0.256	0.256
Charlotte	6709	Port Charlotte Golf Course, LLC	R250	S	0.001	0.060	0.060
Charlotte	7602	St. Andrews South Golf Club, Inc	R250	G	0.016	0.144	0.144
Charlotte	7815	Deep Creek Golf, Inc	R250	G	0.030	0.195	0.195
Charlotte	9223	Kingsgate Associates II, Ltd	R250	G	0.077	0.145	0.145
Charlotte	9335	Rotonda Golf Partners LLC	R250	S	0.059	0.190	0.190
Charlotte	10006	Seminole Lakes Inc	R250	G	0.047	0.142	0.142
Charlotte	10169	CH3-Riverwood Golf Club LLC	R250	S	0.162	0.247	0.247
Charlotte	10932	Rotonda Golf Partners LLC	R250	S	0.031	0.237	0.237
Charlotte	10959	M Lewis Hall Protective Trust	R240	G	0.001	0.203	0.068
Charlotte	11687	Rotonda Golf Partners LI LLC	R250	S	0.181	0.078	0.078
Charlotte	11979	Community Blue Heron Pines Joint Venture	R250	G	0.018	0.094	0.094
Charlotte	11979	Community Blue Heron Pines Joint Venture	R250	S	0.025	0.094	0.094
Charlotte	11997	CCC Dr LLC	R250	S	0.000	0.184	0.184
Charlotte	12309	Charlotte County Community Services Department	R245	G	0.018	0.029	0.029
Charlotte	12335	Rotonda Golf Partners LLC	R250	S	0.208	0.229	0.229
Charlotte	12543	Charlotte Co BOCC	R245	G	0.045	0.090	0.090
Charlotte	12586	Tern Bay CDD	R250	G	0.000	0.445	0.445
Charlotte	12586	Tern Bay CDD	R250	S	0.000	0.445	0.445
Charlotte	12907	River Club of Port Charlotte HOA	R240	G	0.064	0.114	0.114
Charlotte	12969	Rotonda Golf Partners LLC	R250	S	0.134	0.129	0.129
Charlotte County Totals					1.354	Metered, mgd	
					0.404	Estimated, mgd, 20 WUPs	
					1.758	Total, mgd	
Citrus	419	City of Inverness	R245	G	0.017	1.535	0.025
Citrus	2851	Seven Rivers Golf & Country Club Inc	R250	G	0.102	0.214	0.214

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Table A-5. 2016 Permitted and Withdrawn Quantities (mgd) on Metered Landscape/Recreation WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to L/R Use Category ⁴
Citrus	2851	Seven Rivers Golf & Country Club Inc	R250	S	0.000	0.214	0.214
Citrus	3228	Citrus Hills Investment Prop Inc	R250	G	0.479	0.614	0.614
Citrus	3673	Flovicc & Company, Inc	R250	G	0.372	0.456	0.456
Citrus	7805	Hampton Hills, LLC	R250	G	1.150	1.148	1.148
Citrus	8785	Escalanta-Black Diamond Golf Club LLC	R250	G	0.579	0.557	0.557
Citrus	8785	Escalanta-Black Diamond Golf Club LLC	R250	S	0.000	0.557	0.557
Citrus	8970	Scout Plantation Owner LLC	R250	G	0.022	0.400	0.400
Citrus	8970	Scout Plantation Owner LLC	R250	S	0.149	0.400	0.400
Citrus	8997	Inverness Golf & Country Club	R250	G	0.148	0.049	0.049
Citrus	9574	Twisted Oaks Golf Course LLC	R250	G	0.226	0.322	0.322
Citrus	10260	Brassboys Enterprises Inc	R250	G	0.158	0.207	0.207
Citrus	10404	Flovicc & Company, Inc.	R250	G	0.206	0.262	0.262
Citrus	13103	Deltona Corporation	R250	G	0.000	0.279	0.279
Citrus County Totals					3.607	Metered, mgd	
					0.392	Estimated, mgd, 21 WUPs	
					3.999	Total, mgd	
DeSoto	2746	Sunnybreeze Palms Golf Course, Inc	R250	G	0.074	0.199	0.199
DeSoto	6697	Kingsway Club	R250	G	0.000	0.039	0.039
DeSoto	11261	Peace River Development Corp	R406	G	0.000	0.665	0.020
DeSoto	11261	Owens Enterprises, Inc	R406	G	0.000	0.001	0.001
DeSoto County Totals					0.074	Metered, mgd	
					0.151	Estimated, mgd, 9 WUPs	
					0.225	Total, mgd	
Hardee	11858	FINR II, Inc	R240	G	0.000	0.431	0.009
Hardee County Totals					0.000	Metered, mgd	
					0.109	Estimated, mgd, 13 WUPs	
					0.109	Total, mgd	

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Table A-5. 2016 Permitted and Withdrawn Quantities (mgd) on Metered Landscape/Recreation WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to L/R Use Category ⁴
Hernando	368	The Heather Greens, LLC	R250	G	0.041	0.060	0.060
Hernando	2982	Brookridge Country Club	R240	G	0.236	0.281	0.281
Hernando	3726	High Point Golf Club, Inc	R250	G	0.115	0.149	0.149
Hernando	4893	Weekie Wachee Springs	R310	G	0.031	0.136	0.136
Hernando	6592	Lemkco Florida Inc	R250	G	0.000	0.190	0.190
Hernando	6873	Brooksville Golf & Country Club	R250	G	0.190	0.206	0.206
Hernando	7852	Ridge Manor Oaks LLC	R250	G	0.058	0.186	0.186
Hernando	8124	Oak Hills Golf Course	R250	G	0.089	0.300	0.300
Hernando	8639	Timber Pines Community Assoc Inc	R240	G	0.025	0.020	0.020
Hernando	8639	Timber Pines Community Assoc Inc	R240	S	0.000	0.020	0.020
Hernando	8833	New Seville 2011Dev LLC	R250	G	0.000	0.338	0.338
Hernando	9060	Lemkco Florida Inc	R250	G	0.250	0.285	0.285
Hernando	9344	Glen Lakes Partnership Inc	R250	G	0.098	0.238	0.238
Hernando	10199	Triple Eagle Group Inc	R250	G	0.238	0.360	0.360
Hernando	10760	Rivard Golf Club	R250	G	0.019	0.194	0.194
Hernando	11059	Glen Lakes Partnership Inc	R240	G	0.281	0.402	0.402
Hernando	12233	BBX Partners Inc	R250	G	0.010	0.307	0.307
Hernando	12517	Silverthorn LLC	R250	G	0.301	0.422	0.422
Hernando	12545	Southern Hills Irrigation Services LLC	R250	G	0.057	0.098	0.098
Hernando	13279	World Woods Corp	R250	G	0.765	0.782	0.782
Hernando	13279	World Woods Corp	R250	S	0.809	0.782	0.782
Hernando County Totals					3.612	Metered, mgd	
					0.261	Estimated, mgd, 22 WUPs	
					3.873	Total, mgd	
Highlands	4637	Harder Hall Golf Club	R250	G	0.164	0.208	0.208
Highlands	4708	Sun'n Lake of Sebring Improvement District	R250	G	0.651	0.543	0.543
Highlands	5107	City of Sebring	R250	G	0.132	0.130	0.130

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Table A-5. 2016 Permitted and Withdrawn Quantities (mgd) on Metered Landscape/Recreation WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to L/R Use Category ⁴
Highlands	5646	Pinecrest On Lotela Inc	R250	G	0.206	0.200	0.200
Highlands	6498	River Greens South Golf Course, Inc	R250	G	0.158	0.196	0.196
Highlands	7811	Mink Associates I LLC	R250	G	0.075	0.142	0.142
Highlands	8327	Laman Land Development LLC	R250	G	0.151	0.225	0.225
Highlands	9140	Sebring 365, LLC	R250	G	0.000	0.316	0.147
Highlands	9626	J & P Golf Properties LLC	R250	G	0.013	0.329	0.329
Highlands	12265	CCS Golf Club Inc	R250	G	0.258	0.224	0.224
Highlands County Totals					1.808	Metered, mgd	
					0.352	Estimated, mgd, 35 WUPs	
					2.160	Total, mgd	
Hillsborough	192	Gracepoint Plant City	R240	G	0.001	0.018	0.003
Hillsborough	354	Pinellas County Environment & Infrastructure	R220	G	0.000	0.325	0.325
Hillsborough	620	Nittany Trails LLC	R250	G	0.170	0.287	0.287
Hillsborough	689	School Board of Hillsborough County	R245	G	0.032	0.150	0.064
Hillsborough	707	Clublink US Corporation	R250	G	0.000	0.119	0.119
Hillsborough	985	Diehl Family LP	R240	G	0.001	2.725	0.001
Hillsborough	1098	Garden of Memories, Inc	R230	G	0.363	0.506	0.506
Hillsborough	1532	Mosaic Fertilizer, LLC	R310	G	0.000	5.985	0.015
Hillsborough	1532	Mosaic Fertilizer, LLC	R310	S	0.006	5.985	0.015
Hillsborough	1640	Bahia Lakes CDD	R240	G	0.021	0.143	0.143
Hillsborough	1857	Hillsborough County School Board	R240	G	0.005	0.082	0.082
Hillsborough	1946	Hillsborough County Associates II LLLP	R244	G	0.000	0.346	0.346
Hillsborough	1946	Hillsborough County Associates II LLLP	R244	S	0.186	0.346	0.346
Hillsborough	1960	University of South Florida	R245	G	0.725	2.364	0.954
Hillsborough	1960	University of South Florida	R245	S	0.004	2.364	0.954
Hillsborough	2320	SeaWorld Parks & Ent LLC	R300	G	1.417	1.810	1.810
Hillsborough	2639	Concert Carrollwood LLC	R250	G	0.000	0.089	0.089

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Table A-5. 2016 Permitted and Withdrawn Quantities (mgd) on Metered Landscape/Recreation WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to L/R Use Category ⁴
Hillsborough	2705	Sano Corp Dba Westchase Golf Course	R250	S	0.000	0.079	0.079
Hillsborough	3024	Lake Magdalene Restoration Association	R220	G	0.000	0.426	0.426
Hillsborough	3582	City of Temple Terrace	R250	G	0.118	0.256	0.256
Hillsborough	3745	NNP IV-Lake Hutto, LLC	R240	G	0.138	0.220	0.220
Hillsborough	4526	Hillsborough County Aviation Authority	R240	G	0.001	0.121	0.121
Hillsborough	4549	Lake Charles Improvement Association	R220	G	0.000	0.290	0.290
Hillsborough	4874	Avila Golf and Country Club	R250	G	0.163	0.346	0.346
Hillsborough	6091	Caloosa Golf & Country Club Inc	R250	G	0.027	0.332	0.332
Hillsborough	6092	Clublink US Corporation	R250	G	1.618	2.470	2.470
Hillsborough	6100	City of Tampa & Tampa Sports Authority	R250	G	0.112	0.181	0.179
Hillsborough	6101	Tampa Sports Authority & City of Tampa	R250	G	0.066	0.152	0.152
Hillsborough	6217	Palma Ceia Golf & Country Club	R250	G	0.222	0.211	0.211
Hillsborough	7038	Bloomingdale Golf LLC	R250	G	0.000	0.087	0.087
Hillsborough	7586	Hwy 92 Real Estate Investments LLC	R415	G	0.000	0.106	0.035
Hillsborough	7637	Riverside Golf Course Community LLC	R250	G	0.123	0.514	0.223
Hillsborough	7697	Dune FL Land I Sub, LLC	R412	G	0.000	0.015	0.015
Hillsborough	7774	Lake Carlton Arms Partnership	R244	G	0.106	0.270	0.270
Hillsborough	7883	Tampa Palms Community Dev Dist	R244	G	0.114	0.313	0.313
Hillsborough	8126	Brighton Golf Partners LLC Summerfield Crossings Golf Club	R250	G	0.000	0.211	0.211
Hillsborough	8137	Florida College Inc	R245	G	0.038	0.067	0.067
Hillsborough	8621	Susan E & Sumesh Chandra	R220	G	0.000	0.036	0.036
Hillsborough	8641	Old Memorial Golf Club	R250	G	0.042	0.083	0.083
Hillsborough	8673	Belmont Real Estate LLC	R240	G	0.026	0.133	0.133
Hillsborough	8710	Hillsborough County School Board	R245	G	0.023	0.046	0.021
Hillsborough	8931	TC Venture 1, LLC	R240	G	0.033	0.315	0.315
Hillsborough	8955	Lone Oak Baptist Missionary Baptist Church Inc	R240	G	0.000	0.027	0.001
Hillsborough	9042	Arbor Greene Community Development District	R240	G	0.014	0.066	0.066

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Table A-5. 2016 Permitted and Withdrawn Quantities (mgd) on Metered Landscape/Recreation WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to L/R Use Category ⁴
Hillsborough	9137	Samuel Falletta	R244	G	0.029	0.200	0.200
Hillsborough	9260	Michael Farissier	R250	G	0.058	0.064	0.064
Hillsborough	9487	Tampa Palms Club, Inc	R250	G	0.158	0.100	0.100
Hillsborough	9527	Cheval Golf Club LLC	R250	G	0.004	0.082	0.082
Hillsborough	9875	Grace Community Church of Brandon, Inc	R240	G	0.003	0.047	0.006
Hillsborough	10161	City of Tampa & Lowry Park Zoological Society	R407	G	0.263	0.299	0.299
Hillsborough	10398	Rivercrest LLC & Rivercrest CDD	R240	G	0.110	0.115	0.115
Hillsborough	10516	Hillsborough County	R290	G	0.001	0.103	0.103
Hillsborough	10724	DF Golf, LLC	R250	G	0.000	0.257	0.257
Hillsborough	10819	Arc Sun City Golf Course Inc	R250	G	0.000	0.079	0.079
Hillsborough	10819	Arc Sun City Golf Course Inc	R250	S	0.000	0.079	0.079
Hillsborough	11076	Lake Stemper Civic Association	R220	G	0.000	0.281	0.281
Hillsborough	11086	Alain & Luz Juvert	R220	G	0.024	0.060	0.060
Hillsborough	11139	John D & Jillian W Lockaby	R220	G	0.000	0.134	0.134
Hillsborough	11157	Terrabrook Apollo Beach, LLC	R240	G	0.042	0.090	0.090
Hillsborough	11194	Heritage Golf Tampa Bay LLC	R250	G	0.125	0.323	0.323
Hillsborough	11428	Hunters Green Acquisition Corp	R250	G	0.086	0.324	0.324
Hillsborough	11429	Hunter's Green Community Association Inc	R240	G	0.100	0.274	0.274
Hillsborough	11435	Saddleback Improvement Association, Inc	R220	G	0.000	0.392	0.392
Hillsborough	11540	Heritage Isles CDD	R250	G	0.125	0.327	0.327
Hillsborough	11830	Tampa Bay Downs, Inc	R300	G	0.028	0.156	0.156
Hillsborough	12024	City of Tampa	R250	G	0.006	0.323	0.323
Hillsborough	12274	Florida College Inc & Tramonett Enterprises, Inc	R250	G	0.057	0.103	0.103
Hillsborough	12957	Nhc-Fl8-Lp David W Fell	R250	G	0.208	0.347	0.302
Hillsborough	12967	Centex Real Estate Corp & South Shore Falls HOA Inc	R240	G	0.066	0.213	0.213
Hillsborough	12967	Centex Real Estate Corp & South Shore Falls HOA Inc	R240	S	0.000	0.213	0.213
Hillsborough	13356	South Shore Corporate Park LLC	R240	G	0.000	0.110	0.110

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Table A-5. 2016 Permitted and Withdrawn Quantities (mgd) on Metered Landscape/Recreation WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to L/R Use Category ⁴
Hillsborough	13356	South Shore Corporate Park LLC	R240	S	0.004	0.110	0.110
Hillsborough County Totals					7.411	Metered, mgd	
					1.251	Estimated, mgd, 107 WUPs	
					8.662	Total, mgd	
Lake County Totals		There are no landscape/recreation permittees in Lake County					
Levy County Totals		There are no landscape/recreation metered WUPs in Levy County				0.000	Metered, mgd
					0.198	Estimated, mgd, 7 WUPs	
					0.198	Total, mgd	
Manatee	503	J T Reeder Partners	R240	G	0.002	0.875	0.004
Manatee	3744	Taylor Woodrow Communities at Artisan Lake, LLC	R240	G	0.079	0.459	0.216
Manatee	4443	Lennar Homes LLC	R240	G	0.150	0.869	0.869
Manatee	4443	Lennar Homes LLC	R240	S	0.000	0.869	0.869
Manatee	4645	Harrison Ranch CDD	R240	G	0.000	0.051	0.051
Manatee	5444	Manatee County School District	R245	G	0.006	0.271	0.027
Manatee	5592	River Plantation HOA, Inc	R245	G	0.092	0.122	0.122
Manatee	5617	Medallion Homes	R240	G	0.000	0.332	0.216
Manatee	5656	Waterlefe CDD	R250	G	0.191	0.262	0.262
Manatee	6293	Palm Aire Country Club	R250	G	0.230	0.399	0.399
Manatee	6590	Copperstone Townhome HOA, Inc.	R240	G	0.041	0.125	0.125
Manatee	7235	Gamble Creek LC & Manatee Co & Twin Rivers II LC	R240	G	0.000	0.231	0.231
Manatee	7632	Cascades at Sarasota Res Assoc	R240	G	0.134	0.157	0.157
Manatee	7651	City of Bradenton	R250	G	0.000	0.192	0.192
Manatee	7846	Schroeder-Manatee Ranch Inc (Multi-County w Sarasota)	R240	G	5.956	16.793	12.818
Manatee	7846	Schroeder-Manatee Ranch Inc	R240	S	0.024	16.793	12.818
Manatee	8012	Robert Gwodz Sarabay Country Club	R250	G	0.001	0.152	0.152
Manatee	8012	Robert Gwodz Sarabay Country Club	R250	S	0.158	0.152	0.152
Manatee	8508	Peridia Property Owners Assoc Inc	R250	G	0.058	0.118	0.118

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Table A-5. 2016 Permitted and Withdrawn Quantities (mgd) on Metered Landscape/Recreation WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to L/R Use Category ⁴
Manatee	8965	River Club Golf Course Inc	R250	G	0.138	0.213	0.213
Manatee	8965	River Club Golf Course Inc	R250	S	0.000	0.213	0.213
Manatee	9379	Tara Golf & Country Club	R250	G	0.127	0.262	0.262
Manatee	9808	Woolridge Investment LLC	R250	G	0.004	0.484	0.484
Manatee	10033	MML LI, LLC	R250	G	0.023	0.186	0.186
Manatee	10033	MML LI, LLC	R250	S	0.000	0.186	0.186
Manatee	10450	River Wilderness Yacht & Cc	R250	G	0.001	0.330	0.330
Manatee	11881	Preserve Golf LLC	R250	G	0.206	0.258	0.258
Manatee	12290	Lakeridge Falls Community Association	R240	G	0.016	0.133	0.133
Manatee	12613	Lakewood Ranch Country Club-West Community Assoc	R240	G	0.151	0.174	0.174
Manatee	12630	The Concession Land Develop LLC	R250	G	0.186	0.230	0.230
Manatee	12632	WR-I Associates, Ltd	R240	S	0.022	0.086	0.086
Manatee	12900	Minto Bradenton, LLC	R240	G	0.173	0.131	0.131
Manatee	13035	Oakleaf Hammock Homeowner Association	R240	G	0.101	0.154	0.154
Manatee	20088	IMG Academies, LLP	R245	G	0.181	0.267	0.267
Manatee	20269	Upper Manatee 288, LLC	R240	G	0.000	0.195	0.195
Manatee County Totals					8.450	Metered, mgd	
					1.424	Estimated, mgd, 122 WUPs	
					9.874	Total, mgd	
Marion	2697	Charlotte Weber	R240	G	0.008	1.028	0.180
Marion	5642	Golden Hills Golf & Turf Club	R250	G	0.191	0.223	0.223
Marion	6674	Golden Ocala Golf Course and Country Club	R250	G	0.175	0.449	0.396
Marion	7178	Development & Construction Corp of America	R250	G	0.054	0.614	0.614
Marion	9497	Warrior Golf Development, LLC	R250	G	0.018	0.134	0.134
Marion	10266	Pulte Homes Corp	R250	G	0.487	0.369	0.369
Marion	10266	Pulte Homes Corp	R250	S	0.426	0.369	0.369
Marion	10476	Pulte Homes (Spruce Creek Preserve)	R250	G	0.326	0.390	0.390

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Table A-5. 2016 Permitted and Withdrawn Quantities (mgd) on Metered Landscape/Recreation WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to L/R Use Category ⁴
Marion	10861	Warrior Acquisitions, LLC	R250	G	0.002	0.160	0.160
Marion	11475	Arbor Springs Development, LLC	R240	G	0.000	0.106	0.033
Marion	12843	Vikings, LLC	R250	G	0.286	0.304	0.304
Marion	12911	Ocala 623 Land Development LLC	R250	G	0.207	0.223	0.150
Marion	12966	Stone Creek Community Assoc Inc	R240	G	0.289	0.313	0.313
Marion	12993	Summerglen Partners LLC	R250	G	0.104	0.354	0.354
Marion	20120	Kasmak, Inc	R250	G	0.000	0.192	0.192
Marion	20121	Rainbow's End Golf Club, Inc	R250	G	0.047	0.108	0.108
Marion	20173	Sidney Colen and Associates LTD	R250	G	0.476	0.522	0.522
Marion	20174	On Top of the World Communities Inc	R240	G	0.000	0.664	0.000
Marion	20255	L L Hiers Jr and Jodi Hiers	R406	G	0.000	0.792	0.005
Marion County Totals					3.097	Metered, mgd	
					0.321	Estimated, mgd, 24 WUPs	
					3.418	Total, mgd	
Pasco	347	Connerton Holdings LLC	R240	G	0.044	0.419	0.419
Pasco	2479	Wiregrass Ranch Inc	R240	G	0.000	0.535	0.000
Pasco	4649	Pinellas County Utilities	R220	G	0.157	0.800	0.800
Pasco	6113	Saddlebrook Resorts, Inc	R250	G	0.078	0.613	0.613
Pasco	6113	Saddlebrook Resorts, Inc	R250	S	0.008	0.613	0.613
Pasco	6129	Florida Fish & Wildlife Conservation Commission	R407	G	0.067	0.269	0.269
Pasco	7672	Ron & Nancy-Andy, Padova, Lowman	R250	G	0.162	0.215	0.215
Pasco	7733	The Links of Lake Bernadette, Inc	R250	G	0.399	0.201	0.201
Pasco	8561	S & R Development LLC dba Silverado Golf & C C	R250	G	0.032	0.219	0.219
Pasco	8561	S & R Development LLC dba Silverado Golf & C C	R250	S	0.203	0.219	0.219
Pasco	8892	Southport Springs I LP	R250	G	0.114	0.180	0.180
Pasco	9525	Lowman Links Inc	R250	G	0.001	0.047	0.047
Pasco	9967	Pasco Office Park LLC	R250	G	0.000	0.352	0.352

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Table A-5. 2016 Permitted and Withdrawn Quantities (mgd) on Metered Landscape/Recreation WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to L/R Use Category ⁴
Pasco	10039	Rexbo Realty	R250	G	0.055	0.001	0.001
Pasco	10366	Seven Springs Golf & Country Club	R250	G	0.000	0.133	0.133
Pasco	10447	Goldenranch Property, LLC	R240	G	0.000	0.131	0.131
Pasco	10870	Betmar Acres Club, Inc.	R250	G	0.091	0.155	0.155
Pasco	11275	TBG & CC Recreation LLC	R250	G	0.031	0.100	0.100
Pasco	11558	Pinellas County Utilities	R220	G	0.486	1.343	1.343
Pasco	11589	Lex Oaks Golf 54 LLC	R250	G	0.000	0.310	0.310
Pasco	11650	Heritage Pines Community Assoc Inc	R250	G	0.006	0.067	0.067
Pasco	11773	Little Everglades Ranch Inc	R245	G	0.070	0.322	0.190
Pasco	11773	Little Everglades Ranch Inc	R245	S	0.000	0.322	0.190
Pasco	11774	Sunden Tampa, LLC	R250	G	0.277	0.184	0.184
Pasco	11852	Burdge, Chris	R310	G	0.000	0.009	0.009
Pasco	11898	Pasco County School Board	R244	G	0.036	0.181	0.181
Pasco	11913	Heritage Springs Comm Assoc	R250	G	0.004	0.429	0.368
Pasco	12044	The Groves CDD	R250	G	0.000	0.184	0.184
Pasco	12346	La Hacienda Del Cielo LLC	R240	G	0.000	0.216	0.010
Pasco	12754	Waters Edge CDD	R244	G	0.220	0.249	0.249
Pasco	12754	Waters Edge CDD	R244	S	0.000	0.249	0.249
Pasco	12784	Saint Leo Abbey	R250	G	0.027	0.143	0.131
Pasco	13247	Sundance Golf Corp	R250	G	0.124	0.260	0.260
Pasco County Totals					2.693	Metered, mgd	
					0.673	Estimated, mgd, 38 WUPs	
					3.366	Total, mgd	
Pinellas	288	Countryside Country Club, Inc	R250	G	0.000	0.435	0.435
Pinellas	288	Countryside Country Club, Inc	R250	S	0.235	0.435	0.435
Pinellas	339	City of Clearwater	R250	G	0.000	0.035	0.035
Pinellas	708	Bellevue Biltmore Country Club	R250	G	0.006	0.100	0.100

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Table A-5. 2016 Permitted and Withdrawn Quantities (mgd) on Metered Landscape/Recreation WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to L/R Use Category ⁴
Pinellas	1155	Salamander Innisbrook LLC	R240	G	0.001	0.174	0.174
Pinellas	2215	NorthStar Cemetery Services of FL, LLC	R240	G	0.046	0.257	0.257
Pinellas	2731	City of Largo, Largo Golf Course	R250	G	0.009	0.045	0.045
Pinellas	3707	Bayou Golf, LLC	R250	G	0.385	0.512	0.512
Pinellas	4555	Pinellas County Parks & Conservation Department	R240	S	0.000	0.234	0.234
Pinellas	5236	Florin Golf Investors, LLC	R250	S	0.000	0.038	0.038
Pinellas	6701	Cypress Run of Florida LLC	R250	G	0.113	0.135	0.135
Pinellas	7362	Pinellas Co. Parks & Conservation Department	R240	G	0.000	0.192	0.129
Pinellas	7362	Pinellas Co. Parks & Conservation Department	R240	S	0.000	0.192	0.129
Pinellas	7437	Club Corp Golf of Florida LLC	R250	G	0.093	1.300	1.300
Pinellas	7437	Club Corp Golf of Florida LLC	R250	S	0.200	1.300	1.300
Pinellas	8142	Sylvan Abbey Memorial Park	R230	G	0.139	0.157	0.157
Pinellas	8959	Highland Lakes Homeowners Association	R250	G	0.042	0.081	0.081
Pinellas	9065	Lansbrook Master Association	R240	G	0.000	0.219	0.219
Pinellas	9065	Lansbrook Master Association	R240	S	0.103	0.219	0.219
Pinellas	9551	Ace Wentworth, Inc.	R250	G	0.066	0.191	0.191
Pinellas	9670	Ace Crescent Oaks, Inc	R250	G	0.662	0.286	0.286
Pinellas	10318	Homeowners of Palm Hill Inc.	R244	G	0.087	0.149	0.149
Pinellas	10646	Olympia Invest. Group LLC and SHS Resort LLC	R412	G	0.003	0.040	0.004
Pinellas	10694	Redus Florida Properties, LLC	R250	G	0.005	0.153	0.153
Pinellas	10732	Lansbrook Golf, LLC	R250	G	0.010	0.323	0.323
Pinellas	10882	Pinellas County Parks & Conservation Dept	R245	S	0.006	0.034	0.034
Pinellas	11816	Clearwater Golf Assoc Inc	R250	G	0.153	0.156	0.156
Pinellas	11995	Seminole Lake Golf Course Inc	R250	G	0.000	0.180	0.180
Pinellas County Totals					2.362	Metered, mgd	
					0.586	Estimated, mgd, 35 WUPs	
					2.948	Total, mgd	

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Table A-5. 2016 Permitted and Withdrawn Quantities (mgd) on Metered Landscape/Recreation WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to L/R Use Category ⁴
Polk	143	Mountain Lake Corp	R220	G	0.540	3.380	2.542
Polk	1247	Sandpiper Golf, Inc	R250	G	0.224	0.255	0.255
Polk	1625	Four Lakes Golf Club Ltd	R250	G	0.152	0.406	0.160
Polk	2715	Mosaic Fertilizer LLC & South Fort Meade Partnership LP	R250	G	0.262	5.387	1.089
Polk	2715	Mosaic Fertilizer LLC & South Fort Meade Partnership LP	R250	S	0.051	5.387	1.089
Polk	3150	Kc Industries LLC & Kc Industries Properties LLC	R290	G	0.001	0.192	0.050
Polk	4403	Clarence J & Delores Socia	R250	G	0.251	0.267	0.267
Polk	4658	City of Lake Wales	R245	G	0.011	3.903	0.018
Polk	4698	Bok Tower Gardens Foundation Inc	R260	G	0.148	0.200	0.200
Polk	5251	Grenelefe Resort Utility, Inc	R250	G	0.706	1.235	0.609
Polk	5524	Robert Weaver	R250	G	0.067	0.135	0.135
Polk	6128	Lake Wales Country Club, LLC	R250	G	0.133	0.313	0.307
Polk	6155	4 Seasons Golf Resort, LLC	R250	G	0.014	0.166	0.166
Polk	6155	5 Seasons Golf Resort, LLC	R250	S	0.000	0.166	0.166
Polk	7187	CHC VII LTD Century Realty Fund	R250	G	0.108	0.429	0.173
Polk	7328	Carefree RV Country Club of Winter Haven Inc	R250	G	0.041	0.131	0.052
Polk	7489	Merlin Entertainments Group Florida LLC	R240	G	0.204	0.254	0.254
Polk	7489	Merlin Entertainments Group Florida LLC	R240	S	0.000	0.254	0.254
Polk	8464	Century Realty Funds	R250	G	0.180	0.192	0.192
Polk	8466	Floral Lakes Homeowners Association, Inc	R210	G	0.000	0.041	0.041
Polk	8467	City of Lakeland Water Utilities	R250	G	0.154	0.227	0.227
Polk	8472	Cypress Lakes Associates LTD	R250	G	0.026	0.152	0.152
Polk	8553	Cypresswood Golf & Country Club	R250	G	0.117	0.269	0.269
Polk	8565	Imperial Lakes Land Corp	R250	G	0.000	0.337	0.337
Polk	8967	Sweetwater Community Inc	R250	G	0.033	0.141	0.038
Polk	9007	Schalamar Creek Golf & Country Club	R250	G	0.070	0.131	0.131
Polk	9123	Carlton Arms of Lakeland	R240	G	0.003	0.099	0.099

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Table A-5. 2016 Permitted and Withdrawn Quantities (mgd) on Metered Landscape/Recreation WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to L/R Use Category ⁴
Polk	9234	City of Bartow	R250	G	0.126	0.155	0.155
Polk	9961	The Drummond Co Inc	R250	G	0.160	0.285	0.285
Polk	9961	The Drummond Co Inc	R250	S	0.074	0.285	0.285
Polk	9985	J.L. Land Development, Inc.	R250	G	0.116	0.284	0.284
Polk	10392	Milmack, Inc	R250	G	0.214	0.266	0.266
Polk	10559	Polk County - Parks & Natural Resources Div	R245	G	0.112	0.118	0.118
Polk	10656	Stephen J. Fox	R240	G	0.001	0.120	0.004
Polk	10826	Lone Palm Golf Club	R250	G	0.015	0.251	0.251
Polk	10826	Lone Palm Golf Club	R250	S	0.114	0.251	0.251
Polk	11693	City of Lakeland Parks & Recreation Department	R230	G	0.045	0.176	0.159
Polk	12172	Lake Ashton Golf Club LTD	R250	G	0.031	0.248	0.248
Polk	12446	C. C. Calhoun, Inc	R240	G	0.013	0.161	0.016
Polk	12636	Lake Region Yacht & Country Club	R250	G	0.172	0.122	0.122
Polk	12652	Highlands Reserve G C	R250	G	0.079	0.090	0.090
Polk	12689	Southern Dunes Golf & Country Club Inc	R250	G	0.318	0.242	0.242
Polk	12832	Lake Ashton Development Group II LLC	R250	G	0.208	0.186	0.186
Polk	13330	City of Winter Haven	R250	G	0.017	0.043	0.043
Polk County Totals					5.310	Metered, mgd	
					1.471	Estimated, mgd, 145 WUPs	
					6.781	Total, mgd	
Sarasota	3941	Mission Valley Golf and Country Club, Inc	R250	G	0.105	0.246	0.246
Sarasota	5385	R Green Golf Club, LLC	R250	G	0.038	0.196	0.196
Sarasota	5517	Capri Isles Golf Inc	R250	G	0.001	0.040	0.040
Sarasota	5648	Gator Creek Golf Club Inc	R250	G	0.001	0.104	0.104
Sarasota	5807	Camelot Communities MHP, LLC	R240	G	0.071	0.390	0.202
Sarasota	5807	Camelot Communities MHP, LLC	R240	S	0.105	0.390	0.202
Sarasota	6364	The Plantation Management Association, Inc	R250	G	0.330	1.214	1.214

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Table A-5. 2016 Permitted and Withdrawn Quantities (mgd) on Metered Landscape/Recreation WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to L/R Use Category ⁴
Sarasota	6364	The Plantation Management Association, Inc	R250	S	0.349	1.214	1.214
Sarasota	6770	Oaks Bayside HOA, Inc	R240	G	0.140	0.166	0.166
Sarasota	6863	Longboat Key Club	R250	G	0.224	0.309	0.309
Sarasota	6954	The Oaks Club Corporation	R250	G	0.171	0.475	0.475
Sarasota	7448	Royalty Resorts Corporation	R411	G	0.010	0.186	0.021
Sarasota	7873	Myakka Pines Golf Club Inc	R250	G	0.000	0.212	0.212
Sarasota	7873	Myakka Pines Golf Club Inc	R250	S	0.006	0.212	0.212
Sarasota	7893	Heritage Golf Prestancia LLC	R250	G	0.086	0.249	0.249
Sarasota	8109	The Preserve at Misty Creek	R250	G	0.000	0.125	0.125
Sarasota	8398	Grosvenor Square Cadillac LLC	R250	G	0.122	0.178	0.178
Sarasota	8782	Tatum Ridge Golf Links Inc	R250	G	0.000	0.183	0.183
Sarasota	8819	Boca Royale Golf & Country Club, Inc	R250	G	0.046	0.099	0.099
Sarasota	8900	Meadows Country Club Inc	R250	G	0.084	0.144	0.144
Sarasota	9079	Civix Sunrise Gc LLC	R250	G	0.000	0.037	0.037
Sarasota	9079	Civix Sunrise Gc LLC	R250	S	0.000	0.037	0.037
Sarasota	9114	Sorrento Valley Golf Inc	R250	G	0.161	0.230	0.230
Sarasota	9517	Laurel Oak Country Club	R250	G	0.136	0.132	0.132
Sarasota	9667	Cabot Investment Properties	R250	G	0.176	0.264	0.264
Sarasota	9839	Venice Golf & Country Club Ltd	R250	G	0.001	0.254	0.254
Sarasota	10407	Serenoa Golf Club LLC	R250	G	0.228	0.275	0.275
Sarasota	10606	LB 500 LLC dba Longboat Key Club	R250	G	0.377	0.498	0.498
Sarasota	10823	Calusa Lakes Community Assoc Inc	R240	G	0.270	0.387	0.387
Sarasota	10877	Stoneybrook Golf and Country Club	R250	G	0.092	0.245	0.245
Sarasota	10880	Southbay Yacht & Racquet Club	R240	G	0.101	0.201	0.201
Sarasota	11417	Heritage Oaks Golf & Country Club Inc	R250	G	0.000	0.407	0.407
Sarasota	11438	Capri Isle Golf Inc	R250	G	0.114	0.293	0.293
Sarasota	11638	Marsh Creek Holdings, LTD	R250	G	0.000	0.451	0.451

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Table A-5. 2016 Permitted and Withdrawn Quantities (mgd) on Metered Landscape/Recreation WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to L/R Use Category ⁴
Sarasota	11699	Bobcat Trail Golf Club LLC	R250	G	0.098	0.339	0.339
Sarasota	11871	City of Venice Utilities Dept	R250	G	0.113	0.202	0.202
Sarasota	12075	Venetian Community Development District	R250	G	0.266	0.408	0.408
Sarasota	12145	Village Walk of Sarasota HOA	R240	G	0.044	0.184	0.184
Sarasota	12177	Boca Royale Golf Property Owners	R240	G	0.183	0.164	0.164
Sarasota	12275	Mote Marine Laboratory	R406	G	0.001	0.155	0.001
Sarasota	12275	Mote Marine Laboratory	R406	S	0.000	0.155	0.001
Sarasota	12555	LALP Lots I, LLC	R240	S	0.110	0.235	0.235
Sarasota	12590	Aquaterra Utilities Inc	R240	G	0.066	0.237	0.237
Sarasota	12634	Venetian Falls HOA Inc	R240	G	0.055	0.157	0.157
Sarasota	12645	Resource Conservation of Sarasota, LLC	R240	G	0.156	0.394	0.394
Sarasota	12750	Ventura Village Homeowners Association Inc	R240	G	0.089	0.087	0.087
Sarasota	12772	Divosta LP	R240	S	0.418	0.700	0.700
Sarasota	12796	Isles of Sarasota Homeowners Association	R240	G	0.000	0.042	0.042
Sarasota	13347	Dept Of Veterans Affairs	R230	G	0.093	0.343	0.343
Sarasota	20403	Divosta Homes, LP	R240	G	0.000	0.050	0.050
Sarasota County Totals					5.238	Metered, mgd	
					1.407	Estimated, mgd, 103 WUPs	
					6.645	Total, mgd	
Sumter	2622	Continental Country Club Rd Inc	R250	G	0.258	0.213	0.213
Sumter	2798	RP Fenney, LLC	R240	G	0.011	0.688	0.688
Sumter	3206	Villages Operating Company	R250	G	0.522	0.616	0.616
Sumter	6793	Rainforest RV Inc	R250	G	0.146	0.147	0.119
Sumter	8675	USA Veterans Administration	R240	G	0.013	0.420	0.420
Sumter	10923	Spruce Creek Golf LLC	R250	G	0.726	0.446	0.446
Sumter	10923	Spruce Creek Golf LLC	R250	S	0.000	0.446	0.446
Sumter	11566	The Villages of Lake-Sumter Inc	R245	G	0.065	0.093	0.093

2016 ESTIMATED WATER USE REPORT

Table A-5. 2016 Permitted and Withdrawn Quantities (mgd) on Metered Landscape/Recreation WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to L/R Use Category ⁴
Sumter	11624	Village Community Development District 2	R240	G	0.051	0.100	0.100
Sumter	11778	Village Center CDD	R250	G	0.010	0.170	0.056
Sumter	11856	Brassboys Enterprises Inc Db a Miona Lake Golf Course	R250	G	0.004	0.023	0.023
Sumter	13005	Village Center Community Development District	R250	G	1.289	19.346	1.347
Sumter	13123	Loan Portfolio Solutions, LLC	R244	G	0.018	0.114	0.054
Sumter County Totals					3.113	Metered, mgd	
					0.081	Estimated, mgd, 6 WUPs	
					3.194	Total, mgd	
District Totals					48.128	Metered, mgd	
					9.081	Estimated, mgd	
					57.210	Total, mgd	

Information is given only for the portion of the county within the District.

Source: WMIS Database. Calculations from raw data create some minor rounding discrepancies in summations.

- ¹ Use Code: Alpha-numeric number given to the use that has the highest quantity attributed to the permit. The first letter indicates the "Predominant Use" on the permit. (R = Landscape/Recreation). Other specific uses may be included on the WUP, but largest specific use is shown. Descriptions of the use codes in this table are provided below.
- ² Source = G for groundwater; S for surface water
- ³ The metered annual average amount withdrawn by the permittee during the calendar year, in million gallons per day. The county totals show the sum of metered withdrawals, an additional amount estimated for the non-metered permittees, and the combined total for the county.
- ⁴ This value gives an indication whether the WUP's permitted quantity is entirely for landscape/recreation use. If the number is less than the total permitted quantity, there is another predominant use allocated to the WUP. There may be additional withdrawals by the permittee for another predominant use.

2016 ESTIMATED WATER USE REPORT

Descriptions for the Landscape/Recreation use codes used in WMIS. There are more codes listed, for reference, than are shown in Table A-5.

R200	Aesthetic Use (not augmentation)	R300	Recreational Animal Watering Use	R410	Flume
R210	Augmentation for Aesthetic	R301	Water for Aquatic Habitats	R411	Pool/Pond Fill
R220	Augmentation for Environmental	R310	Personal Sanitary Use	R412	Pool/Pond Makeup
R230	Cemetery/Parks/Playgrounds	R320	Water-Based Recreation	R413	Rides
R240	Lawn & Landscape Irrigation	R321	Water Parks	R414	Food preparation and associated water needs
R244	Irrigation of Common Areas	R400*	Reuse Water Received from a Utility	R415	Office / Staff Facilities
R245	Sports Playing Fields	R401*	Reuse Water Generated on Site	R420	Public drinking fountains/ Restrooms
R250	Golf Course	R405*	Closed Loop Heating and Cooling	R425	Hotel/Motel
R260	Botanical Specimen Irrigation	R406	Animal Watering	R430	Fountains
R261	Botanical Specimen (wo eff. rainfall)	R407	Aquatic habitat fill	R435	Decorative Water Features
R270	Fire Fighting/Testing	R408	Aquatic habitat water change	R440	Cleaning and Maintenance
R280	Maintenance & Cooling	R409	Aquatic habitat water replacement	R445	Air Conditioning/Cooling
R290	Other Uses				

* Uses R400, R401, and R405 are excluded from the estimated water use query.

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Table A-6. 2016 Metered + Estimated Landscape/Recreation Monthly Average Withdrawals (mgd/month) by County

County	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
*Charlotte	1.099	1.437	1.895	2.424	2.459	1.921	1.422	1.021	0.812	1.437	2.536	2.639
Citrus	1.451	2.172	4.019	4.928	4.797	4.717	5.148	3.436	3.409	5.061	5.298	3.555
Desoto	0.076	0.160	0.215	0.342	0.352	0.167	0.183	0.112	0.114	0.243	0.392	0.339
Hardee	0.053	0.063	0.115	0.111	0.153	0.091	0.099	0.075	0.081	0.127	0.178	0.167
Hernando	1.350	2.676	3.469	5.038	4.961	4.117	3.838	3.219	3.676	4.234	5.359	4.544
*Highlands	0.959	1.376	1.948	2.679	2.868	1.976	2.318	1.802	2.445	2.254	3.141	2.151
Hillsborough	5.754	6.077	8.545	8.387	10.718	9.528	8.803	6.689	7.548	9.060	12.063	10.780
*Lake	0	0	0	0	0	0	0	0	0	0	0	0
*Levy	0.070	0.097	0.205	0.245	0.280	0.229	0.234	0.118	0.106	0.200	0.311	0.282
Manatee	5.639	6.729	10.435	12.406	13.522	8.961	10.022	5.950	6.975	10.502	15.513	11.852
*Marion	1.629	1.650	2.298	4.290	4.982	4.786	6.025	3.277	2.624	3.718	3.070	2.657
Pasco	1.928	3.630	3.297	4.732	4.374	3.226	3.569	2.455	1.740	3.069	4.348	4.020
Pinellas	1.840	1.796	2.549	3.120	3.661	3.494	3.426	2.267	2.155	2.807	4.601	3.674
*Polk	2.679	3.913	5.754	7.985	8.990	6.939	7.888	6.004	5.434	7.009	9.988	8.785
Sarasota	3.853	4.764	6.580	8.016	9.952	6.543	5.804	3.878	4.023	5.585	11.421	9.318
Sumter	1.084	1.229	2.062	3.589	3.566	4.424	4.277	3.880	2.843	3.830	4.295	3.247
District Total	29.464	37.769	53.386	68.292	75.635	61.119	63.056	44.183	43.985	59.136	82.514	68.010
Groundwater	27.339	33.840	48.635	62.295	68.530	55.284	56.690	38.708	38.883	52.896	75.730	61.570
Surface Water	2.125	3.929	4.751	5.996	7.105	5.836	6.365	5.476	5.101	6.241	6.784	6.441

* Data is only from the portion of the county within the District.

Source: Estimated Water Use Tables derived from the WMIS database.

2016 ESTIMATED WATER USE REPORT

Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Charlotte	608	The Bryan W Paul Family Limited Partnership	A415	G	0.000	0.136	0.136
Charlotte	608	The Bryan W Paul Family Limited Partnership	A415	S	0.000	0.136	0.136
Charlotte	1019	Ryals Citrus & Cattle Co	A470	G	0.055	0.386	0.386
Charlotte	1117	James Bickett	A415	G	0.297	2.316	2.316
Charlotte	1117	James Bickett	A415	S	0.317	2.316	2.316
Charlotte	1759	Probitas Enterprises LLC	A58S	G	0.321	2.461	2.461
Charlotte	1759	Probitas Enterprises LLC	A58S	S	0.334	2.461	2.461
Charlotte	1882	Punta Riverside Inc And Seamans Sunset Inc	A415	S	0.000	0.121	0.121
Charlotte	2588	Kelly Family Holdings LLC	A490	G	0.617	0.705	0.508
Charlotte	2593	Charlotte 650 LLC	A415	G	0.000	0.524	0.524
Charlotte	2593	Charlotte 650 LLC	A415	S	0.000	0.524	0.524
Charlotte	2689	East Charlotte Drainage District	A415	G	1.057	2.763	2.763
Charlotte	2689	East Charlotte Drainage District	A415	S	0.252	2.763	2.763
Charlotte	4217	The Five Cross Land Trust	A490	G	0.000	0.199	0.199
Charlotte	4589	Hudson Land & Cattle, LLC	A470	G	0.000	0.648	0.648
Charlotte	5936	Schwartz Charlotte Grove Properties, LLC	A495	G	0.017	1.001	1.001
Charlotte	6569	Kent C. & Nora Lynette Connell	A525	G	0.022	0.136	0.136
Charlotte	7240	Iowa International Inv Inc	A415	G	0.000	0.118	0.118
Charlotte	8224	Spanish Trail Land & Cattle Company LLC	A56S	G	0.239	2.534	2.534
Charlotte	9052	Ben Hill Griffin, Inc	A415	G	0.001	1.523	1.523
Charlotte	9052	Ben Hill Griffin, Inc	A415	S	0.000	1.523	1.523
Charlotte	9398	734 LMC Groves, LLC	A415	G	0.043	1.258	1.258
Charlotte	9476	Citrus Creek Grove LLC	A415	G	0.204	0.679	0.679
Charlotte	9648	Thomas Beddard	A56F	G	0.207	1.491	1.491
Charlotte	9648	Thomas Beddard	A56F	S	0.106	1.491	1.491
Charlotte	9687	Williams Farms Partnership	A57F	G	0.000	1.858	1.823
Charlotte	9687	Williams Farms Partnership	A57F	S	0.000	1.858	1.823
Charlotte	9727	Friedrich Schiller	A415	G	0.098	0.492	0.492

2016 ESTIMATED WATER USE REPORT

Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Charlotte	9926	R and D Cattle Ranch LLC	A415	G	0.000	0.665	0.615
Charlotte	9926	R and D Cattle Ranch LLC	A415	S	0.000	0.665	0.615
Charlotte	10726	JDI Farms Inc	A56F	G	0.000	0.402	0.402
Charlotte	10726	JDI Farms Inc	A56F	S	0.000	0.402	0.402
Charlotte	10874	Charlotte Florida Partnership	A415	G	0.136	0.221	0.221
Charlotte	10959	M Lewis Hall Protective Trust	A470	G	0.002	0.203	0.113
Charlotte	11982	Bethel Farms LLLP	A525	G	0.462	0.715	0.715
Charlotte	12541	Cora Battista/Battista Sod Farms	A525	G	0.000	0.433	0.433
Charlotte	12541	Cora Battista/Battista Sod Farms	A525	S	0.127	0.433	0.433
Charlotte	13027	James W. Williams	A470	G	0.000	0.246	0.246
Charlotte	13027	James W. Williams	A470	S	0.000	0.246	0.246
Charlotte	13096	Chastain Family, LLC	A415	G	0.024	0.476	0.476
Charlotte	13349	Ryals Citrus & Cattle Co	A525	G	0.450	0.499	0.499
Charlotte	20053	Hudson Hammocks, LLC and JMH Trust	A470	G	0.009	0.363	0.363
Charlotte	20186	Punta Gorda Reserve, LLC	A415	G	0.000	0.085	0.085
Charlotte	20204	Thomas Chastain	A470	G	0.027	0.260	0.260
Charlotte County Totals					5.024	Metered, mgd	
					0.548	Estimated, mgd, 21 WUPs	
					5.572	Total, mgd	
Citrus	12288	M & B Products	A495	G	0.338	0.497	0.497
Citrus County Totals					0.338	Metered, mgd	
					1.270	Estimated, mgd, 40 WUPs	
					1.608	Total, mgd	
DeSoto	164	Citrus Pride	A415	G	0.034	0.179	0.179
DeSoto	572	Sorrells Groves, Inc	A415	G	0.135	0.261	0.261
DeSoto	897	Sorrells Groves, Inc	A415	G	0.149	0.457	0.457
DeSoto	898	Garner Groves & Cattle Co Inc	A415	G	0.000	0.138	0.138
DeSoto	898	Garner Groves & Cattle Co Inc	A415	S	0.000	0.138	0.138

2016 ESTIMATED WATER USE REPORT

Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
DeSoto	940	James Bickett	A415	G	0.138	0.330	0.330
DeSoto	1018	TLand, LLC	A415	G	0.000	0.074	0.074
DeSoto	1020	Ryals Citrus and Cattle Co.	A470	G	0.000	0.330	0.330
DeSoto	1048	A & A Blueberry, LLC	A410	G	0.000	0.204	0.204
DeSoto	1176	Constructora Limonar, Inc	A415	G	0.063	0.109	0.109
DeSoto	1240	Rod R Sweet	A415	G	0.021	0.075	0.075
DeSoto	1379	Robert Brewer, Lenora Brewer, James Brewer	A415	G	0.005	0.099	0.099
DeSoto	1381	Sorrells Of Manatee Inc	A415	G	0.069	0.163	0.163
DeSoto	1384	Sorrells Groves, Inc	A415	G	0.056	0.107	0.107
DeSoto	1568	Turner Land & Cattle, LLP	A415	G	0.000	0.186	0.186
DeSoto	1635	Bethel Farms, LLLP	A525	G	1.713	2.578	2.578
DeSoto	1711	Sunny South Packing Company	A415	G	0.140	0.239	0.239
DeSoto	1719	Sunny South Packing Company	A415	G	0.086	0.174	0.174
DeSoto	1722	Sunny South Packing Company	A415	G	0.042	0.079	0.079
DeSoto	1723	Sunny South Packing Company	A415	G	0.090	0.369	0.369
DeSoto	1754	L.I. Buddy Smith	A415	G	0.000	0.114	0.114
DeSoto	1755	Estate of V C Hollingsworth	A415	G	0.108	0.174	0.174
DeSoto	1766	VC and Betty Hollingsworth Trusts	A415	G	0.035	0.059	0.059
DeSoto	1771	Diner Citrus and Cattle Company	A415	G	0.000	0.143	0.143
DeSoto	1774	Sunny South Packing Company	A415	G	0.041	0.080	0.080
DeSoto	2125	Carlton Horse Creek Partners LLC	A470	G	0.090	0.629	0.629
DeSoto	2193	Phillip W Turner Family Partnership LTD	A490	G	0.261	3.802	3.802
DeSoto	2240	Eugene H Turner Family Partnership, LTD	A415	G	0.102	0.239	0.239
DeSoto	2240	Eugene H Turner Family Partnership, LTD	A415	S	0.000	0.239	0.239
DeSoto	2386	Joshua Water Control District	A415	G	11.751	14.225	14.225
DeSoto	2390	Alfred G & Mary J Parker	A490	G	0.057	0.265	0.265
DeSoto	2452	Florida Power & Light Co & OCF 27 Corp	A525	G	0.000	1.222	1.222
DeSoto	2665	M and V, LLC	A415	G	0.038	0.677	0.677

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
DeSoto	2703	VCH Citrus, LLC	A415	G	0.378	0.473	0.473
DeSoto	2740	Eugene H Turner & Eugene H Turner and Son Inc	A415	G	0.126	0.573	0.573
DeSoto	2790	VCH Citrus, LLC	A415	G	0.112	0.150	0.150
DeSoto	2791	Ronald E & Phyllis L Bodtke	A415	G	0.063	0.086	0.086
DeSoto	2890	E & D Ranch LLP	A495	G	0.035	0.116	0.116
DeSoto	2906	Ben Hill Griffin, Inc	A416	G	0.088	0.119	0.119
DeSoto	3069	DeSoto Land Investment, LLC	A415	G	0.077	0.498	0.498
DeSoto	3216	T & T Environmental, LLC	A415	G	0.024	0.285	0.285
DeSoto	3275	Chapman Family Partnership LLLP	A415	G	0.539	1.102	1.102
DeSoto	3275	Chapman Family Partnership LLLP	A415	S	0.000	1.102	1.102
DeSoto	3322	Sorrells Groves, Inc	A415	G	0.044	0.081	0.081
DeSoto	3474	John W. Parker, Jr	A415	G	0.011	0.070	0.070
DeSoto	4396	Sorrells Groves, Inc	A415	G	0.067	0.154	0.154
DeSoto	4606	Spanish Trail Land & Cattle Company LLC	A525	G	0.063	3.402	3.402
DeSoto	4606	Spanish Trail Land & Cattle Company LLC	A525	S	0.000	3.402	3.402
DeSoto	4641	Roper Growers Cooperative	A415	G	0.746	1.167	1.167
DeSoto	4726	Ridgeback Grove LLC	A415	G	0.083	0.171	0.171
DeSoto	4806	Sorrells Groves, Inc	A415	G	0.103	0.241	0.241
DeSoto	4899	Spanish Trail Land & Cattle Company, LLC	L632	G	0.146	0.352	0.352
DeSoto	5060	Charlee LLC	A470	G	0.210	2.203	2.203
DeSoto	5305	Mercer's Mens & Western Store, Inc	A415	G	0.062	0.206	0.206
DeSoto	5875	James Bickett	A415	G	0.424	0.773	0.773
DeSoto	5951	Dan Shelfer and Carolyn Shelfer Trust	A415	G	0.032	0.134	0.134
DeSoto	6064	James D & Robert C Brewer	A415	G	0.050	0.129	0.129
DeSoto	6122	Estate of V C Hollingsworth	A415	G	0.155	0.247	0.247
DeSoto	6134	Robert M & Barbara G Tiffany	A415	G	0.103	0.128	0.128
DeSoto	6274	West Vero Farms, LLC	A415	G	0.000	0.523	0.523
DeSoto	6274	West Vero Farms, LLC	A415	S	0.000	0.523	0.523

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
DeSoto	6275	West Vero Farms, LLC	A415	G	0.007	0.876	0.876
DeSoto	6275	West Vero Farms, LLC	A415	S	0.000	0.876	0.876
DeSoto	6410	Charles Harrison	A415	G	0.054	0.110	0.110
DeSoto	6411	Justin Blomberg, Trustee of the DeSoto 293 Land Trust	A415	G	0.084	0.227	0.227
DeSoto	6669	FLM, Inc	A415	G	0.703	1.655	1.655
DeSoto	6669	FLM, Inc	A415	S	0.106	1.655	1.655
DeSoto	6765	L.D. Hancock Revocable Trust	A415	G	0.488	1.399	1.399
DeSoto	6765	L.D. Hancock Revocable Trust	A415	S	0.000	1.399	1.399
DeSoto	6871	Davis Enterprises, Inc	A415	G	0.241	0.428	0.428
DeSoto	6872	J R Paul Properties Inc	A415	G	0.341	1.585	1.585
DeSoto	6968	James D & Robert C Brewer	A495	G	0.000	1.099	1.099
DeSoto	7236	Firedog Farms Partnership	A415	G	0.013	0.474	0.474
DeSoto	7262	Sorrells Groves, Inc	A415	G	0.061	0.088	0.088
DeSoto	7269	Michael Boran	A525	G	0.000	0.931	0.931
DeSoto	7290	James D. Brewer and E. Coleman Brewer	A415	G	0.132	0.307	0.307
DeSoto	7291	VCH Citrus LLC and VC Hollingsworth Sr	A415	G	0.106	0.117	0.117
DeSoto	7292	Charles Harrison	A415	G	0.026	0.080	0.080
DeSoto	7331	L. I. Smith	A415	G	0.104	0.254	0.254
DeSoto	7462	Bright Hour Ranch	A525	G	0.062	1.246	1.246
DeSoto	7462	Bright Hour Ranch	A525	S	0.000	1.246	1.246
DeSoto	7463	3F Ranch I, LLC	A490	G	0.000	0.169	0.169
DeSoto	7475	Pelican Groves Inc	A415	G	0.088	0.248	0.248
DeSoto	7535	Bickett Farms	A415	G	0.733	1.055	1.055
DeSoto	7748	4 F, LLC	L632	G	0.000	0.488	0.488
DeSoto	7775	Sorrells Groves, Inc	A415	G	0.058	0.132	0.132
DeSoto	7783	Southeast Groves, LLC	A415	G	0.034	0.456	0.456
DeSoto	7783	Southeast Groves, LLC	A415	S	0.346	0.456	0.456
DeSoto	7854	Sunny Future, LLC	A415	G	0.100	0.137	0.137

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
DeSoto	7870	Sorrells Groves, Inc	A490	G	0.085	0.198	0.198
DeSoto	7957	Turner Groves Citrus Limited Partnership	A415	G	2.690	3.170	3.170
DeSoto	8154	Emerald Packing Company Inc	A415	G	0.017	0.071	0.071
DeSoto	8159	Sue G Parker, Trustee	A415	G	0.028	0.180	0.180
DeSoto	8287	Keystone Grove LLC	A415	G	0.092	0.180	0.180
DeSoto	8299	W.M. Marsh, Linda Sue Marsh and Mark Asperilla	A415	G	0.020	0.099	0.099
DeSoto	8348	William Head	A470	G	0.149	0.473	0.473
DeSoto	8436	RCB Desoto, LLC	A415	G	0.010	0.090	0.090
DeSoto	8480	QC Stanby 5 LLC	A415	G	0.325	0.941	0.941
DeSoto	8566	Eugene H Turner Family Partnership, LTD	A470	G	1.203	4.356	4.356
DeSoto	8566	Eugene H Turner Family Partnership, LTD	A470	S	0.012	4.356	4.356
DeSoto	8660	Desoto 451 Land Trust	A415	G	0.105	0.356	0.356
DeSoto	8670	Citrus Pride	A415	G	0.084	0.211	0.211
DeSoto	8757	Southeast Groves, LLC	A415	G	0.150	0.464	0.464
DeSoto	8773	Charlotte Harbor Landing LLC	A50F	G	0.000	0.150	0.150
DeSoto	8801	Robert C and Lenora P Brewer	A415	G	0.013	0.103	0.103
DeSoto	8801	Robert C and Lenora P Brewer	A415	S	0.000	0.103	0.103
DeSoto	8860	Estate of V C Hollingsworth Sr	A415	G	0.359	0.504	0.504
DeSoto	8935	Estate of V C Hollingsworth	A415	G	0.074	0.131	0.130
DeSoto	8985	Southeast Groves, LLC	A415	G	2.094	3.109	3.109
DeSoto	9031	Sorrells Groves Inc	A415	G	0.035	0.127	0.127
DeSoto	9073	Anita J. Diaz Revocable Trust	L661	G	0.270	0.325	0.325
DeSoto	9127	Sunriver Citrus Florida LLC	A415	G	0.033	0.350	0.350
DeSoto	9154	QC Standby 5, LLC	A415	G	0.186	0.453	0.453
DeSoto	9185	QC Standby 5, LLC	A415	G	0.171	0.382	0.382
DeSoto	9226	PH Citrus, LLC	A535	G	0.302	2.013	2.013
DeSoto	9279	Sorrells Groves, Inc	A415	G	0.031	0.076	0.076
DeSoto	9373	Far-Lo Groves	A415	G	0.093	0.123	0.123

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
DeSoto	9469	Sorrells Groves, Inc	A415	G	0.026	0.259	0.259
DeSoto	9478	Michael Boran	A525	G	0.000	0.954	0.954
DeSoto	9492	West Vero Farms, LLC	A415	G	0.139	0.253	0.253
DeSoto	9492	West Vero Farms, LLC	A415	S	0.207	0.253	0.253
DeSoto	9567	L.I. Smith	A415	G	0.140	0.291	0.291
DeSoto	9571	Robert H Barben, Robert J Barben	A415	G	0.145	0.160	0.160
DeSoto	9715	James D and Robert C Brewer	A415	G	0.092	0.188	0.188
DeSoto	9716	Island Grove LLC	A410	G	0.027	0.089	0.089
DeSoto	9732	The Garrett Ranch Partnership LLLP	A490	G	0.079	0.147	0.147
DeSoto	9734	Ryals Citrus & Cattle	A470	G	0.000	0.227	0.227
DeSoto	9741	Mosaic Fertilizer LLC and CMI/Family Dynamics Inc	A470	G	0.619	1.572	1.572
DeSoto	9741	Mosaic Fertilizer LLC and CMI/Family Dynamics Inc	A470	S	0.000	1.572	1.572
DeSoto	9782	Peace Valley Groves, Inc	A415	G	0.377	0.648	0.648
DeSoto	9789	Kristie And Daniel Via	A415	G	0.006	0.079	0.079
DeSoto	9933	J.W. Crews, Jr., JDM Partnership	A415	G	0.025	0.074	0.074
DeSoto	10067	Ed Watson	A415	G	0.067	0.137	0.137
DeSoto	10233	Charles Adams, Jr.	A490	G	0.000	0.117	0.117
DeSoto	10251	Robert T. & Barbara G. Tiffany	A415	G	0.078	0.085	0.085
DeSoto	10379	M & R Groves	A410	G	0.032	0.380	0.380
DeSoto	10553	James D & E Coleman Brewer	A415	G	0.030	0.128	0.128
DeSoto	10719	Phillip W Turner Family Partnership LTD	A416	G	0.147	0.281	0.281
DeSoto	10722	Alico, Inc	A415	G	5.358	5.147	5.147
DeSoto	10744	James D and Walter L Brewer	A415	G	0.041	0.085	0.085
DeSoto	10892	L.I. Buddy Smith	A470	G	0.000	0.189	0.189
DeSoto	10968	C Dennis Carlton	A470	G	0.047	0.318	0.318
DeSoto	10971	William Marsh	A415	G	0.105	0.116	0.116
DeSoto	11017	QC Standby 5, LLC	A415	G	0.132	0.123	0.123
DeSoto	11124	Dimare Ruskin #2 LLC	A56F	G	1.106	2.259	2.259

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
DeSoto	11201	Sorrells Groves, Inc	A415	G	0.163	0.184	0.184
DeSoto	11202	Sorrells Groves, Inc	A415	G	0.035	0.112	0.112
DeSoto	11256	Esther Fuhrer	A470	G	0.000	0.231	0.231
DeSoto	11261	Peace River Development Corp	A56S	G	0.000	0.665	0.646
DeSoto	11604	Isaac F Albritton Groves Ltd	A470	G	0.000	0.398	0.398
DeSoto	11665	4 N 1 Grove LLC	A415	G	0.146	0.262	0.262
DeSoto	11718	Bermont Properties LLC	A415	G	0.101	0.151	0.151
DeSoto	12004	Department of Corrections	A58H	G	0.026	0.252	0.252
DeSoto	12195	CB Landholdings II LLC	A415	G	0.056	0.287	0.287
DeSoto	12253	Citrus Grove Inc	A415	G	0.060	0.155	0.155
DeSoto	12391	James Bickett	A490	G	0.282	0.803	0.803
DeSoto	12503	VCH Citrus, LLC	A525	G	0.000	0.497	0.497
DeSoto	12562	James and Judy Albritton	A415	G	0.004	0.131	0.131
DeSoto	12818	Island Grove LLC	A410	G	0.057	0.179	0.179
DeSoto	12866	VCH Citrus LLC and VC Hollingsworth Sr	A415	G	0.123	0.199	0.199
DeSoto	12875	QC Standby 5, LLC	A415	G	0.096	0.207	0.207
DeSoto	13000	Lynnhart Citrus LLC	A495	G	0.000	0.198	0.198
DeSoto	13002	Wheeler Farms, Inc	A416	G	0.000	0.076	0.076
DeSoto	13151	Navum Valley Farms 35, LLC	A415	G	0.071	0.469	0.469
DeSoto	13225	Evelyn I. Collins	A525	G	0.000	0.160	0.160
DeSoto	13225	Evelyn I. Collins	A525	S	0.000	0.160	0.160
DeSoto	13370	Jack Paul Properties Inc	A415	G	0.000	0.548	0.548
DeSoto	13370	Jack Paul Properties Inc	A415	S	0.000	0.548	0.548
DeSoto	20285	Sweetwood Citrus, Inc	A415	G	0.000	0.149	0.149
DeSoto	20554	St Michaels Ranch, LLC	A58S	G	0.322	3.078	3.078
DeSoto County Totals					42.450	Metered, mgd	
					6.327	Estimated, mgd, 287 WUPs	
					48.777	Total, mgd	

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hardee	52	H. Shawn and Zenybie Pollard	A410	G	0.032	0.118	0.118
Hardee	56	J.R. Paul, Jr. Family Limited Partnership	A415	G	0.082	0.097	0.097
Hardee	131	Ballantyne Groves, Inc	A415	G	0.018	0.091	0.091
Hardee	455	L & J Citrus and Cattle, LLC	A415	G	0.019	0.069	0.069
Hardee	456	Barlow Family Partnership	A415	G	0.018	0.115	0.115
Hardee	480	Johnson-Hardee Holdings	A415	G	0.046	0.131	0.131
Hardee	527	Stephen M & Jennifer S Palmer	A415	G	0.068	0.284	0.284
Hardee	558	Chapman Family Partnership, LLLP	A415	G	0.062	0.102	0.102
Hardee	614	Schwartz Hardee Properties, LLC	A415	G	0.044	0.143	0.143
Hardee	690	Gerald J McLean, Trustee	A415	G	0.038	0.194	0.194
Hardee	775	SLB&B of Wauchula, LLC	A415	G	0.046	0.088	0.088
Hardee	784	Mosaic Fertilizer, LLC	A415	G	0.265	0.404	0.404
Hardee	785	Mosaic Fertilizer, LLC	A415	G	1.100	1.185	1.185
Hardee	834	Lanier Ranch & Grove, Inc	A470	G	0.002	0.302	0.302
Hardee	1088	John L Beck, Andrew D Beck, Jose	A415	G	0.057	0.132	0.132
Hardee	1102	Peace River Investments of Wauchula, LLC	A415	G	0.024	0.119	0.119
Hardee	1148	Paul Mislevy Living Trust	A415	G	0.071	0.189	0.189
Hardee	1242	Barben Group	A415	G	0.208	0.263	0.263
Hardee	1245	Ronald F. and Sharon D. Moye	A415	G	0.000	0.146	0.146
Hardee	1257	C. Dennis Carlton Family Limited Partnership, LLLP	A56S	G	0.003	0.300	0.300
Hardee	1259	Bethel Farms LLLP	A415	G	0.118	0.162	0.162
Hardee	1283	J W Crews Jr	A415	G	0.028	0.112	0.112
Hardee	1324	Mosaic Fertilizer, LLC	A416	G	0.028	0.061	0.061
Hardee	1454	Crewsville Groves LLC	A415	G	0.734	0.955	0.955
Hardee	1472	Margaret Henderson	A415	G	0.003	0.096	0.096
Hardee	1576	W & S Duncan Limited Partnership	A415	G	0.059	0.131	0.131
Hardee	1655	T & C Investments, Inc	A415	G	0.050	0.269	0.269
Hardee	1672	Chapman Family Partnership, LLLP	A415	G	0.081	0.269	0.269

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hardee	1709	Sunny South Packing Company	A415	G	0.044	0.079	0.079
Hardee	1746	Morgan Grove, LLC	A415	G	0.214	0.533	0.533
Hardee	1906	Calyx Investments, LLC	A415	G	0.109	0.200	0.200
Hardee	1912	V & W Farms Inc of Delray Beach	A495	G	0.109	1.298	1.295
Hardee	2158	C.R. Melear Corp	L700	G	0.257	0.749	0.749
Hardee	2164	C.R. Melear Corporation	A415	G	0.097	0.371	0.371
Hardee	2270	Three B Grove and Ranch, LLP	A415	G	0.053	0.114	0.114
Hardee	2358	Rocking Cross Ranch Inc	A415	G	0.000	0.120	0.120
Hardee	2362	Johnson Wauchula 1033 Farm, LLC	A535	G	0.031	0.113	0.113
Hardee	2382	D H Ranch Inc	A490	G	0.000	0.149	0.149
Hardee	2467	Ben Hill Griffin, Inc	A455	G	0.154	1.271	1.271
Hardee	2584	John L. & Jeri A. Matz	A415	G	0.043	0.078	0.078
Hardee	2614	Hollingsworth Grove Properties LLC	A415	G	0.068	0.166	0.166
Hardee	2626	734 LMC Groves, LLC	A415	G	0.283	0.354	0.354
Hardee	2647	Willard Kelly Durrance, Jr	A490	G	0.038	0.183	0.183
Hardee	2648	W.K. Durrance, LLC	A455	G	0.118	0.438	0.438
Hardee	2727	Useppa Citrus, LLC	A415	G	0.081	0.157	0.157
Hardee	2774	Farr Groves LLC	A415	G	0.021	0.104	0.104
Hardee	2871	Tamiami Citrus, LLC	A415	G	0.598	1.340	1.340
Hardee	2871	Tamiami Citrus, LLC	A415	S	0.000	1.340	1.340
Hardee	2927	Carl M & Betty A Wilburn Co	A415	G	0.079	0.347	0.347
Hardee	2930	McCarlton Partners Ltd	A415	G	0.105	0.171	0.171
Hardee	2932	McCarlton Partners Ltd	A470	G	0.000	0.423	0.423
Hardee	3076	The Mosaic Co	A415	G	0.003	0.224	0.224
Hardee	3096	FLM, Inc	A415	G	0.000	0.200	0.200
Hardee	3119	Sweetwater Citrus Inc	A415	G	0.069	0.125	0.125
Hardee	3134	Crews Groves, Inc	A415	G	0.213	0.244	0.244
Hardee	3135	Crews Groves, Inc	A415	G	0.341	0.483	0.483

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hardee	3154	Durrance Groves Limited Partnership	A415	G	0.037	0.104	0.104
Hardee	3207	Crews Groves, Inc	A415	G	0.054	0.088	0.088
Hardee	3235	T.C. Prescott, LLC	A415	G	0.012	0.123	0.123
Hardee	3258	South Fort Meade Partnership, LP & Parker Farms, Inc	A470	G	0.000	1.171	1.171
Hardee	3258	South Fort Meade Partnership, LP & Parker Farms, Inc	A470	S	0.000	1.171	1.171
Hardee	3292	Joe L. Davis, Sr & J.W. Crews, Jr	A415	G	0.085	0.119	0.119
Hardee	3321	Mosaic Fertilizer LLC	A415	G	0.097	0.173	0.173
Hardee	3338	Mosaic Fertilizer, LLC	A415	G	0.000	0.030	0.030
Hardee	3341	George D N Beck & Glenn Elliott Beck	A415	G	0.060	0.123	0.123
Hardee	3478	Jed Groves Inc	A415	G	0.016	0.077	0.077
Hardee	3508	Mosaic Fertilizer, LLC	A646	G	0.000	0.306	0.306
Hardee	3514	Quail Creek Farms Inc & Lily Land LLC	A525	G	0.001	0.579	0.579
Hardee	3592	Square D Ranch Ltd LLP	A490	G	0.000	0.335	0.335
Hardee	3599	Glenn Rucks	A495	G	0.210	0.432	0.432
Hardee	3612	William K. and Elizabeth A. Durrance	A415	G	0.144	0.112	0.112
Hardee	3626	South Property Holdings, LLC	A415	G	0.124	0.221	0.221
Hardee	3669	Mosaic Fertilizer, LLC	A415	G	0.000	6.392	0.002
Hardee	3695	3-C Ranch Ltd	A56S	G	0.198	0.825	0.825
Hardee	4041	Ninfa C Davis Family LLC	A415	G	0.116	0.142	0.142
Hardee	4197	Krause Groves, LLC	A415	G	0.043	0.114	0.114
Hardee	4229	Peace Valley Groves, Inc	A415	G	0.100	0.120	0.120
Hardee	4487	Ben Hill Griffin, Inc	A415	G	0.175	0.321	0.321
Hardee	4525	Wauchula Farms, LLC	A480	G	0.065	0.111	0.111
Hardee	4554	F L M Inc	A415	G	0.000	0.130	0.130
Hardee	4600	Sweetwater Preserve, LLC	A535	G	0.385	1.163	1.163
Hardee	4600	Sweetwater Preserve, LLC	A535	S	0.037	1.163	1.163
Hardee	4660	Rolfe G Thompson Indiv & Trustee Thompson Family Trust	A56S	G	0.000	0.391	0.391
Hardee	4719	Lamb Groves, Inc	A415	G	0.067	0.142	0.142

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hardee	4769	Himrod Groves Limited Partnership	A415	G	0.163	0.201	0.201
Hardee	4817	Twenty Twenty Groves, Inc	A415	G	1.117	1.771	1.771
Hardee	4817	Twenty Twenty Groves, Inc	A415	S	0.000	1.771	1.771
Hardee	4994	Maggie Simmons Messana	A525	G	0.061	0.211	0.211
Hardee	5024	Mary Jane and Charles Matheny	A415	G	0.020	0.095	0.095
Hardee	5048	FLM, Inc	A415	G	0.079	0.131	0.131
Hardee	5912	Ninfa C Davis Family LLC	A415	G	0.056	0.108	0.108
Hardee	5918	Crews Groves, Inc	A490	G	0.037	0.293	0.293
Hardee	6368	Donnis A. Barber	A480	G	0.134	0.188	0.188
Hardee	6393	Theo, Christina, Austin, and Henry Bryant	A480	G	0.056	0.107	0.107
Hardee	6550	Zolfo Springs Grove, LLC	A415	G	0.069	0.114	0.114
Hardee	6579	John C. Henderson	A415	G	0.054	0.077	0.077
Hardee	6925	Farr Groves LLC	A415	G	0.047	0.097	0.097
Hardee	7025	Ridge Ranch, LLC	A56S	G	0.003	1.301	1.301
Hardee	7099	J. R. Paul, Jr. Family Limited Partnership	A415	G	0.179	0.145	0.145
Hardee	7248	RS/Story Properties	A415	G	0.064	0.155	0.155
Hardee	7332	Mosaic Fertilizer, LLC	A415	G	0.079	0.123	0.123
Hardee	7341	Cornerstone Grove, LLC	A415	G	0.083	0.163	0.163
Hardee	7376	Sorrells Groves, Inc	A415	G	0.055	0.135	0.135
Hardee	7408	Southern Sisters Family LP	A415	G	0.032	0.107	0.107
Hardee	7447	Robert C & Robin E Abbott	A415	G	0.114	0.126	0.126
Hardee	7483	Carlton Melear and Son Dairy, Inc	L615	G	0.031	0.375	0.375
Hardee	7505	Kahn Grove Service Co	A415	G	0.132	0.133	0.133
Hardee	7522	Putnam Groves, Inc	A490	G	0.000	0.410	0.410
Hardee	7743	Wauchula Farms	A480	G	0.113	0.243	0.243
Hardee	7759	Edgar Davis	A415	G	0.001	0.074	0.074
Hardee	7778	Kenneth DeVane Groves, Inc	A415	G	0.082	0.137	0.137
Hardee	7785	The Durrance Groves Limited Partnership	A415	G	0.000	0.075	0.075

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hardee	7831	Kyland, LLC	A470	G	0.000	0.176	0.176
Hardee	8007	Daniel W. & Karen Dodrill	A415	G	0.017	0.102	0.102
Hardee	8057	Charles Bass	A535	G	0.046	0.461	0.461
Hardee	8057	Charles Bass	A535	S	0.000	0.461	0.461
Hardee	8204	Blue Fields USA, LLC	A410	G	0.045	0.057	0.057
Hardee	8234	Royce & Martha Tyson	A415	G	0.049	0.105	0.105
Hardee	8372	Daniel H. & Linda M. Smith	A415	G	0.062	0.157	0.157
Hardee	8695	Peter Goldstein	A415	G	0.098	0.131	0.131
Hardee	8696	Dole Berry Company	A410	G	0.062	0.166	0.166
Hardee	8734	Mosaic Fertilizer LLC	A470	G	0.000	0.343	0.343
Hardee	8839	Miles & Doris Schweighofer	A415	G	0.003	0.100	0.100
Hardee	8845	C. Elton Crews Family LP, LLLP	A415	G	0.087	0.134	0.134
Hardee	8895	V C Hollingsworth Jr & Estate of V C Hollingsworth Sr	A415	G	0.263	0.574	0.574
Hardee	8907	Davis Enterprises, Inc	A415	G	0.130	0.169	0.169
Hardee	8917	VCH Citrus LLC and VC Hollingsworth Sr	A415	G	0.163	0.243	0.243
Hardee	8963	C&T Citrus, LLC	A415	G	0.142	0.206	0.206
Hardee	8964	Limestone Ranch, LLC	A415	G	0.000	0.071	0.071
Hardee	8969	German Florida Citrus, LLC	A415	G	0.155	0.372	0.372
Hardee	8975	Prewitt Enterprises, LLC	A415	G	0.087	0.224	0.224
Hardee	9027	Davis Enterprises Inc / Davis Citrus Mgmt Inc	A415	G	0.130	0.355	0.355
Hardee	9038	William Harrison	A490	G	0.070	0.163	0.163
Hardee	9171	Stevens Land & Cattle LLC	A470	G	0.118	0.495	0.495
Hardee	9251	Susie K. Paras	A470	G	0.000	0.205	0.205
Hardee	9390	Windmill Farms Nurseries, Inc	A480	G	0.096	0.238	0.238
Hardee	9390	Windmill Farms Nurseries, Inc	A480	S	0.000	0.238	0.238
Hardee	9486	South Ft Meade Land Management, Inc	A415	G	0.232	0.495	0.495
Hardee	9550	Hardee Correctional Institution	A58S	G	0.014	0.301	0.016
Hardee	9673	Debra, Thomas S., Thomas C, & Kara Watkins	A415	G	0.133	0.725	0.725

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hardee	9683	Thelma C. Raley, Inc	A415	G	0.367	0.295	0.295
Hardee	9689	Lake Sawyer Properties, Inc	A415	G	0.095	0.138	0.138
Hardee	9691	The Groves of Peace River, Inc	A415	G	0.185	0.128	0.128
Hardee	9809	Charles J Abbott, Trustee	A415	G	0.038	0.076	0.076
Hardee	9847	Jason Bentley	A415	G	0.125	0.157	0.157
Hardee	9850	Bentley Snyder	A415	G	0.052	0.074	0.074
Hardee	9901	Smoak Groves, Inc	A415	G	0.306	0.497	0.497
Hardee	9901	Smoak Groves, Inc	A415	S	0.005	0.497	0.497
Hardee	9987	Redding Farms, LLC	A480	G	0.000	0.062	0.062
Hardee	10009	E L Davis Jr	A495	G	0.019	0.223	0.223
Hardee	10052	Limestone Ranch LLC	A470	G	0.056	0.181	0.181
Hardee	10309	F.L. Revell	A480	G	0.000	0.089	0.089
Hardee	10671	Mosaic Fertilizer LLC	A415	G	0.877	2.294	2.294
Hardee	10771	Carl Wilburn	A415	G	0.065	0.132	0.132
Hardee	10934	HRS Real Estate Trust	A470	G	0.000	0.209	0.209
Hardee	11032	Donnis A. Barber	A495	G	0.000	0.077	0.077
Hardee	11083	Patricia Grimsley Trust & Grimsley Groves Inc	A415	G	0.020	0.084	0.084
Hardee	11147	D-3 Farms, LLC and Elizabeth & W. Kelly Durrance Jr	A470	G	0.000	0.208	0.208
Hardee	11182	R M D Properties LLC	A535	G	0.094	0.482	0.482
Hardee	11189	Harvill Groves Ltd	A415	G	0.240	0.319	0.319
Hardee	11240	Story Groves, Inc	A415	G	0.255	0.352	0.352
Hardee	11244	Dixie Belle Groves Partnership	A415	G	0.050	0.090	0.090
Hardee	11395	Mosaic Fertilizer LLC	A51S	G	0.003	0.441	0.441
Hardee	11412	Mosaic Fertilizer, LLC	A646	G	0.000	0.306	0.306
Hardee	11639	Brian Lambert	A480	G	0.261	0.277	0.277
Hardee	11639	Brian Lambert	A480	S	0.000	0.277	0.277
Hardee	11714	Mosaic Fertilizer, LLC	A415	G	0.055	0.182	0.182
Hardee	11840	Glen Elliot Beck, as successor Trustee	A415	G	0.022	0.104	0.104

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hardee	11993	Roberto, Salvador, Aniceto Estrada	A56S	G	0.000	0.290	0.290
Hardee	12199	Ida Mae Kipp / Triangle K Ranch, Inc	A410	G	0.003	0.131	0.131
Hardee	12331	Classic Caladiums Inc & Smoak Groves Inc	A486	G	0.306	0.929	0.843
Hardee	12509	Mission Farms of Wellington, Inc	L600	G	0.000	0.003	0.003
Hardee	12643	James Bickett	A416	G	0.272	0.414	0.414
Hardee	12646	Donnis Barber	A470	G	0.000	0.493	0.493
Hardee	12757	New Port Groves Partnership	A415	G	0.088	0.124	0.124
Hardee	12881	Stephanie Davidson	A535	G	0.060	0.490	0.490
Hardee	12882	Arthur S. Womack Family, LLC	A415	G	0.073	0.082	0.082
Hardee	13145	Blue Fields USA LLC	A410	G	0.079	0.112	0.112
Hardee	13184	Mosaic Fertilizer, LLC	A470	G	0.000	0.295	0.295
Hardee	13188	Germantown Citrus Partnership	A415	G	0.066	0.129	0.129
Hardee	13248	The Groves of Peace River, Inc	A415	G	0.375	0.360	0.360
Hardee	20376	Pebbledale Farms, Inc	A410	G	0.184	0.316	0.316
Hardee	20449	Twenty Twenty Groves, Inc	A415	G	0.000	0.532	0.532
Hardee	20483	Charles J & Josephine Abbott Trustees	A415	G	0.070	0.158	0.158
Hardee County Totals					19.095	Metered, mgd	
					14.500	Estimated, mgd, 649 WUPs	
					33.595	Total, mgd	
Hernando	There were no metered agricultural WUPs in Hernando County						
Hernando County Totals					0.000	Metered, mgd	
					1.568	Estimated, mgd, 68 WUPs	
					1.568	Total, mgd	
Highlands	3736	Avon Park Holdings, LLC	A415	G	0.136	0.234	0.234
Highlands	4075	Ward Family Ltd Partnership	A415	G	0.320	0.307	0.307
Highlands	4077	Martin J and Karen McKenna	A415	G	0.000	0.127	0.127
Highlands	4086	Cargill Juice North America, Inc	A415	G	0.000	0.087	0.051
Highlands	4162	Macbeth Associates, Ltd	A415	G	0.058	0.129	0.129

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Highlands	4219	S.Y. Hartt & Son, Inc	A415	G	1.226	1.297	1.297
Highlands	4230	Peace Valley Groves, Inc	A415	G	0.055	0.098	0.098
Highlands	4251	Gapway Grove Corporation	A415	G	0.034	0.185	0.185
Highlands	4253	Gapway Grove Corporation	A415	G	0.034	0.225	0.225
Highlands	4284	Gloria Chapman & Stephens Groves, Inc	A415	G	0.105	0.206	0.206
Highlands	4288	C. Elton Crews Family LP, LLLP	A415	G	0.039	0.092	0.092
Highlands	4300	Mark D. Beck Family Trust	A415	G	0.025	0.107	0.107
Highlands	4324	Dinner Lake Grove, LLC	A415	G	0.044	0.024	0.024
Highlands	4393	Orange Creek Groves Inc	A415	G	0.193	0.289	0.289
Highlands	4527	John L. Beck Living Trust	A415	G	0.089	0.143	0.143
Highlands	4557	Saxon Groves Inc DbA Reflections on Silver Lake	A415	G	0.051	0.260	0.260
Highlands	4557	Saxon Groves Inc DbA Reflections on Silver Lake	A415	S	0.059	0.260	0.260
Highlands	4604	Avon Park Lake Estates, LLC	A415	G	0.113	0.148	0.148
Highlands	4677	Ben Hill Griffin, Inc	A415	G	0.060	0.100	0.100
Highlands	4678	Ben Hill Griffin, Inc	A415	G	0.067	0.119	0.119
Highlands	4679	Ben Hill Griffin, Inc	A415	G	1.188	1.593	1.593
Highlands	4680	Ben Hill Griffin, Inc	A415	G	1.070	1.596	1.596
Highlands	4681	Ben Hill Griffin, Inc	A415	G	0.074	0.104	0.104
Highlands	4685	Ben Hill Griffin, Inc	A415	G	0.361	0.425	0.425
Highlands	4896	734 BLP Groves, LLC	A415	G	0.593	0.833	0.833
Highlands	4916	EMW Associates, LLC	A415	S	0.000	0.083	0.083
Highlands	4922	Crutchfield Groves, Inc	A415	G	0.061	0.110	0.110
Highlands	4941	Charles L. and Anne D. Reynolds, Jr	A415	S	0.021	0.073	0.073
Highlands	5009	Smoak Groves, Inc	A415	G	0.000	0.028	0.028
Highlands	5073	H. Earl & J. Thomas Crutchfield	A415	G	0.149	0.195	0.195
Highlands	5170	Dasher Groves, Inc	A415	G	0.000	0.139	0.139
Highlands	5178	Lost Lake Groves, Inc	A415	S	0.447	0.464	0.464
Highlands	5182	Charles Reynolds	A415	G	0.114	0.214	0.214

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Highlands	5232	Crews Groves, Inc & C. Elton Crews Family, LLLP	A415	G	0.089	0.107	0.107
Highlands	5290	OC Farms, Inc	A415	G	0.033	0.196	0.196
Highlands	5291	Davis Enterprises, Inc	A415	G	0.236	0.272	0.272
Highlands	5292	Crutchfield Groves, In	A415	G	0.051	0.147	0.147
Highlands	5293	Perry Cattle, LLC	A415	G	0.202	0.381	0.381
Highlands	5293	Perry Cattle, LLC	A415	S	0.061	0.381	0.381
Highlands	5322	Harshman Holdings, Inc	A415	G	0.040	0.153	0.153
Highlands	5330	Stephen D. Seims & Joan P. Seims	A490	G	0.000	0.185	0.185
Highlands	5337	Crutchfield Groves, Inc	A415	G	0.075	0.140	0.140
Highlands	5342	Henry Crutchfield Inc	A415	G	0.060	0.100	0.100
Highlands	5346	Lo Brothers Enterprises Inc	A415	G	0.012	0.012	0.012
Highlands	5354	Crutchfield Groves, Inc	A415	G	0.049	0.090	0.090
Highlands	5445	Joe L. Davis, Jr. Trust	A415	G	0.057	0.094	0.094
Highlands	5464	C Elton Crews Family LP LLLP	A415	G	0.095	0.147	0.147
Highlands	5516	Wabasso Road Dairy, Inc	A486	G	0.332	1.585	1.585
Highlands	5522	Crews Groves Inc & C Elton Crews LLLP	A415	G	0.171	0.224	0.224
Highlands	5537	Joseph Macbeth	A415	G	0.219	0.386	0.386
Highlands	5563	Karen McKenna, Alton Rogers & JW Crews Jr	A415	G	0.105	0.196	0.196
Highlands	5566	Crews Groves, Inc	A415	G	0.145	0.139	0.139
Highlands	5574	Joe L Davis Jr & Joe L Davis Sr	A415	G	0.067	0.096	0.096
Highlands	5583	Robert Crews	A415	G	0.158	0.247	0.247
Highlands	5626	Robert J. Barben, Inc	A415	G	0.446	0.610	0.610
Highlands	5627	Robert H Barben, Robert J Barben Inc	A415	G	0.313	0.468	0.468
Highlands	5628	Running W Citrus Limited Partnership	A415	G	0.086	0.100	0.100
Highlands	5630	Macbeth Associates, Ltd	A415	G	0.054	0.107	0.107
Highlands	5638	Running W Citrus Limited Partnership	A415	G	1.566	1.716	1.716
Highlands	5639	734 LMC Groves, LLC	A415	G	0.431	0.731	0.731
Highlands	5676	7l Lake Placid LLC	A415	G	1.686	2.483	2.483

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Highlands	5719	Ward's Groves, LLC	A415	G	0.269	0.341	0.341
Highlands	5720	Emmett & Arost Groves, LLC	A415	G	0.077	0.095	0.095
Highlands	5878	Charles Reynolds	A415	S	0.064	0.107	0.107
Highlands	5905	Perry Brothers	A415	G	0.107	0.174	0.174
Highlands	5920	Pioneer Grove, Inc	A415	G	0.269	0.266	0.266
Highlands	5999	Watters Groves, Inc	A415	G	0.048	0.100	0.100
Highlands	5999	Watters Groves, Inc	A415	S	0.000	0.100	0.100
Highlands	6000	Lake Placid Groves 93 LLC	A415	G	0.004	0.123	0.123
Highlands	6031	Lake Placid Groves, LLC	A415	G	1.915	1.830	1.830
Highlands	6146	Charles L. and Anne D. Reynolds, Jr	A415	G	0.060	0.093	0.093
Highlands	6146	Charles L. and Anne D. Reynolds, Jr	A415	S	0.000	0.093	0.093
Highlands	6147	Sree Govardhan LLC	A415	G	0.096	0.240	0.240
Highlands	6154	Buck Lake Citrus, Inc	A415	G	0.132	0.183	0.183
Highlands	6160	LDS Land Trust	A415	G	0.047	0.099	0.099
Highlands	6162	Cow Slough, Inc	A415	G	0.413	0.472	0.472
Highlands	6165	Smoak Groves, Inc	A415	G	0.582	0.759	0.759
Highlands	6166	Smoak Groves, Inc	A415	G	0.240	0.217	0.217
Highlands	6167	Edward L. Smoak Revocable Trust	A415	G	0.086	0.166	0.166
Highlands	6172	Bear's Den Groves, Inc	A415	G	0.000	0.078	0.078
Highlands	6172	Bear's Den Groves, Inc	A415	S	0.000	0.078	0.078
Highlands	6173	Thelma C. Raley, Inc	A415	G	0.000	0.106	0.106
Highlands	6173	Thelma C. Raley, Inc	A415	S	0.000	0.106	0.106
Highlands	6176	Cow Slough, Inc	A415	G	0.522	0.620	0.620
Highlands	6176	Cow Slough, Inc	A415	S	0.035	0.620	0.620
Highlands	6179	Smoak Groves Inc	A415	G	0.229	0.255	0.255
Highlands	6179	Smoak Groves Inc	A415	S	0.000	0.255	0.255
Highlands	6189	T/K Reynolds; C/A Reynold S/B Bullard	A415	G	0.075	0.117	0.117
Highlands	6197	Turner Groves Citrus Limited Partnership	A415	G	0.400	5.191	5.191

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Highlands	6197	Turner Groves Citrus Limited Partnership	A415	S	4.381	5.191	5.191
Highlands	6211	Ben Hill Griffin, Inc	A415	G	0.147	0.275	0.275
Highlands	6234	Heartland National Bank	A415	G	0.000	0.095	0.095
Highlands	6320	Davis Enterprises, Inc	A415	G	0.205	0.297	0.297
Highlands	6409	Perry Cattle, LLC	A415	G	0.156	0.197	0.197
Highlands	6432	Heartland Park LLC	A415	G	0.000	0.120	0.120
Highlands	6516	Carl Wilburn	A415	G	0.055	0.198	0.198
Highlands	6827	Lake Placid Groves, LLC	A415	G	0.250	0.235	0.235
Highlands	6957	Scarborough Investments, Inc	A415	G	0.137	0.414	0.414
Highlands	7111	Griffin Family Limited Partnership	A415	G	0.090	0.173	0.173
Highlands	7112	Emmett & Arost Groves, LLC	A415	G	0.078	0.101	0.101
Highlands	7485	Denco, LLC	A415	G	0.078	0.269	0.269
Highlands	7515	South Florida Sod, Inc	A525	G	0.000	0.319	0.319
Highlands	7540	Board of Tst Internal Imp Trust Fund	A415	G	0.093	0.306	0.306
Highlands	7580	CLP Citrus Inc & Sebring Citrus Ranch LLC	A415	G	0.158	0.469	0.469
Highlands	7615	Boston Mining Company	A415	G	0.046	0.089	0.089
Highlands	7623	Layne Lightsey	L600	G	0.000	0.020	0.020
Highlands	7682	G Perry Mason III & Amanda Mason	A415	G	0.072	0.139	0.139
Highlands	7693	Lo Brothers Enterprises Inc	A415	G	0.050	0.063	0.063
Highlands	7874	George P. Mason, Jr. and Marilyn S. Mason	A415	G	0.000	0.093	0.093
Highlands	8136	Crutchfield Groves, Inc	A415	G	0.160	0.214	0.214
Highlands	8268	Crutchfield Groves, Inc	A415	G	0.101	0.130	0.130
Highlands	8298	Hidden Acres Nursery, Inc	A480	G	0.035	0.205	0.205
Highlands	8298	Hidden Acres Nursery, Inc	A480	S	0.163	0.205	0.205
Highlands	8394	Glenn O Murphy Partnership Ltd	A415	G	0.039	0.173	0.173
Highlands	8442	Lettuce Creek Cattle Co.& Ridgeland Ag Corp	A415	S	0.282	0.395	0.395
Highlands	8787	Gloria Chapman & Stephens Groves, Inc	A415	G	0.128	0.269	0.269
Highlands	8868	Rafter T. Realty Inc	A525	G	0.000	0.269	0.269

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Highlands	8930	Albritton & Sons, Ltd	A490	G	0.000	0.394	0.394
Highlands	8957	Dressel Groves	A415	G	0.085	0.201	0.201
Highlands	9124	Pyrus Agricultural LLC	A480	G	0.106	0.497	0.497
Highlands	9167	Bob Paul, Inc	A415	G	0.139	0.193	0.193
Highlands	9174	Crews & Davis	A415	G	0.159	0.223	0.223
Highlands	9211	Russell Grove North, Inc	A415	G	0.132	0.123	0.123
Highlands	9302	Lake Placid Groves, LLC	A415	G	1.377	2.006	2.006
Highlands	9380	J W Yonce & Sons Farms Inc	A415	G	0.060	0.102	0.102
Highlands	9627	Hauptmann & Thompson Company Inc	A415	G	0.097	0.192	0.192
Highlands	9710	Thelma C. Raley, Inc	A415	G	0.146	0.188	0.188
Highlands	10027	Quality Turf LC	A525	G	0.491	0.409	0.409
Highlands	10078	The Machado Family Limited Partnership No. 1	A415	G	0.177	0.315	0.315
Highlands	10628	C & L Land Co., LLLP	A415	G	0.041	0.099	0.099
Highlands	10676	Craig J. Griffith Rev. Living Trust	A415	G	0.050	0.103	0.103
Highlands	11077	David McKenzie	A415	G	0.131	0.118	0.118
Highlands	11089	DP Partners Ltd & PGP Partners Ltd	A415	G	0.091	0.186	0.186
Highlands	11142	Perry Brothers	A415	G	0.051	0.115	0.115
Highlands	11379	J. Ned & Tammy J. Hancock	A415	G	0.060	0.118	0.118
Highlands	11461	Barbara and Stephen Bullard	A415	G	0.081	0.189	0.189
Highlands	11724	Smoak Groves Inc	A415	G	0.228	0.203	0.203
Highlands	11766	Michael Brown	A490	G	0.000	0.243	0.243
Highlands	12025	Peter Goldstein	A415	G	0.042	0.101	0.101
Highlands	13258	Smoak Groves, Inc	A415	G	0.307	0.425	0.425
Highlands	20054	Black Bear Citrus, LLC	A415	G	0.138	0.205	0.205
Highlands	20097	Robert Barben	A410	G	0.083	0.201	0.201
Highlands	20265	Germantown Citrus Partnership	A415	G	0.216	0.405	0.405
Highlands	20608	G & M Groves, Inc	A415	G	0.000	0.035	0.035

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Highlands County Totals					30.693	Metered, mgd	
					7.752	Estimated, mgd, 362 WUPs	
					38.445	Total, mgd	
Hillsborough	71	Charlie Grimes Farms, LLC	A410	G	0.033	0.020	0.020
Hillsborough	74	Samuel D Williamson	A535	G	0.067	0.181	0.181
Hillsborough	74	Samuel D Williamson	A535	S	0.006	0.181	0.181
Hillsborough	75	Glenn Williamson	A535	G	0.027	0.063	0.063
Hillsborough	85	J.C. Strickland Kocsis	A415	G	0.032	0.032	0.032
Hillsborough	105	Lance H. Ham & Norma G. Ham Revocable Living Trust	A56F	G	0.000	0.067	0.067
Hillsborough	119	Alvin C. and Clinton H. Beauchamp, and Betty J. Felty	A44S	G	0.005	0.040	0.040
Hillsborough	119	Alvin C. and Clinton H. Beauchamp, and Betty J. Felty	A44S	S	0.006	0.040	0.040
Hillsborough	120	Grantham Epps	A480	G	0.000	0.115	0.115
Hillsborough	147	James R. and Jennie May Harwell	A58S	G	0.033	0.048	0.048
Hillsborough	162	Loop Farms, LLC	A56S	G	0.265	0.455	0.455
Hillsborough	179	E.W. Simmons, III and Carol Simmons	A535	G	0.103	0.188	0.188
Hillsborough	180	Sam Astin III & Buffy S Astin	A535	G	0.000	0.138	0.138
Hillsborough	181	Helen Geraldine Mitchell	A535	G	0.052	0.049	0.049
Hillsborough	182	E. W. Simmons Farms, Inc	A58S	G	0.063	0.179	0.179
Hillsborough	192	Gracepoint Plant City	A410	G	0.004	0.018	0.015
Hillsborough	200	Penny Fuller	A415	G	0.000	0.053	0.053
Hillsborough	201	Trapnell Road Plant City, LLC	A535	G	0.066	0.105	0.105
Hillsborough	263	Carlton Family 2012 Irrevocable Trust	A535	G	0.202	0.164	0.164
Hillsborough	274	John D Lawrence Trustee	A535	G	0.034	0.110	0.110
Hillsborough	274	John D Lawrence Trustee	A535	S	0.009	0.110	0.110
Hillsborough	277	Gary R & Terri L Parke	A56S	G	0.063	0.080	0.080
Hillsborough	286	Kenneth Alred	A44S	G	0.082	0.123	0.123
Hillsborough	287	John Holland	A415	G	0.000	0.008	0.008
Hillsborough	289	Michael Shaw	A480	G	0.000	0.041	0.041

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	297	Albritton & Sons, Ltd	A415	G	0.001	0.074	0.074
Hillsborough	360	Astin Strawberry Property Management LLC	A470	G	0.044	2.271	2.271
Hillsborough	360	Astin Strawberry Property Management	A470	S	0.000	2.271	2.271
Hillsborough	362	Ruby Jean Redman	A535	G	0.024	0.063	0.063
Hillsborough	362	Ruby Jean Redman	A535	S	0.000	0.063	0.063
Hillsborough	366	Wilbur A. Smith and Nelda B. Smith, Trustees	A535	G	0.008	0.028	0.028
Hillsborough	381	Charles G. Grimes, Trustee and Betty J. Grimes, Trustee	A535	G	0.072	0.107	0.107
Hillsborough	390	Sweet Life Farms, LLC	A535	G	0.117	0.382	0.382
Hillsborough	390	Sweet Life Farms, LLC	A535	S	0.001	0.382	0.382
Hillsborough	411	Hillsborough County Real Estate Dept	A495	G	0.000	0.277	0.277
Hillsborough	417	Benson O & Debbie Dukes	A535	G	0.062	0.037	0.037
Hillsborough	495	Bonnie F Wetherington Trustee	A535	G	0.061	0.095	0.095
Hillsborough	495	Bonnie F Wetherington Trustee	A535	S	0.051	0.095	0.095
Hillsborough	500	D. Dianne Bryant, Trustee Herman Prosch Revocable Trust	A535	G	0.022	0.035	0.035
Hillsborough	522	Wetherington Properties, LLC	A535	G	0.053	0.078	0.078
Hillsborough	526	R G Moll & Family Inc	A535	G	0.020	0.226	0.226
Hillsborough	526	R G Moll & Family Inc	A535	S	0.000	0.226	0.226
Hillsborough	534	Farkas Groves, Inc	A415	G	0.000	0.031	0.031
Hillsborough	535	Farkas Groves, Inc	A410	G	0.009	0.083	0.083
Hillsborough	536	Borchard Brothers, LLC	A415	G	0.078	0.028	0.028
Hillsborough	565	Medley Groves, Inc	A415	G	0.001	0.047	0.047
Hillsborough	566	Robert Marvin Dykes and Linda Medley Dykes	A415	G	0.034	0.015	0.015
Hillsborough	571	Sam Astin, III	A535	G	0.020	0.019	0.019
Hillsborough	571	Sam Astin, III	A535	S	0.000	0.019	0.019
Hillsborough	605	Virginia A & Edward Zagar	A415	G	0.001	0.016	0.016
Hillsborough	650	Gladys Brown Stanaland	A415	G	0.002	0.006	0.006
Hillsborough	654	Council Bay Farms LTD	A56S	G	0.001	0.299	0.299
Hillsborough	655	Farmland Reserve Inc	A56S	G	0.266	1.744	1.744

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	656	Suburban Land Preserve Inc	A56S	G	0.725	0.940	0.940
Hillsborough	659	Farmland Reserve, Inc	A46S	G	0.814	1.940	1.940
Hillsborough	659	Farmland Reserve, Inc	A46S	S	0.000	1.940	1.940
Hillsborough	660	Farmland Reserve, Inc	A56S	G	0.317	0.499	0.499
Hillsborough	662	Donald & Mary Shuman Inc	A41S	G	0.000	0.206	0.206
Hillsborough	689	Hillsborough County School Board	A53S	G	0.002	0.150	0.004
Hillsborough	739	Three Star Farms Inc	A53S	G	0.198	0.368	0.368
Hillsborough	739	Three Star Farms Inc	A53S	S	0.000	0.368	0.368
Hillsborough	760	Wilbur Brantley as Trustee of the W & E Groves Land Trust	A65S	G	0.036	0.223	0.223
Hillsborough	770	Franklin Properties of Hillsborough County, LLC	A65S	G	0.048	0.183	0.183
Hillsborough	786	McClelland Louise S Life Estate	A65S	G	0.029	0.073	0.073
Hillsborough	788	Hinton Enterprises of Sydney Inc	A53S	G	0.001	0.076	0.076
Hillsborough	788	Hinton Enterprises of Sydney Inc	A53S	S	0.040	0.076	0.076
Hillsborough	836	Mella Lewis Estate	A53S	G	0.072	0.071	0.071
Hillsborough	836	Mella Lewis Estate	A53S	S	0.000	0.071	0.071
Hillsborough	840	Corrie L. Lariscy	A53S	G	0.002	0.035	0.035
Hillsborough	857	FL Strawberry Res & Ed Foundation Inc	A53S	G	0.046	0.042	0.042
Hillsborough	865	Marcus Glenn and Sarah Francis Williamson	A53S	G	0.090	0.133	0.133
Hillsborough	870	Blanche S Oswald Revocable Trust	A53S	G	0.047	0.053	0.053
Hillsborough	873	Steve, Albert & Martha Lindsey And Betty Howard	A53S	G	0.026	0.086	0.086
Hillsborough	873	Steve, Albert & Martha Lindsey And Betty Howard	A53S	S	0.000	0.086	0.086
Hillsborough	880	Sultenfuss Ltd	A41S	G	0.001	0.312	0.312
Hillsborough	891	Sam Astin III & Buffy S Astin	A53S	G	0.081	0.149	0.149
Hillsborough	953	Cameron Citrus Corp	A41S	G	0.016	0.084	0.084
Hillsborough	953	Cameron Citrus Corp	A41S	S	0.000	0.084	0.084
Hillsborough	969	Uy Q Tran, Tris D. Tran, and Hang Ngo	A470	G	0.001	0.121	0.121
Hillsborough	979	D & L Land Partners Inc	A41S	G	0.000	0.037	0.037
Hillsborough	985	Diehl Family LP	A56S	G	1.822	2.725	2.724

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	992	Hoang Le	A58H	G	0.017	0.025	0.025
Hillsborough	995	Lane Groves, Inc	A495	G	0.000	0.190	0.190
Hillsborough	1057	Dot Walden Farms, Inc	A495	G	0.039	0.153	0.153
Hillsborough	1063	Sultenfuss, Ltd	A415	G	0.000	0.056	0.056
Hillsborough	1067	M.D. Council and Sons, Inc	A535	G	0.042	0.264	0.264
Hillsborough	1120	SR Ruskin Shell Point LLC c/o Regent Properties LLC	A495	G	0.000	0.116	0.116
Hillsborough	1124	Artesian Farms Inc/Dickman Investments LLC	A56S	G	0.006	0.785	0.785
Hillsborough	1130	James Borchard	A535	G	0.046	0.106	0.106
Hillsborough	1137	Richard A. & Peggy F. Hall	A415	G	0.003	0.012	0.012
Hillsborough	1217	Yorktown Technologies, LP	L660	G	0.161	0.195	0.195
Hillsborough	1223	N. R. Keene R Groves, Inc	A415	G	0.000	0.033	0.033
Hillsborough	1276	Ronnie E. & Pamela D. Young	A535	G	0.136	0.235	0.235
Hillsborough	1276	Ronnie E. & Pamela D. Young	A535	S	0.047	0.235	0.235
Hillsborough	1367	Hickory Hills Land Company	A490	G	0.000	0.392	0.392
Hillsborough	1417	Susan K Fouts	A415	G	0.001	0.030	0.030
Hillsborough	1432	Three Star Farms Inc	A535	G	0.029	0.074	0.074
Hillsborough	1432	Three Star Farms Inc	A535	S	0.008	0.074	0.074
Hillsborough	1444	G & G Farms, LLC	A535	G	0.147	0.245	0.245
Hillsborough	1444	G & G Farms, LLC	A535	S	0.000	0.245	0.245
Hillsborough	1445	Rocking V Ranch, LLC	A535	G	0.050	0.075	0.075
Hillsborough	1446	S & K Howard Enterprises, LLC	A58S	G	0.013	0.030	0.030
Hillsborough	1451	L & J Citrus and Cattle LLC	A415	G	0.017	0.087	0.087
Hillsborough	1464	Farkas Citrus Nursery, Inc	A480	G	0.004	0.036	0.036
Hillsborough	1489	A.E. and Leola Chancey	A535	G	0.012	0.024	0.024
Hillsborough	1504	Freda Dukes Schofield As Trustee	A535	G	0.049	0.070	0.070
Hillsborough	1544	Double Screen Associates, LLLP	A415	G	0.000	0.147	0.147
Hillsborough	1575	Albert M Quagliani, Amelia & Richard Skolnik	A535	G	0.044	0.058	0.058
Hillsborough	1575	Albert M Quagliani, Amelia & Richard Skolnik	A535	S	0.110	0.058	0.058

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	1577	Shade Tree Investment Properties, LLC	A535	G	0.031	0.094	0.094
Hillsborough	1577	Shade Tree Investment Properties, LLC	A535	S	0.019	0.094	0.094
Hillsborough	1628	Ray K. Drawdy Revocable Living Trust	A58S	G	0.000	0.105	0.105
Hillsborough	1629	Ruis Drawdy	A58S	G	0.025	0.065	0.065
Hillsborough	1629	Ruis Drawdy	A58S	S	0.000	0.065	0.065
Hillsborough	1650	G & G Farms, LLC	A535	G	0.067	0.088	0.088
Hillsborough	1780	Hillsborough County BOCC	A56F	G	0.000	0.559	0.559
Hillsborough	1782	Spencer Farms, Inc	A56S	G	0.015	0.364	0.364
Hillsborough	1836	Rood Family Limited Partnership	A56S	G	0.891	1.873	1.873
Hillsborough	1839	Frank Diehl	A410	G	0.001	0.112	0.112
Hillsborough	1839	Frank Diehl	A410	S	0.000	0.112	0.112
Hillsborough	1840	Berry Bay Farm @ Jaymar, Inc	A535	G	0.149	0.364	0.364
Hillsborough	1840	Berry Bay Farm @ Jaymar, Inc	A535	S	0.002	0.364	0.364
Hillsborough	1869	Circle S Farms Ltd	A535	G	0.117	0.179	0.179
Hillsborough	1877	William A. & Amelia R. Mixon Revocable Living Trust	A535	G	0.000	0.176	0.176
Hillsborough	1885	Winfred & Sue Harrell Investments, LLLP	A480	G	0.121	0.063	0.063
Hillsborough	1956	Conrad H., Sherry, Scott M. and Kay D. Varnum	A535	G	0.080	0.179	0.179
Hillsborough	1960	University of South Florida	A485	G	0.020	2.364	0.026
Hillsborough	1960	University of South Florida	A485	S	0.000	2.364	0.026
Hillsborough	1995	Victoria Goodson	A535	G	0.177	0.080	0.080
Hillsborough	2133	A.H. and Patricia Varnum LTD Partnership	A535	G	0.094	0.202	0.202
Hillsborough	2136	Owens Road Grove LLC	A415	G	0.146	0.194	0.194
Hillsborough	2197	Young Farms/Yu An Farms, Co	A56F	G	0.000	0.353	0.353
Hillsborough	2205	Mathis Land Group, LLC	A410	G	0.000	0.012	0.012
Hillsborough	2205	Mathis Land Group, LLC	A410	S	0.000	0.012	0.012
Hillsborough	2206	Double E Corporation & A.R. Ellis, Jr	A415	G	0.000	0.073	0.073
Hillsborough	2273	Lucille E. Reese Trustee, Rex Reese, and Rand Reese	A415	G	0.008	0.072	0.072
Hillsborough	2291	Billy & Mattie Louise Williams	A535	G	0.004	0.034	0.034

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	2293	Billy Williams	A535	G	0.000	0.057	0.057
Hillsborough	2314	John L Jr & Judith F McMullen	A480	G	0.058	0.090	0.090
Hillsborough	2321	Griffin Investment Properties, Ltd	A535	G	0.131	0.135	0.135
Hillsborough	2322	Griffin Investment Properties, Ltd	A535	G	0.007	0.019	0.019
Hillsborough	2391	The Bailey Family Foundation of Tampa Inc	A535	G	0.026	0.051	0.051
Hillsborough	2395	George Kunchandy	A535	G	0.022	0.062	0.062
Hillsborough	2486	Circle G Farm & Ranch, LLC	A535	G	0.384	0.909	0.909
Hillsborough	2486	Circle G Farm & Ranch, LLC	A535	S	0.000	0.909	0.909
Hillsborough	2516	Astin Strawberry Property Management, LLC	A655	G	0.089	0.236	0.236
Hillsborough	2541	Marlene Mathews, Trustee	A415	G	0.019	0.029	0.029
Hillsborough	2563	Paul & Reba Bennett	A535	G	0.001	0.032	0.032
Hillsborough	2566	Hakeem Investments Florida, LLLP	A445	G	0.000	0.077	0.077
Hillsborough	2576	Charles D & Bobbie Ann Parrish	A485	G	0.011	0.056	0.056
Hillsborough	2581	Wayne G. Moss	A535	G	0.164	0.304	0.304
Hillsborough	2581	Wayne G. Moss	A535	S	0.000	0.304	0.304
Hillsborough	2619	Rex and Rand Reese	A415	G	0.068	0.173	0.173
Hillsborough	2670	Donald M & Deborah L Balaban	A535	G	0.007	0.305	0.305
Hillsborough	2682	Ronald & Bonnie Wetherington	A535	G	0.015	0.013	0.013
Hillsborough	2687	Grover C Jr, Melba L & Joyce M Sewell	A535	G	0.013	0.056	0.056
Hillsborough	2714	Hillsborough County BOCC	A525	G	0.181	1.897	1.897
Hillsborough	2714	Hillsborough County BOCC	A525	S	0.000	1.897	1.897
Hillsborough	2719	Larry & Judith Ennis	A535	G	0.023	0.031	0.031
Hillsborough	2719	Larry & Judith Ennis	A535	S	0.018	0.031	0.031
Hillsborough	2739	Hinton Enterprises of Sydney, Inc	A56S	G	0.024	0.092	0.092
Hillsborough	2768	Grimes Holdings, LLC	A535	G	0.001	0.079	0.079
Hillsborough	2881	Citrus Enterprises Inc	A415	G	0.022	0.111	0.111
Hillsborough	2944	Velma Newsome Groves, Inc	A535	G	0.026	0.036	0.036
Hillsborough	2945	Raymond Stephens	A415	G	0.000	0.004	0.004

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	2951	Lawrence Collins	A535	G	0.031	0.036	0.036
Hillsborough	2963	Trapnell Road Plant City, LLC	A535	G	0.100	0.081	0.081
Hillsborough	2963	Trapnell Road Plant City, LLC	A535	S	0.013	0.081	0.081
Hillsborough	2998	Bay Mulch Inc	A535	G	0.002	0.045	0.045
Hillsborough	3002	Jack Sizemore & Meribeth J. Sizemore	A415	G	0.064	0.132	0.132
Hillsborough	3011	Mark Baker	A535	G	0.001	0.047	0.047
Hillsborough	3055	Speedling, Inc	A487	G	0.052	0.302	0.296
Hillsborough	3057	Ocean Breeze Properties LLC	A56S	G	0.187	0.280	0.280
Hillsborough	3059	C E Leisey III	A485	G	0.000	0.135	0.135
Hillsborough	3060	The Kim Family Living Trust Fund, UTD	A480	G	0.109	0.146	0.146
Hillsborough	3100	L & J Citrus and Cattle LLC	A415	G	0.032	0.085	0.085
Hillsborough	3108	The Bryant Family Trust	A470	G	0.018	0.035	0.035
Hillsborough	3120	James Newsome, Trustee	A535	G	0.012	0.146	0.146
Hillsborough	3123	G & G Farms, LLC	A535	G	0.115	0.223	0.223
Hillsborough	3217	Strawberry Red Ranch LLC	A535	G	0.156	0.304	0.304
Hillsborough	3217	Strawberry Red Ranch LLC	A535	S	0.031	0.304	0.304
Hillsborough	3251	Glenn & Frances Williamson	A535	G	0.258	0.494	0.494
Hillsborough	3251	Glenn & Frances Williamson	A535	S	0.000	0.494	0.494
Hillsborough	3262	Paul Tindle	A415	G	0.000	0.013	0.013
Hillsborough	3262	Paul Tindle	A415	S	0.000	0.013	0.013
Hillsborough	3313	Porter and Sara Hare	A535	G	0.067	0.094	0.094
Hillsborough	3317	Andrew B & Marcella J Scott	A415	G	0.000	0.041	0.041
Hillsborough	3330	5-D Tropical Inc	A415	G	0.031	0.037	0.037
Hillsborough	3355	Paula Fritz	A535	G	0.190	0.082	0.082
Hillsborough	3386	Tampa Electric Company	A535	G	0.032	0.090	0.090
Hillsborough	3417	Ag-Mart Produce, Inc	A56S	G	0.437	1.177	1.177
Hillsborough	3417	Ag-Mart Produce, Inc	A56S	S	0.051	1.177	1.177
Hillsborough	3430	Yu An Farms, Co	A56F	G	0.000	0.146	0.146

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	3453	George and Patricia Sprouse	A535	G	0.014	0.032	0.032
Hillsborough	3453	George and Patricia Sprouse	A535	S	0.000	0.032	0.032
Hillsborough	3485	Ralph Randall Jr	A535	G	0.065	0.087	0.087
Hillsborough	3596	Eddie A. Jones Revocable Living Trust, Clifford Gude Trustee	A44S	G	0.038	0.074	0.074
Hillsborough	3615	Astin Strawberry Property Management LLC	A535	G	0.000	0.070	0.070
Hillsborough	3652	George H. & Patricia A. Sprouse	A535	G	0.086	0.084	0.084
Hillsborough	3686	Eleanor C Poppell Trustee	A415	G	0.000	0.038	0.038
Hillsborough	3700	John Russell & Evanett Griffin	A535	G	0.008	0.006	0.006
Hillsborough	3712	Sam Astin III & Buffy S Astin	A635	G	0.126	0.374	0.374
Hillsborough	3715	Spencer Farms, Inc	A56S	G	0.066	0.408	0.408
Hillsborough	3716	Donn W & Janet L Goodson	A535	G	0.063	0.122	0.122
Hillsborough	3741	The Montesco Group LLC	A535	G	0.021	0.106	0.106
Hillsborough	3892	Caroline Pate and Claudia Pate Young Trustees	A535	G	0.053	0.062	0.062
Hillsborough	3997	Marvin G. & Linda S. Brown, Trustees	A470	G	0.074	0.123	0.123
Hillsborough	4004	S Williamson	A535	G	0.058	0.092	0.092
Hillsborough	4037	Michael & Lynne Warren	A480	G	0.000	0.028	0.028
Hillsborough	4261	Loop Farms, LLC	A535	G	0.016	0.386	0.386
Hillsborough	4261	Loop Farms, LLC	A535	S	0.000	0.386	0.386
Hillsborough	4363	John H & Susan F Dukes	A535	G	0.004	0.018	0.018
Hillsborough	4419	Medley Groves, Inc	A495	G	0.000	0.032	0.032
Hillsborough	4421	Jack P., Meribeth J. Sizemore and Jack P. Sizemore	A535	G	0.249	0.613	0.611
Hillsborough	4483	Russell and Jamie Goodson	A470	G	0.004	0.118	0.118
Hillsborough	4512	Calla Hudas	A415	G	0.000	0.006	0.006
Hillsborough	4522	G & D Farms, Inc	A535	G	0.018	0.038	0.038
Hillsborough	4536	C. Dennis Carlton	A535	G	0.108	0.216	0.216
Hillsborough	4622	C.W. Dukes Trust	A535	G	0.010	0.032	0.032
Hillsborough	4640	Sam Astin, Iii	A535	G	0.059	0.062	0.062
Hillsborough	4689	Council Growers Inc	A415	G	0.195	0.246	0.246

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	4714	The Montesco Group, LLC	A535	G	0.089	0.429	0.429
Hillsborough	4716	Hawk Produce, Inc	A635	G	0.125	0.068	0.068
Hillsborough	4723	Berkshire Investments / Glenn Williamson	A44S	G	0.102	0.390	0.390
Hillsborough	4748	William K. Keene And Mary Laverne Lett Keene	A535	G	0.085	0.135	0.135
Hillsborough	4778	James Moody JR	A535	G	0.063	0.068	0.068
Hillsborough	4821	Sydney Farms, Inc	A470	G	0.299	0.418	0.418
Hillsborough	4829	Alafia Berry Farms, LLC	A535	G	0.002	0.100	0.100
Hillsborough	4829	Alafia Berry Farms, LLC	A535	S	0.004	0.100	0.100
Hillsborough	4870	Richard & Gwendolyn Landrigan	A410	G	0.109	0.145	0.145
Hillsborough	4870	Richard & Gwendolyn Landrigan	A410	S	0.000	0.145	0.145
Hillsborough	4878	Larry & Judith Ennis	A535	G	0.024	0.065	0.065
Hillsborough	4961	Harvey Carr	A651	G	0.025	0.082	0.082
Hillsborough	4961	Harvey Carr	A651	S	0.004	0.082	0.082
Hillsborough	4996	Wayne Moss	A470	G	0.044	0.328	0.328
Hillsborough	4996	Wayne Moss	A470	S	0.000	0.328	0.328
Hillsborough	5156	Wylie L. and Carol A. Hinton	A535	G	0.000	0.411	0.411
Hillsborough	5156	Wylie L. and Carol A. Hinton	A535	S	0.000	0.411	0.411
Hillsborough	5204	Glenn & Frances Williamson	A535	G	0.075	0.123	0.123
Hillsborough	5237	Baum, LLC	A470	G	0.067	0.193	0.193
Hillsborough	5248	Stine Family Partnership, Ltd	A535	G	0.002	0.063	0.063
Hillsborough	5258	Samuel D Williamson and Anne M Williamson	A655	G	0.052	0.152	0.152
Hillsborough	5318	Astin Strawberry Property Management, LLC	A415	G	0.020	0.094	0.094
Hillsborough	5386	Samuel D Williamson and Anne M Williamson	A535	G	0.060	0.233	0.233
Hillsborough	5386	Samuel D Williamson and Anne M Williamson	A535	S	0.000	0.233	0.233
Hillsborough	5397	McIntosh Road Dover, LLC	A58S	G	0.076	0.195	0.195
Hillsborough	5800	Rand Reese	A415	G	0.006	0.172	0.172
Hillsborough	5859	MacDonald Training Center Properties, Inc	A480	G	0.000	0.025	0.025
Hillsborough	6007	Felton C Walker Jr	A56F	G	0.154	0.354	0.354

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	6020	Shahout Farm, LLC	A480	G	0.000	0.243	0.243
Hillsborough	6043	Sassy Fruit Company	A415	G	0.046	0.062	0.062
Hillsborough	6095	Frances M. White	A535	G	0.000	0.158	0.158
Hillsborough	6100	City of Tampa	L715	G	0.002	0.181	0.003
Hillsborough	6130	Samuel D Williamson and Anne M Williamson	A535	G	0.048	0.095	0.095
Hillsborough	6203	Cypress Ridge Ranch, LLLP	A56S	G	0.072	0.839	0.839
Hillsborough	6209	Homer Wall, Jr & Sr	A535	G	0.001	0.034	0.034
Hillsborough	6238	Trapnell Road Plant City, LLC	A56S	G	0.109	0.174	0.174
Hillsborough	6252	Dumke, Chad C. and Angela D.	A410	G	0.006	0.045	0.045
Hillsborough	6259	Ag-Mart Produce, Inc	A56F	G	0.220	0.301	0.301
Hillsborough	6266	S.A.C.K. Farm Inc	A535	G	0.064	0.060	0.060
Hillsborough	6266	S.A.C.K. Farm Inc	A535	S	0.016	0.060	0.060
Hillsborough	6313	BBS Farms, Inc	A470	G	0.000	0.262	0.262
Hillsborough	6313	BBS Farms, Inc	A470	S	0.161	0.262	0.262
Hillsborough	6323	Terry Neal & Colleen Gail Fulton	A535	G	0.038	0.028	0.028
Hillsborough	6324	Robert H. & Peggy E. Parke	A535	G	0.003	0.016	0.016
Hillsborough	6337	G. Marvin Brown Revocable Trust	A535	G	0.084	0.249	0.249
Hillsborough	6337	G. Marvin Brown Revocable Trust	A535	S	0.001	0.249	0.249
Hillsborough	6341	Johnny Bryant	A535	G	0.007	0.038	0.038
Hillsborough	6348	Dwight and Mary Aman	A535	G	0.073	0.101	0.101
Hillsborough	6360	Huntley Properties, LLC	A56S	G	0.000	0.104	0.104
Hillsborough	6371	Summerfield Farms LLC	A655	G	0.177	0.664	0.664
Hillsborough	6375	John R. Griffin	A535	G	0.001	0.036	0.036
Hillsborough	6420	Linda Lawton- DKL Properties, LLC	A535	G	0.000	0.106	0.101
Hillsborough	6420	Linda Lawton- DKL Properties, LLC	A535	S	0.000	0.106	0.101
Hillsborough	6421	Jamie and Amanda Bell	A535	G	0.009	0.033	0.033
Hillsborough	6427	Jeanette Bennett Trustee	A415	G	0.000	0.028	0.028
Hillsborough	6428	Astin Strawberry Property Management, LLC	A535	G	0.005	0.089	0.089

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	6428	Astin Strawberry Property Management, LLC	A535	S	0.000	0.089	0.089
Hillsborough	6443	Robert L. & Gloria J. Platt	A480	G	0.115	0.211	0.211
Hillsborough	6443	Robert L. & Gloria J. Platt	A480	S	0.026	0.211	0.211
Hillsborough	6449	Lowell Kinard	A535	G	0.057	0.082	0.082
Hillsborough	6470	Donald & Katherine Sodders	A535	G	0.048	0.027	0.027
Hillsborough	6479	Betty Astin	A535	G	0.004	0.053	0.053
Hillsborough	6479	Betty Astin	A535	S	0.042	0.053	0.053
Hillsborough	6480	Betty Astin, Trustee	A535	G	0.109	0.164	0.156
Hillsborough	6523	Loop Farms, LLC	A415	G	0.027	0.107	0.107
Hillsborough	6534	Simmons Properties, LLC	A415	G	0.000	0.025	0.025
Hillsborough	6541	Jeffrey S. Wacaser and Alica J. Wacaser	A655	G	0.017	0.064	0.064
Hillsborough	6563	Scot and Susan Dumke	A410	G	0.000	0.035	0.035
Hillsborough	6563	Scot and Susan Dumke	A410	S	0.000	0.035	0.035
Hillsborough	6622	Marcus G & Sarah F Williamson	A535	G	0.007	0.161	0.161
Hillsborough	6678	Farmland Reserve, Inc	A655	G	0.187	0.382	0.382
Hillsborough	6708	Strawberry Red Ranch LLC	A535	G	0.022	0.164	0.164
Hillsborough	6708	Strawberry Red Ranch LLC	A535	S	0.000	0.164	0.164
Hillsborough	6743	Jimmy Garrison	A410	G	0.013	0.035	0.035
Hillsborough	6748	Mary M Eppard	A535	G	0.081	0.018	0.018
Hillsborough	6767	Grady & Marie B. Harrell, Trustees	A535	G	0.121	0.059	0.059
Hillsborough	6767	Grady & Marie B. Harrell, Trustees	A535	S	0.011	0.059	0.059
Hillsborough	6768	Mary L Keene Trustee	A535	G	0.084	0.077	0.077
Hillsborough	6779	Elmer S Rogers and Margaret G Rogers	A535	G	0.015	0.030	0.030
Hillsborough	6781	Steven Clyde And Joyne D Mathis	A535	G	0.048	0.050	0.050
Hillsborough	6781	Steven Clyde And Joyne D Mathis	A535	S	0.000	0.050	0.050
Hillsborough	6807	Charles Grimes	A535	G	0.001	0.049	0.049
Hillsborough	6809	Sam Astin III and Buffy Astin	A470	G	0.016	0.106	0.106
Hillsborough	6809	Sam Astin III and Buffy Astin	A470	S	0.065	0.106	0.106

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	6817	Vivian C Patisaul, Trustee the Patisaul Family Trust	A415	G	0.012	0.025	0.025
Hillsborough	6825	Darryl F. Williams, and William K. Williams and Laural Williams	A535	G	0.002	0.035	0.035
Hillsborough	6849	Harold L & Martha S Fisher Trustees	A535	G	0.008	0.036	0.036
Hillsborough	6851	Robert M & Mary Jane Rogers	A480	G	0.208	0.276	0.276
Hillsborough	6855	Gary E. and Presley A. Glover	A415	G	0.000	0.016	0.016
Hillsborough	6860	C. Leroy Lariscy	A535	G	0.000	0.059	0.059
Hillsborough	6860	C. Leroy Lariscy	A535	S	0.000	0.059	0.059
Hillsborough	6880	Lewis Robert Raulerson Jr & Glenda D Raulerson	A535	G	0.013	0.031	0.031
Hillsborough	7007	Astin Strawberry Property Management, LLC	A535	G	0.000	0.022	0.022
Hillsborough	7035	BBS Farms, Inc	A535	G	0.112	0.176	0.176
Hillsborough	7049	G & G Farms, LLC	A535	G	0.048	0.120	0.120
Hillsborough	7055	Willis S. Kirkland, Jr. & Barbara J.-Life Estate	A415	G	0.000	0.019	0.019
Hillsborough	7058	Gerald Davis, Inc	A480	G	0.068	0.125	0.125
Hillsborough	7059	Charlie Grimes Farms, LLC	A535	G	0.039	0.130	0.130
Hillsborough	7059	Charlie Grimes Farms, LLC	A535	S	0.001	0.130	0.130
Hillsborough	7060	Charlie Grimes Farms, LLC	A535	G	0.001	0.015	0.015
Hillsborough	7082	Robert L and Barbara A Carter, Trustees	A535	G	0.086	0.139	0.139
Hillsborough	7082	Robert L and Barbara A Carter, Trustees	A535	S	0.019	0.139	0.139
Hillsborough	7083	Astin Strawberry Property Management, LLC	A655	G	0.015	0.026	0.026
Hillsborough	7102	Robert E & Helen A Parke	A535	G	0.170	0.200	0.200
Hillsborough	7105	Riverview Grove LTD	A415	G	0.112	0.184	0.184
Hillsborough	7117	Pacific Agricultural Research Corp	A58S	G	0.049	0.139	0.139
Hillsborough	7118	Charlie Grimes Farms, LLC	A535	G	0.041	0.074	0.074
Hillsborough	7135	Balm Associates, Inc	A535	G	0.075	0.224	0.224
Hillsborough	7150	Cedar Haven Inc	A415	G	0.036	0.014	0.014
Hillsborough	7183	I-4 Land Holding Limited Company	A490	G	0.084	0.153	0.153
Hillsborough	7190	Dennis & Linda L Spivey & William J Rushing Life Estate	A535	G	0.135	0.171	0.171
Hillsborough	7232	Frances White	A535	G	0.243	0.307	0.307

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	7232	Frances White	A535	S	0.000	0.307	0.307
Hillsborough	7239	Riverview Flower Farm Partnership	A480	G	0.039	0.107	0.107
Hillsborough	7260	Tampa Electric Company	A56S	G	0.000	0.243	0.243
Hillsborough	7286	Lithia Road Plant City, LLC	A535	G	0.107	0.138	0.138
Hillsborough	7374	Edna Sue Willaford Trustee	A415	G	0.000	0.011	0.011
Hillsborough	7405	Mathis Land Group, LLC	A535	G	0.039	0.053	0.053
Hillsborough	7405	Mathis Land Group, LLC	A535	S	0.070	0.053	0.053
Hillsborough	7422	David & Joyce Stanaland Family Trust	A410	G	0.001	0.015	0.015
Hillsborough	7451	Astin Strawberry Property Management, LLC	A56F	G	0.000	0.615	0.615
Hillsborough	7466	W. A. and Lillie M. Greene	A535	G	0.000	0.034	0.034
Hillsborough	7467	Arthur Earl Staggs	A535	G	0.028	0.044	0.044
Hillsborough	7486	C.W. Dukes	A535	G	0.001	0.017	0.017
Hillsborough	7512	Patricia Elliott	A535	G	0.000	0.097	0.097
Hillsborough	7512	Patricia Elliott	A535	S	0.000	0.097	0.097
Hillsborough	7516	Fidel & Hilda Castillo	A535	G	0.007	0.032	0.032
Hillsborough	7607	Jaymar Farms Inc	A535	G	0.680	1.011	1.011
Hillsborough	7607	Jaymar Farms Inc	A535	S	0.000	1.011	1.011
Hillsborough	7622	Clark Farms Inc	A415	G	0.008	0.092	0.092
Hillsborough	7640	Robert H. & Peggy E. Parke	A535	G	0.209	0.275	0.275
Hillsborough	7640	Robert H. & Peggy E. Parke	A535	S	0.000	0.275	0.275
Hillsborough	7642	Velma Ruth Johnson	A51S	G	0.000	0.106	0.106
Hillsborough	7642	Velma Ruth Johnson	A51S	S	0.045	0.106	0.106
Hillsborough	7696	Glenn And Sarah Williamson	A44S	G	0.014	0.129	0.129
Hillsborough	7715	Cameron Citrus Corp	A415	G	0.000	0.023	0.023
Hillsborough	7765	William E. and Judith C. Meek	A655	G	0.000	0.100	0.100
Hillsborough	7765	William E. and Judith C. Meek	A655	S	0.000	0.100	0.100
Hillsborough	7782	The Closshey South 39 Farm, LLC	A535	G	0.005	0.081	0.081
Hillsborough	7782	The Closshey South 39 Farm, LLC	A535	S	0.000	0.081	0.081

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	7842	Theron B. Bostick	A535	G	0.020	0.018	0.018
Hillsborough	7895	GDK Land Trust	A480	G	0.167	0.347	0.347
Hillsborough	7922	Robert R & Janet B Swilley	A410	G	0.015	0.027	0.027
Hillsborough	7978	Joseph R Goodson	A535	G	0.000	0.030	0.030
Hillsborough	7984	Richard and Stacy DelCastillo	A535	G	0.010	0.016	0.016
Hillsborough	7993	Winfred & Sue Harrell Investments, LLLP	A480	G	0.035	0.020	0.020
Hillsborough	8015	George and Patricia Sprouse	A535	G	0.020	0.029	0.029
Hillsborough	8036	C. Dennis Carlton	A51S	G	0.132	0.440	0.440
Hillsborough	8110	Hollis D McDonald Jr. Revocable Trust	A535	G	0.008	0.038	0.038
Hillsborough	8121	Benjamin & Patricia Gunn	A410	G	0.000	0.009	0.009
Hillsborough	8138	J and K Farms of Central Florida, LLC	A535	G	0.089	0.062	0.062
Hillsborough	8161	Gregory & Jennifer Shiver	A480	G	0.003	0.026	0.026
Hillsborough	8173	Astin Strawberry Property Management, LLC	A535	G	0.144	0.228	0.228
Hillsborough	8195	Marilyn and Melissa 2009 Trust	A470	G	0.084	0.117	0.117
Hillsborough	8202	Sam Astin III & Buffy S Astin	A535	G	0.009	0.144	0.144
Hillsborough	8202	Sam Astin III & Buffy S Astin	A535	S	0.088	0.144	0.144
Hillsborough	8342	Loop Farms, LLC	A535	G	0.031	0.489	0.489
Hillsborough	8342	Loop Farms, LLC	A535	S	0.000	0.489	0.489
Hillsborough	8373	Haggard Living Trust	A480	G	0.036	0.055	0.055
Hillsborough	8373	Haggard Living Trust	A480	S	0.013	0.055	0.055
Hillsborough	8410	41 Ruskin, LLC	A487	G	0.023	0.156	0.156
Hillsborough	8427	Grange Hall Strawberries, LLC	A535	G	0.000	0.163	0.163
Hillsborough	8428	Donini Investments, Inc, c/o John and Gina Donini	A535	G	0.019	0.118	0.118
Hillsborough	8428	Donini Investments, Inc, c/o John and Gina Donini	A535	S	0.000	0.118	0.118
Hillsborough	8445	Douglas A. Holmberg	A535	G	0.035	0.499	0.499
Hillsborough	8450	Farmland Reserve, Inc	A58S	G	0.583	3.546	3.546
Hillsborough	8490	James Borchard	A535	G	0.004	0.058	0.058
Hillsborough	8492	Ruis L, Linda J, David L, and Marcie K Drawdy	L660	G	0.119	0.254	0.254

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	8497	Eljay Properties, LLP	L660	G	0.407	0.475	0.475
Hillsborough	8563	The T.G. and Laverne Robinson Family Partnership, LTD	A415	G	0.000	0.087	0.047
Hillsborough	8574	Pleasant/Wimauma Groves Ltd	A415	G	0.000	0.058	0.058
Hillsborough	8575	Edith S Knox, Trustees of Knox Living Trust	A535	G	0.022	0.056	0.056
Hillsborough	8576	Hopewell Baptist Church Inc & Church Old Cemetery Inc	A415	G	0.000	0.020	0.020
Hillsborough	8578	Wilbur R Reschly	A415	G	0.000	0.017	0.017
Hillsborough	8686	Audrey Miller	A535	G	0.044	0.062	0.062
Hillsborough	8687	Mary L. Keene as Trustee of the William K. Keene Family Trust	A535	G	0.084	0.101	0.101
Hillsborough	8710	Hillsborough County School Board	A58S	G	0.027	0.046	0.025
Hillsborough	8717	Hillsborough Co School Board	A535	G	0.000	0.023	0.006
Hillsborough	8729	Farmland Reserve, Inc	A495	G	0.000	0.106	0.106
Hillsborough	8748	G & D Farms, Inc	A470	G	0.142	0.245	0.245
Hillsborough	8793	Diaz Family Properties, LLC	L660	G	0.266	0.481	0.481
Hillsborough	8810	Roger Wright	A525	G	0.000	0.317	0.317
Hillsborough	8824	William & Barbara Bridges	A535	G	0.013	0.020	0.020
Hillsborough	8842	Winfred & Sue Harrell Investments, LLLP	A480	G	0.063	0.042	0.042
Hillsborough	8842	Winfred & Sue Harrell Investments, LLLP	A480	S	0.041	0.042	0.042
Hillsborough	8873	Sam Jr & Betty Astin	A535	G	0.135	0.179	0.179
Hillsborough	8873	Sam Jr & Betty Astin	A535	S	0.013	0.179	0.179
Hillsborough	8910	M&G Berry Farms, LLC	A535	G	0.094	0.181	0.181
Hillsborough	8916	Winfred & Sue Harrell Investments, LLLP	A480	G	0.009	0.088	0.088
Hillsborough	8946	Ferris-Peggy-Ferris Jr-Albert & Stephanie Waller	A415	G	0.022	0.067	0.067
Hillsborough	8955	Lone Oak Missionary Baptist Church Inc	A535	G	0.000	0.027	0.025
Hillsborough	8983	Ricardo Aleman and Kathryn Watterson	A415	G	0.002	0.010	0.010
Hillsborough	8999	Hull Citrus Properties, Inc	A535	G	0.037	0.147	0.147
Hillsborough	9019	Wayne Moss	A470	G	0.021	0.177	0.177
Hillsborough	9024	Travis Council	A56S	G	0.056	0.112	0.112
Hillsborough	9056	Leonard H Marks Trustee	A535	G	0.044	0.082	0.082

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	9062	Thomas F & Ellen S Folsom	A415	G	0.006	0.039	0.039
Hillsborough	9102	Patricia M. Richey	A415	G	0.027	0.025	0.025
Hillsborough	9194	R. P. Co., Inc	L660	G	0.168	0.685	0.685
Hillsborough	9224	The Charles G. Grimes, Sr. Family LTP	A535	G	0.264	0.459	0.459
Hillsborough	9238	Jose A & Teresa Chavez Hernandez	A535	G	0.036	0.043	0.043
Hillsborough	9277	Marian Jeanette Hall	A58S	G	0.032	0.043	0.043
Hillsborough	9277	Marian Jeanette Hall	A58S	S	0.050	0.043	0.043
Hillsborough	9278	Elias & Lorena Gutierrez	A535	G	0.026	0.043	0.043
Hillsborough	9304	Ralph And Virgie Williams	A535	S	0.017	0.022	0.022
Hillsborough	9315	Wilmer E & Joyce Woodard	A535	G	0.006	0.024	0.024
Hillsborough	9323	RJJAMS, LLC	A535	G	0.041	0.048	0.048
Hillsborough	9387	NNP Southbend II, LLC	A56S	G	0.000	1.033	1.033
Hillsborough	9418	Fancy Farms Inc	A535	G	0.048	0.185	0.184
Hillsborough	9456	Wanda M Stewart Trustee Uad 8-08	A535	G	0.000	0.092	0.092
Hillsborough	9463	Thomas D & Patricia Richey	A415	G	0.001	0.012	0.012
Hillsborough	9489	Holmberg Farms Inc	A525	G	0.002	1.780	1.780
Hillsborough	9489	Holmberg Farms Inc	A525	S	0.224	1.780	1.780
Hillsborough	9554	Robert W. & Bette J. Allen	A535	G	0.016	0.023	0.023
Hillsborough	9585	Ocean Breeze Properties, LLC	A525	G	0.458	0.581	0.581
Hillsborough	9585	Ocean Breeze Properties, LLC	A525	S	0.000	0.581	0.581
Hillsborough	9611	Valle Del Sol Properties, LLC	A535	G	0.121	0.186	0.186
Hillsborough	9612	Loop Farms, LLC	A495	G	0.246	0.261	0.261
Hillsborough	9633	G&D Farms, Inc	A535	G	0.184	0.336	0.336
Hillsborough	9633	G&D Farms, Inc	A535	S	0.000	0.336	0.336
Hillsborough	9658	Keel Farms, Inc	A410	G	0.021	0.069	0.063
Hillsborough	9674	Charlie Grimes Farms, LLC	A535	G	0.146	0.119	0.119
Hillsborough	9701	Branch Land Company, LLC	A415	G	0.003	0.030	0.030
Hillsborough	9811	David R. & Joyce Stanaland Family Trust	A410	G	0.000	0.013	0.013

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County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	9875	Grace Community Church of Brandon, Inc	A51S	G	0.022	0.047	0.040
Hillsborough	9888	Fidel & Hilda Castillo	A53S	G	0.035	0.047	0.047
Hillsborough	9902	Casper J. And Sue Ann Brock	A41S	G	0.000	0.004	0.004
Hillsborough	9908	Sarah Williamson	A410	G	0.051	0.099	0.099
Hillsborough	9915	S & J Farms Inc	A41S	G	0.269	0.293	0.293
Hillsborough	9936	Wimauma Grove, LLC	A53S	G	0.111	0.139	0.139
Hillsborough	9980	Ronnie and Betty Hall	A53S	G	0.006	0.029	0.029
Hillsborough	10003	Velma Newsome Groves, Inc	A53S	G	0.029	0.035	0.035
Hillsborough	10010	Lance H. Ham & Norma G. Ham Revocable Living Trust	A470	G	0.156	0.173	0.173
Hillsborough	10010	Lance H. Ham & Norma G. Ham Revocable Living Trust	A470	S	0.035	0.173	0.173
Hillsborough	10021	Eljay Properties, LLP	L661	G	0.251	0.450	0.450
Hillsborough	10038	Dwayne, Dana and Edna DeShong	A41S	G	0.000	0.019	0.019
Hillsborough	10066	Florida Acecapaders, Inc	L630	G	0.000	0.029	0.007
Hillsborough	10080	Perfection Partners, Ltd	A41S	G	0.000	0.029	0.029
Hillsborough	10106	Borchard Brothers, LLC	A53S	G	0.003	0.014	0.014
Hillsborough	10117	Donald M & Deborah L Balaban	A41S	G	0.000	0.063	0.063
Hillsborough	10140	Progressive Waste Solutions of Florida, Inc	A470	G	0.007	0.159	0.142
Hillsborough	10140	Progressive Waste Solutions of Florida, Inc	A470	S	0.000	0.159	0.142
Hillsborough	10165	Ronald M and Lena Lott	A53S	G	0.000	0.094	0.094
Hillsborough	10212	Wilbur Reschly	A41S	G	0.000	0.017	0.017
Hillsborough	10303	Jon Berry	A41S	G	0.000	0.013	0.013
Hillsborough	10345	S & H Mathis, LLC	A53S	G	0.008	0.097	0.097
Hillsborough	10354	Midway Farms, LLC	A53S	G	0.003	0.037	0.037
Hillsborough	10356	Sumner Cattle Company, LLC	A52S	G	0.007	0.153	0.153
Hillsborough	10363	Virginia J. and Douglas J Leetun	A480	G	0.000	0.029	0.029
Hillsborough	10402	Harold F. Dukes	A53S	G	0.002	0.043	0.043
Hillsborough	10402	Harold F. Dukes	A53S	S	0.000	0.043	0.043
Hillsborough	10431	Ronya Properties LLC	A58S	G	0.006	0.093	0.093

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	10431	Ronya Properties LLC	A58S	S	0.000	0.093	0.093
Hillsborough	10461	Wayne G. Moss	A535	G	0.019	0.117	0.117
Hillsborough	10461	Wayne G. Moss	A535	S	0.000	0.117	0.117
Hillsborough	10466	Sun City Tree Farms	A480	G	0.074	0.281	0.281
Hillsborough	10467	Dennis Spivey	A535	G	0.006	0.015	0.015
Hillsborough	10486	Robert D and Gwen D Aman	A415	G	0.002	0.011	0.011
Hillsborough	10654	Ellel Ministries USA Inc	A535	G	0.000	0.189	0.189
Hillsborough	10688	Ronald L. and Elizabeth A. McClendon, Trustees	A535	G	0.085	0.235	0.235
Hillsborough	10688	Ronald L. and Elizabeth A. McClendon, Trustees	A535	S	0.000	0.235	0.235
Hillsborough	10738	Perfection Partners, Ltd	A415	G	0.000	0.016	0.016
Hillsborough	10780	C Reid Schmidt	A415	G	0.000	0.004	0.004
Hillsborough	10784	William and Rebecca Wilson	A535	G	0.032	0.043	0.043
Hillsborough	10824	Keysville Road Plant City, LLC	A535	G	0.121	0.203	0.203
Hillsborough	10824	Keysville Road Plant City, LLC	A535	S	0.058	0.203	0.203
Hillsborough	10839	R and D Properties of Brandon, Inc	A535	G	0.013	0.015	0.015
Hillsborough	10876	Mac Greco, Jr	A525	G	0.016	0.040	0.040
Hillsborough	10883	Danny Lloyd and Sandra McGavin	A480	G	0.000	0.071	0.071
Hillsborough	10911	Kenneth & Sarah Dance Trust Agreement	A415	G	0.002	0.031	0.031
Hillsborough	10939	Hollis D. & Jo Alice F. McDonald Jr	A655	G	0.011	0.047	0.047
Hillsborough	10999	Hopewell Land Partners, LLC	A415	G	0.018	0.147	0.147
Hillsborough	10999	Hopewell Land Partners, LLC	A415	S	0.042	0.147	0.147
Hillsborough	11048	Berkshire Investments / Glenn Williamson	A535	G	0.022	0.029	0.029
Hillsborough	11102	Stine Family Partnership, LTD	A535	G	0.027	0.037	0.037
Hillsborough	11164	Clifford Gude, Jr	A535	G	0.077	0.134	0.134
Hillsborough	11181	Del Monte Fresh Production, Inc	A56S	G	0.342	1.591	1.587
Hillsborough	11307	Charles L. and Norma G. Woodard	A420	G	0.002	0.010	0.010
Hillsborough	11390	Borchard Brothers, LLC	A535	G	0.019	0.066	0.066
Hillsborough	11390	Borchard Brothers, LLC	A535	S	0.004	0.066	0.066

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	11457	Futch Properties Inc	A535	G	0.143	0.249	0.249
Hillsborough	11457	Futch Properties Inc	A535	S	0.000	0.249	0.249
Hillsborough	11474	Astin Strawberry Property Management, LLC	A535	G	0.082	0.078	0.078
Hillsborough	11491	Hardy Huntley	A535	G	0.000	0.122	0.122
Hillsborough	11494	Winfred & Sue Harrell Investments, LLLP	A480	G	0.056	0.125	0.125
Hillsborough	11508	The Conrad Family Limited Partnership	A415	G	0.004	0.032	0.032
Hillsborough	11576	Tampa Electric Company	A520	G	0.005	0.100	0.100
Hillsborough	11661	C. Dennis Carlton Sr	A535	G	0.168	0.367	0.367
Hillsborough	11661	C. Dennis Carlton Sr	A535	S	0.069	0.367	0.367
Hillsborough	11679	James W Silas & Gina Morris & Suzanne M Morris	A535	G	0.002	0.008	0.008
Hillsborough	11726	Winfred & Sue Harrell Investments, LLLP	A480	G	0.514	0.273	0.273
Hillsborough	11733	John D & Inell H White	A535	G	0.045	0.070	0.070
Hillsborough	11738	John F & Beverly J Stevens	A480	G	0.000	0.040	0.040
Hillsborough	11751	Jack Sizemore & Meribeth J. Sizemore	A415	G	0.003	0.020	0.020
Hillsborough	11810	Everett F & Sharon Prevatt Ttee	A535	G	0.000	0.219	0.219
Hillsborough	11810	Everett F & Sharon Prevatt Ttee	A535	S	0.002	0.219	0.219
Hillsborough	11916	Janet L Goodson	A44S	G	0.066	0.300	0.300
Hillsborough	11969	Charles G. Grimes Rev. Trust and Betty J. Grimes Rev. Trust	A535	G	0.037	0.092	0.092
Hillsborough	11977	Hillsborough County BOCC	A56S	G	0.000	0.635	0.635
Hillsborough	12030	Sizemore Farms, Inc	A470	G	0.065	0.236	0.236
Hillsborough	12077	Cherri N. Clark	A535	G	0.000	0.016	0.016
Hillsborough	12212	60 Jerry Smith, LLC	A535	G	0.083	0.101	0.101
Hillsborough	12299	Raymond & Ryan Keel, C Joseph Keel III, & Keel's Nursery	A410	G	0.013	0.013	0.013
Hillsborough	12313	William Burchenal	A415	G	0.083	0.140	0.140
Hillsborough	12315	Robert H Parke & Peggy E Parke	A535	S	0.078	0.134	0.134
Hillsborough	12329	Dover Real Estate Investments LLC	A480	G	0.089	0.102	0.102
Hillsborough	12329	Dover Real Estate Investments LLC	A480	S	0.020	0.102	0.102
Hillsborough	12350	James Austin Borchard	A535	G	0.007	0.133	0.133

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	12361	DiMare Ruskin LLC	A56S	G	0.181	0.604	0.604
Hillsborough	12363	Fancy Farms, Inc	A53S	G	0.020	0.044	0.044
Hillsborough	12378	Roy L. Harwood	A41S	G	0.000	0.011	0.011
Hillsborough	12437	Conrad and Neoda Dumke	A410	G	0.093	0.072	0.072
Hillsborough	12445	Glenn W. & Pamela K. Hart	A56S	G	0.012	0.088	0.088
Hillsborough	12445	Glenn W. & Pamela K. Hart	A56S	S	0.033	0.088	0.088
Hillsborough	12452	Goodson Family, LLLP	A65S	G	0.235	0.541	0.541
Hillsborough	12456	Symmes Rd Land Partners, LLC	L630	G	0.000	0.021	0.021
Hillsborough	12480	Montesco Group, LLC	A53S	G	0.074	0.125	0.125
Hillsborough	12505	David Watkins	A53S	G	0.000	0.097	0.097
Hillsborough	12514	Colding Loop Road Wimauma, LLC	A470	G	0.520	0.732	0.653
Hillsborough	12514	Colding Loop Road Wimauma, LLC	A470	S	0.000	0.732	0.653
Hillsborough	12523	University of Florida Board of Trustees	A520	G	0.312	0.345	0.344
Hillsborough	12538	Floyd Williams and Ann Marie Williams Revocable Trust	A410	G	0.022	0.048	0.048
Hillsborough	12639	WHS Land, LLC	A480	G	0.066	0.171	0.171
Hillsborough	12738	Mathis Land Group LLC	A53S	G	0.000	0.050	0.050
Hillsborough	12787	McIntosh Road Dover, LLC	A53S	G	0.116	0.163	0.163
Hillsborough	12793	S&H Mathis, LLC	A58S	G	0.018	0.071	0.071
Hillsborough	12819	Andrew E & Karen S Rogers	A53S	G	0.041	0.041	0.041
Hillsborough	12822	Fidel & Hilda Castillo	A53S	G	0.050	0.023	0.023
Hillsborough	12822	Fidel & Hilda Castillo	A53S	S	0.002	0.023	0.023
Hillsborough	12836	Razorback Ranch, LLC	A52S	G	0.000	0.496	0.403
Hillsborough	12836	Razorback Ranch, LLC	A52S	S	0.000	0.496	0.403
Hillsborough	12853	Melvin F Lee & Sam III & Buffy Astin	A53S	G	0.019	0.070	0.070
Hillsborough	12859	Valle Del Sol Properties, LLC	A53S	G	0.020	0.028	0.028
Hillsborough	12868	Eisenhower Property Group LLC	A52S	G	0.235	0.389	0.389
Hillsborough	12868	Eisenhower Property Group LLC	A52S	S	0.000	0.389	0.389
Hillsborough	12883	L. O. Vickers	A65S	G	0.000	0.034	0.034

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	12935	Roger Gilford	A535	G	0.008	0.019	0.019
Hillsborough	13176	Mary Lett Keene, Trustee	A535	G	0.023	0.043	0.043
Hillsborough	13296	J. Aprile Properties, LLC	A535	G	0.000	0.084	0.084
Hillsborough	13296	J. Aprile Properties, LLC	A535	S	0.000	0.084	0.084
Hillsborough	13327	Doris T Howell Trust	A415	G	0.003	0.024	0.024
Hillsborough	20000	GLH-SR 60 25, LLC	A535	G	0.032	0.049	0.049
Hillsborough	20010	Raeann Randall	A535	G	0.014	0.019	0.019
Hillsborough	20010	Raeann Randall	A535	S	0.010	0.019	0.019
Hillsborough	20019	Sam & Buffy Astin	A535	G	0.080	0.092	0.092
Hillsborough	20061	Tampa Electric Company	A535	S	0.012	0.007	0.007
Hillsborough	20109	Sam Astin III	A470	G	0.015	0.051	0.051
Hillsborough	20109	Sam Astin III	A470	S	0.000	0.051	0.051
Hillsborough	20111	RJJAMS, LLC	A51S	G	0.000	0.152	0.152
Hillsborough	20111	RJJAMS, LLC	A51S	S	0.112	0.152	0.152
Hillsborough	20139	Rod Marvel	A470	G	0.003	0.045	0.045
Hillsborough	20150	Hurley Creek Townhomes, Inc	A535	G	0.001	0.151	0.151
Hillsborough	20160	Hilda Castillo	A535	G	0.010	0.031	0.031
Hillsborough	20160	Hilda Castillo	A535	S	0.028	0.031	0.031
Hillsborough	20161	Terry O. and Daphne C. Ballard, et al	A535	G	0.034	0.076	0.076
Hillsborough	20181	Oak Hammock Ranch, LLC	A410	G	0.039	0.055	0.055
Hillsborough	20187	Kelsey Court LLC	A535	G	0.127	0.061	0.061
Hillsborough	20229	Ann Parrish	A535	G	0.044	0.049	0.049
Hillsborough	20270	Charanji Duggal	A410	G	0.051	0.044	0.044
Hillsborough	20270	Charanji Duggal	A410	S	0.000	0.044	0.044
Hillsborough	20277	Sizemore Properties, LLC.	A415	G	0.025	0.043	0.043
Hillsborough	20310	Eljay Properties, LLP	L661	G	0.089	0.211	0.211
Hillsborough	20461	GLH Enterprises, LLLP	A470	G	0.104	0.295	0.295
Hillsborough	20501	George and/or Marie Lipsey	A415	G	0.000	0.018	0.018

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Hillsborough	20513	Caroline A. Perocchi Revocable Trust	A535	G	0.000	0.062	0.062
Hillsborough	20513	Caroline A. Perocchi Revocable Trust	A535	S	0.000	0.062	0.062
Hillsborough	20585	Loop Range 21 Realty, LLC	A495	G	0.000	0.100	0.100
Hillsborough	20593	Richard & Peggy Peacock	A651	G	0.003	0.094	0.094
Hillsborough County Totals					32.930	Metered, mgd	
					9.167	Estimated, mgd, 426 WUPs	
					42.097	Total, mgd	
Lake	1347	Tom Thayer Citrus Inc	A415	G	0.417	0.545	0.545
Lake	8090	Green Swamp Ranch LLC	A410	G	0.013	0.058	0.058
Lake	8090	Green Swamp Ranch LLC	A410	S	0.000	0.058	0.058
Lake County Totals					0.429	Metered, mgd	
					0.555	Estimated, mgd, 15 WUPs	
					0.984	Total, mgd	
Levy	5095	Needmore Farms, LLC	A52S	G	1.059	2.057	2.057
Levy	5122	Whitehurst Cattle Company	A52S	G	0.022	2.671	2.671
Levy	5160	Arthur Sandlin	A52S	G	0.310	1.123	1.123
Levy	8219	Damon & Sharon Sandlin	A52S	G	0.000	0.813	0.813
Levy	11008	Waldrep Enterprises	A495	G	0.007	0.985	0.985
Levy	11026	C. Neal Anderson	A500	G	0.223	1.485	1.485
Levy	12579	Lee A & Beverly J Thomas Co-Trustees	A450	G	0.000	1.140	1.140
Levy	13339	Marshall Tree Farm	A485	G	1.450	2.436	2.436
Levy County Totals					3.072	Metered, mgd	
					3.508	Estimated, mgd, 65 WUPs	
					6.580	Total, mgd	
Manatee	503	J.T. Reeder Partners, LLLP	A56S	G	0.440	0.875	0.867
Manatee	2933	Bruce E Leland S Gary L & Brent D Shackelford	A515	G	0.671	1.339	1.339
Manatee	3744	Taylor Woodrow Communities at Artisan Lake, LLC	A525	G	0.089	0.459	0.243
Manatee	3762	Michael McKenzie	A415	G	0.000	0.081	0.081

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Manatee	3794	ESDA Realty Inc	A525	G	0.006	0.340	0.340
Manatee	3796	Ira Carlton Revocable Living Tr	A490	G	0.000	0.110	0.110
Manatee	3808	ATS Ag Ventures LLC	A415	G	0.045	0.152	0.152
Manatee	3832	The Arlin Taylor Ranch Limited Partnership	A56F	G	0.621	0.598	0.598
Manatee	3838	CSPR LTD	A58S	G	0.122	0.252	0.252
Manatee	3847	L3 Partnership LLP dba L3 Farms	A56F	G	2.158	8.224	8.224
Manatee	3848	Dimare Homestead Inc	A56S	G	0.885	4.802	4.802
Manatee	3853	Florida Triple 7 Ranch, LLC	A485	G	0.000	0.249	0.249
Manatee	3924	Northwest Manatee, LLC	A490	G	0.000	0.280	0.280
Manatee	3975	John Falkner, LLC	A56S	G	3.114	6.960	6.960
Manatee	4049	Sorrells Groves, Inc	A415	G	0.269	0.965	0.965
Manatee	4190	Myakka River Properties Inc	A56F	G	0.000	0.123	0.123
Manatee	4228	Peace Valley Groves, Inc	A415	G	0.143	0.281	0.281
Manatee	4307	Robinson Land Holdings Joint Venture	A480	G	0.003	0.410	0.410
Manatee	4309	CC Manatee Development LLC	A525	G	0.000	0.740	0.740
Manatee	4378	Emil and Cheryl Carlton	A56F	G	0.068	0.319	0.319
Manatee	4412	Pacific Land LTD	A56S	G	0.283	3.417	3.417
Manatee	4412	Pacific Land LTD	A56S	S	0.000	3.417	3.417
Manatee	4447	Del Monte Fresh Production, Inc	A56F	G	0.467	1.354	1.354
Manatee	4453	Mon Chou Peu Bull, LLC	A615	G	0.221	0.388	0.388
Manatee	4467	John Falkner, LLC	A56S	G	3.927	9.778	9.773
Manatee	4662	R. Thomas Chapman, Jr. Family Trust	A415	G	0.006	0.123	0.123
Manatee	4729	Aris Horticulture Inc	A485	G	0.001	0.095	0.095
Manatee	4761	Johnson-Manatee Holdings, LLC	A415	G	0.058	0.340	0.340
Manatee	4761	Johnson-Manatee Holdings, LLC	A415	S	0.017	0.340	0.340
Manatee	4780	W. R. Family Revocable Trust	A495	G	0.006	0.430	0.430
Manatee	4789	Hunsader Farms, Inc & Donald J Hunsader & M.DM., LLC	A56S	G	0.311	1.747	1.747
Manatee	5058	McCarlton Partners Ltd	A525	G	0.000	0.466	0.466

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County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Manatee	5309	Cargor Partners VI-Buckeye 928 LC	A415	G	0.000	0.236	0.236
Manatee	5310	Port Manatee Land, LLC	A56F	G	0.106	0.196	0.196
Manatee	5423	Florida Power & Light Company	A50F	G	0.264	0.663	0.590
Manatee	5444	Manatee County School District	A56S	G	0.052	0.271	0.244
Manatee	5459	Manatee Fruit Company	A480	G	0.000	0.225	0.225
Manatee	5461	Manatee Fruit Company	A56S	G	0.000	2.460	2.460
Manatee	5462	Manatee Fruit Company	A415	G	0.000	0.146	0.146
Manatee	5512	Wauchula Road Duette, LLC	A57F	G	0.792	2.002	2.002
Manatee	5514	McClure Properties, LTD	A56S	G	3.132	5.985	5.985
Manatee	5599	LF LLC	A415	G	0.024	0.272	0.272
Manatee	5617	Medallion Homes	A700	G	0.000	0.332	0.116
Manatee	5620	Hiram C Saffold	A51S	G	0.095	0.678	0.678
Manatee	5689	Farren R & Christina M Dakin	L615	G	0.234	0.412	0.412
Manatee	5693	Andy D Taylor Ranch LLC	A490	G	0.065	0.136	0.136
Manatee	6059	M Plus Ranch Inc	A56S	G	0.158	1.004	1.004
Manatee	6077	McClure Properties, LTD	A465	G	1.038	3.078	3.078
Manatee	6667	Heart Groves Inc	A415	G	0.399	0.814	0.814
Manatee	6668	CFI USA, Inc	A415	G	0.000	0.213	0.213
Manatee	6915	James D. Brewer & Robert C. Brewer	A495	G	0.332	1.228	1.228
Manatee	6981	Jones Potato Farm	A515	G	0.123	0.367	0.367
Manatee	7031	Adamatmar, LLC	A56S	G	0.000	0.318	0.318
Manatee	7085	Turner Groves Citrus Limited Partnership	A415	G	1.329	1.327	1.327
Manatee	7350	Felton C Walker Jr	A56S	G	0.786	1.383	1.383
Manatee	7502	Big Red Bull LLC	A495	G	0.198	0.688	0.688
Manatee	7631	McClure Properties, LTD	A56F	G	0.028	0.849	0.849
Manatee	7635	McClure Properties, LTD	A495	G	0.000	0.081	0.081
Manatee	7649	Betty Moody	A525	G	0.155	0.352	0.352
Manatee	7723	Moccasin Wallow, LLC	A415	G	0.000	0.098	0.098

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County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Manatee	7724	FLM, Inc	A415	G	0.008	0.835	0.835
Manatee	7846	Schroeder-Manatee Ranch, Inc	A525	G	1.847	16.793	3.975
Manatee	7846	Schroeder-Manatee Ranch, Inc	A525	S	0.008	16.793	3.975
Manatee	7891	DME Holdings, LLC	A415	G	0.016	0.402	0.402
Manatee	7998	FLM, Inc	A415	G	0.200	0.465	0.465
Manatee	8102	Jordan and Jordan Inc	A415	G	0.090	0.126	0.126
Manatee	8420	James R Grainger II	A415	G	0.173	1.266	1.266
Manatee	8421	4 Star Tomato Inc	A465	G	0.627	1.253	1.253
Manatee	8638	Jefferson Grove & DEA Manatee Grove & NFA Manatee Grove, LLC	A415	G	0.539	0.706	0.706
Manatee	8694	J Bar C, Inc	A415	G	0.316	0.574	0.574
Manatee	8829	Whisenant Farms Co Inc	A56S	G	0.619	1.278	1.278
Manatee	8904	Walker Pasture LLC	A525	G	0.000	0.516	0.516
Manatee	8912	J Gary and Cathryn Russ	A415	G	0.040	0.168	0.168
Manatee	8987	C & D Fruit & Vegetable Co., Inc	A535	G	0.059	0.130	0.130
Manatee	8987	C & D Fruit & Vegetable Co., Inc	A535	S	0.000	0.130	0.130
Manatee	9014	Good Grove Investments, LLC	A415	G	1.061	1.815	1.815
Manatee	9025	John Falkner, LLC	A51S	G	0.284	1.459	1.459
Manatee	9089	FFD Land Co Inc	A56S	G	0.824	2.791	2.779
Manatee	9113	FLM, Inc	A415	G	0.141	0.157	0.157
Manatee	9227	Farr Groves LLC	A415	G	0.057	0.081	0.081
Manatee	9348	Elizabeth A Johnson Family Land Trust	A646	G	0.151	0.754	0.754
Manatee	9391	WFA Land Company, Inc	A655	G	1.193	2.779	2.779
Manatee	9526	Three D Farms, LLC	A56S	G	0.000	0.486	0.486
Manatee	9526	Three D Farms, LLC	A56S	S	0.000	0.486	0.486
Manatee	9603	Chung Shuen Farm, Inc	A480	G	0.087	0.318	0.318
Manatee	9603	Chung Shuen Farm, Inc	A480	S	0.000	0.318	0.318
Manatee	9817	Benny Albritton, Sr	A56F	G	0.202	0.369	0.369
Manatee	9968	Whisenant Farms, Inc	A485	G	0.026	0.158	0.158

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Manatee	9968	Whisenant Farms, Inc	A485	S	0.036	0.158	0.158
Manatee	10187	Cameron Dakin	L615	G	0.356	0.306	0.306
Manatee	10320	Farm Credit of Florida, ACA	A415	G	0.038	0.202	0.202
Manatee	10329	Keystone Grove Company	A415	G	0.037	0.085	0.085
Manatee	10483	Sarah Frey-Talley	A56S	G	0.225	0.440	0.440
Manatee	10487	Rutland Ranch Farms, LLC	A515	G	0.566	1.347	1.347
Manatee	10541	Jones Potato Farm Inc	A466	G	0.102	0.688	0.688
Manatee	10758	Jordan and Jordan Inc	A415	G	0.060	0.113	0.113
Manatee	10800	Del Monte Fresh Production, Inc	A56F	G	0.341	2.388	2.388
Manatee	10978	T&T Environmental, LLC & Manatee County Grove A	A525	G	0.140	0.251	0.251
Manatee	11019	Old Florida Investments, Inc	A56F	G	0.350	1.538	1.476
Manatee	11019	Old Florida Investments, Inc	A56F	S	0.000	1.538	1.476
Manatee	11065	King Ranch-Manatee, Inc	A56F	G	0.009	0.257	0.257
Manatee	11105	WFA Land Company, Inc	A56S	G	0.457	3.016	2.992
Manatee	11123	Clay Gully Ranch, LLC	A56S	G	0.728	2.186	2.186
Manatee	11125	Edward Grady Maggard, Jr. and Lorene Maggard	A56S	G	0.001	2.084	2.084
Manatee	11167	Western Farmland, LLC	A525	G	0.928	2.941	2.941
Manatee	11167	Western Farmland, LLC	A525	S	0.003	2.941	2.941
Manatee	11258	J & L Land Company, Inc	A480	G	0.000	0.215	0.215
Manatee	11287	John Falkner, LLC	A51S	G	2.117	5.224	5.224
Manatee	11427	Peter Old	A592	G	0.795	1.240	1.240
Manatee	11440	John Falkner, LLC	A56S	G	0.203	0.574	0.574
Manatee	11440	John Falkner, LLC	A56S	S	0.000	0.574	0.574
Manatee	11481	Cameron Dakin Dairy	A490	G	0.035	0.318	0.318
Manatee	11918	Gordon Properties, LLC	A56F	G	0.281	0.316	0.316
Manatee	11921	Goodson Farms, Inc	A56S	G	0.378	0.616	0.616
Manatee	11922	Jones Potato Farm, Inc	A515	G	0.504	1.483	1.483
Manatee	11961	Pacific Land, Ltd	A56S	G	1.094	3.852	3.852

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Manatee	11963	SCF Farms Inc, Handcart Citrus and Cattle, Inc and Harry Cortese	A56F	G	0.389	2.502	2.502
Manatee	12005	Elias Cura LLC	A52S	G	0.003	0.488	0.488
Manatee	12018	McClure Properties, LTD	A56F	G	0.131	2.259	2.259
Manatee	12133	W.S. Badcock Corporation	A56S	G	0.021	1.121	1.121
Manatee	12154	H D Budd Farms, Inc	A56F	G	0.148	0.750	0.750
Manatee	12189	The Baker, Walter, Saraw Family Trust	A49S	G	0.000	0.204	0.204
Manatee	12216	ESDA, Inc	A49S	G	0.059	0.323	0.323
Manatee	12246	Len-Tran, Inc	A48S	G	0.125	0.264	0.264
Manatee	12264	John Falkner, LLC	A56F	G	0.898	1.398	1.398
Manatee	12386	Del Monte Fresh Production, Inc	A56F	G	0.253	1.000	1.000
Manatee	12428	Western Farmland, LLC	A56S	G	0.292	0.674	0.674
Manatee	12474	Mary Forristall	A48S	G	0.000	0.055	0.055
Manatee	12511	Jones Potato Farm, Inc	A466	G	0.105	0.811	0.811
Manatee	12971	Lyna Berry Farms, Inc	A410	G	0.014	0.322	0.322
Manatee	12991	HBT of Eagle Pointe, LLC	A56S	G	0.000	0.279	0.279
Manatee	13007	Lakeshore Knolls LLC	A41S	G	0.110	0.258	0.258
Manatee	13008	Lakeshore Knolls LLC	A41S	G	0.153	0.200	0.200
Manatee	13011	John Falkner, LLC, Rye Ranch, LLC and Rowe Ventures, LLC	A56F	G	1.348	2.524	2.524
Manatee	13281	GTIS I VGC, LP	A49S	G	0.000	0.085	0.085
Manatee	13352	North Manatee Investment, LLC	A56S	G	0.000	0.461	0.461
Manatee	13354	Hecht Manatee Properties, Ltd	A56S	G	1.703	3.048	3.048
Manatee	13354	Hecht Manatee Properties, Ltd	A56S	S	0.000	3.048	3.048
Manatee	20091	FLF of Manatee, Inc	A56S	G	0.245	1.342	1.342
Manatee	20106	Parrish Road Duette, LLC	A53S	G	0.135	0.575	0.575
Manatee	20245	Timothy A. Knowles as Trustee	A56S	G	0.000	0.154	0.154
Manatee County Totals					47.437	Metered, mgd	
					3.846	Estimated, mgd, 171 WUPs	
					51.283	Total, mgd	

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Marion	2183	Phoenix Sunrise, LLC	A52S	G	0.000	0.150	0.150
Marion	2697	Charlotte Weber	A455	G	0.039	1.028	0.847
Marion	5424	J Crayton Pruitt	A550	G	0.000	1.226	1.226
Marion	11475	Arbor Springs Development, LLC	A490	G	0.001	0.106	0.074
Marion	11602	McGinley Family LP	A52S	G	0.016	2.653	2.653
Marion	12911	Ocala 623 Land Development, LLC	A460	G	0.101	0.223	0.073
Marion	20174	On Top of the World Communities Inc	A52F	G	0.000	0.664	0.663
Marion	20255	L L Hiers Jr and Jodi Hiers	A52S	G	0.000	0.792	0.787
Marion	20319	Sleepy Creek Lands LLC	A52S	G	0.073	0.888	0.888
Marion County Totals					0.230	Metered, mgd	
					2.582	Estimated, mgd, 51 WUPs	
					2.812	Total, mgd	
Pasco	617	La Hacienda Del Cielo, LLC	A415	G	0.017	0.122	0.122
Pasco	1580	SRI 2, LLC	A410	G	0.094	0.095	0.095
Pasco	1580	SRI 2, LLC	A410	S	0.047	0.095	0.095
Pasco	1636	Spray Miser International Inc	A415	G	0.000	0.177	0.177
Pasco	1977	Herbert & Lacy Boltin Rev Living Trust	A415	G	0.067	0.153	0.153
Pasco	2413	Pasco Ranch, Inc	A490	G	0.000	0.115	0.115
Pasco	2479	Wiregrass Ranch Inc	A525	G	0.000	0.535	0.000
Pasco	2603	Robin Matis-Jackson	A410	G	0.061	0.162	0.162
Pasco	2644	Epco Ranch, Inc	A415	G	0.000	0.122	0.122
Pasco	2698	Sid Larkin & Son Inc, JSL Ranch Inc, Larkin Cattle Co Inc	A495	G	0.078	0.497	0.497
Pasco	3379	Perfection Partners, Ltd	A415	G	0.000	0.112	0.112
Pasco	3380	Evans Properties Inc	A50F	G	0.000	0.165	0.165
Pasco	3381	Evans Properties Inc	A415	G	0.000	0.138	0.138
Pasco	3388	Evans Properties Inc	A415	G	0.002	0.252	0.252
Pasco	3390	Evans Properties Inc	A415	G	0.000	0.081	0.081
Pasco	3391	Evans Properties Inc	A415	G	0.000	0.794	0.794

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Pasco	3392	Evans Properties Inc	A415	G	0.000	0.226	0.226
Pasco	3468	Bexley Ranch Land Trust	A525	G	0.000	0.343	0.343
Pasco	4052	Evans Properties Inc	A415	G	0.003	0.102	0.102
Pasco	4540	Will Pick LLC	A425	G	0.000	0.025	0.025
Pasco	5897	Barthle Brothers Ranch, LLC	A58S	G	0.000	0.205	0.205
Pasco	5973	Freemarr Development, Inc & Suntech Investments, Inc	A415	G	0.067	0.302	0.302
Pasco	7021	Brightman Logan Revocable Trust	A480	G	0.006	0.155	0.155
Pasco	7497	Ann Oakley Maggard And Dale Edward Maggard	A415	G	0.039	0.146	0.146
Pasco	7499	Lake Placid Groves LLC	A415	G	0.140	0.187	0.187
Pasco	7576	CR Pasco Development Company, LLC	A495	G	0.000	0.360	0.360
Pasco	7686	Angelo's Aggregate Materials, LTD	A485	G	0.000	0.152	0.152
Pasco	8737	Boarshead Ranch, LLC	A525	G	0.001	0.820	0.820
Pasco	8932	Jordan and Jordan Inc	A415	G	0.057	0.163	0.163
Pasco	9081	Evans Properties Inc	A495	G	0.000	0.094	0.094
Pasco	9150	LD Mitchell Inc	A415	G	0.001	0.245	0.245
Pasco	9749	Simpson Farms, Inc	A415	G	0.096	0.163	0.163
Pasco	11634	James & Dorothy Mitchell Investments, Ltd	A455	G	0.000	0.346	0.346
Pasco	11773	Little Everglades Ranch Inc	A525	G	0.049	0.322	0.132
Pasco	11773	Little Everglades Ranch Inc	A525	S	0.000	0.322	0.132
Pasco	11926	Price Realty LLC	A415	G	0.000	0.053	0.053
Pasco	11927	Will Pick LLC	A415	G	0.000	0.111	0.111
Pasco	12346	La Hacienda Del Cielo LLC	A415	G	0.009	0.216	0.206
Pasco	12919	EMSM Pasco, LLC	A485	G	0.140	0.161	0.161
Pasco	12934	Angeline Corp	A525	G	0.000	0.317	0.317
Pasco	13114	The Gardens Wholesale Nursery	A480	G	0.118	0.174	0.174
Pasco	13170	Angelo's Aggregate Materials Ltd	A525	G	0.326	0.579	0.575
Pasco	13171	Stony Pointe Limited Partnership	A425	G	0.171	0.127	0.127
Pasco	13316	Al-Bar Ranch Partnership	A535	G	0.000	0.149	0.149

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Pasco	20413	Frogmore Ranch, LLC	A410	G	0.108	0.475	0.475
Pasco County Totals					1.695	Metered, mgd	
					4.581	Estimated, mgd, 203 WUPs	
					6.276	Total, mgd	
Pinellas	7362	Pinellas Co Parks & Conservation Department	A485	G	0.000	0.192	0.063
Pinellas	7362	Pinellas Co Parks & Conservation Department	A485	S	0.000	0.192	0.063
Pinellas	12062	Pinellas County	A405	G	0.013	0.131	0.131
Pinellas County Totals					0.013	Metered, mgd	
					0.002	Estimated, mgd, 1 WUP	
					0.015	Total, mgd	
Polk	97	Gapway Grove Corp & Strang Groves, LLC	A415	G	0.209	0.889	0.889
Polk	143	Mountain Lake Corporation	A415	G	0.158	3.380	0.747
Polk	170	Smith & Sons Citrus, LLC	A415	G	0.118	0.122	0.122
Polk	222	Lake Hancock Partners LLLP	A415	G	0.075	0.079	0.079
Polk	285	Lake Garfield Grove LLC	A415	G	0.098	0.110	0.110
Polk	327	Waverly Growers Cooperative	A415	G	0.039	0.099	0.099
Polk	382	L Dicks, Inc	A415	G	0.000	0.129	0.129
Polk	384	John G Wood & Associates, Inc	A415	G	0.013	0.320	0.320
Polk	423	John Perdue, Jr	A415	G	0.038	0.100	0.100
Polk	425	Jefferson Grove, LLLP	A415	G	0.077	0.159	0.159
Polk	426	Allapatah Cragg Groves Corporation	A415	G	0.010	0.142	0.142
Polk	427	Clear Springs Land Company, LLC	A495	G	0.000	0.235	0.235
Polk	429	Jefferson Grove, LLLP	A415	G	0.050	0.112	0.112
Polk	430	South Property Holdings, LLC	A415	G	0.032	0.110	0.110
Polk	504	Ray-Bob Groves Inc	A415	G	0.184	0.175	0.175
Polk	551	Bryan Groves, Inc	A415	G	0.095	0.071	0.071
Polk	674	Homer Thompson Revocable Trust	A415	G	0.080	0.086	0.086
Polk	683	Rohlfing Groves Company	A415	G	0.000	0.134	0.134

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Polk	683	Rohlfing Groves Company	A415	S	0.002	0.134	0.134
Polk	696	Gardinier Florida Citrus, Inc	A415	G	0.300	0.211	0.211
Polk	772	Putnam Groves, Inc	A415	G	0.186	0.442	0.442
Polk	819	Gain Inc	A415	G	0.061	0.079	0.079
Polk	910	Jack M. Berry, Inc	A415	G	0.315	0.208	0.208
Polk	928	Manuel & Shelly Lopez & John A Jr & Allison Stephens	A415	G	0.033	0.077	0.077
Polk	949	Surveyors Lake, LLC, and Surveyors Lake Grove, LLC	A415	G	0.040	0.073	0.073
Polk	961	Adams Groves, Inc	A415	G	0.063	0.143	0.143
Polk	963	Gapway Grove Corporation	A415	G	0.046	0.159	0.159
Polk	1003	BCW Groves Inc	A415	G	0.082	0.090	0.090
Polk	1005	Central Florida Blueberries, LLC	A410	G	0.043	0.025	0.025
Polk	1109	Brent Monk	A415	G	0.030	0.140	0.140
Polk	1153	Orange & Sons Inc	A415	G	0.000	0.110	0.110
Polk	1161	Lake Buffum Grove Ltd	A415	G	0.070	0.152	0.152
Polk	1202	H Block LLC	A415	G	0.036	0.103	0.103
Polk	1207	Gapway Grove Corporation	A415	G	0.063	0.131	0.131
Polk	1252	Jason Bentley	A415	G	0.000	0.288	0.288
Polk	1253	Cutrale Citrus Juices USA Inc	A415	G	0.157	0.237	0.237
Polk	1300	Oscar W Rogers & Jane Rogers	A415	G	0.136	0.181	0.181
Polk	1404	Ben Hill Griffin, Inc	A415	G	0.078	0.123	0.123
Polk	1420	Fetco Inc	A415	G	0.033	0.086	0.086
Polk	1426	PH Citrus LLC	A415	G	0.119	0.150	0.150
Polk	1430	Story Citrus Inc	A415	G	0.092	0.188	0.188
Polk	1433	Flying V, Inc	A415	G	0.012	0.097	0.097
Polk	1455	Hutcheson Holdings, LLC	A415	G	0.068	0.122	0.122
Polk	1456	Maurice Stephens, SFLG, LLC, and The Estate of Betty Carlson	A415	G	0.044	0.143	0.143
Polk	1458	Hurlburt Construction Inc	A470	G	0.000	0.169	0.169
Polk	1467	Sunshine Fort Meade Properties, Inc	A480	G	0.069	0.102	0.102

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Polk	1501	J. Henry Groves, Inc	A415	G	0.026	0.080	0.080
Polk	1664	Southeast Investments of Palm Beach County, Inc	A470	G	0.000	0.141	0.141
Polk	1667	Badillo Brothers, Inc	A415	G	0.061	0.082	0.082
Polk	1676	The Montesco Group, LLC	A415	G	0.131	0.232	0.232
Polk	1693	Clear Springs Land Company, LLC	A525	G	0.002	1.049	1.049
Polk	1693	Clear Springs Land Company, LLC	A525	S	0.000	1.049	1.049
Polk	1845	Ben Hill Griffin, Inc	A495	G	0.118	0.324	0.324
Polk	1851	David H. Wilcox	L660	G	0.461	0.446	0.446
Polk	1883	Johnston Properties, Inc	A415	G	0.104	0.179	0.179
Polk	1884	Michael E. And Lanita S. Wynn	A415	G	0.043	0.154	0.154
Polk	1943	Thomas Thayer, Jr	A415	G	0.150	0.114	0.114
Polk	1955	Marianne Barwick	A415	G	0.053	0.119	0.119
Polk	1978	Atlantic Funding Ltd	A415	G	0.019	0.110	0.110
Polk	2003	Fresh Florida Oranges Inc	A415	G	0.027	0.158	0.158
Polk	2047	Sun Grown Citrus LLC	A415	G	0.071	0.112	0.112
Polk	2057	Gabriel Groves, Inc	A415	G	0.053	0.091	0.091
Polk	2063	Scott Stevenson	A415	G	0.248	0.215	0.215
Polk	2130	Fort Family Partnership, LTD	A415	G	0.077	0.098	0.098
Polk	2132	Flying V, Inc	A415	G	0.056	0.112	0.112
Polk	2146	Thelma C. Raley, Inc	A415	G	0.300	0.308	0.308
Polk	2147	Thelma C. Raley, Inc	A415	G	0.262	0.298	0.298
Polk	2438	Ben Hill Griffin, Inc	A415	G	0.123	0.115	0.115
Polk	2439	Lake McLeod, LLC	A495	G	0.014	0.184	0.184
Polk	2448	Ben Hill Griffin, Inc	A415	G	0.399	0.484	0.484
Polk	2466	Robert W Teston	A415	G	0.030	0.103	0.103
Polk	2470	Alico, Inc	A415	G	0.077	0.110	0.110
Polk	2501	Seibels Enterprises Inc	A415	G	0.103	0.227	0.227
Polk	2503	Estes Groves Inc	A415	G	0.117	0.180	0.180

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Polk	2587	Flying V Inc	A415	G	0.135	0.176	0.176
Polk	2715	Mosaic Fertilizer, LLC	A525	G	1.036	5.387	4.298
Polk	2715	Mosaic Fertilizer, LLC	A525	S	0.200	5.387	4.298
Polk	2722	Hunt Bros., Inc	A415	G	0.040	0.092	0.092
Polk	2834	Bartow Citrus Products, LLC	A485	G	0.013	0.468	0.313
Polk	2873	Cemex Construction Materials Florida, LLC	A415	G	0.393	1.073	0.990
Polk	2873	Cemex Construction Materials Florida, LLC	A415	S	0.000	1.073	0.990
Polk	2989	Sunshine Agriculture, Inc	A415	G	0.210	0.214	0.214
Polk	3039	Mark Wheeler Groves Inc	A415	G	0.041	0.071	0.071
Polk	3040	Wheeler-Waverly Grove, LLC	A415	G	0.200	0.276	0.276
Polk	3074	Suncoast Builders of Bartow, LLC	A415	G	0.111	0.134	0.134
Polk	3147	Clear Springs Enterprises LLC	A535	G	0.108	0.478	0.147
Polk	3219	Gardinier Florida Citrus, Inc	A415	G	0.463	0.323	0.323
Polk	3238	Dundee Valencias, LLC	A415	G	0.000	0.092	0.092
Polk	3439	William M & Dixie L Lennon	A415	G	0.046	0.099	0.099
Polk	3439	William M & Dixie L Lennon	A415	S	0.000	0.099	0.099
Polk	3446	Holmes Gardens Associates Ltd	A415	G	0.055	0.068	0.068
Polk	3493	KMT Farm and Timber Company, LLC	A415	G	0.068	0.230	0.230
Polk	3675	Ow Hancock LLLP	A415	G	0.087	0.136	0.136
Polk	3731	Five Star Family Growers LLC	A480	G	0.139	0.461	0.461
Polk	3731	Five Star Family Growers LLC	A480	S	0.075	0.461	0.461
Polk	3734	Ben Hill Griffin, Inc	A415	G	0.098	0.168	0.168
Polk	3735	Lo Brothers Enterprises Inc	A415	G	0.288	0.325	0.325
Polk	3747	James L Schmidt li Trustee of The Fbjo Land Trust	A415	G	0.000	0.131	0.131
Polk	3806	Emery C Jr. and Vada E Etter	A415	G	0.140	0.107	0.107
Polk	3841	Sun Grown Citrus LLC	A415	G	0.006	0.026	0.026
Polk	3842	Sun Grown Citrus LLC	A415	G	1.046	1.304	1.304
Polk	3867	Ben Hill Griffin, Inc	A415	G	0.080	0.128	0.128

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Polk	3946	Ellingson Groves, Inc	A415	G	0.051	0.079	0.079
Polk	3948	Ellingson Groves, Inc	A415	G	0.050	0.072	0.072
Polk	3962	Kyle R. & Marissa N. Story	A415	G	0.075	0.083	0.083
Polk	3963	CBM Groves Inc and Myers Grove Inc	A415	G	0.097	0.123	0.123
Polk	3972	Victor B Story Sr	A415	G	0.095	0.096	0.096
Polk	3984	Nola Land Company, Inc	A415	G	0.057	0.061	0.061
Polk	4002	Elizabeth W. Beck Credit Shelter Trust	A415	G	0.105	0.320	0.320
Polk	4026	Clay Cut LLC	A415	G	0.051	0.141	0.141
Polk	4045	Amelia Groves, LLC	A415	G	0.040	0.126	0.126
Polk	4074	Ward's Nursery, Inc	A485	G	0.070	0.290	0.290
Polk	4093	Ben Hill Griffin, Inc	A415	G	0.084	0.122	0.122
Polk	4099	Rolling Meadow Ranch Groves, LLC	A415	G	0.192	0.254	0.254
Polk	4099	Rolling Meadow Ranch Groves, LLC	A415	S	0.000	0.254	0.254
Polk	4108	PH Citrus, LLC	A415	G	0.181	0.424	0.424
Polk	4123	Wheeler Farms, Inc	A415	G	0.218	0.196	0.196
Polk	4166	SR 544, LLC	A415	G	0.373	0.315	0.315
Polk	4177	Hunt Bros, Inc	A415	G	0.004	0.010	0.010
Polk	4236	Nola Land Company Inc	A415	G	0.068	0.107	0.107
Polk	4263	PH Citrus LLC	A415	G	0.056	0.276	0.276
Polk	4285	The Ridge Irrigation Cooperative	A415	G	0.096	0.184	0.184
Polk	4286	Faribault Groves Partners	A415	G	0.085	0.096	0.096
Polk	4301	Sun Grown Citrus LLC	A415	G	0.415	0.601	0.601
Polk	4328	G Stead Groves Inc	A415	G	0.126	0.128	0.128
Polk	4331	Wheeler Farms, Inc	A415	G	0.429	0.472	0.472
Polk	4341	Ben Hill Griffin, Inc	A415	G	0.062	0.081	0.081
Polk	4345	Dole Berry Company	A410	G	1.170	1.066	1.066
Polk	4376	Alcoma Caretaking LLC	A415	G	0.416	1.008	1.008
Polk	4376	Alcoma Caretaking LLC	A415	S	0.000	1.008	1.008

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Polk	4377	H R Baxter & Sons Enterprises	A415	G	0.089	0.105	0.105
Polk	4424	Putnam Groves, Inc	A415	G	0.061	0.142	0.142
Polk	4432	Hunt Bros. Inc	A415	G	0.159	0.217	0.217
Polk	4497	Gapway Grove Corporation	A415	G	0.104	0.169	0.169
Polk	4516	Central Ridge Inc	A415	G	0.090	0.134	0.134
Polk	4532	Thomas A. Thayer Jr	A415	G	0.069	0.092	0.092
Polk	4551	Julia Livingston Revocable Living Trust	A415	G	0.067	0.155	0.155
Polk	4551	Julia Livingston Revocable Living Trust	A415	S	0.061	0.155	0.155
Polk	4558	Ben Hill Griffin, Inc	A415	G	0.281	0.357	0.357
Polk	4558	Ben Hill Griffin, Inc	A415	S	0.054	0.357	0.357
Polk	4559	Ben Hill Griffin, Inc	A415	G	0.998	1.226	1.226
Polk	4560	Ben Hill Griffin, Inc	A415	G	0.289	0.428	0.428
Polk	4563	Griffin Groves Inc	A415	G	0.120	0.130	0.130
Polk	4567	Ben Hill Griffin, Inc	A415	G	0.075	0.103	0.103
Polk	4628	Hunt Bros., Inc	A415	G	0.032	0.042	0.042
Polk	4629	Ronnie's Citrus, Inc	A415	G	0.080	0.070	0.070
Polk	4634	Hunt Bros Inc & CFM Inc & ENC Inc	A415	G	0.083	0.115	0.115
Polk	4766	Livingston Groves, LLC	A415	G	0.021	0.085	0.085
Polk	4810	Highland Sand, LLC	A415	G	0.343	0.424	0.424
Polk	4827	VLI Family Limited Partnership	A415	G	0.034	0.091	0.091
Polk	4831	Durrance and Sons LLC	A415	G	0.029	0.146	0.146
Polk	5008	Alico, Inc	A415	G	0.145	0.231	0.231
Polk	5010	Alico, Inc	A415	G	0.097	0.093	0.093
Polk	5011	Alico, Inc	A415	G	0.338	0.320	0.320
Polk	5013	Alico, Inc	A415	G	0.458	0.565	0.565
Polk	5013	Alico, Inc	A415	S	0.090	0.565	0.565
Polk	5014	Alico, Inc	A415	G	0.277	0.302	0.302
Polk	5014	Alico, Inc	A415	S	0.044	0.302	0.302

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Polk	5015	Alico, Inc	A415	G	0.538	0.524	0.524
Polk	5016	Alico, Inc	A415	G	0.056	0.292	0.292
Polk	5016	Alico, Inc	A415	S	0.211	0.292	0.292
Polk	5019	Alico, Inc	A415	G	0.347	0.419	0.419
Polk	5062	Gardinier Florida Citrus, Inc	A415	G	0.369	0.307	0.307
Polk	5086	Vonann & Myers Groves Inc, Myers Fam Liv Trust	A415	G	0.253	0.400	0.400
Polk	5120	Emery C Jr. and Vada E Etter	A415	G	0.423	0.422	0.422
Polk	5123	Hunt Bros. Inc	A415	G	0.045	0.059	0.059
Polk	5125	Baneway Groves Inc	A415	G	0.021	0.081	0.081
Polk	5130	Betty Jane Fulton & Betty Jane Fulton Trust	A415	G	0.045	0.216	0.216
Polk	5296	Ben Hill Griffin, Inc	A415	G	0.086	0.102	0.102
Polk	5394	Lake Sawyer Properties, Inc	A415	G	0.033	0.105	0.105
Polk	5396	Crews Groves Inc & Mallory Enterprises Inc	A415	G	0.224	0.242	0.242
Polk	5414	Kahn Grove Service Co	A415	G	0.080	0.107	0.107
Polk	5416	Emery Etter, Jr	A415	G	0.025	0.035	0.035
Polk	5472	Hunt Bros. Inc	A415	G	0.095	0.116	0.116
Polk	5476	C.F.M., Inc	A415	G	0.098	0.290	0.290
Polk	5480	Hunt Bros. Inc	A415	G	0.068	0.073	0.073
Polk	5481	Hunt Bros., Inc	A415	G	0.131	0.193	0.193
Polk	5482	Hunt Bros. Inc	A415	G	0.194	0.268	0.268
Polk	5483	Hunt Bros., Inc	A415	G	0.023	0.020	0.020
Polk	5486	Hunt Bros. Inc	A415	G	0.053	0.087	0.087
Polk	5571	734 LMC Groves, LLC	A415	G	0.147	0.221	0.221
Polk	5572	734 LMC Groves, LLC	A415	G	0.153	0.143	0.143
Polk	5584	Sun Grown Citrus LLC	A415	G	0.070	0.085	0.085
Polk	5610	Ben Hill Griffin, Inc	A415	G	0.034	0.082	0.082
Polk	5629	Davis Enterprises, Inc	A415	G	0.121	0.142	0.142
Polk	5635	Gardinier Florida Citrus, Inc	A415	G	0.288	0.315	0.315

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Polk	5636	Griffin Family Limited Partnership	A415	G	0.155	0.191	0.191
Polk	5654	Doudney Investment Co	A415	G	0.044	0.105	0.105
Polk	5669	PH Citrus LLC	A415	G	0.021	0.061	0.061
Polk	5679	South Property Holdings, LLC	A415	G	0.074	0.094	0.094
Polk	5711	C. C. Calhoun, Inc	A415	G	0.067	0.061	0.061
Polk	5739	PH Citrus, LLC	A415	G	0.045	0.091	0.091
Polk	5823	Putnam Groves, Inc	A415	G	0.115	0.318	0.318
Polk	5850	Hunt Bros. Inc	A415	G	0.225	0.345	0.345
Polk	6026	7L Camp Mack LLC	A415	G	1.244	1.448	1.448
Polk	6068	Rolling Meadow Ranch, Inc	A415	G	0.976	1.172	1.172
Polk	6128	Lake Wales Country Club, LLC	A415	G	0.003	0.313	0.006
Polk	6268	Southern Citrus Nurseries, LLC	A415	G	0.086	0.148	0.148
Polk	6278	M and V, LLC	A480	G	0.063	0.124	0.124
Polk	6280	Beck Agricultural Holdings, LLLP	A415	G	0.042	0.092	0.092
Polk	6468	Robert G Stokes & Stokes Groves Inc	A495	G	0.215	0.340	0.340
Polk	6481	John T. Perry II	A415	G	0.008	0.082	0.082
Polk	6558	Thayer Farms, Inc	A415	G	0.276	0.313	0.313
Polk	6633	Christina P. Hooker	A415	G	0.008	0.122	0.122
Polk	6633	Christina P. Hooker	A415	S	0.000	0.122	0.122
Polk	6670	Mosaic Fertilizer LLC	A415	G	0.213	0.425	0.425
Polk	6681	Henry Marks	A415	G	0.000	0.172	0.172
Polk	6755	Chris & Minnie Ingram	A410	G	0.076	0.159	0.159
Polk	6878	Wheeler Farms, Inc	A415	G	0.052	0.077	0.077
Polk	6890	Triple S Holdings Limited	A415	G	0.026	0.136	0.136
Polk	6940	KLM Farms, LLC	A415	G	0.081	0.167	0.167
Polk	6995	Martin and Karen McKenna	A415	G	0.067	0.137	0.137
Polk	7024	Tastespire, Inc	A415	G	0.120	0.105	0.105
Polk	7053	Lake Hancock Partners LLLP	A415	G	0.028	0.271	0.271

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Polk	7136	Davis Citrus, Inc	A415	G	0.094	0.135	0.135
Polk	7176	John A. Langford, William S. Langford, & Lillian M. Langford	A415	G	0.001	0.103	0.103
Polk	7197	Douglas and Melanie Feek	A415	G	0.025	0.067	0.067
Polk	7199	South Orange Properties LLP	A415	G	0.098	0.118	0.118
Polk	7270	B & D LLC	A415	G	0.168	0.277	0.277
Polk	7409	Princess Grove LLC	A415	G	0.022	0.143	0.143
Polk	7517	Brown Groves, Inc	A415	G	0.070	0.102	0.102
Polk	7548	Jonathan Maxcy Inc	A415	G	0.083	0.108	0.108
Polk	7570	Ambrose Grove LLC	A415	G	0.088	0.108	0.108
Polk	7573	Devane Citrus, Inc	A415	G	0.140	0.163	0.163
Polk	7654	Flying V, Inc	A415	G	0.117	0.086	0.086
Polk	7668	Ben Hill Griffin, Inc	A415	G	0.229	0.300	0.300
Polk	7670	734 LMC Groves, LLC	A415	G	0.565	0.906	0.906
Polk	7698	Ben Hill Griffin, Inc	A415	G	0.068	0.117	0.117
Polk	7789	Elliott Investments LLC	A490	G	0.113	0.150	0.150
Polk	7791	W. E. Green & Sons, Inc	A415	G	0.007	0.041	0.041
Polk	7796	Pat Wilson Inc	A490	G	0.090	0.166	0.166
Polk	7839	Griffin Family Limited Partnership	A415	G	0.095	0.103	0.103
Polk	7916	CG Citrus, LLC	A415	G	0.068	0.083	0.083
Polk	8096	Myers Groves, Inc	A415	G	0.162	0.232	0.232
Polk	8098	Myers Groves, Inc	A415	G	0.195	0.307	0.307
Polk	8099	The Parman Group, LLC	A56S	G	0.191	0.499	0.499
Polk	8143	VLI Family Limited Partnership	A415	G	0.083	0.097	0.097
Polk	8206	Hazel Brannen	A415	G	0.095	0.102	0.102
Polk	8228	Jacob Grv. Inc, Ann W., Bruce R. Jacob, & Jean L. Jacob Phillips	A415	G	0.086	0.240	0.240
Polk	8261	734 LMC Groves, LLC	A415	S	0.056	0.059	0.059
Polk	8263	734 LMC Groves, LLC	A415	G	0.123	0.138	0.138
Polk	8295	Hermanns Real Estate Ventures, LLC	A410	G	0.046	0.360	0.360

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Polk	8305	Thomas E. Davis	A415	G	0.034	0.093	0.093
Polk	8357	Thomas E. Davis, Inc	A415	G	0.038	0.101	0.101
Polk	8360	Lake Annie Grove LLC	A415	G	0.100	0.166	0.166
Polk	8367	Thomas E. Davis	A415	G	0.038	0.119	0.119
Polk	8620	B L Lanier & Associates	A415	G	0.019	0.106	0.106
Polk	8645	Donald and Frances Drawdy	L660	G	0.070	0.180	0.180
Polk	8934	Ben Hill Griffin, Inc	A415	G	0.141	0.181	0.181
Polk	8978	Victor B. Story, Jr. Revocable Trust	A415	G	0.061	0.083	0.083
Polk	9192	Bowen Bros Inc c/o Keith Bowen	A415	G	0.140	0.361	0.361
Polk	9419	Alico, Inc	A415	G	0.161	0.531	0.531
Polk	9419	Alico, Inc	A415	S	0.439	0.531	0.531
Polk	9704	Walter William Investment Company	A410	G	0.170	0.285	0.285
Polk	9704	Walter William Investment Company	A410	S	0.293	0.285	0.285
Polk	9806	Lake Hancock Partners, LLLP	A410	G	0.138	0.126	0.126
Polk	9864	J. Everett Allen & Sons, Inc	A415	G	0.026	0.158	0.158
Polk	9887	Ida Averett, Sam Averett and Suzanne Butner	A415	G	0.007	0.096	0.096
Polk	10096	Twenty Twenty Groves Inc	A415	G	0.630	0.626	0.626
Polk	10231	Morris Family Trust	A410	G	0.039	0.122	0.122
Polk	10575	Sunshine Growers Inc	A480	G	0.001	0.031	0.031
Polk	10598	Quality Turf LC	A525	G	0.380	0.392	0.392
Polk	10656	Stephen J. Fox, LLC	A590	G	0.037	0.120	0.116
Polk	10857	Burton Ranch, LLC	A415	G	0.063	0.053	0.053
Polk	10915	Stenger Holdings, Inc	A415	G	0.168	0.152	0.152
Polk	11031	Growers Investment Group, LLC	A415	G	0.127	0.166	0.166
Polk	11161	Ridge Investments, LLC	A415	G	0.082	0.091	0.091
Polk	11163	Emil Jahna	A415	G	0.087	0.100	0.100
Polk	11173	Rocker Farms Inc	A415	G	0.056	0.083	0.083
Polk	11176	Rocker Farms Inc	A415	G	0.073	0.077	0.077

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Polk	11178	D&L Farms, Inc	A410	G	0.058	0.089	0.089
Polk	11219	Rolling Meadow Groves Limited and Rolling Meadow Ranch Inc	A415	G	0.296	0.565	0.565
Polk	11229	Griffin Family Limited Partnership	A415	G	0.059	0.113	0.113
Polk	11297	Lake Isabell Partners	A415	G	0.162	0.153	0.153
Polk	11316	Livingston Groves, LLC	A415	G	0.000	0.078	0.078
Polk	11361	L & E, Inc	A415	G	0.033	0.075	0.075
Polk	11377	Daniel A Norris Sr & Carolyn A Norris	A415	G	0.066	0.159	0.159
Polk	11524	Wallace U. and Faye P. Barber Trust	A535	G	0.000	0.032	0.032
Polk	11630	Victor Story Estate-Story Citrus Inc & Story Groves Inc	A415	G	0.081	0.144	0.144
Polk	11693	City of Lakeland Parks & Recreation Dept	A485	G	0.005	0.176	0.017
Polk	11745	Edward S Weeks	A415	G	0.000	0.022	0.022
Polk	11843	Family Acres, Inc	A415	G	0.057	0.162	0.162
Polk	11843	Family Acres, Inc	A415	S	0.006	0.162	0.162
Polk	11851	John L. Beck Living Trust	A415	G	0.058	0.143	0.143
Polk	11903	Hunt Bros. Inc	A415	G	0.005	0.008	0.008
Polk	12061	Hunt Bros. Inc	A415	G	0.067	0.112	0.112
Polk	12232	Citrosuco North America	A415	G	0.132	1.751	0.247
Polk	12392	PH Citrus LLC	A415	G	0.763	0.958	0.958
Polk	12446	C. C. Calhoun, Inc	A415	G	0.115	0.161	0.144
Polk	12459	Sara T. Lanier Revocable Living Trust	A415	G	0.019	0.140	0.140
Polk	12488	BT & JP James Land LLC	A410	G	0.203	0.305	0.305
Polk	12500	Rolling Meadow Ranch, Inc	A415	G	0.147	0.267	0.267
Polk	12504	Dennis Corbett	A415	G	0.000	0.114	0.114
Polk	12574	Family Acres, Inc	A415	G	0.025	0.091	0.091
Polk	12637	Wheeler Farms, Inc	A415	G	0.100	0.139	0.139
Polk	12782	Standard Sand & Silica Company	A415	G	0.342	0.571	0.571
Polk	12782	Standard Sand & Silica Company	A415	S	0.076	0.571	0.571
Polk	12792	Quality Turf, LC	A525	G	0.039	0.198	0.198

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Polk	12867	Clear Springs Enterprises LLC	A410	G	0.635	0.908	0.908
Polk	12890	Heifer Hill, Inc	A415	G	0.104	0.145	0.145
Polk	13018	Ben Hill Griffin, III Family Limited Partnership, LLLP	A470	G	0.048	0.243	0.243
Polk	13062	Sun Grown Citrus LLC	A415	G	0.159	0.261	0.261
Polk	13084	South Property Holdings, LLC	A415	G	0.098	0.112	0.112
Polk	13201	PH Citrus LLC	A415	G	0.091	0.099	0.099
Polk	13342	Evans Ranch, LLC	A410	G	0.010	0.201	0.201
Polk	13342	Evans Ranch, LLC	A410	S	0.000	0.201	0.201
Polk	20205	David H. Grooms and Carl R. Grooms	A535	G	0.017	0.053	0.053
Polk	20205	David H. Grooms and Carl R. Grooms	A535	S	0.012	0.053	0.053
Polk	20272	Luna Berry Farms	A410	G	0.018	0.176	0.176
Polk	20272	Luna Berry Farms	A410	S	0.000	0.176	0.176
Polk	20440	Preferred Materials, Inc	A415	G	0.014	0.277	0.277
Polk	20601	John Stephens, Inc.	A415	G	0.011	0.082	0.082
Polk	20613	Citrus Sinensis LLC/Harvey Snively	A415	G	0.020	0.042	0.042
Polk County Totals					39.602	Metered, mgd	
					34.336	Estimated, 1,660 WUPs	
					73.938	Total, mgd	
Sarasota	3755	Mabry Carlton Ranch Inc	A56S	G	0.073	4.261	4.261
Sarasota	3764	Longino Ranch, Inc	A525	G	0.108	1.219	1.219
Sarasota	3854	D Bar F Ranch	A490	G	0.002	0.099	0.099
Sarasota	3872	The Ranch Land Operations, LLLP	A525	G	0.000	2.459	2.459
Sarasota	3872	The Ranch Land Operations, LLLP	A525	S	0.000	2.459	2.459
Sarasota	3873	Schwartz Farms Inc	A470	G	0.935	2.181	2.181
Sarasota	3890	Bispham Family Limited Partnership	A525	G	0.265	0.464	0.464
Sarasota	4087	L T Partners LLLP	A525	G	0.030	1.128	1.128
Sarasota	4387	Hi Hat Ranch LLLP	A525	G	0.985	3.884	3.884
Sarasota	6736	Hmta Real Estate LLC	A525	G	0.000	0.301	0.301

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
Sarasota	7289	John A. Peachey TTEE and Glenn A. Peachey	A450	G	0.242	0.333	0.333
Sarasota	8226	Lindvest Fruitville, Ltd	A58H	G	0.000	0.370	0.370
Sarasota	8336	SMR Farms LLC	A50F	G	0.083	0.883	0.883
Sarasota	9361	Albritton Groves Ltd	A415	G	0.133	0.177	0.177
Sarasota	9638	McCann East, LP	A495	G	0.000	0.149	0.149
Sarasota	10458	Palmer Place LLC	A490	G	0.000	0.183	0.183
Sarasota	12275	Mote Marine Laboratory, Inc	L632	G	0.142	0.155	0.154
Sarasota	12275	Mote Marine Laboratory, Inc	L632	S	0.000	0.155	0.154
Sarasota	12516	J. Kenneth Harrison	A525	G	0.000	0.553	0.553
Sarasota	12606	Myakka Ranch Holdings, LLC	A495	G	0.000	0.200	0.200
Sarasota	20192	SRQ Land, LLC	A525	G	0.000	0.724	0.724
Sarasota County Totals					2.997	Metered, mgd	
					0.886	Estimated, mgd, 30 WUPs	
					3.883	Total, mgd	
Sumter	2180	Sumter, LLC; Carlos Beruff	A480	G	0.001	1.026	0.676
Sumter	3534	Florida Fish & Wildlife Conservation Commission	L632	G	1.319	1.991	1.991
Sumter	6838	Florida Department of Corrections	A57F	G	0.010	0.458	0.014
Sumter	8211	Flowerwood Nursery, Inc	A480	G	0.176	0.575	0.575
Sumter	10519	Carriage Country, Appaloosa Acres, Derby Dreams	A480	G	0.407	0.746	0.746
Sumter	20244	Barbara Lasley, et al	A525	G	0.000	0.664	0.664
Sumter	20281	TDM Enterprises, LLC	A525	G	0.034	0.509	0.509
Sumter	20387	Duval Farms, LLC	A470	G	0.000	0.573	0.573
Sumter	20511	Walton Acquisitions FL, LLC	A52S	G	0.000	0.718	0.718
Sumter County Totals					1.947	Metered, mgd	
					4.292	Estimated, mgd, 117 WUPs	
					6.236	Total, mgd	

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Table A-7. 2016 Permitted and Withdrawn Quantities (mgd) – Metered Agricultural WUPs

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to AG Use Category ⁴
District Totals					227.923	Metered, mgd	
					95.720	Estimated, mgd	
					323.668	Total, mgd	

Notes:

Three WUPs above had a significant amount of withdrawals in two counties; #503 in Manatee withdrew 0.331 in Hillsborough, #2715 in Polk withdrew 0.812 in Hardee, and #3275 in DeSoto withdrew 0.402 in DeSoto. These WUPs are listed only in their home county in Table A-7 but their withdrawals were split among two counties for county totals in this report, therefore discrepancies occur. Minor discrepancies also occur in some summations due to rounding of raw data.

- ¹ Use Code: Alpha-numeric number given to the use that has the highest quantity attributed to the permit. The first letter indicates the “predominant use” on the permit (A=Agricultural, L=Livestock). Other specific uses may be listed on the WUP, but the largest specific use is shown. The use codes are provided on the next page.
- ² Source = Groundwater (G), Surface Water (S)
- ³ The metered annual average withdrawals by each permittee under the Agricultural use category, in million gallons per day. The totals show the sum of metered withdrawals, an additional amount estimated for the non-metered permittees, and the combined total for the county and District. Some county metered totals may not match actual sum shown due to corrections for WUPs with wells in two or more counties. Rounding discrepancies may also occur.
- ⁴ This value gives an indication if the permitted quantities are entirely for agricultural use. If the number is less than the total permitted quantity, there is another predominant use allocated in the WUP.

Descriptions of Use Codes shown in Table A-7. This list contains more codes than are shown in the above table for reference. Codes in *italics* have been discontinued, but may still exist in the WMIS database until a permit is modified.

A400	Augmentation for Aesthetic	A475	Nurseries	A575	<i>Vegetables, Oriental</i>
A401*	<i>Augmentation for Replacement</i>	A480	Nursery, Container	A57F	Vegetables Small
A402	Spray Mix for Crops	A485	Nursery, Field	A57H	<i>Vegetables</i>
A403	Biofuel Crops	A486	Caladiums	A57S	<i>Vegetables</i>
A405	Augmentation for Environmental	A487	Greenhouse Plants/Nursery	A58H	Vegetables Small
A406	Packaging	A488	<i>Cut Flowers</i>	A58S	Vegetables Small
A407	<i>Pine or Other Evergreen Trees</i>	A490	Pasture	A590	Vineyards
A410	Blueberries	A491	Alfalfa	A591	<i>Frost/Freeze and/or Heat Stress</i>
A415	Citrus	A495	Hay, Commercial	A592	Watercress
A416	Citrus, Flatwood	A500	<i>Peanuts</i>	A610	Broccoli
A420	Container Citrus Nursery	A505	<i>Peppers</i>	A615	Cabbage Bok Choy
A421	<i>Bedding Plants</i>	A50F	Peppers	A620	Carrots
A425	Field Citrus Nursery	A515	Potatoes	A625	Cauliflower
A426	<i>Woody Ornamentals</i>	A51S	Peppers	A630	Celery

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Agricultural Use Codes Continued

A430	Cover Crop	A520	Research	A635	Eggplant
A43F	Cucumbers	A525	Sod	A640	Okra (Non-Cover Crop)
A43S	<i>Cucumbers</i>	A52F	Peanuts	A645	Personal Sanitary Use
A445	Fruit trees other than citrus	A52S	Peanuts	A646	Onions
A44S	Cucumbers	A530	Soybeans	A647	Fire Suppression
A450	Corn, Feed	A535	Strawberries	A650	Other (Non-Crop Miscellaneous)
A451	Corn, Silage	A540	Subtropical Fruits	A651	Peas, Snow Peas
A455	Grains, All	A545	Sugarcane	A652	<i>Pine or Other Evergreen Trees</i>
A460	Lawn & Landscape Irrigation	A550	Corn, Sweet	A655	Squash, Zucchini - (Non-Cover Crop)
A465	Beans, Dry	A555	<i>Tobacco</i>	A700	Other Crops/Plants
A466	Beans, Green	A56F	Tomatoes	A705*	Dewatering to On-Site for Ag
A470	Melons	A56S	Tomatoes	A706	Dewatering to Off-Site for Ag

* Uses A401 and A705 are excluded from the estimated water use query.

Livestock Use Codes

L600	Animals	L630	Fish Farm (Edible)	L700	Animal Cleaning
L601	Goats	L631	Catfish - Food	L705	Cleaning / Maintenance
L602	Llama/Alpaca	L632	Commercial Food	L707	Tank fill for fertigation/chemigation
L603	Ostrich	L633	Feeder	L710	Drinking
L604	Rabbits	L635	<i>Horses</i>	L715	Equipment and Facility Cleaning
L605	<i>Cattle, Feedlot</i>	L640	<i>Livestock Cooling</i>	L720	In-field washing and packing
L606	Sheep	L645	<i>Personal Sanitary Use</i>	L725	Packaging
L610	<i>Cattle, Pastured</i>	L650	Poultry/Turkeys	L730	Product Cooling
L615	Dairy Farming	L655	Swine	L735	Product Washing
L620	Product Cooling	L660	Tropical Fish Farms	L740	Fire Protection/Testing
L625	Equipment and Facility Cleaning	L661	Commercial Tropical	L745	Rescue Shelter Animals

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TABLE A-8. 2016 METERED + ESTIMATED AGRICULTURE MONTHLY AVERAGE WITHDRAWALS (MGD/MONTH) BY COUNTY

County	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
*Charlotte	1.205	2.946	5.855	14.157	7.776	2.159	0.713	0.836	1.511	7.135	15.959	11.422
Citrus	0.490	0.608	1.866	2.418	2.054	1.406	0.982	0.895	1.000	2.138	3.064	2.373
Desoto	12.762	14.097	58.485	98.040	60.132	23.328	27.563	28.093	21.845	57.396	89.592	89.194
Hardee	12.801	13.703	39.033	57.882	41.247	20.164	18.897	14.368	15.392	38.407	68.331	53.179
Hernando	0.467	0.583	2.067	2.700	1.981	0.926	0.725	0.644	0.715	2.156	3.279	2.592
*Highlands	14.909	22.030	46.814	57.446	45.425	34.494	30.623	32.807	23.620	43.651	60.456	49.055
Hillsborough	25.066	37.181	49.112	51.165	42.106	18.987	27.721	16.210	28.022	87.735	68.768	49.358
*Lake	0.656	0.406	1.304	1.546	0.739	1.068	0.681	0.408	0.449	1.225	1.970	1.363
*Levy	1.755	3.448	7.147	8.922	7.584	6.600	7.849	5.840	3.238	6.455	9.982	10.126
Manatee	17.473	44.904	90.809	96.820	57.065	23.710	13.649	25.480	39.019	64.462	90.783	54.953
*Marion	0.743	0.979	3.697	4.983	3.486	1.683	1.380	1.100	1.209	3.678	6.083	4.727
Pasco	2.289	2.277	9.529	9.460	8.168	4.481	4.034	3.951	3.093	7.705	11.047	9.299
Pinellas	0.001	0.001	0.002	0.003	0.002	0.043	0.012	0.023	0.001	0.003	0.081	0.003
*Polk	34.045	36.608	88.400	111.770	90.423	62.479	51.773	43.109	45.572	91.865	136.075	104.866
Sarasota	0.710	3.120	3.874	7.642	8.210	4.945	2.784	1.512	1.265	3.719	4.519	4.305
Sumter	2.527	3.679	8.568	9.030	7.461	4.579	3.683	2.489	4.342	7.931	11.954	8.617
District Total	127.900	186.570	416.565	533.984	383.859	211.052	193.068	177.765	190.294	425.662	581.944	455.431
Groundwater	122.687	178.265	401.451	516.064	368.991	200.152	185.200	168.496	181.568	403.355	561.927	437.711
Surface Water	5.213	8.305	15.115	17.919	14.868	10.900	7.868	9.269	8.725	22.307	20.018	17.720

* Data is only from the portion of the county within the District.

Source: Estimated Water Use Tables derived from the WMIS WUP database.

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Table A-9. 2016 Permitted and Withdrawn Quantities for Metered Mining/Dewatering WUPs (mgd)

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to M/D Use Category ⁴
Charlotte	9687	Williams Farms Partnership	M976	G	0	1.858	0.035
Charlotte	9687	Williams Farms Partnership	M976	S	0	1.858	0.035
Charlotte	9926	R and D Cattle Ranch LLC	M976	G	0	0.665	0.049
Charlotte	9926	R and D Cattle Ranch LLC	M976	S	0	0.665	0.049
Charlotte County Totals					0	Metered, mgd	
					0.077	Estimated, mgd, 17 WUPs	
					0.077	Total, mgd	
There are no metered mining/dewatering water use permits in Citrus County					0	Metered, mgd	
					0.052	Estimated, mgd, 3 WUPs	
					0.052	Total, mgd	
There are no metered mining/dewatering water use permits in DeSoto County					0	Metered, mgd	
					0.002	Estimated, mgd, 8 WUPs	
					0.002	Total, mgd	
Hardee	3669	Mosaic Fertilizer LLC	M940	G	1.386	6.392	6.390
Hardee (Polk) ⁵	11400	Mosaic Fertilizer LLC	M940	G	0.567	NA	NA
Hardee (Polk) ⁵	11400	Mosaic Fertilizer LLC	M940	S	0.038	NA	NA
Hardee County Totals					1.991	Metered, mgd	
					0	Estimated, mgd, 0 WUPs	
					1.991	Total, mgd	
There are no metered mining/dewatering water use permits in Hernando County					0	Metered, mgd	
					0.026	Estimated, mgd, 4 WUPs	
					0.026	Total, mgd	
There are no metered mining/dewatering water use permits in Highlands County					0	Metered, mgd	
					0.007	Estimated, mgd, 3 WUPs	
					0.007	Total, mgd	
Hillsborough	10140	Progressive Waste Solutions of Florida, Inc	M976	G	0.001	0.159	0.017
Hillsborough	10140	Progressive Waste Solutions of Florida, Inc	M976	S	0	0.159	0.017

2016 ESTIMATED WATER USE REPORT

Table A-9. 2016 Permitted and Withdrawn Quantities for Metered Mining/Dewatering WUPs (mgd)

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to M/D Use Category ⁴
Hillsborough (Polk) ⁵	11400	Mosaic Fertilizer LLC	M940	G	7.165	NA	NA
Hillsborough	12514	Colding Loop Road Wimauma, LLC	M965	G	0.063	0.732	0.08
Hillsborough	12514	Colding Loop Road Wimauma, LLC	M965	S	0	0.732	0.08
Hillsborough	12836	Razorback Ranch, LLC	M965	G	0	0.496	0.093
Hillsborough	12836	Razorback Ranch, LLC	M965	S	0	0.496	0.093
Hillsborough County Totals					7.229	Metered, mgd	
					0.172	Estimated, mgd, 8 WUPs	
					7.401	Total, mgd	
There are no metered mining/dewatering water use permits in Lake County					0	Metered, mgd	
					0	Estimated, mgd, 0 WUPs	
					0	Total, mgd	
There are no metered mining/dewatering water use permits in Levy County					0	Metered, mgd	
					0	Estimated, mgd, 1 WUP	
					0	Total, mgd	
Manatee	11019	Old Florida Investments, Inc	M976	G	0.015	1.538	0.062
Manatee	11019	Old Florida Investments, Inc	M976	S	0	1.538	0.062
Manatee (Polk) ⁵	11400	Mosaic Fertilizer LLC	M940	G	4.089	NA	NA
Manatee County Totals					4.104	Metered, mgd	
					0.068	Estimated, mgd, 3 WUPs	
					4.172	Total, mgd	
There are no metered mining/dewatering water use permits in Marion County					0	Metered, mgd	
					0.019	Estimated, mgd, 1 WUP	
					0.019	Total, mgd	
Pasco	13170	Angelo's Aggregate Materials Ltd	M976	G	0.003	0.579	0.004
Pasco County Totals					0.003	Metered, mgd	
					0.057	Estimated, mgd, 6 WUPs	
					0.060	Total, mgd	

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Table A-9. 2016 Permitted and Withdrawn Quantities for Metered Mining/Dewatering WUPs (mgd)

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to M/D Use Category ⁴
There are no metered mining/dewatering water use permits in Pinellas County					0	Metered, mgd	
					0	Estimated, mgd, 0 WUPs	
					0	Total, mgd	
Polk	1356	Preferred Materials Inc	M960	G	0.055	0.491	0.491
Polk	2873	Cemex Construction Materials Florida	M976	G	0.033	1.073	0.083
Polk	2873	Cemex Construction Materials Florida	M976	S	0.000	1.073	0.083
Polk	4857	Standard Sand & Silica Company	M960	G	0.001	1.181	1.181
Polk (multi-county) ⁵	11400	Mosaic Fertilizer LLC	M940	G	8.274	69.600	43.866
Polk	12076	Cemex Construction Materials Florida	M976	G	0.007	0.097	0.046
Polk	12076	Cemex Construction Materials Florida	M976	S	0.000	0.097	0.046
Polk	12755	Cemex Construction Materials Florida	M960	G	0.060	0.198	0.198
Polk	12755	Cemex Construction Materials Florida	M960	S	0.000	0.198	0.198
Polk County Totals					8.431	Metered, mgd	
					0.062	Estimated, mgd, 7 WUPs	
					8.493	Total, mgd	
There are no metered mining/dewatering water use permits in Sarasota County					0	Metered, mgd	
					0.166	Estimated, mgd, 4 WUPs	
					0.166	Total, mgd	
Sumter	8891	Cemex Construction Materials Florida	M976	G	0	0.206	0.101
Sumter	8891	Cemex Construction Materials Florida	M976	S	0	0.206	0.101
Sumter	12885	American Cement Co LLC	M976	G	0.015	0.443	0.099
Sumter County Totals					0.015	Metered, mgd	
					0.243	Estimated, mgd, 4 WUPs	
					0.258	Total, mgd	
District Totals					21.773	Metered, mgd	
					0.951	Estimated, mgd	
					22.724	Total, mgd	

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Source: WMIS database. Totals were calculated using raw data, which may create minor rounding discrepancies.

Notes:

- 1 Use Code: Alpha-numeric number given to the use that has the highest quantity attributed to the permit. Other specific uses may be listed on the WUP, but the largest specific use is shown. The first letter indicates the “predominant use” on the permit (M = mining/dewatering). Descriptions of the use codes are provided below.
- 2 Source = Groundwater (G) or Surface Water (S)
- 3 The metered annual average withdrawals by each permittee under the mining/dewatering use category, in million gallons per day. The totals show the sum of metered withdrawals, an additional amount estimated for the non-metered permittees, and the combined total for the county.
- 4 This value gives an indication whether the permitted quantity is entirely for mining/dewatering use. If the number is less than the total permitted quantity, there is another predominant use allocated to the WUP, and the WUP may have additional withdrawals for that use.
- 5 The Mosaic Fertilizer Integrated Water Use Permit (#11400) permitted quantity is assigned to Polk County but the permit has withdrawal points located in Hardee, Hillsborough, Manatee, and Polk counties. The metered withdrawals are allocated to the county where they occurred.

Descriptions of mining/dewatering use codes are provided below. There are more codes listed, for reference, than are shown in Table A-9.

M905	Augmentation for Environmental	M935	Personal Sanitary Use	M975	Shell Processing
M910	Lawn & Landscape Irrigation	M940	Phosphate Ore Processing	M976	Water Entrained with Product
M911	Plant/Facilities Mining	M945	Phosphate Pit Dewatering	M980	Fire Protection/Testing
M912	Outside Use (washing/maintenance)	M950	Phosphate Water Table Dewater	M985*	Recirculated Mining Quantities
M915	Limestone Processing	M955	Reclamation Irrigation	M990	Water Discharged Off-Site
M920	Limestone Quarry Dewatering	M960	Sand & Gravel Processing	M995	Environmental Dewatering
M925	Mining Other Uses	M965	Sand & Gravel Dewatering	M996	Dewatering for construction
M930	Peat Mine Dewatering	M970	Shell Pit Dewatering	M999	Gypsum Stack Closure

*Use M985 is excluded from the estimated water use query.

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Table A-10. 2016 Metered + Estimated Mining/Dewatering Monthly Average Withdrawals (mgd/month)

County	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
*Charlotte	0.093	0.079	0.043	0.062	0.079	0.066	0.069	0.109	0.084	0.082	0.078	0.084
Citrus	0.056	0.051	0.038	0.037	0.036	0.045	0.040	0.060	0.061	0.061	0.066	0.066
Desoto	0.002	0.002	0.000	0.001	0.003	0.001	0.002	0.003	0.001	0.001	0.001	0.001
Hardee	0.196	0.332	2.033	3.597	2.874	2.373	5.794	1.965	1.849	0.550	0.487	1.842
Hernando	0.025	0.020	0.017	0.035	0.041	0.019	0.022	0.033	0.017	0.027	0.030	0.029
*Highlands	0.012	0.008	0.001	0.008	0.014	0.006	0.009	0.015	0.007	0.006	0.003	0.005
Hillsborough	7.546	4.516	5.485	5.529	9.629	4.848	4.561	3.609	4.965	5.341	4.923	27.862
*Lake	0	0	0	0	0	0	0	0	0	0	0	0
*Levy	0	0	0	0	0	0	0	0	0	0	0	0
Manatee	4.035	4.499	3.920	4.574	3.721	3.777	4.383	4.360	3.829	4.540	3.998	4.430
*Marion	0.016	0.020	0.024	0.020	0.019	0.015	0.019	0.014	0.018	0.019	0.018	0.019
Pasco	0.049	0.060	0.085	0.064	0.061	0.049	0.058	0.046	0.055	0.060	0.059	0.064
Pinellas	0	0	0	0	0	0	0	0	0	0	0	0
*Polk	25.799	8.921	6.687	7.182	3.450	5.278	4.609	5.832	6.198	7.801	10.645	9.519
Sarasota	0.147	0.180	0.209	0.180	0.169	0.138	0.170	0.131	0.162	0.172	0.161	0.168
Sumter	0.217	0.284	0.322	0.279	0.253	0.223	0.273	0.207	0.258	0.270	0.254	0.248
District Total	38.193	18.972	18.863	21.568	20.349	16.837	20.009	16.384	17.505	18.929	20.723	44.336
Groundwater	37.364	18.066	17.957	20.740	19.544	16.115	19.194	15.578	16.615	18.008	19.719	43.047
Surface Water	0.828	0.904	0.905	0.827	0.803	0.723	0.814	0.807	0.890	0.923	1.004	1.292

* Data is only from the portion of the county within the District.

Source: Estimated Water Use Tables derived from the WMIS WUP database, 2016.

Withdrawals for the Mosaic Fertilizer integrated permit (WUP 11400) were adjusted manually so they are represented in county where they occurred.

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Table A-11. 2016 Permitted and Pumped Quantities on Metered Industrial/Commercial WUPs (mgd)

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to I/C Use Category ⁴
Charlotte	10959	M Lewis Hall Protective Trust	I840	G	0.000	0.203	0.023
There are no metered industrial/commercial water use permits in Charlotte County					0.000	Metered, mgd	
					0.024	Estimated, mgd, 5 WUPs	
					0.024	Total, mgd	
Citrus	207	City of Crystal River	I840	G	0.005	0.919	0.005
Citrus	3672	Florida Power Corp DbA Duke Energy	I860	G	2.779	5.309	5.309
Citrus	11281	Metal Industries, Inc	I705	G	0.121	0.220	0.220
Citrus	20299	Heatherwood Investments	I735	G	0.002	0.077	0.077
Citrus	20362	United States Gypsum Company	I500	G	0.000	0.397	0.397
Citrus County Totals					2.908	Metered, mgd	
					0.023	Estimated, mgd, 7 WUPs	
					2.931	Total, mgd	
DeSoto	70	Peace River Citrus Products Inc	I765	G	0.196	0.400	0.400
DeSoto	6841	Desoto County Utilities	I840	G	0.395	0.822	0.822
DeSoto County Totals					0.591	Metered, mgd	
					0.077	Estimated, mgd, 3 WUPs	
					0.668	Total, mgd	
Hardee	9731	Hardee Power Partners	I725	G	0.179	3.800	3.800
Hardee	12048	Vandolah Power Company LLC	I425	G	0.024	0.212	0.212
Hardee	12331	Classic Caladiums Inc & Smoak Groves Inc	I805	G	0.031	0.929	0.086
Hardee	13158	Mooney Family, LLC	I735	G	0.000	0.449	0.449
Hardee County Totals					0.234	Metered, mgd	
					0.064	Estimated, mgd, 4 WUPs	
					0.298	Total, mgd	
Hernando	2286	Cemex Inc	I740	G	0.781	2.716	2.716
Hernando	7015	Florida Power Development LLC	I447	G	4.011	5.410	5.410

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Table A-11. 2016 Permitted and Pumped Quantities on Metered Industrial/Commercial WUPs (mgd)

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to I/C Use Category ⁴
Hernando County Totals					4.792	Metered, mgd	
					0.039	Estimated, mgd, 6 WUPs	
					4.831	Total, mgd	
Highlands	4086	Cargill Juice North America Inc	I760	G	0.000	0.087	0.036
Highlands County Totals					0.000	Metered, mgd	
					0.087	Estimated, mgd, 11 WUPs	
					0.087	Total, mgd	
Hillsborough	139	Lutz Lake Association, Inc	I790	G	0.000	0.042	0.042
Hillsborough	148	Yuengling Brewing Co Of Tampa Inc	I513	G	0.368	0.666	0.666
Hillsborough	229	R C C I (Red Chamber Co Inc)	I830	G	0.181	0.214	0.214
Hillsborough	1415	Mosaic Fertilizer, LLC	I835	G	2.141	4.240	4.240
Hillsborough	1415	Mosaic Fertilizer, LLC	I835	S	0.000	4.240	4.240
Hillsborough	1532	Mosaic Fertilizer, LLC	I755	G	0.005	5.985	5.970
Hillsborough	1532	Mosaic Fertilizer, LLC	I755	S	2.423	5.985	5.970
Hillsborough	1960	University of South Florida	I840	G	1.053	2.364	1.385
Hillsborough	1960	University of South Florida	I840	S	0.006	2.364	1.385
Hillsborough	3050	Tampa Port Services	I408	G	0.000	4.250	4.250
Hillsborough	3055	Speedling, Inc	I500	G	0.001	0.302	0.006
Hillsborough	3118	Kerry I & F Contracting Co	I800	G	2.420	3.050	3.050
Hillsborough	3742	Paradise, Inc	I511	G	0.120	0.228	0.228
Hillsborough	6233	Tampa Electric Company	I863	G	0.000	0.234	0.234
Hillsborough	7586	Hwy 92 Real Estate Investments LLC	I519	G	0.000	0.106	0.072
Hillsborough	9658	Keel Farms, Inc	I420	G	0.002	0.069	0.005
Hillsborough	11181	Del Monte Fresh Production, Inc	I840	G	0.001	1.591	0.004
Hillsborough	11986	St Josephs Hospital, Inc	I400	G	0.178	0.192	0.192
Hillsborough	13131	St. Josephs Hospital North	I840	G	0.001	0.006	0.006
Hillsborough	13228	Mosaic Fertilizer, LLC	I720	G	0.121	4.250	4.250

2016 ESTIMATED WATER USE REPORT

Table A-11. 2016 Permitted and Pumped Quantities on Metered Industrial/Commercial WUPs (mgd)

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to I/C Use Category ⁴
Hillsborough	20215	Trademark Nitrogen, Corp	I805	G	0.183	0.206	0.206
Hillsborough County Totals					9.205	Metered, mgd	
					0.324	Estimated, mgd, 41 WUPs	
					9.529	Total, mgd	
There are no industrial/commercial water use permits in Lake County					0.000	Metered, mgd	
					0.000	Estimated, mgd, 0 WUPs	
					0.000	Total, mgd	
There are no metered industrial/commercial water use permits in Levy County					0.000	Metered, mgd	
					0.005	Estimated, mgd, 5 WUPs	
					0.005	Total, mgd	
Manatee	5302	Florida Power & Light Company	I861	S	0.392	8.519	8.519
Manatee	5423	Florida Power & Light Company	I770	G	0.033	0.663	0.073
Manatee	12413	Waste Management Inc. of Florida	I805	G	0.001	0.135	0.135
Manatee	12413	Waste Management Inc. of Florida	I805	S	0	0.135	0.135
Manatee	20198	Lockheed Martin Corporation	I705	G	0.207	0.411	0.411
Manatee County Totals					0.633	Metered, mgd	
					0.099	Estimated, mgd, 13 WUPs	
					0.732	Total, mgd	
There are no metered industrial/commercial water use permits in Marion County					0.000	Metered, mgd	
					0.004	Estimated, mgd, 1 WUP	
					0.004	Total, mgd	
Pasco	451	Tanler Water Company	I805	G	0.227	3.514	3.514
Pasco	9087	Jason Gorrie	I780	G	0.051	0.72	0.72
Pasco	9132	Crystal Springs Preserve Inc	I735	G	0	0.757	0.757
Pasco	9132	Crystal Springs Preserve Inc	I735	S	0.647	0.757	0.757
Pasco	10413	Quantum Pasco Power LP	I861	G	0.147	0.762	0.762
Pasco	10772	Florida Power Corporation	I865	G	0.151	0.288	0.288

2016 ESTIMATED WATER USE REPORT

Table A-11. 2016 Permitted and Pumped Quantities on Metered Industrial/Commercial WUPs (mgd)

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to I/C Use Category ⁴
Pasco	11913	Heritage Springs Comm Assoc	I810	G	0.001	0.429	0.061
Pasco	12052	Shady Hills Power Company, LLC	I425	G	0.001	0.154	0.154
Pasco	12784	Order of Saint Benedict of Florida	I477	G	0.003	0.143	0.012
Pasco County Totals					1.229	Metered, mgd	
					0.062	Estimated, mgd, 12 WUPs	
					1.291	Total, mgd	
Pinellas	10646	Olympia Investment Group, SHS Resort	I405	G	0.031	0.040	0.036
Pinellas	13276	John Hopkins All Childrens Hospital Inc	I700	G	0.001	0.112	0.112
Pinellas	20254	Electronic Comm Inc., c/o Raytheon Co	I805	G	0.092	0.230	0.230
Pinellas County Totals					0.124	Metered, mgd	
					0.042	Estimated, mgd, 5 WUPs	
					0.166	Total, mgd	
Polk	47	City of Lakeland	I435	G	0.909	2.592	2.592
Polk	47	City of Lakeland	I435	S	0.000	2.592	2.592
Polk	225	Interstate Commerce Park One, LLC	I502	G	0.040	0.084	0.084
Polk	260	Caribbean Distillers	I735	G	0.000	0.112	0.112
Polk	261	Hackl Enterprises, LLC	I429	G	0.002	0.143	0.143
Polk	295	City of Lakeland	I780	S	0.101	0.415	0.415
Polk	408	Citrus World, Inc	I765	G	1.242	2.139	2.139
Polk	438	U.S. Agri-Chemicals Corporation	I835	G	5.887	6.242	6.242
Polk	440	U.S. Agri-Chemicals Corporation	I859	G	0.000	0.063	0.063
Polk	493	Cutrale Citrus Juices USA Inc	I765	G	0.953	2.500	2.500
Polk	610	Mosaic Fertilizer, LLC	I835	G	0.519	1.665	1.665
Polk	610	Mosaic Fertilizer, LLC	I835	S	0.000	1.665	1.665
Polk	2834	Bartow Citrus Products, LLC	I765	G	0.006	0.468	0.155
Polk	3147	Clear Springs Enterprises LLC	I511	G	0.245	0.478	0.331
Polk	3150	Kc Industries LLC & Kc Industries Properties	I423	G	0.002	0.192	0.141

2016 ESTIMATED WATER USE REPORT

Table A-11. 2016 Permitted and Pumped Quantities on Metered Industrial/Commercial WUPs (mgd)

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to I/C Use Category ⁴
Polk	3641	AOC, LLC	I780	G	0.017	0.601	0.601
Polk	5798	Publix Super Markets Inc	I412	G	0.987	1.441	1.441
Polk	5798	Publix Super Markets Inc	I412	S	0.027	1.441	1.441
Polk	8753	GCP Plantation Landings, LLC	I478	G	0.008	0.070	0.013
Polk	10347	Caribbean Distillers	I800	G	0.293	0.410	0.410
Polk	10555	Caribbean Distillers	I780	G	0.335	0.455	0.455
Polk	10604	Quantum Auburndale Power, LP	I861	G	0.017	1.326	1.326
Polk	10631	Wheelabrator Ridge Energy, Inc	I861	G	0.451	0.875	0.875
Polk	10700	Polk Power Partners LP	I861	G	0.293	0.761	0.761
Polk	10770	Juice Bowl Products, Inc	I420	G	0.537	0.900	0.900
Polk	10840	Duke Energy & Us Agri Chemicals Corp	I861	G	0.741	1.700	1.700
Polk	10944	Duke Energy Florida	I861	G	0.610	17.500	17.500
Polk	10948	Orange Cogeneration Limited Partnership	I860	G	0.335	0.660	0.660
Polk	11400	Mosaic Fertilizer, LLC	I835	G	11.186	69.600	24.861
Polk	11400	Mosaic Fertilizer, LLC	I835	S	0.021	69.600	24.861
Polk	11747	Tampa Electric Company	I863	G	0.619	4.300	4.300
Polk	12054	Osprey Energy Center, LLC	I861	G	1.933	2.742	2.742
Polk	12076	Cemex Construction Materials Florida, LLC	I745	G	0.007	0.097	0.050
Polk	12076	Cemex Construction Materials Florida, LLC	I745	S	0.000	0.097	0.050
Polk	12232	Citrosuco North America	I765	G	0.804	1.751	1.504
Polk	12794	Sofidel America, Inc	I800	G	0.155	0.324	0.324
Polk	12867	Clear Springs Enterprises LLC	I840	G	0.000	0.908	0.000
Polk	13240	Mizkan Americas Inc	I800	G	0.035	0.095	0.095
Polk County Totals					29.318	Metered, mgd	
					0.797	Estimated, mgd, 78 WUPs	
					30.115	Total, mgd	

2016 ESTIMATED WATER USE REPORT

Table A-11. 2016 Permitted and Pumped Quantities on Metered Industrial/Commercial WUPs (mgd)

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to I/C Use Category ⁴
Sarasota	7448	Royalty Resorts Corporation	I840	G	0.077	0.186	0.165
Sarasota County Totals					0.077	Metered, mgd	
					0.079	Estimated, mgd, 7 WUPs	
					0.157	Total, mgd	
Sumter	2180	Sumter, LLC	I735	G	0	1.026	0.350
Sumter	6838	Florida Department of Corrections	I840	G	0.313	0.458	0.444
Sumter	8193	City of Center Hill	I820	G	0.006	0.171	0.014
Sumter	8891	Cemex Construction Materials Florida LLC	I411	G	0.000	0.206	0.105
Sumter	8891	Cemex Construction Materials Florida LLC	I411	S	0.000	0.206	0.105
Sumter	11259	Sumter County BOCC	I805	G	0.000	0.049	0.049
Sumter	12885	American Cement Co LLC	I740	G	0.051	0.443	0.344
Sumter	13111	William Farkus Rev Living Trust	I735	G	0.028	0.496	0.496
Sumter County Totals					0.397	Metered, mgd	
					0.232	Estimated, mgd, 15 WUPs	
					0.629	Total, mgd	
District Totals					49.509	Metered, mgd	
					1.958	Estimated, mgd	
					51.468	Total, mgd	

Source: District WMIS database. Totals are calculated from raw data which creates some minor rounding discrepancies in summations.

- 1 Use Code: Alpha-numeric number given to the use that has the highest quantity attributed to the permit. Other specific uses may be included on the WUP, but the largest specific use is shown. A list of industrial/commercial use codes is provided below.
- 2 Source = Groundwater (G) or Surface Water (S)
- 3 The annual average withdrawals by each permittee under the industrial/commercial use category, in million gallons per day. The totals show the sum of metered withdrawals, an additional amount estimated for the non-metered permittees, and the combined total for the county.
- 4 This value gives an indication if the permitted quantities are entirely for industrial/commercial use. If the number is less than the total permitted quantity, there is another predominant use allocated to the WUP.

2016 ESTIMATED WATER USE REPORT

Descriptions for the Industrial/Commercial Use Codes used in WMIS. There are more codes listed, for reference, than appear in table A-11.

I412	Cleaning and Maintenance	I701*	Closed Loop Heating and Cooling	I815	Lime Processing (Food, Fertilizer, etc.)
I423	Emission Control	I705	Aquifer Remediation	I820	Meat Packing
I425	Emission Control	I706	Water Well Contracting	I825*	Non-Power-Plant Non-Consumptive Cooling
I447	Power Plant Cooling Water Makeup	I710	Asphalt Manufacturing	I830	Perishable Food Processing
I467	Any Other Water Uses Not Listed	I720	Augmentation for Environmental	I835	Phosphate Chemical Processing
I468	Air Conditioning/Chillers	I725	Non-Power-Plant Boiler Makeup-Water	I840	Personal Sanitary Use
I469	Animals	I730	Non-Power Boiler Pollution Control	I841	Portable Use for Institutions
I470	Animal Watering	I735	Bottled Water	I845	Refrigeration
I471	Aquatic Habitat Fill	I736	Biofuels	I850	Truck Crop Packing
I472	Aquatic Habitat Water Change	I740	Cement Manufacturing	I855	Water Well Contracting
I473	Aquatic Habitat Water Replacement	I745	Cement or Cement Batch Plants	I856*	Reuse Water Quantities Received
I474	Augmentation for Aesthetic	I750	Cements or Cement Products	I857*	Reuse Water Quantities Used
I475	Fire Protection/Testing	I755	Chemical Manufacturing	I858	Water Used for Construction Purposes (Temp.)
I476	Lawn & Landscape Irrigation	I760	Citrus Packing	I859	Phosphate Gypsum Stack Closure
I477	Personal Sanitary Use	I765	Citrus Processing	I860	Power Plant Emission Control
I503	Evaporative Cooling	I770	Cleaning & Maintenance	I861	Power Plant Closed Cycle Steam Cooling
I504	Product Content	I775	Commercial Use (Car Washes, Laundry)	I862	Power Plant Once-Through Steam Cooling
I510	Product Washing	I780	Consumptive Cooling of Product	I863	Power Plant Boiler Feed and Makeup Water
I511	Product Mixing and Dilution	I785	Dilution	I864	Power Plant Personal/Sanitary
I512	Product Washing	I795	Fire Protection and Testing	I865	Power Plant Industrial-Other
I513	Process Water	I800	General Product Manufacturing	I866*	Power Plant Seawater Cooling
I519	Washing	I805	Industrial Other Uses	I867	Refrigeration
I700	Air Conditioning	I810	Lawn & Landscape Irrigation	I868	Any Other Water Uses Not Listed

*Uses I701, I825, I856, I857, and I866 are excluded from the estimated water use query.

2016 ESTIMATED WATER USE REPORT

Table A-12. 2016 Metered + Estimated Industrial/Commercial Monthly Average Withdrawals (mgd/month)

County	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
*Charlotte	0.024	0.029	0.036	0.029	0.031	0.024	0.022	0.026	0.016	0.020	0.024	0.018
Citrus	2.540	2.087	2.361	2.774	2.747	3.719	3.750	3.249	2.682	3.348	3.057	2.861
Desoto	0.748	0.663	0.799	0.833	0.612	0.502	0.516	0.551	0.645	0.645	0.678	0.832
Hardee	0.214	0.155	0.277	0.349	0.439	0.199	0.246	0.383	0.386	0.246	0.218	0.468
Hernando	4.283	4.765	4.815	5.389	4.653	5.193	4.548	3.000	9.516	5.799	5.145	0.871
*Highlands	0.067	0.078	0.116	0.105	0.102	0.089	0.073	0.092	0.073	0.084	0.092	0.074
Hillsborough	8.218	8.307	9.721	9.537	8.872	10.457	10.309	10.294	10.520	9.521	9.384	9.191
*Lake	0	0	0	0	0	0	0	0	0	0	0	0
*Levy	0.004	0.005	0.006	0.005	0.006	0.004	0.004	0.005	0.003	0.004	0.005	0.004
Manatee	0.322	0.345	0.399	0.364	1.133	2.556	2.031	0.334	0.262	0.303	0.405	0.332
*Marion	0.004	0.005	0.006	0.005	0.005	0.004	0.004	0.004	0.003	0.003	0.004	0.003
Pasco	1.099	1.065	1.270	1.289	1.451	1.535	1.451	1.390	1.358	1.203	1.123	1.259
Pinellas	0.145	0.216	0.213	0.168	0.198	0.175	0.147	0.216	0.140	0.122	0.157	0.096
*Polk	36.357	29.183	28.712	27.085	32.917	30.490	25.836	26.596	25.621	28.362	28.690	41.524
Sarasota	0.208	0.140	0.223	0.211	0.146	0.152	0.078	0.204	0.138	0.169	0.134	0.078
Sumter	0.496	0.574	0.642	0.669	0.622	0.703	0.688	0.649	0.605	0.646	0.679	0.576
District Total	54.729	47.617	49.596	48.812	53.934	55.802	49.703	46.993	51.968	50.475	49.795	58.187
Groundwater	51.836	44.974	46.255	45.743	50.171	49.962	44.447	43.738	48.188	47.336	46.930	54.293
Surface Water	2.894	2.644	3.342	3.066	3.763	5.843	5.254	3.256	3.779	3.138	2.866	3.894

* Data is only from the portion of the county within the District.

Source: Estimated Water Use Tables derived from the WMIS WUP database.

2016 ESTIMATED WATER USE REPORT

Table A-13. 2016 Permitted and Withdrawn Quantities for Institutional and "Other" WUPs (mgd)

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to I/C Use Category ⁴
There are no Institutional or "Other" WUPs in Charlotte County							
Citrus	8849	Citrus County BOCC	N490	G (est.)	0.001	0.002	0.001
Citrus County Totals					0.001	Total, mgd	
There are no Institutional or "Other" WUPs in DeSoto County							
There are no Institutional or "Other" WUPs in Hardee County							
There are no Institutional or "Other" WUPs in Hernando County							
Highlands	10569	Highlands County School Board	N484	G (est.)	0.003	0.013	0.013
Highlands County Totals					0.003	Total, mgd	
Hillsborough	8717	Hillsborough Co School Board	N499	G (metered)	0.000	0.023	0.017
Hillsborough	20574	SWFWMD, Morris Bridge Sink	0508	G (est.)	0.000	2.071	2.071
Hillsborough	20575	SWFWMD, S-161 Hillsborough River Augment	0508	S (metered)	0.503	7.100	7.100
Hillsborough	20390	Hillsborough County Hospital Authority	N486	G (est.)	0.000	0.002	0.002
Hillsborough County Totals					0.503	Total, mgd	
There are no Institutional or "Other" WUPs in Lake County							
There are no Institutional or "Other" WUPs in Levy County							
There are no Institutional or "Other" WUPs in Manatee County							
There are no Institutional or "Other" WUPs in Marion County							
Pasco	2296	Saint Leo University, Inc	N499	G (metered)	0.184	0.243	0.243
Pasco	11127	Tampa Bay Water	0508	G (metered)	0.156	0.498	0.498
Pasco	11129	Tampa Bay Water	0508	G (metered)	0.106	0.416	0.416
Pasco	20500	Barthle Brothers Ranch, LLC	0508	G (metered)	0.126	1.540	1.540
Pasco County Totals					0.572	Total, mgd	
There are no Institutional or "Other" WUPs in Pinellas County							
There are no Institutional or "Other" WUPs in Polk County							
Sarasota	12842	Sarasota County Public Hospital Board	N499	G (est.)	0.000	0.001	0.001
Sarasota County Totals					0.000	Total, mgd	

2016 ESTIMATED WATER USE REPORT

Table A-13. 2016 Permitted and Withdrawn Quantities for Institutional and "Other" WUPs (mgd)

County	WUP Number	Permittee	Use Code ¹	Source ²	Annual Average Use ³	Total Permitted Annual Average Quantity	Permitted Quantity Attributed to I/C Use Category ⁴
There are no Institutional or "Other" WUPs in Sumter County							
District Totals					0.188	Institutional, mgd	
					0.891	"Other," mgd	
					1.079	Total, mgd	

Notes:

- ¹ Use Code: Alpha-numeric number given to the use that has the highest quantity attributed to the permit. The first letter indicates the "predominant use" on the permit (A=Institutional or O=Other). The list of the use code definitions is provided below.
- ² Source = Groundwater (G) or Surface Water (S), The column also specified if withdrawal quantity is based on metered data or estimation.
- ³ Many water use permits have more than one Use Type. This column shows the total annual average quantity permitted to that WUP that is under the same Predominant Use as is indicated by the first letter in the Use Code.

Descriptions for the Institutional and "Other" Use Codes used in WMIS. There are more codes listed, for reference, than appear in table A-13.

Institutional Use Codes:

N479	Augmentation for Aesthetic	N489	Decorative Water Features	N499	Personal Sanitary Use
N480	Golf Course	N490	Fire Fighting/Testing	N500	Power Plant Boiler Feed/Makeup Water
N481	Aesthetic use, not Augmentation	N491	Food Prep and Associated Water Needs	N501	Power Plant Closed Cycle Steam Cooling
N482	Augmentation for Aesthetic	N492	Fountains	N502	Power Plant Emission Control
N483	Augmentation for Environmental	N493	Maintenance & Cooling	N503	Power Plant Industrial-Other
N484	Lawn & Landscape Irrigation	N494	Non-PP Boiler Makeup-Water	N504	Power Plant Once-Through Steam Cleaning
N485	Sports Playing Fields	N495	Non-PP Non-Consumptive Cooling	N505	Public Drinking Fountains/Restrooms
N486	Air Conditioning/Cooling	N496	Non-PP Boiler Makeup Pollution Control	N506*	Reuse Water Generated on Site
N487	Cleaning and Maintenance	N497	Office/Staff Facilities	N507*	Reuse Water Received from a Utility
N488	Closed Loop Heating and Cooling	N498	Other "Institutional" Uses		

* Specific uses N506 and N507 are excluded from estimated water use query.

"Other" Use Codes:

0508	Augmentation for Environmental	0509	Water for Aquatic Habitats	0510	Other "Other" Uses
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2016 ESTIMATED WATER USE REPORT

Table A-14. 2016 Metered + Estimated Institutional and “Other” Monthly Average Withdrawals (mgd/month)

County	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
*Charlotte	0	0	0	0	0	0	0	0	0	0	0	0
Citrus	0.001	0.001	0.001	0.001	0.001	0.001	0	0	0	0	0.001	0.001
Desoto	0	0	0	0	0	0	0	0	0	0	0	0
Hardee	0	0	0	0	0	0	0	0	0	0	0	0
Hernando	0	0	0	0	0	0	0	0	0	0	0	0
*Highlands	0	0	0.006	0.001	0.014	0.001	0.001	0.005	0.001	0	0.001	0.001
Hillsborough	0.235	0	0	0.327	5.079	0.391	0	0	0	0	0	0
*Lake	0	0	0	0	0	0	0	0	0	0	0	0
*Levy	0	0	0	0	0	0	0	0	0	0	0	0
Manatee	0	0	0	0	0	0	0	0	0	0	0	0
*Marion	0	0	0	0	0	0	0	0	0	0	0	0
Pasco	0.356	0.378	0.446	0.404	0.356	0.452	1.196	1.086	0.587	0.560	0.370	0.684
Pinellas	0	0	0	0	0	0	0	0	0	0	0	0
*Polk	0	0	0	0	0	0	0	0	0	0	0	0
Sarasota	0	0	0	0	0.001	0	0	0	0	0	0	0
Sumter	0	0	0	0	0	0	0	0	0	0	0	0
District Total	0.592	0.379	0.453	0.733	5.451	0.845	1.197	1.091	0.588	0.560	0.372	0.686
Groundwater	0.357	0.379	0.453	0.406	0.371	0.453	1.198	1.092	0.588	0.561	0.371	0.686
Surface Water	0.235	0	0	0.327	5.079	0.391	0	0	0	0	0	0

* Data is only from the portion of the county within the District.

Source: Estimated Water Use Tables derived from the WMIS WUP database.

APPENDIX B

**2016 METERED + ESTIMATED ANNUAL AVERAGE
GROUNDWATER & SURFACE WATER WITHDRAWALS**

2016 ESTIMATED WATER USE REPORT

Table B-1. 2016 Metered + Estimated Annual Average Withdrawals (mgd) in the District by Source, Use Category, and County

County	Agriculture	Industrial/ Commercial	Mining/ Dewatering	Public Supply	Landscape/ Recreation	Institutional /Other	Total Withdrawal
GROUNDWATER (78%)							
*Charlotte	4.333	0.024	0	2.373	0.650	0	7.380
Citrus	1.589	2.931	0.002	14.988	3.847	0.001	23.358
Desoto	48.057	0.668	0.001	8.129	0.225	0	57.080
Hardee	33.467	0.298	1.991	1.425	0.109	0	37.290
Hernando	1.530	4.831	0.022	19.434	3.064	0	28.881
*Highlands	32.634	0.088	0	7.623	2.118	0.003	42.466
Hillsborough	39.754	7.076	7.229	58.754	8.372	0	121.185
*Lake	0.984	0	0	0	0	0	0.984
*Levy	6.580	0.005	0	0.694	0.198	0	7.477
Manatee	51.065	0.34	4.105	16.789	9.66	0	81.959
*Marion	2.812	0.004	0.019	10.475	2.992	0	16.302
Pasco	6.187	0.644	0.008	62.539	3.123	0.572	73.073
Pinellas	0.015	0.165	0	27.192	2.167	0	29.539
*Polk	71.581	29.963	8.436	66.603	6.483	0	183.066
Sarasota	3.745	0.157	0.001	18.993	5.495	0	28.293
Sumter	6.149	0.629	0.017	20.594	3.194	0	30.583
GW Subtotals	310.482	47.823	21.831	336.507	51.697	0.576	768.916
% of GW	40%	6%	3%	44%	7%	0%	100%
SURFACE WATER (22%)							
*Charlotte	1.239	0	0.077	5.047	1.108	0	7.471
Citrus	0.018	0	0.050	0	0.152	0	0.22
Desoto	0.720	0	0.001	24.528	0	0	25.249
Hardee	0.128	0	0.057	0	0	0	0.185
Hernando	0.038	0	0.004	0	0.809	0	0.851
*Highlands	5.811	0	0.007	0.011	0.042	0	5.871
Hillsborough	2.343	2.453	0.172	131.972	0.290	0.503	137.733
*Lake	0	0	0	0	0	0	0
*Levy	0	0	0	0	0	0	0
Manatee	0.218	0.392	0.067	28.539	0.214	0	29.43
*Marion	0	0	0	0	0.426	0	0.426
Pasco	0.089	0.647	0.052	0.054	0.243	0	1.085
Pinellas	0	0.001	0	0	0.781	0	0.782
*Polk	2.357	0.152	0.000	0	0.298	0	2.807
Sarasota	0.138	0	0.165	1.577	1.150	0	3.010
Sumter	0.087	0	0.241	6.734	0	0	7.062
District SW	13.186	3.645	0.893	198.442	5.513	0.503	222.182
% of SW	6%	2%	0%	89%	2%	0%	100%
District Totals	323.668	51.468	22.724	534.949	57.210	1.079	991.098
% Totals/Use Category	33%	5%	2%	54%	6%	0%	100%

* Data is only from the portion of the county within the District.

Totals do not include Domestic Self-Supply (34.674 mgd) or Seawater Desalination (2.020 mgd).

Source: Estimated Water Use Tables derived from the WMIS WUP database and PSARs, 2016.

2016 ESTIMATED WATER USE REPORT

Table B-2. 2016 Metered + Estimated Average Annual Withdrawal (mgd) in the Southern Water Use Caution Area (SWUCA) by Source, Use Category, and County

County	Agriculture	Industrial/ Commercial	Mining/ Dewatering	Public Supply	Landscape/ Recreation	Institutional /Other	Total Withdrawal
GROUNDWATER (85%)							
*Charlotte	4.333	0.024	0	2.373	0.650	0	7.380
Desoto	48.057	0.668	0.001	8.129	0.225	0	57.080
Hardee	33.467	0.298	1.991	1.425	0.109	0	37.290
*Highlands	32.634	0.088	0.000	7.623	2.118	0.003	42.466
*Hillsborough	21.425	2.6	7.443	24.492	2.836	0	58.796
Manatee	51.065	0.340	4.105	16.789	9.660	0	81.959
*Polk	66.338	29.901	8.271	59.494	5.045	0	169.049
Sarasota	3.745	0.157	0.001	18.895	5.495	0	28.293
SWUCA GW Subtotals	261.064	34.076	21.812	139.220	26.138	0.003	482.313
% of GW	54%	7%	5%	29%	5%	0%	100%
SURFACE WATER (15%)							
*Charlotte	1.239	0	0.077	5.047	1.108	0	7.471
Desoto	0.720	0	0.001	24.528	0.000	0	25.249
Hardee	0.128	0	0.057	0	0	0	0.185
*Highlands	5.811	0	0.007	0.011	0.042	0	5.871
*Hillsborough	0.785	2.428	0.172	9.208	0.202	0	12.795
Manatee	0.218	0.392	0.067	28.539	0.214	0	29.43
*Polk	2.105	0.152	0.05	0	0.283	0	2.590
Sarasota	0.138	0	0.165	1.557	1.150	0	3.010
SWUCA SW Subtotals	11.144	2.972	0.596	68.890	2.999	0	86.601
% of SW	13%	3%	1%	80%	3%	0%	100%
SWUCA Totals	272.208	37.048	22.408	208.110	29.137	0.003	568.914
% of SWUCA	48%	7%	4%	37%	5%	0.0%	100%
**SWUCA % of Districtwide Totals	84%	72%	99%	39%	51%	0.3%	57%

Source: Estimated Water Use Tables derived from the WMIS database and PSARs, 2016.

Totals do not include Domestic Self-Supply.

* Data is only from the portion of the county within the SWUCA.

** Districtwide totals, for percentages, are from Table B-1.

2016 ESTIMATED WATER USE REPORT

Table B-3. 2016 Metered + Estimated Average Annual Withdrawal (mgd) in the Most Impacted Area (MIA) of the SWUCA by Source, Use Category, and County

County	Agriculture	Industrial/ Commercial	Mining/ Dewatering	Public Supply	Landscape/ Recreation	Institutional /Other	Total Withdrawal
GROUNDWATER (69%)							
Hillsborough	13.321	0.027	0.064	0.356	2.273	0	16.041
Manatee	27.634	0.311	0.015	0.004	9.411	0	37.375
Sarasota	1.341	0.102	0	9.753	1.359	0	12.555
MIA GW Subtotal	42.296	0.440	0.079	10.113	13.043	0	65.971
% of GW	64%	1%	0.1%	15%	20%	0%	100%
SURFACE WATER (31%)							
Hillsborough	0.053	0	0.172	0.001	0.190	0	0.416
*Manatee	0.151	0.392	0	28.539	0.214	0	29.296
Sarasota	0.079	0	0.062	0	0.071	0	0.212
MIA SW Subtotals	0.283	0.392	0.234	28.540	0.475	0	29.924
% of SW	1%	1%	1%	95%	2%	0%	100%
MIA Total	42.579	0.832	0.313	38.653	13.518	0	95.895
% of MIA	44%	1%	0%	40%	14%	0%	100%
** % of SWUCA Totals	16%	2%	1%	19%	46%	0%	17%
*** % of Districtwide Totals	13%	2%	1%	7%	24%	0%	10%

Source: Estimated Water Use Tables derived from the WMIS WUP database and PSARs, 2016.

Data is only from the portion of the county that is within the MIA. Totals do not include Domestic Self-Supply.

* The Manatee County WUP 13343 surface water withdrawals from Lake Manatee were not accurately represented in prior year EWU Reports, resulting in an apparent increase for 2016. The active groundwater withdrawals for WUP 13343 were outside of the MIA.

** SWUCA Totals, for percentages on second-to-bottom row, are from Table B-2.

*** Districtwide Totals, for percentages on bottom row, are from Table B-1.

2016 ESTIMATED WATER USE REPORT

Table B-4. 2016 Metered + Estimated Average Annual Withdrawal (mgd) in the Northern Tampa Bay Water Use Caution Area (NTB WUCA), by Source, Use Category, and County

County	Agriculture	Industrial/ Commercial	Mining/ Dewatering	Public Supply	Landscape/ Recreation	Institutional /Other	Total Withdrawal
GROUNDWATER (57%)							
*Hillsborough	18.329	4.476	0	34.262	5.536	0	62.603
Pasco	6.187	0.644	0.008	62.539	3.123	0.572	73.073
Pinellas	0.015	0.165	0	27.192	2.167	0	29.539
NTB WUCA GW Subtotal	24.531	5.285	0.008	123.993	10.826	0.572	165.215
% of GW	15%	3%	0%	75%	7%	0%	100%
SURFACE WATER (43%)							
*Hillsborough	1.558	0.025	0	122.764	0.088	0.503	124.938
Pasco	0.089	0.647	0.052	0.054	0.243	0	1.085
Pinellas	0	0.001	0	0	0.781	0	0.782
NTB WUCA SW Subtotal	1.647	0.673	0.052	122.818	1.112	0.503	126.805
% of SW	1%	1%	0%	97%	1%	0%	100%
NTB WUCA Total	26.178	5.958	0.060	246.811	11.938	1.075	292.020
% of NTB WUCA	9%	2%	0%	85%	4%	0%	100%
**% of District Total	8%	12%	0%	46%	21%	100%	29%

Source: Estimated Water Use Tables derived from the WMIS WUP database and PSARs, 2016.

* Data is only from the portion of the county that is within the NTB WUCA.

** Districtwide totals, for percentages, are from Table B-1.

Totals do not include Domestic Self-Supply or Seawater Desalination.

2016 ESTIMATED WATER USE REPORT

Table B-5. 2016 Metered + Estimated Annual Average Withdrawal (mgd) in the Dover/Plant City Water Use Caution Area (DPC WUCA) by Source, Use Category, and County

County	Agriculture	Industrial/ Commercial	Mining/ Dewatering	Public Supply	Landscape/ Recreation	Institutional /Other	Total Withdrawal
GROUNDWATER (95%)							
Hillsborough	19.985	2.889	0.004	18.552	0.284	0	41.714
Polk	0.759	1.148	10.693	0.795	0.002	0	13.397
DPC WUCA GW Subtotal	20.744	4.037	10.697	19.348	0.286	0	55.111
% of GW	38%	7%	19%	35%	1%	0%	100%
SURFACE WATER (5%)							
Hillsborough	1.880	0.002	0	0	0	0	1.882
Polk	0.012	0.021	0.039	0	0	0	0.072
DPC WUCA SW Subtotal	1.892	0	0.039	0	0	0	1.954
% of SW	88%	2%	9%	0.10%	0%	100%	100%
DPC WUCA Total	22.636	4.060	10.736	19.348	0.286	0	57.065
% of DPC WUCA	40%	7%	19%	34%	1%	0%	100%
* % of District Total	7%	8%	47%	4%	0%	0%	6%

Source: Estimated Water Use Tables derived from the WMIS WUP database and PSARs, 2016.

Data is only for the portion of Hillsborough and Polk counties that are in the Dover/Plant City WUCA. Totals do not include Domestic Self-Supply.

The wellfields for WUPs #11441 and #4352 overlap the DPC WUCA boundary, but only withdrawals from wells within the boundary were tallied for this table.

* Districtwide totals, for percentages on bottom row, are on Table B-1

APPENDIX C

2016 PERMITTED

GROUNDWATER & SURFACE WATER

ANNUAL AVERAGE QUANTITIES

2016 ESTIMATED WATER USE REPORT

Table C-1. 2016 Total Permitted Average Annual Quantities (mgd) in the District by Source, Use Category, and County

County	Agriculture	Industrial/ Commercial	Mining/ Dewatering	Public Supply	Landscape/ Recreation	Institutional /Other	Total Permitted
GROUNDWATER (80%)							
*Charlotte	21.907	0.081	0.032	5.477	2.202	0	29.699
Citrus	3.108	6.071	0.082	19.421	4.785	0.001	33.468
DeSoto	103.856	1.371	0.001	1.277	1.221	0	107.726
Hardee	71.758	4.697	6.390	2.423	0.223	0	85.491
Hernando	3.263	8.222	0.353	25.965	5.495	0	43.298
*Highlands	53.560	0.383	0.004	11.795	2.934	0.013	68.689
Hillsborough	95.709	20.062	0.122	139.053	19.367	2.090	276.403
*Lake	1.704	0	0	0	0	0	1.704
*Levy	21.720	1.591	0.001	1.071	0.367	0	24.750
Manatee	154.582	0.939	0.070	28.678	17.206	0	201.475
*Marion	13.839	0.010	0.079	13.127	4.939	0	31.994
Pasco	17.088	6.385	0.048	21.510	8.088	2.697	55.816
Pinellas	0.157	0.481	0	29.215	4.204	0	34.057
*Polk	117.321	77.528	46.600	117.087	12.985	0	371.521
Sarasota	21.823	0.319	0.003	45.503	12.719	0.001	80.368
Sumter	17.012	2.782	0.165	27.263	4.101	0	51.323
GW Subtotal	718.407	130.922	53.950	488.865	100.836	4.802	1,497.782
% of GW	48%	9%	4%	33%	7%	0.3%	100%
SURFACE WATER (20%)							
*Charlotte	5.469	0	0.558	8.088	2.478	0	16.593
Citrus	0.083	0.001	0.086	0	0.567	0	0.737
DeSoto	4.705	0	0.228	34.701	0	0	39.634
Hardee	2.289	0	0	0	0.024	0	2.313
Hernando	0.068	0	0.030	0	0.869	0	0.967
*Highlands	5.172	0.001	0.051	0.013	0.080	0	5.317
Hillsborough	8.266	6.192	0.938	205.704	2.489	7.100	230.689
*Lake	0.084	0	0	0	0	0	0.084
*Levy	0	0.037	0.122	0	0	0	0.159
Manatee	3.726	8.528	0.216	35.120	5.324	0	52.914
*Marion	0	0	0.040	0	0.123	0	0.163
Pasco	0.181	0.189	0.196	0.180	0.580	0	1.326
Pinellas	0.042	0.002	0	0	2.410	0	2.454
*Polk	4.353	1.435	0.426	0	0.803	0	7.017
Sarasota	0.296	0	0.380	7.065	2.158	0	9.899
Sumter	0.318	0.051	0.728	0	0.223	0	1.320
SW Subtotal	35.052	16.436	3.999	290.871	18.128	7.100	371.586
% of SW	9%	4%	1%	78%	5%	1.9%	100%
District Total	753.459	147.358	57.949	779.736	118.964	11.902	1,869.368
% of District Total	40%	8%	3%	42%	6%	0.6%	100%

Source: Estimated Water Use Tables derived from the WMIS WUP database, 2016.

* Data is only for the portion of the county within the District.

2016 ESTIMATED WATER USE REPORT

Table C-2. 2016 Total Permitted Average Annual Quantities (mgd) in the Southern Water Use Caution Area (SWUCA) by Source, Use Category, and County

County	Agriculture	Industrial/ Commercial	Mining/ Dewatering	Public Supply	Landscape/ Recreation	Institutional /Other	Total Permitted
GROUNDWATER (86%)							
*Charlotte	21.907	0.081	0.032	5.477	2.202	0	29.699
DeSoto	103.856	1.371	0.001	1.277	1.221	0	107.726
Hardee	71.758	4.697	6.390	2.423	0.223	0	85.491
*Highlands	53.560	0.383	0.004	11.795	2.934	0.013	68.689
*Hillsborough	56.688	8.881	0.122	30.681	6.875	0	103.247
Manatee	154.582	0.939	0.070	28.678	17.206	0	201.475
*Polk	101.134	76.422	44.659	102.375	10.473	0	335.063
Sarasota	21.823	0.319	0.003	45.503	12.719	0.001	80.368
GW Subtotal	585.308	93.093	51.281	228.209	53.853	0.014	1,011.758
% SWUCA GW	58%	9%	5%	23%	5%	0%	100%
SURFACE WATER (14%)							
*Charlotte	5.469	0	0.558	8.088	2.478	0	16.593
DeSoto	4.705	0	0.228	34.701	0.000	0	39.634
Hardee	2.289	0	0	0	0.024	0	2.313
*Highlands	5.172	0.001	0.051	0.013	0.080	0	5.317
*Hillsborough	4.876	5.974	0.727	18.702	0.499	0	30.778
Manatee	3.726	8.528	0.216	35.120	5.324	0	52.914
*Polk	3.793	1.435	0.273	0	0.776	0	6.277
Sarasota	0.296	0	0.380	7.065	2.158	0	9.899
SW Subtotal	30.326	15.938	2.433	103.689	11.339	0	163.725
% SWUCA SW	19%	10%	1%	63%	7%	0%	100%
SWUCA Total	615.634	109.031	53.714	331.898	65.192	0.014	1,175.483
% of SWUCA	52%	9%	5%	28%	6%	0%	100%
**SWUCA % of Districtwide Total	82%	74%	93%	43%	55%	0.1%	63%

Source: Estimated Water Use Tables derived from the WMIS WUP database, 2016.

* Data is only for the portion of the county within the SWUCA.

** Districtwide Totals, for percentages, are on Table C-1.

2016 ESTIMATED WATER USE REPORT

Table C-3. 2016 Total Permitted Average Annual Quantities (mgd) in the Most Impacted Area of the SWUCA by Source, Use Category, and County

County	Agriculture	Industrial/ Commercial	Mining/ Dewatering	Public Supply	Landscape/ Recreation	Institutional /Other	Total Permitted
GROUNDWATER (78%)							
Hillsborough	38.183	4.568	0.122	0.542	5.705	0	49.120
Manatee	80.157	0.745	0.059	6.746	16.004	0	103.711
Sarasota	4.272	0.225	0.003	25.780	2.557	0.001	32.838
GW Subtotal	122.612	5.538	0.184	33.068	24.266	0.001	185.669
% of GW	66%	3%	0.1%	18%	13%	0%	100%
SURFACE WATER (22%)							
Hillsborough	1.283	0	0.691	0.002	0.473	0	2.449
Manatee*	1.758	8.519	0.002	35.120	5.314	0	50.713
Sarasota	0.122	0	0.133	0	0.135	0	0.390
SW Subtotal	3.163	8.519	0.826	35.122	5.922	0	53.552
% of SW	6%	16%	2%	66%	11%	0%	100%
MIA Total	125.775	14.057	1.010	68.190	30.188	0	239.221
% of MIA Total	53%	6%	0.4%	29%	13%	0%	100%
**MIA % of SWUCA Total	20%	13%	2%	21%	46%	7%	20%
**MIA % of Districtwide Total	17%	10%	2%	9%	25%	0%	13%

Source: Estimated Water Use Tables derived from the WMIS WUP database, 2016.

Data is only for the portion of counties that are within the MIA.

*The Manatee County WUP 13343 surface water permitted quantity (34.900 mgd) for Lake Manatee withdrawals was not accurately represented in prior year EWU Reports, resulting in an apparent increase for 2016.

**SWUCA and Districtwide Totals, for percentages, are on Tables C-1 and C-2, respectively.

2016 ESTIMATED WATER USE REPORT

Table C-4. 2016 Total Permitted Average Annual Quantities (mgd) in the Northern Tampa Bay Water Use Caution Area (NTB WUCA) by Source, Use Category, and County

County	Agriculture	Industrial/ Commercial	Mining/ Dewatering	Public Supply	Landscape/ Recreation	Institutional /Other	Total Permitted
GROUNDWATER (57%)							
*Hillsborough	39.021	11.181	0.000	108.372	12.492	2.090	171.066
Pasco	17.088	6.385	0.048	21.51	8.088	2.697	53.119
Pinellas	0.157	0.481	0.000	29.215	4.204	0	34.057
NTB WUCA GW Subtotal	56.266	18.047	0.048	159.097	24.784	4.787	258.242
% of GW	22%	7%	0%	62%	10%	2%	100%
SURFACE WATER (43%)							
*Hillsborough	3.390	0.218	0.211	187.002	1.990	7.100	192.811
Pasco	0.181	0.189	0.196	0.180	0.580	0	1.326
Pinellas	0.042	0.002	0	0	2.410	0	2.454
NTB WUCA SW Subtotal	3.613	0.409	0.407	187.182	4.980	7.100	196.591
% of SW	1.8%	0.2%	0.2%	95.2%	2.5%	3.6%	100%
NTB WUCA Total	59.879	18.456	0.455	346.279	29.764	11.887	454.833
% of NTB WUCA	13.2%	4.1%	0.1%	76.1%	6.5%	2.6%	100%
**NTB WUCA % of Districtwide Total	8%	13%	1%	44%	25%	99%	24%

Source: Estimated Water Use Tables derived from the WMIS WUP database, 2016.

Nominal rounding errors may cause discrepancies of 0.001 mgd when compared to Table 10 permitted quantities.

* Data is only for the portion of the county that is within the NTB WUCA.

** Districtwide Totals, for percentages, are on Table C-1.

2016 ESTIMATED WATER USE REPORT

Table C-5. 2016 Total Permitted Annual Average Quantities (mgd) in the Dover/Plant City Water Use Caution Area (DPC WUCA) by Source, Use Category, and County

County	Agriculture	Industrial/ Commercial	Mining/ Dewatering	Public Supply	Landscape/ Recreation	Institutional /Other	Total Permitted
GROUNDWATER (98%)							
Hillsborough¹	42.374	4.019	0	40.735	0.769	0.017	87.914
Polk²	1.232	24.966	44.611	12.777	0.011	0	83.597
GW Subtotal	43.606	28.985	44.611	53.512	0.78	0.017	171.511
% of GW	25%	17%	26%	31%	0.5%	0%	100%
SURFACE WATER (2%)							
Hillsborough	3.963	0.005	0.036	0	0	0	4.004
Polk	0	0.071	0.129	0	0	0	0.200
SW Subtotal	3.963	0.076	0.165	0	0	0	4.204
% of SW	94%	2%	4%	0%	0%	0%	100%
DPC WUCA Total	47.569	29.061	44.776	53.512	0.780	0.017	175.715
% of DPC WUCA Total	27%	17%	25%	30%	0.4%	0%	100%
*DPC WUCA % of Districtwide Total	6%	20%	77%	7%	0.7%	0%	9%

Source: Estimated Water Use Tables derived from the WMIS WUP database, 2016.

Data is only for the portion of the county that is within the MIA.

* Districtwide Totals, for percentages on bottom row, are on Table C-1.

¹ WUP #4352 is a Public Supply WUP in Hillsborough County for a wellfield that partially overlaps the DPC WUCA boundary. The total permitted allocation of 24.1 mgd is included in the table.

² WUP #11400 has Mining/Dewatering and Industrial/Commercial allocations of 44.6 mgd and 25.0 mgd respectively. A small fraction of the WUP's withdrawal points are within the DPC WUCA boundary, but the total permitted allocations are included in the table under Polk County.

2016 ESTIMATED WATER USE REPORT

Table C-6. 2016 Total Permitted Freeze Protection Quantities (mgd) for Agricultural Use in the DPC WUCA

County/Use	Aqua-culture	Blue-berries	Citrus	Nursery, Container	Nursery, Field	Other Fruit Trees	Straw - berry	Total Permitted
GROUNDWATER (81%)								
Hillsborough	2.839	21.371	81.177	57.969	0.010	2.355	789.024	954.745
Polk	0	0.813	1.843	0	0	0	5.294	7.950
Max Day GW Quantities	2.839	22.184	83.020	57.969	0.010	2.355	794.318	962.695
% of GW	0.3%	2.3%	8.6%	6.0%	0.0%	0.2%	82.5%	100%
SURFACE WATER (19%)								
Hillsborough	0	2.238	8.94	4.868	0	0	212.814	228.86
Polk	0	0	0	0	0	0	1.169	1.169
Max Day SW Quantities	0	2.238	8.94	4.868	0	0	213.983	230.029
% of SW	0.0%	1.0%	3.9%	2.1%	0.0%	0.0%	93.0%	100%
Total Max Day Quantities	2.839	24.422	91.960	62.837	0.010	2.355	1,008.301	1,192.724
% of Total Max Day Quantity	0.2%	2.0%	7.7%	5.3%	0.0%	0.2%	84.5%	100%

Table C-7. 2016 Total Number of Agricultural Water Use Permits with Freeze Protection Quantities in the DPC WUCA for Agricultural Use

County/Use	Aqua-culture	Blue-berries	Citrus	Nursery, Container	Nursery, Field	Other Fruit Trees	Straw - berry	Total WUPs
Hillsborough	4	18	73	31	1	2	286	415
Polk	0	1	2	0	0	0	3	6
Total	4	19	75	31	1	2	289	421

Source for both tables Estimated Water Use Tables derived from the WMIS WUP database, 2016.

Data is only for the portion of the county within the DPC WUCA.

2016 ESTIMATED WATER USE REPORT

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APPENDIX D

2007 - 2016

HISTORIC PUBLIC SUPPLY PER CAPITA RATES

FOR

PUBLIC SUPPLY ANNUAL REPORTS

2016 ESTIMATED WATER USE REPORT

Table D-1. Ten-Year Historic Public Supply Unadjusted Gross Per Capita Water Use (gpd/person)

County of Use	WUP Number	Permittee Name	2016 Service Area Population	Calendar Year									
				2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Charlotte	718	Gasparilla Island Water Association	6,096	248	245	295	169	182	194	185	187	181	182
Charlotte	871	City of Punta Gorda	36,302	138	111	113	118	115	121	114	120	126	128
Charlotte	1512	Charlotte Harbor Water Association	3,595	77	72	81	79	80	71	79	94	92	106
Charlotte	3522	Charlotte County Burnt Store	6,794	72	67	64	60	65	57	60	58	64	59
Charlotte	7104	Charlotte County	128,961	77	78	73	76	75	77	80	81	79	79
Charlotte	7768	Island Harbor Beach Club / Knight Island	NA	111	116	116	82	154	93	100	123	.	.
Citrus	207	City of Crystal River	5,643	106	104	120	108	127	135	120	137	137	148
Citrus	419	City of Inverness	9,520	175	157	154	124	47	119	118	108	109	104
Citrus	1118	Floral City Water Association	5,077	56	50	64	62	55	62	62	56	58	66
Citrus	2842	Citrus County	17,516	198	163	155	158	149	136	130	124	133	142
Citrus	4153	Rolling Oaks Utilities, Inc	11,301	163	131	129	140	153	136	136	122	119	134
Citrus	4406	Homosassa Special Water District	5,691	130	120	165	127	145	131	131	120	127	130
Citrus	6691	Gulf Highway Land Corporation	562	129	117	118	368	185	116	120	102	106	112
Citrus	7121	Citrus County & WRWSA / Meadowcrest	25,380	181	191	143	180	158	142	138	143	145	168
Citrus	7879	FGUA / Oak Forest	NA	118	91	70	69	86	.	.	.	.	.
Citrus	9791	Citrus County WRD / Sugarmill Woods	11,217	267	205	214	182	221	192	197	186	192	212
Citrus	11839	Walden Woods	1,021	225	142	140	362	147	117	161	141	134	144
Citrus	20230	Ozello Water Association Inc	4,886	.	.	.	.	117	93	84	82	81	79
Desoto	4725	City of Arcadia	10,039	102	98	76	84	98	70	70	82	82	84
DeSoto	20230	DeSoto County Utilities	5,186	.	.	.	.	.	.	.	74	94	125
Hardee	30	City of Bowling Green	4,618	79	76	59	56	52	76	95	48	45	41
Hardee	4461	City of Wauchula	6,400	128	126	120	105	65	98	97	101	98	101
Hardee	7658	Town of Zolfo Springs	2,493	138	141	128	67	59	63	51	51	50	59
Hardee	13026	Hardee County BOCC	2,644	.	.	48	56	75	39	51	41	41	44
Hernando	2179	Hernando Co. Utilities Dept / Dogwood ¹	NA	.	164	125	131	141	130	104	98	.	.
Hernando	2983	Hernando Co Utilities Dept / West ¹	NA	168	154	159	140	145	133	125	122	.	.
Hernando	5789	Hernando Co Utilities Dept (Consolidated) ¹	141,263	141	131	114	121	127	111	96	89	119	127
Hernando	7627	City of Brooksville	14,726	95	94	92	98	84	72	68	69	75	82
Hernando	12011	Hernando Co Utilities Dept ¹	NA	.	.	159	140	160	143	116	153	.	.

2016 ESTIMATED WATER USE REPORT

Table D-1. Ten-Year Historic Public Supply Unadjusted Gross Per Capita Water Use (gpd/person)

County of Use	WUP Number	Permittee Name	2016 Service Area Population	Calendar Year									
				2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Highlands	4167	Aqua Utilities, Lake Josephine	1,488	72	60	60	10	90	131	100	106	121	115
Highlands	4492	City of Sebring ²	36,059	102	102	100	105	99	100	96	97	92	99
Highlands	4980	Lake Placid Holding Company	4,340	84	88	76	74	66	57	62	67	68	65
Highlands	5270	Town of Lake Placid ³	7,172	138	141	159	130	140	96	97	82	83	82
Highlands	5786	City of Avon Park / Sebring Ridge ⁴	NA	71	71	71	.	.	.	.	.	.	.
Highlands	6029	City of Avon Park ⁴	21,995	107	103	99	108	89	92	106	80	80	83
Highlands	6326	Town of Lake Placid ³	NA	74	83	83	75	68	62	64	.	.	.
Highlands	7139	Buttonwood Bay Utilities	1,646	81	63	79	94	108	110	91	92	87	85
Highlands	7704	Country Club Utilities, Inc.	NA	235	221	210	277	285	276	228	248	200	.
Highlands	7811	Mink Assoc / Crystal Lake Club ⁴	NA	142	134	134	.	.	.	.	.	.	.
Highlands	9490	LP Utilities Inc	733	47	103	95	74	67	98	83	70	68	56
Highlands	9516	Sebring Land, Highlands Ridge ²	NA	186	190	190	.	.	.	.	.	.	.
Highlands	11609	Town of Lake Placid ³	NA	.	.	78	73	52	57	71	.	.	.
Highlands	13099	Sun N Lake of Sebring	7,376	81	81	84	86	79	81	83	86	85	83
Highlands	13367	Silver Lakes Utilities	NA	.	.	99	108	115	.	.	.	.	.
Hillsborough	450	City of Temple Terrace	34,551	116	107	108	99	108	107	101	102	103	99
Hillsborough	1776	City of Plant City	39,444	166	162	137	128	128	130	126	133	135	142
Hillsborough	2062	City of Tampa	611,181	120	117	101	106	110	116	109	110	109	112
Hillsborough	2285	Davpam MHP	1,167	99	105	102	100	101	111	90	91	97	104
Hillsborough	2707	Pluris Eastlake LLC	NA	79	76	76	68	42	37	30	36	.	.
Hillsborough	4352	Tampa Bay Water/S. Central Hillsborough	NA	110	108	108	.	.	.	.	.	.	.
Hillsborough	4757	Wilder Corporation / Hawaiian Isles	NA	73	107	107	60	15	.	.	.	.	.
Hillsborough	6879	The Meadows at Countrywood MHC	2,018	69	93	95	104	99	109	99	101	89	98
Hillsborough	7002	Hometown America / Featherock MHP	NA	91	81	81	.	102	.	.	.	.	.
Hillsborough	7637	Riverside Golf Course Com LLC	1,132	130	141	141	669	212	150	260	195	544	374
Hillsborough	7790	Paradise Village MHC	1,355	57	50	50	87	48	46	57	33	57	46
Hillsborough	10443	Windemere Utility Company	2,776	115	112	94	93	114	95	91	85	82	89
Hillsborough	12994	Pluris PCU INC	NA	100	117	117	.	122	116	103	92	.	.
Hillsborough	20141	Hillsborough County NW	595,348	106	105	105	92	95	94	93	94	96	96

2016 ESTIMATED WATER USE REPORT

Table D-1. Ten-Year Historic Public Supply Unadjusted Gross Per Capita Water Use (gpd/person)

County of Use	WUP Number	Permittee Name	2016 Service Area Population	Calendar Year									
				2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Levy	5640	City of Williston	3,223	141	139	140	140	149	149	134	134	137	146
Levy	7755	Town of Yankeetown	856	175	101	79	44	59	78	63	64	80	85
Levy	8953	Town of Inglis	1,632	101	109	110	87	100	76	84	73	72	69
Manatee	5387	Manatee County / Lake Manatee ⁵	NA	106	97	91	89	73	.	.	.	.	.
Manatee	6392	City of Bradenton	66,167	110	102	99	97	84	82	82	88	84	88
Manatee	10963	Town of Longboat Key	18,108	80	100	84	98	99	86	85	90	90	91
Manatee	12443	City of Palmetto	17,886	114	98	98	73	74	72	80	79	78	73
Manatee	13343, 7345	Manatee County Utilities ⁵	341,928	114	98	98	73	74	91	92	91	89	92
Marion	377	Marion Co Utilities / S Glen & Marion Oaks ⁶	NA	.	.	137	132	89	.	.	.	.	.
Marion	1156	Bay Laurel CDD	11,276	309	243	195	214	309	226	218	185	222	236
Marion	2999	Marion Utilities Inc	1,109	192	150	150	120	88	92	83	81	90	94
Marion	4257	Rainbow Springs Utilities LC ⁶	NA	261	267	244	290	129	.	.	.	.	.
Marion	5643	Utilities, Inc. of Florida / Golden Hills	1,000	106	101	152	126	172	158	144	136	137	160
Marion	6151	Marion County Utilities	35,618	207	177	177	177	160	136	139	116	127	139
Marion	6792	Sun Communities	598	140	164	175	142	150	162	150	124	132	140
Marion	7849	Marion Utilities Inc	1,078	191	172	172	159	125	188	106	95	108	123
Marion	8005	Century Fairfield Village LTD	475	142	104	104	116	89	122	119	117	118	118
Marion	8020	Marion Landings Homeowners Association	1,127	148	140	143	133	167	155	136	116	127	137
Marion	8165	Marion County Utilities / Quail Meadow ⁶	NA	139	114	114	133	84	.	.	.	.	.
Marion	8339	City of Dunnellon	6,458	129	149	149	53	163	121	121	120	115	147
Marion	8481	Marion Utilities Inc / Spruce Creek	5,891	248	223	223	110	117	108	88	93	103	106
Marion	9360	Windstream Utilities Company	NA	278	250	250	233	263	238	238	230	.	.
Marion	11752	Marion County Utilities / Golden Ocala ⁶	NA	.	.	792	434	479	.	.	.	.	.
Marion	12218	Marion County Utilities / Spruce Creek ⁶	NA	231	192	192	219	.	.	.	.	.	.
Pasco	266	Pasco County Utilities / W/SC/SE ⁷	NA	124	127	.	.	.	.	.	.	.	.
Pasco	279	FGUA / Aqua Utilities of Florida	3,522	81	82	77	87	75	61	80	81	55	56
Pasco	540	Holiday Gardens Utilities Inc	NA	92	84	84	86	67	59	61	78	.	.
Pasco	543	Crestridge Utility Corp	NA	80	68	68	73	58	52	44	51	.	.
Pasco	590	Mad Hatter Utility Inc	8,337	177	92	188	113	117	104	110	101	99	104

2016 ESTIMATED WATER USE REPORT

Table D-1. Ten-Year Historic Public Supply Unadjusted Gross Per Capita Water Use (gpd/person)

County of Use	WUP Number	Permittee Name	2016 Service Area Population	Calendar Year									
				2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Pasco	964	C S Water Company Inc	939	98	130	130	98	87	87	72	72	79	84
Pasco	1631	City of Dade City	12,304	118	118	117	123	116	106	106	119	106	109
Pasco	2043	Orangewood Lakes Mobile Home	1,040	80	87	87	28	46	63	66	72	79	74
Pasco	2978	FGUA Gulf Harbor	5,135	73	77	72	112	108	110	116	101	95	105
Pasco	3182	FGUA Seven Springs	31,000	107	113	115	113	95	98	79	83	80	84
Pasco	3590	Utilities Inc of Florida / Buena Vista MHP	3,754	54	55	43	44	59	64	53	52	57	58
Pasco	3668	Utilities Inc of Florida / Summertree	2,554	80	77	70	69	53	64	99	109	62	49
Pasco	3677	FGUA Colonial Manor	1,612	37	79	65	67	55	53	54	47	59	55
Pasco	3692	City of Port Richey	11,855	112	86	68	88	53	46	56	45	43	49
Pasco	4550	City of San Antonio	2,216	155	147	147	101	124	87	90	90	92	61
Pasco	4668	Utilities Inc. of FL / Orangewood	NA	62	50	47	71	49	58	.	.	.	.
Pasco	4669	Hudson Water Works Inc	7,910	84	81	90	99	92	83	87	82	90	79
Pasco	4734	City of New Port Richey	33,500	101	97	84	88	89	86	82	90	95	96
Pasco	6040	City of Zephyrhills	27,880	107	98	115	119	112	109	109	88	74	84
Pasco	6867	Labrador Utilities Inc	NA	33	44	42	40	40	.	.	.	.	.
Pasco	7299	L W V Utilities Inc	NA	.	109	109	156	85	64	.	.	.	.
Pasco	7999	FGUA Angus Valley	1,987	89	103	65	64	64	62	60	56	60	55
Pasco	8417	FGUA Aloha Gardens	7,867	43	52	38	60	49	53	57	52	54	54
Pasco	8491	Parrish Properties V LLC	NA	.	.	40	64	23	.	.	.	.	.
Pasco	11863	Pasco County Utilities ⁷	276,526	.	.	117	121	129	126	124	111	90	107
Pinellas	742	City of Tarpon Springs	33,736	107	99	93	112	72	71	96	93	94	90
Pinellas	2980	City of Dunedin	43,537	96	92	85	81	83	99	78	79	77	80
Pinellas	2981	City of Clearwater	141,828	81	101	95	92	87	75	78	80	76	75
Pinellas	7692	City of Belleair	5,463	199	125	106	171	121	175	128	131	129	140
Pinellas	10350	Utilities Inc of FL / Lake Tarpon	NA	34	38	28	28	61	54	54	51	32	.
Pinellas	10795	City of Gulfport	14,528	76	85	67	64	68	67	67	65	79	67
Pinellas	11218	City of Oldsmar	17,117	82	80	92	91	89	88	72	74	59	74
Pinellas	11245	City of Safety Harbor	15,183	108	115	115	92	88	80	91	85	93	97
Pinellas	12351	City of Pinellas Park	85,249	60	61	63	64	57	56	50	50	55	50

2016 ESTIMATED WATER USE REPORT

Table D-1. Ten-Year Historic Public Supply Unadjusted Gross Per Capita Water Use (gpd/person)

County of Use	WUP Number	Permittee Name	2016 Service Area Population	Calendar Year									
				2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Pinellas	20142	Pinellas County	501,192	.	.	.	82	81	83	77	70	82	76
Pinellas	20143	City of St. Petersburg	344,829	98	93	84	79	96	100	79	77	79	78
Polk	143	Mountain Lake Corp	NA	311	335	434	464	.	.	.	.	.	.
Polk	341	City of Bartow	25,058	142	139	124	84	109	111	101	97	99	103
Polk	645	City of Fort Meade	5,586	102	98	98	101	96	91	94	87	89	102
Polk	1616	Lake Region Mobile Home Owners	NA	57	54	54	83	143	85	82	70	74	.
Polk	1625	Four Lakes Golf Club Ltd	1,448	238	236	144	199	280	277	256	229	206	263
Polk	2332	Town of Lake Hamilton	1,806	199	163	128	123	128	144	153	132	194	154
Polk	2449	Sweetwater East / Lake Henry	NA	123	123	148	.	.	.	.	.	.	.
Polk	3415	Orchid Springs Development Corp	929	100	109	74	59	78	77	78	80	72	69
Polk	4005	Crooked Lake Park Water Co	2,584	142	125	90	89	90	37	90	89	83	84
Polk	4607	City of Winter Haven	81,135	147	135	128	127	126	138	113	118	113	114
Polk	4658	City of Lake Wales	21,632	139	143	143	128	122	119	115	115	113	113
Polk	4912	City of Lakeland	173,842	133	136	132	121	127	123	117	118	117	118
Polk	5251	Grenelefe Resort LLC	2,715	119	316	388	647	529	321	356	361	374	666
Polk	5750	City of Davenport	7,081	189	147	129	47	91	108	119	94	130	118
Polk	5870	City of Frostproof	3,285	185	162	160	88	110	79	95	110	113	119
Polk	5893	Town of Dundee	5,169	137	144	144	116	59	104	78	95	139	102
Polk	6124	City of Mulberry	4,609	81	74	89	89	94	87	91	98	79	83
Polk	6174	Saddlebag Lake Owners Assn	1,332	58	132	132	69	62	79	67	77	64	65
Polk	6505	Polk Co. / Northwest Regional Serv. Area	31,844	130	116	116	107	97	89	79	80	77	79
Polk	6506	Polk Co. / Southwest Regional Serv. Area	41,297	102	101	101	99	86	79	75	78	77	76
Polk	6507	Polk Co. / Central Regional Serv. Area	13,983	83	82	78	76	69	70	63	64	72	72
Polk	6508	Polk Co. / Southeast Regional Serv. Area	4,998	112	133	119	116	103	125	93	105	108	122
Polk	6509	Polk Co. / Northeast Regional Serv. Area	71,289	92	104	96	134	132	103	93	99	104	96
Polk	6624	City of Lake Alfred	8,323	159	155	138	147	144	175	129	124	131	130
Polk	6920	City of Eagle Lake	3,577	106	99	109	108	112	111	105	97	90	96
Polk	7119	City of Auburndale	28,834	184	173	175	184	171	187	158	159	165	165
Polk	7187	CHC VII Century Realty Fund / Lake Henry	1,640	208	206	206	208	228	255	273	143	137	161

2016 ESTIMATED WATER USE REPORT

Table D-1. Ten-Year Historic Public Supply Unadjusted Gross Per Capita Water Use (gpd/person)

County of Use	WUP Number	Permittee Name	2016 Service Area Population	Calendar Year									
				2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Polk	7328	Carefree RV Country Club of Winter Haven	979	151	161	107	.	123	136	94	80	105	106
Polk	7703	Orange Ranch Acres Ranch	NA	.	.	122	122	.	.	.	.	.	.
Polk	7878	Florida Gov Utility Authority	2,253	121	134	134	100	76	66	64	65	67	65
Polk	8054	Polk Co. / East Regional Serv. Area	6,546	92	84	84	77	86	77	73	66	67	66
Polk	8344	S V Utilities LTD	1,379	131	153	150	139	141	140	135	119	75	103
Polk	8468	Town of Polk City	6,550	122	91	72	51	57	56	61	54	56	55
Polk	8472	Cypress Lakes Venture	NA	105	79	79	.	.	.	.	.	.	.
Polk	8522	City of Haines City	32,506	160	157	160	122	114	122	137	144	138	140
Polk	8753	Plantation Landings Ltd	NA	85	114	90	98	91	108	78	80	67	.
Polk	8967	Sweetwater Community Inc	698	141	234	159	150	192	180	176	190	198	172
Polk	9807	Village of Highland Park	NA	330	.	.	.	.	.	.	.	.	.
Polk	13043	Cypress Lakes Utilities, Inc	2,848	50	50	46	46	43	51	80	82	62	62
Sarasota	2923	City of Northport	49,450	66	77	64	58	69	759	68	62	61	60
Sarasota	4318, 10224, 10225	City of Sarasota Public Works	79,765	103	96	92	88	79	93	78	82	79	78
Sarasota	4866	Englewood Water District	38,265	57	45	68	51	77	66	65	72	61	66
Sarasota	5393	City of Venice	34,778	79	78	82	58	66	55	55	62	78	63
Sarasota	5807	Camelot Lakes Communities MHP	1,829	55	54	54	65	133	132	139	162	167	187
Sarasota	7448	SNF Property LLC (FKA: Sun 'N Fun RV)	1,254	72	89	89	58	29	82	74	83	.	61
Sarasota	8836	Sarasota County	226,601	64	97	75	77	79	80	75	76	79	81
Sumter	1368	Lake Panasoffkee Water Assn Inc	3,871	58	67	63	66	65	63	64	64	58	64
Sumter	2622	Continental Country Club ⁸	NA	149	147	247	226	257	254	93	193	200	.
Sumter	6519	City of Bushnell	2,749	191	178	143	95	138	152	146	142	145	164
Sumter	7185	City of Webster	1,370	125	118	118	125	84	89	89	143	56	62
Sumter	7799	Cedar Acres, Inc	NA	70	59	59	.	8	.	.	.	.	.
Sumter	8135	City of Wildwood	20,194	142	140	208	130	134	137	133	106	112	104
Sumter	8193	City of Center Hill	1,057	56	.	.	.	.	45	52	59	73	64
Sumter	13005	The Villages of Marion & Sumter	84,083	228	300	257	236	184	278	281	247	264	298
Sumter	13123	Florida Grande Motor Coach Resort	NA	.	.	296	90	.	.	.	.	.	.
Sumter	20597	City of Wildwood - Cont. Country Club ⁸	2,405	.	.	.	.	.	.	.	.	.	57

2016 ESTIMATED WATER USE REPORT

Source: Prior EWU Reports and Table A-1.

Notes: Inactive WUPs are removed from this table once they no longer show ten-year data. A dot "." represents no per capita data available for that year. This may occur because a permit was not yet active, or the permit no longer exists, or the PSAR was not submitted. The acronym "NA" (Not Applicable) is shown for 2016 Service Area Population where 2016 data was not available.

Notes on specific WUPs:

- ¹ WUPs 2179, 2983, and 12011 were consolidated into WUP 5789
- ² WUP 9516 was consolidated into WUP 4492.
- ³ WUP 6326 and 11609 were consolidated with 5270 in early 2015, and a single PSAR was submitted for 2014.
- ⁴ WUPs 5786 and 7811 were consolidated into WUP 6029.
- ⁵ WUP 5387 was consolidated into WUP 13343.
- ⁶ WUPs 377, 8165, 11752, and 12218 were consolidated into WUP 6151 in 2012.
- ⁷ WUP 266 was consolidated into WUP 11863.
- ⁸ WUP 2622 was withdrawn in 2016, and WUP 20597 acquired the service area.

2016 ESTIMATED WATER USE REPORT

Table D-2. Ten-Year Historic Public Supply Compliance Per Capita Water Use (gpd/person)

County of Use	WUP Number	Permittee Name	2016 Service Area Population	Calendar Year										Five Year Ave.
				2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Charlotte	718	Gasparilla Island Water Association	6,096	188	163	159	141	150	163	160	158	159	162	160
Charlotte	871	City of Punta Gorda	36,302	138	111	113	118	115	121	114	120	126	128	122
Charlotte	1512	Charlotte Harbor Water Association	3,595	77	72	81	79	80	71	79	94	92	106	89
Charlotte	3522	Charlotte County Burnt Store	6,794	72	67	64	60	65	57	60	58	64	59	60
Charlotte	7104	Charlotte County	128,961	77	78	73	76	75	77	80	81	79	79	79
Charlotte	7768	Island Harbor Beach Club / Knight Island	NA	111	116	116	81	154	93	100	123	.	.	NA
Citrus	207	City of Crystal River	5,643	121	120	120	109	127	135	120	137	137	148	135
Citrus	419	City of Inverness	9,520	175	157	154	110	119	105	118	108	109	104	109
Citrus	1118	Floral City Water Association	5,077	56	50	64	62	55	62	62	56	58	66	61
Citrus	2842	Citrus County	17,516	198	163	155	154	154	136	130	124	133	142	133
Citrus	4153	Rolling Oaks Utilities, Inc	11,301	163	131	129	141	153	136	136	122	119	134	129
Citrus	4406	Homosassa Special Water District	5,691	130	120	165	127	145	131	131	120	127	130	128
Citrus	6691	Gulf Highway Land Corporation	562	129	117	118	368	184	116	120	102	106	112	111
Citrus	7121	Citrus County & WRWSA / Meadowcrest	25,380	181	191	143	143	157	142	138	136	145	162	145
Citrus	7879	FGUA / Oak Forest	NA	118	91	70	69	86	.	.	.	.	.	NA
Citrus	9791	Citrus County WRD / Sugarmill Woods	11,217	267	205	214	181	202	192	197	186	192	212	196
Citrus	11839	Walden Woods	1,021	225	142	140	362	157	117	161	141	134	144	139
Citrus	20230	Ozello Water Association Inc	4,886	.	.	.	.	117	93	84	82	81	79	84
Desoto	4725	City of Arcadia	10,039	102	98	76	84	96	70	70	82	82	84	77
DeSoto	20230	DeSoto County Utilities	5,186	.	.	.	.	.	.	.	74	94	125	98
Hardee	30	City of Bowling Green	4,618	79	76	59	48	52	76	95	48	45	41	61
Hardee	4461	City of Wauchula	6,400	128	126	120	113	111	98	97	101	98	101	99
Hardee	7658	Town of Zolfo Springs	2,493	138	141	128	56	59	63	51	51	50	59	55
Hardee	13026	Hardee County BOCC	2,644	.	.	55	56	77	39	51	41	41	44	43
Hernando	2179	Hernando Co. Utilities Dept / Dogwood ¹	NA	.	164	125	139	141	130	104	98	.	.	NA
Hernando	2983	Hernando Co Utilities Dept / West ¹	NA	168	154	149	140	145	133	125	122	.	.	NA
Hernando	5789	Hernando Co Utilities Dept (Consolidated) ¹	141,263	141	131	114	122	127	111	96	89	119	127	109
Hernando	7627	City of Brooksville	14,726	95	94	53	65	58	43	39	41	51	82	51

2016 ESTIMATED WATER USE REPORT

Table D-2. Ten-Year Historic Public Supply Compliance Per Capita Water Use (gpd/person)

County of Use	WUP Number	Permittee Name	2016 Service Area Population	Calendar Year										Five Year Ave.
				2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Hernando	12011	Hernando Co Utilities Dept ¹	NA	.	.	159	140	152	143	116	153	.	.	NA
Highlands	4167	Aqua Utilities, Lake Josephine	1,488	72	60	60	10	90	131	100	106	121	115	115
Highlands	4492	City of Sebring ²	36,059	102	102	100	124	99	100	96	97	92	99	97
Highlands	4980	Lake Placid Holding Company	4,340	84	88	76	72	66	57	62	67	68	65	64
Highlands	5270	Town of Lake Placid ³	7,172	138	141	159	131	140	96	97	82	83	82	88
Highlands	5786	City of Avon Park / Sebring Ridge ⁴	NA	60	71	71	.	.	.	.	.	.	.	NA
Highlands	6029	City of Avon Park ⁴	21,995	97	103	99	96	89	92	106	80	80	83	88
Highlands	6326	Town of Lake Placid ³	NA	74	83	83	76	69	62	64	.	.	.	NA
Highlands	7139	Buttonwood Bay Utilities	1,646	81	63	79	104	108	110	91	92	87	85	93
Highlands	7704	Country Club Utilities, Inc.	NA	235	221	210	277	285	262	228	248	200	.	NA
Highlands	7811	Mink Assoc / Crystal Lake Club ⁴	NA	142	134	134	.	.	.	.	.	.	.	NA
Highlands	9490	LP Utilities Inc	733	47	103	95	75	68	98	83	70	68	56	75
Highlands	9516	Sebring Land, Highlands Ridge ²	NA	186	190	190	.	.	.	.	.	.	.	NA
Highlands	11609	Town of Lake Placid ³	NA	.	.	78	73	52	57	71	.	.	.	NA
Highlands	13099	Sun N Lake of Sebring	7,376	81	81	84	86	79	81	83	86	85	83	83
Highlands	13367	Silver Lakes Utilities	NA	.	.	99	108	115	.	.	.	.	.	NA
Hillsborough	450	City of Temple Terrace	34,551	116	107	108	99	108	107	101	102	103	99	103
Hillsborough	1776	City of Plant City	39,444	71	116	83	83	83	85	88	91	112	101	96
Hillsborough	2062	City of Tampa	611,181	100	115	99	114	113	112	107	107	107	109	108
Hillsborough	2285	Daypam MHP	1,167	99	105	102	99	101	111	90	91	97	104	99
Hillsborough	2707	Pluris Eastlake LLC	NA	79	76	76	68	74	37	30	36	.	.	NA
Hillsborough	4352	Tampa Bay Water/S. Central	NA	110	108	108	.	.	.	.	.	.	.	NA
Hillsborough	4757	Wilder Corporation / Hawaiian Isles	NA	73	107	107	60	15	.	.	.	.	.	NA
Hillsborough	6879	The Meadows at Countrywood MHC	2,018	69	93	95	104	101	109	99	101	89	98	99
Hillsborough	7002	Hometown America / Featherock MHP	NA	91	81	81	.	102	.	.	.	.	.	NA
Hillsborough	7637	Riverside Golf Course Com LLC	1,132	130	141	141	172	472	463	58	110	217	215	213
Hillsborough	7790	Paradise Village MHC	1,355	57	50	50	88	66	69	57	33	57	46	52
Hillsborough	10443	Windemere Utility Company	2,776	115	112	94	97	114	95	91	85	82	89	88

2016 ESTIMATED WATER USE REPORT

Table D-2. Ten-Year Historic Public Supply Compliance Per Capita Water Use (gpd/person)

County of Use	WUP Number	Permittee Name	2016 Service Area Population	Calendar Year										Five Year Ave.
				2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Hillsborough	12994	Pluris PCU INC	NA	100	89	89	.	76	17	69	59	.	.	NA
Hillsborough	20141	Hillsborough County NW	595,348	106	105	105	92	95	94	93	94	96	96	94
Levy	5640	City of Williston	3,223	141	139	140	97	137	149	134	134	137	146	140
Levy	7755	Town of Yankeetown	856	175	101	79	74	59	78	63	64	80	85	74
Levy	8953	Town of Inglis	1,632	101	109	110	48	100	76	84	73	72	69	75
Manatee	5387	Manatee County / Lake Manatee ⁵	NA	99	84	43	59	73	.	.	.	.	.	NA
Manatee	6392	City of Bradenton	66,167	110	102	95	97	84	81	82	88	84	88	85
Manatee	10963	Town of Longboat Key	18,108	80	100	98	98	99	86	85	90	90	91	88
Manatee	12443	City of Palmetto	17,886	114	98	98	73	70	68	80	74	78	73	75
Manatee	13343, 7345	Manatee County Utilities ⁵	341,928	99	68	57	63	72	72	75	75	78	74	75
Marion	377	Marion County Utilities / Marion Oaks ⁶	NA	.	.	137	128	88	.	.	.	.	.	NA
Marion	1156	Bay Laurel CDD	11,276	309	243	194	205	265	186	175	173	205	220	192
Marion	2999	Marion Utilities Inc	1,109	192	150	150	120	88	85	83	81	90	94	87
Marion	4257	Rainbow Springs Utilities LC ⁶	NA	261	267	244	290	129	.	.	.	.	.	NA
Marion	5643	Utilities, Inc. of Florida / Golden Hills	1,000	106	101	152	142	172	158	144	136	137	160	147
Marion	6151	Marion County Utilities	35,618	207	170	170	174	151	134	137	116	127	139	130
Marion	6792	Sun Communities	598	140	164	175	142	150	130	150	124	132	140	135
Marion	7849	Marion Utilities Inc	1,078	191	172	172	158	125	133	106	95	108	123	113
Marion	8005	Century Fairfield Village LTD	475	142	104	104	115	134	101	119	117	118	118	115
Marion	8020	Marion Landings HOA	1,127	148	140	143	134	157	145	136	116	127	137	132
Marion	8165	Marion County Utilities / Quail Meadow ⁶	NA	139	114	114	133	84	.	.	.	.	.	NA
Marion	8339	City of Dunnellon	6,458	129	149	149	53	163	121	121	120	115	147	125
Marion	8481	Marion Utilities Inc / Spruce Creek	5,891	248	223	223	110	117	131	88	93	103	106	104
Marion	9360	Windstream Utilities Company	NA	278	250	250	233	244	238	238	230	.	.	NA
Marion	11752	Marion County Utilities / Golden Ocala ⁶	NA	.	.	792	434	479	.	.	.	.	.	NA
Marion	12218	Marion County Utilities / Spruce Creek ⁶	NA	231	192	192	219	.	.	.	.	.	.	NA
Pasco	266	Pasco County Utilities / W/SC/SE ⁷	NA	124	127	.	.	.	.	.	.	.	.	NA
Pasco	279	FGUA / Aqua Utilities of Florida	3,522	81	82	77	87	75	61	80	81	55	56	67

2016 ESTIMATED WATER USE REPORT

Table D-2. Ten-Year Historic Public Supply Compliance Per Capita Water Use (gpd/person)

County of Use	WUP Number	Permittee Name	2016 Service Area Population	Calendar Year										Five Year Ave.
				2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Pasco	540	Holiday Gardens Utilities Inc	NA	92	84	84	85	67	59	61	78	.	.	NA
Pasco	543	Crestridge Utility Corp	NA	80	68	68	73	58	52	44	51	.	.	NA
Pasco	590	Mad Hatter Utility Inc	8,337	177	92	188	113	117	104	110	101	99	104	103
Pasco	964	C S Water Company Inc	939	98	130	130	98	87	87	72	72	79	84	79
Pasco	1631	City of Dade City	12,304	118	118	100	104	116	106	106	97	65	93	93
Pasco	2043	Orangewood Lakes Mobile Home	1,040	80	87	87	87	67	63	66	72	79	74	71
Pasco	2978	FGUA Gulf Harbor	5,135	73	77	72	110	108	110	116	101	95	105	106
Pasco	3182	FGUA Seven Springs	31,000	107	113	115	113	95	98	79	83	80	84	85
Pasco	3590	Utilities Inc of Florida / Buena Vista MHP	3,754	54	55	43	44	39	64	53	52	57	58	57
Pasco	3668	Utilities Inc of Florida / Summertree	2,554	80	77	70	68	53	64	99	109	62	49	76
Pasco	3677	FGUA Colonial Manor	1,612	37	79	65	67	55	53	54	47	59	55	54
Pasco	3692	City of Port Richey	11,855	112	86	68	86	53	46	56	45	43	49	48
Pasco	4550	City of San Antonio	2,216	119	101	111	98	107	87	90	90	92	61	84
Pasco	4668	Utilities Inc. of FL / Orangewood	NA	62	50	47	71	49	58	.	.	.	.	NA
Pasco	4669	Hudson Water Works Inc	7,910	58	58	58	101	90	83	87	82	90	79	84
Pasco	4734	City of New Port Richey	33,500	101	97	84	88	89	86	82	90	95	96	90
Pasco	6040	City of Zephyrhills	27,880	107	94	90	113	104	109	109	88	74	84	93
Pasco	6867	Labrador Utilities Inc	NA	33	44	42	40	40	.	.	.	.	.	NA
Pasco	7299	L W V Utilities Inc	NA	.	109	109	157	85	64	.	.	.	.	NA
Pasco	7999	FGUA Angus Valley	1,987	89	103	65	64	64	62	60	56	60	55	59
Pasco	8417	FGUA Aloha Gardens	7,867	43	52	38	60	49	53	57	52	54	54	54
Pasco	8491	Parrish Properties V LLC	NA	.	.	40	64	23	.	.	.	.	.	NA
Pasco	11863	Pasco County Utilities ⁷	276,526	.	.	121	114	124	117	120	111	90	107	109
Pinellas	742	City of Tarpon Springs	33,736	107	99	93	112	72	71	96	93	94	90	89
Pinellas	2980	City of Dunedin	43,537	92	92	85	81	83	99	78	79	77	80	82
Pinellas	2981	City of Clearwater	141,828	66	93	85	79	74	64	69	72	76	75	71
Pinellas	7692	City of Belleair	5,463	91	116	106	130	82	132	98	131	97	108	113
Pinellas	10350	Utilities Inc of FL / Lake Tarpon	NA	34	38	28	28	61	54	54	51	32	.	NA

2016 ESTIMATED WATER USE REPORT

Table D-2. Ten-Year Historic Public Supply Compliance Per Capita Water Use (gpd/person)

County of Use	WUP Number	Permittee Name	2016 Service Area Population	Calendar Year										Five Year Ave.
				2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Pinellas	10795	City of Gulfport	14,528	76	85	67	64	68	67	67	65	79	67	69
Pinellas	11218	City of Oldsmar	17,117	82	80	92	91	89	88	72	74	59	74	74
Pinellas	11245	City of Safety Harbor	15,183	108	115	115	92	82	80	91	85	93	97	89
Pinellas	12351	City of Pinellas Park	85,249	60	61	63	64	57	56	50	50	55	50	52
Pinellas	20142	Pinellas County	501,192	.	.	.	82	81	83	77	70	82	76	78
Pinellas	20143	City of St. Petersburg	344,829	98	93	84	79	96	80	79	77	79	78	79
Polk	143	Mountain Lake Corp	NA	171	335	434	464	.	.	.	.	.	.	NA
Polk	341	City of Bartow	25,058	142	90	86	73	70	81	101	56	51	54	69
Polk	645	City of Fort Meade	5,586	102	98	106	73	69	70	49	87	89	56	70
Polk	1616	Lake Region Mobile Home Owners	NA	57	54	54	83	87	85	82	70	74	.	NA
Polk	1625	Four Lakes Golf Club Ltd	1,448	238	155	112	105	159	180	157	156	138	164	159
Polk	2332	Town of Lake Hamilton	1,806	199	163	128	123	128	144	124	132	180	138	144
Polk	2449	Sweetwater East / Lake Henry	NA	123	123	148	.	.	.	.	.	.	.	NA
Polk	3415	Orchid Springs Development Corp	929	100	109	74	60	78	77	78	80	72	69	75
Polk	4005	Crooked Lake Park Water Co	2,584	142	125	90	89	90	37	90	89	83	84	77
Polk	4607	City of Winter Haven	81,135	140	135	124	141	126	138	113	118	113	114	119
Polk	4658	City of Lake Wales	21,632	139	143	143	126	122	119	115	115	113	113	115
Polk	4912	City of Lakeland	173,842	133	119	120	108	116	110	105	105	94	90	101
Polk	5251	Grenelefe Resort LLC	2,715	119	316	145	280	313	171	229	196	239	516	270
Polk	5750	City of Davenport	7,081	189	147	129	125	91	108	119	94	130	118	114
Polk	5870	City of Frostproof	3,285	149	150	150	104	92	79	88	110	107	108	98
Polk	5893	Town of Dundee	5,169	137	144	144	117	107	127	78	95	139	102	108
Polk	6124	City of Mulberry	4,609	81	74	89	89	94	87	91	97	79	83	87
Polk	6174	Saddlebag Lake Owners Assn	1,332	58	132	132	69	135	69	67	77	64	65	68
Polk	6505	Polk County NWRUSA	31,844	130	116	116	107	97	89	79	80	77	79	81
Polk	6506	Polk County SWRUSA	41,297	102	101	101	99	86	79	75	78	77	76	77
Polk	6507	Polk County CRUSA	13,983	83	82	78	76	55	70	63	64	72	72	68
Polk	6508	Polk County SERUSA	4,998	112	133	91	81	72	75	93	105	108	122	101

2016 ESTIMATED WATER USE REPORT

Table D-2. Ten-Year Historic Public Supply Compliance Per Capita Water Use (gpd/person)

County of Use	WUP Number	Permittee Name	2016 Service Area Population	Calendar Year										Five Year Ave.
				2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Polk	6509	Polk County NRUSA	71,289	92	104	94	134	130	103	93	99	104	96	99
Polk	6624	City of Lake Alfred	8,323	155	155	119	174	140	148	129	124	131	130	132
Polk	6920	City of Eagle Lake	3,577	106	99	109	108	112	111	105	97	90	96	100
Polk	7119	City of Auburndale	28,834	163	159	136	132	123	138	111	111	112	116	118
Polk	7187	CHC VII Century Realty Fund	1,640	208	95	95	119	144	164	157	98	82	79	116
Polk	7328	Carefree RV Country Club Winter Haven	979	125	81	47	.	62	79	60	80	71	61	70
Polk	7703	Orange Ranch Acres Ranch	NA	.	.	122	122	.	.	.	.	.	.	NA
Polk	7878	Florida Gov Utility Authority	2,253	121	134	134	102	70	66	64	65	67	65	65
Polk	8054	Polk County ERUSA	6,546	92	84	84	77	86	77	73	66	67	66	70
Polk	8344	S V Utilities LTD	1,379	131	153	150	139	141	140	135	119	75	103	114
Polk	8468	Town of Polk City	6,550	122	91	72	51	57	56	61	57	56	55	57
Polk	8472	Cypress Lakes Venture	NA	105	79	79	.	.	.	.	.	.	.	NA
Polk	8522	City of Haines City	32,506	128	157	145	108	94	106	125	130	125	129	123
Polk	8753	Plantation Landings Ltd	NA	85	114	90	99	91	108	78	80	67	.	NA
Polk	8967	Sweetwater Community Inc	698	105	234	135	149	172	149	111	158	151	130	140
Polk	9807	Village of Highland Park	NA	330	.	.	.	.	.	.	.	.	.	NA
Polk	13043	Cypress Lakes Utilities, Inc	2,848	50	50	46	46	43	51	80	82	62	62	67
Sarasota	2923	City of Northport	49,450	66	77	64	57	69	59	68	62	61	60	62
Sarasota	4318, 10224, 10225	City of Sarasota Public Works	79,765	93	96	78	84	72	81	78	82	79	78	80
Sarasota	4866	Englewood Water District	38,265	57	45	31	38	63	52	65	59	45	57	56
Sarasota	5393	City of Venice	34,778	79	78	82	58	52	55	55	62	78	63	63
Sarasota	5807	Camelot Lakes Communities MHP	1,829	55	54	54	145	140	132	139	74	67	187	120
Sarasota	7448	SNF Property (FKA: Sun 'N Fun RV)	1,294	72	89	89	70	29	82	74	83	.	61	75
Sarasota	8836	Sarasota County	226,601	64	97	75	77	79	80	75	76	79	81	78
Sumter	1368	Lake Panasoffkee Water Assn Inc	3,871	58	67	63	66	65	63	64	64	58	64	63
Sumter	2622	Continental Country Club ⁸	NA	149	147	100	114	127	121	93	84	86	.	NA
Sumter	6519	City of Bushnell	2,749	191	178	143	99	81	118	146	142	145	88	128

2016 ESTIMATED WATER USE REPORT

Table D-2. Ten-Year Historic Public Supply Compliance Per Capita Water Use (gpd/person)

County of Use	WUP Number	Permittee Name	2016 Service Area Population	Calendar Year										Five Year Ave.
				2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Sumter	7185	City of Webster	1,370	125	118	118	88	84	89	89	143	56	62	88
Sumter	7799	Cedar Acres, Inc	NA	70	59	59	.	8	.	.	.	.	.	NA
Sumter	8135	City of Wildwood	20,194	142	140	135	93	131	130	133	67	72	62	93
Sumter	8193	City of Center Hill	1,057	56	56	56	.	.	45	52	59	73	64	59
Sumter	13005	The Villages of Marion & Sumter	84,083	179	143	150	153	167	148	154	145	145	169	152
Sumter	13123	Florida Grande Motor Coach Resort	NA	.	.	296	90	.	.	.	.	.	.	NA
Sumter	20597	City of Wildwood - Cont. Country Club ⁸	2,405	.	.	.	.	.	.	.	.	.	57	NA

Source: Prior EWU Reports and Table A-1.

Notes: Inactive WUPs are removed from this table once they no longer show ten-year data. A dot "." represents no per capita data available for that year. This may occur because a permit was not yet active, or the permit no longer exists, or the PSAR was not submitted. The acronym "NA" (Not Applicable) is shown for 2016 Service Area Population where 2016 data was not available.

Notes on specific WUPs:

- ¹ WUPs 2179, 2983, and 12011 were consolidated into WUP 5789
- ² WUP 9516 was consolidated into WUP 4492.
- ³ WUP 6326 and 11609 were consolidated with 5270 in early 2015, and a single PSAR was submitted for 2014.
- ⁴ WUPs 5786 and 7811 were consolidated into WUP 6029.
- ⁵ WUP 5387 was consolidated into WUP 13343.
- ⁶ WUPs 377, 8165, 11752, and 12218 were consolidated into WUP 6151 in 2012.
- ⁷ WUP 266 was consolidated into WUP 11863.
- ⁸ WUP 2622 was withdrawn in 2016, and WUP 20597 acquired the service area.

2016 ESTIMATED WATER USE REPORT

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2016 ESTIMATED WATER USE REPORT

APPENDIX E

UNIFORM PER CAPITA REPORT

**PREPARED FOR THE FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

2016 ESTIMATED WATER USE REPORT

Table E-1: Uniform Per Capita Report prepared for the Florida Department of Environmental Protection, 2016

WUP No.	Permittee Name	Average Annual Pumpage (mgd)	P S A R	(1) Source	(2) Imports (mgd)	(3) Exports (mgd)	(4) Treat-ment Loss (mgd)	(5) Gross Use (mgd)	(6) Housing Units Served	(7) Avg. PPH	(8) Residential Population Served	(9) Gross Per Capita (gpcd)	(10) Residential Use (mgd)	(11) Residential Per Capita (mgd)
CHARLOTTE COUNTY														
718	Gasparilla Island Water Association	1.299	Y	GW/RO	0.105	0.000	0.296	1.108	1,975	2.30	4,543	244	0.841	185
871	City of Punta Gorda	5.081	Y	SW	0.364	0.332	0.467	4.646	18,080	1.98	35,798	130	3.379	94
1512	Charlotte Harbor Water Association	0.494	Y	GW/RO	0.000	0.000	0.113	0.381	1,746	2.07	3,614	105	0.261	72
3522	Charlotte County Utilities	0.527	Y	GW/RO	0.000	0.000	0.126	0.401	3,284	2.18	7,159	56	0.293	41
7104	Charlotte Co BOCC	0.000	Y	GW/SW	10.538	0.289	0.102	10.147	60,587	2.20	133,291	76	6.986	52
Charlotte County Totals		7.401			11.007	0.621	1.104	16.683	85,672	2.15	184,406	90	11.760	64
CITRUS COUNTY														
207	City of Crystal River	0.841	Y	GW	0.002	0.000	0.008	0.835	2,309	2.08	4,803	174	0.267	56
419	City of Inverness	1.029	Y	GW	0.000	0.000	0.038	0.991	4,337	2.17	9,411	105	0.547	58
1118	Floral City Water Assoc Inc	0.342	Y	GW	0.000	0.000	0.009	0.333	2,427	2.18	5,291	63	0.220	42
2842	Citrus County Water Resources	2.505	Y	GW	0.000	0.000	0.025	2.480	7,388	2.43	17,953	138	1.737	97
4153	Rolling Oaks Utilities Inc	1.538	Y	GW	0.000	0.000	0.029	1.509	5,615	2.04	11,455	132	1.059	92
4406	Homosassa Special Water Dist	0.746	Y	GW	0.000	0.000	0.007	0.739	2,490	2.08	5,179	143	0.409	79
6691	Gulf Highway Land Corporation	0.063	Y	GW	0.000	0.000	0.000	0.063	270	2.14	578	109	0.059	102
7121	Citrus County & WRWSA	4.725	Y	GW	0.000	0.408	0.047	4.270	11,727	2.14	25,096	170	3.164	126
9791	Citrus County Water Resources	2.399	Y	GW	0.000	0.000	0.024	2.375	5,510	2.08	11,461	207	1.944	170
11839	GCP Walden Woods One LLC	0.147	Y	GW	0.000	0.000	0.000	0.147	522	1.99	1,039	142	0.113	109
20230	Ozello Water Association Inc	0.000	Y	GW	0.389	0.000	0.002	0.387	2,130	1.99	4,239	91	0.227	54
Citrus County Totals		14.335			0.391	0.408	0.189	14.129	44,725	2.12	96,503	146	9.746	101
DESOTO COUNTY														
4725	City of Arcadia	0.854	Y	GW	0.000	0.000	0.011	0.843	3,610	2.83	10,216	83	0.662	65
20457	DeSoto County Utilities	0.000	Y	GW	0.652	0.000	0.002	0.651	2,469	2.40	5,926	110	0.143	24
DeSoto County Totals		0.854			0.652	0.000	0.013	1.494	6,079	2.62	16,142	93	0.805	50
HARDEE COUNTY														
30	City of Bowling Green	0.193	Y	GW	0.000	0.000	0.002	0.191	1,387	3.57	4,952	39	0.163	33

2016 ESTIMATED WATER USE REPORT

Table E-1: Uniform Per Capita Report prepared for the Florida Department of Environmental Protection, 2016

WUP No.	Permittee Name	Average Annual Pumpage (mgd)	P S A R	(1) Source	(2) Imports (mgd)	(3) Exports (mgd)	(4) Treatment Loss (mgd)	(5) Gross Use (mgd)	(6) Housing Units Served	(7) Avg. PPH	(8) Residential Population Served	(9) Gross Per Capita (gpcd)	(10) Residential Use (mgd)	(11) Residential Per Capita (mgd)
4461	City of Wauchula	0.657	Y	GW	0.000	0.000	0.013	0.644	2,065	3.10	6,402	101	0.369	58
7658	Town of Zolfo Springs	0.148	Y	GW	0.000	0.000	0.000	0.148	819	3.51	2,875	51	0.088	31
13026	Hardee County BOCC*	0.120	Y	GW	0.000	0.000	0.003	0.117	855	3.23	2,762	42	0.081	29
Hardee County Totals		1.118			0.000	0.000	0.018	1.100	5,126	3.35	16,989	65	0.701	41
HERNANDO COUNTY														
5789	Hernando Co Utilities	18.050	Y	GW	0.000	0.000	0.113	17.937	60,981	2.37	144,525	124	13.623	94
7627	City of Brooksville	1.223	Y	GW	0.000	0.000	0.010	1.213	6,212	2.29	14,225	85	0.688	48
Hernando County Totals		19.273			0.000	0.000	0.123	19.150	67,193	2.33	158,750	121	14.311	90
HIGHLANDS COUNTY														
4167	Aqua Utilities Florida Inc	0.197	Y	GW	0.000	0.000	0.026	0.171	714	2.17	1,549	110	0.069	45
4492	City of Sebring	3.587	Y	GW	0.000	0.000	0.000	3.587	16,718	2.17	36,278	99	2.195	61
4980	Lake Placid Holding Co	0.285	Y	GW	0.000	0.000	0.003	0.282	1,958	2.35	4,601	61	0.225	49
5270	Town of Lake Placid	0.589	Y	GW	0.000	0.000	0.000	0.589	3,136	2.28	7,150	82	0.366	51
6029	City of Avon Park	1.832	Y	GW	0.000	0.000	0.000	1.832	8,868	2.50	22,170	83	1.000	45
7139	Buttonwood Bay Utilities	0.167	Y	GW	0.000	0.000	0.026	0.141	959	1.74	1,669	84	0.115	69
9490	LP Utilities Corporation	0.042	Y	GW	0.000	0.000	0.000	0.042	426	1.75	746	56	0.019	25
13099	Sun N Lake of Sebring District	0.642	Y	GW	0.000	0.000	0.032	0.610	3,483	2.19	7,628	80	0.388	51
Highlands County Totals		7.341			0.000	0.000	0.087	7.254	36,262	2.14	81,791	89	4.377	54
HILLSBOROUGH COUNTY														
450	City of Temple Terrace	3.705	Y	GW	0.000	0.000	0.271	3.434	13,853	2.37	32,832	105	2.047	62
1776	City of Plant City	5.685	Y	GW	0.004	0.040	0.063	5.586	13,925	2.86	39,826	140	2.776	70
2062	City of Tampa	74.205	Y	SW/ GW	0.000	2.493	3.303	68.409	220,012	2.41	530,229	129	40.471	76
2285	Davpam Mobile Home	0.122	Y	GW	0.000	0.000	0.000	0.122	395	2.99	1,181	103	0.122	103
6879	The Meadows at Countrywood	0.198	Y	GW	0.000	0.000	0.000	0.198	1,162	1.70	1,975	100	0.195	99
7637	Riverside Golf Course	0.423	N	GW	0.000	0.000	0.000	0.423	563	2.07	1,165	363	0.287	246
7790	Paradise Village MHP	0.063	Y	GW	0.000	0.000	0.001	0.062	355	2.71	962	64	0.058	60
10443	Windemere Utility Company	0.249	Y	GW	0.000	0.000	0.002	0.247	1,022	2.70	2,759	90	0.247	90

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20141	Hillsborough County*	0.022	Y	SW/GW	56.935	0.000	0.000	56.957	228,631	2.62	599,013	95	45.670	76
Hillsborough County Totals		84.672			56.939	2.533	3.640	135.438	479,918	2.49	1,209,943	112	91.873	76
There are no Public Supply Water Use Permits in the SWFWMD portion of Lake County														
LEVY COUNTY														
5640	City of Williston	0.476	Y	GW	0.000	0.000	0.006	0.470	1,234	2.57	3,171	148	0.207	65
7755	Town of Yankeetown	0.079	Y	GW	0.001	0.000	0.006	0.074	426	2.05	873	85	0.029	33
8953	Town of Inglis	0.135	Y	GW	0.000	0.001	0.022	0.112	769	2.13	1,638	68	0.072	44
Levy County Totals		0.690			0.001	0.001	0.034	0.656	2,429	2.25	5,683	115	0.308	54
MANATEE COUNTY														
6392	City of Bradenton	5.791	Y	SW	0.216	0.027	0.158	5.822	27,779	2.25	62,503	93	3.924	63
10963	Town of Longboat Key*	0.000	Y	SW	1.650	0.000	0.000	1.650	9,344	1.77	16,539	100	1.536	93
12443	City of Palmetto*	0.000	Y	SW/GW	1.321	0.000	0.013	1.308	7,315	2.56	18,726	70	0.859	46
13343	Manatee County Utilities	39.521	Y	SW/GW	0.921	7.709	1.271	31.462	146,077	2.33	340,359	92	21.719	64
Manatee County Totals		45.312			4.108	7.736	1.442	40.242	190,515	2.23	438,127	92	28.038	64
MARION COUNTY														
1156	Bay Laurel CDD	2.852	Y	GW	0.000	0.105	0.089	2.658	6,435	1.74	11,197	237	2.333	208
2999	Marion Utilities Inc	0.106	Y	GW	0.000	0.000	0.001	0.105	489	2.28	1,115	94	0.080	72
8339	City of Dunnellon	0.947	Y	GW	0.000	0.000	0.000	0.947	2,880	2.05	5,904	160	0.360	61
5643	Utilities Inc of Florida	0.161	Y	GW	0.000	0.000	0.001	0.160	497	2.04	1,014	158	0.133	131
6151	Marion County Utilities	4.983	Y	GW	0.000	0.000	0.031	4.952	15,661	2.25	35,237	141	3.895	111
6792	Sun Communities	0.085	Y	GW	0.000	0.000	0.001	0.084	376	1.59	598	141	0.075	125
7849	Marion Utilities Inc	0.134	Y	GW	0.000	0.000	0.001	0.133	476	2.27	1,081	123	0.106	98
8005	Century Fairfield Village Ltd	0.056	Y	GW	0.000	0.000	0.000	0.056	285	1.64	467	120	0.046	98
8020	Marion Landings	0.154	Y	GW	0.000	0.000	0.000	0.154	598	1.88	1,124	137	0.140	125
8481	Marion Utilities Inc, Spruce Creek	0.629	Y	GW	0.000	0.000	0.006	0.623	2,301	2.56	5,891	106	0.546	93
Marion County Totals		10.107			0.000	0.105	0.130	9.872	29,998	2.03	63,628	155	7.714	121

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PASCO COUNTY														
279	Florida Gov Utility Authority	0.200	Y	GW	0.000	0.000	0.002	0.198	1,539	2.39	3,678	54	0.177	48
590	Mad Hatter Utility Inc	0.871	Y	GW	0.000	0.000	0.004	0.867	3,160	2.65	8,374	104	0.666	80
964	C S Water Company Inc	0.079	Y	GW	0.000	0.000	0.000	0.079	404	2.65	1,071	74	0.079	74
1631	City of Dade City	1.343	Y	GW	0.000	0.000	0.001	1.342	4,584	2.66	12,193	110	0.828	68
2043	Orangewood Lakes Mobile Home Community Inc	0.077	Y	GW	0.000	0.000	0.000	0.077	492	2.14	1,053	73	0.075	71
2978	Florida Gov Utility Authority	0.551	N	GW	0.007	0.000	0.000	0.558	2,726	1.93	5,261	106	0.512	97
3182	Florida Gov Utility Authority	2.397	Y	GW	0.272	0.000	0.077	2.592	13,247	2.41	31,925	81	2.005	63
3590	Utilities Inc of Florida	0.219	Y	GW	0.000	0.000	0.000	0.219	1,847	2.04	3,768	58	0.178	47
3668	Utilities Inc of Florida	0.128	Y	GW	0.000	0.000	0.003	0.125	1,204	2.14	2,577	49	0.076	29
3677	Florida Gov Utility Authority	0.000	Y	GW	0.090	0.000	0.000	0.090	714	2.24	1,599	56	0.075	47
3692	City of Port Richey	0.444	Y	GW	0.259	0.000	0.119	0.584	4,993	2.13	10,635	55	0.390	37
4550	City of San Antonio	0.138	Y	GW	0.000	0.000	0.001	0.137	589	2.58	1,520	90	0.107	70
4669	Hudson Water Works Inc	0.632	Y	GW	0.000	0.000	0.006	0.626	3,793	2.06	7,814	80	0.388	50
4734	City of New Port Richey	0.468	Y	GW	5.110	2.302	0.055	3.221	15,802	2.13	33,658	96	2.587	77
6040	City of Zephyrhills	2.374	Y	GW	0.000	0.000	0.033	2.341	13,304	2.21	29,402	80	1.247	42
7999	Florida Gov Utility Authority	0.108	Y	GW	0.000	0.000	0.000	0.108	720	2.76	1,987	54	0.102	51
8417	Florida Gov Utility Authority	0.072	Y	GW	0.352	0.000	0.001	0.423	3,331	2.30	7,661	55	0.318	42
11863	Pasco Co Utilities	3.925	Y	GW	26.914	0.905	0.338	29.596	112,952	2.48	280,121	106	20.763	74
Pasco County Totals		14.026			33.004	3.207	0.640	43.183	185,401	2.33	444.297	97	30.573	69
PINELLAS COUNTY														
742	City of Tarpon Springs	3.682	Y	GW	0.055	0.047	0.659	3.031	14,561	2.25	32,762	93	1.804	55
2980	City of Dunedin	4.682	Y	GW/ RO	0.000	0.000	1.209	3.473	21,773	2.02	43,981	79	2.458	56
2981	City of Clearwater	7.563	Y	GW/ RO	4.211	0.000	1.087	10.687	59,718	2.15	128,394	83	6.864	53
7692	Town of Belleair	0.768	Y	GW	0.001	0.000	0.007	0.762	2,489	2.15	5,351	142	0.624	117
10795	City of Gulfport*	0.000	Y	GW	0.975	0.000	0.000	0.975	7,599	1.98	15,046	65	0.769	51

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11218	City of Oldsmar*	1.710	Y	GW	0.006	0.000	0.446	1.270	6,340	2.49	15,787	80	0.853	54
11245	City of Safety Harbor*	0.000	Y	GW	1.472	0.000	0.000	1.472	6,621	2.29	15,162	97	1.472	97
12351	City of Pinellas Park*	0.000	Y	GW	4.228	0.000	0.000	4.228	34,620	2.33	80,665	52	2.996	37
20142	Pinellas County*	0.000	Y	GW	49.237	10.023	1.101	38.113	227,025	2.13	483,563	79	26.901	56
20143	City of St Petersburg*	0.000	Y	GW	28.551	0.974	0.571	27.006	154,780	2.16	334,325	81	16.647	50
Pinellas County Totals		18.405			88.736	11.044	5.080	91.017	535,526	2.20	1,155,036	79	61.388	53
POLK COUNTY														
341	City of Bartow	3.006	Y	GW	0.000	0.000	0.428	2.578	8,695	2.72	23,650	109	1.499	63
645	City of Fort Meade	0.584	Y	GW	0.000	0.000	0.014	0.570	2,024	2.88	5,829	98	0.402	69
1625	Four Lakes Golf Club Ltd	0.384	Y	GW	0.000	0.000	0.004	0.380	814	1.81	1,473	258	0.176	119
2332	Town of Lake Hamilton	0.281	Y	GW	0.000	0.000	0.003	0.278	730	2.50	1,825	152	0.110	60
3415	Orchid Springs Development Corp	0.064	Y	GW	0.000	0.000	0.000	0.064	505	1.86	939	68	0.060	64
4005	Crooked Lake Park Water Company	0.235	Y	GW	0.000	0.000	0.017	0.218	1,011	2.62	2,649	82	0.158	60
4607	City of Winter Haven	9.402	Y	GW	0.001	0.001	0.158	9.244	33,546	2.42	81,181	114	5.597	69
4658	City of Lake Wales	2.458	Y	GW	0.000	0.000	0.003	2.455	8,987	2.46	22,108	111	1.638	74
4912	City of Lakeland	20.893	Y	GW	0.000	0.327	0.028	20.538	67,145	2.48	166,520	123	12.829	77
5251	Grenelefe Resort LLC	1.818	Y	GW	0.000	0.000	0.010	1.808	1,229	2.31	2,839	637	0.586	206
5750	City of Davenport	0.837	Y	GW	0.000	0.000	0.000	0.837	2,590	2.91	7,537	111	0.809	107
5870	City of Frostproof	0.391	Y	GW	0.000	0.000	0.000	0.391	1,457	2.44	3,555	110	0.167	47
5893	Town of Dundee	0.527	Y	GW	0.000	0.000	0.000	0.527	1,951	2.71	5,287	100	0.389	74
6124	City of Mulberry	0.383	Y	GW	0.000	0.000	0.002	0.381	1,786	2.53	4,519	84	0.198	44
6174	Saddlebag Lake Owners Assoc	0.087	Y	GW	0.000	0.000	0.000	0.087	795	1.71	1,359	64	0.084	62
6505	Polk County Utilities	2.388	Y	GW	0.149	0.000	0.033	2.504	12,121	2.72	32,969	76	2.278	69
6506	Polk County Utilities	3.172	Y	GW	0.050	0.050	0.041	3.131	14,855	2.86	42,485	74	2.762	65
6507	Polk County Utilities	1.021	Y	GW	0.000	0.000	0.014	1.007	5,086	2.79	14,190	71	0.850	60
6508	Polk County Utilities	0.617	Y	GW	0.000	0.000	0.009	0.608	1,598	2.74	4,379	139	0.222	51
6509	Polk County Utilities	4.928	Y	GW	1.983	0.008	0.075	6.828	24,405	2.64	64,429	106	6.028	94

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6624	City of Lake Alfred	1.080	Y	GW	0.010	0.000	0.011	1.079	3,075	2.44	7,503	144	0.766	102
6920	City of Eagle Lake	0.350	Y	GW	0.000	0.000	0.008	0.342	1,239	3.12	3,866	88	0.223	58
7119	City of Auburndale	4.756	Y	GW	0.000	0.010	0.000	4.746	10,921	2.61	28,504	167	2.475	87
7187	CHC VII Ltd Century Realty Fund	0.267	Y	GW	0.000	0.000	0.003	0.264	962	1.73	1,664	159	0.091	55
7328	Carefree RV Country Club	0.104	Y	GW	0.000	0.000	0.000	0.104	500	1.99	995	105	0.058	58
7878	Florida Gov Utility Authority	0.149	Y	GW	0.000	0.000	0.002	0.147	847	2.77	2,346	63	0.118	50
8054	Polk County Utilities	0.440	Y	GW	0.000	0.001	0.010	0.429	2,513	2.54	6,383	67	0.311	49
8344	S V Utilities Ltd	0.144	Y	GW	0.000	0.000	0.001	0.143	705	1.99	1,403	102	0.100	71
8468	City of Polk City	0.363	Y	GW	0.000	0.000	0.005	0.358	2,169	2.67	5,791	62	0.257	44
8522	City of Haines City	4.711	Y	GW	0.000	0.062	0.114	4.535	11,928	2.87	34,233	132	3.084	90
8967	Sweetwater Community Inc	0.120	Y	GW	0.000	0.000	0.000	0.120	416	1.70	707	170	0.091	129
13043	Cypress Lakes Utilities Inc	0.182	Y	GW	0.000	0.000	0.005	0.177	1,520	1.89	2,873	62	0.128	45
Polk County Totals		66.142			2.193	0.459	0.998	66.878	228,125	2.45	585,992	114	44.544	76
SARASOTA COUNTY														
2923	City of North Port	2.043	Y	SW	1.110	0.041	0.156	2.956	21,061	2.43	51,178	58	1.884	37
4318, 10224, 10225	City of Sarasota Public Works	7.899	Y	GW	0.000	0.000	1.646	6.253	31,002	2.08	64,484	97	3.580	56
4866	Englewood Water District	3.659	Y	GW/RO	0.000	0.143	0.975	2.541	20,259	1.91	38,695	66	2.155	56
5393	City of Venice	4.610	Y	GW/RO	0.000	0.000	2.427	2.183	18,298	1.77	32,387	67	1.359	42
5807	Camelot Communities MHP	0.343	N	GW/RO	0.000	0.000	0.000	0.343	941	1.92	1,807	190	0.343	190
7448	SNF Property, LLC	0.085	Y	GW	0.000	0.000	0.009	0.076	1,519	1.91	2,908	26	0.076	26
8836	Sarasota County BOCC	1.978	Y	GW/RO	17.766	0.827	0.464	18.453	110,438	2.10	231,920	80	13.376	58
Sarasota County Totals		20.617			18.876	1.011	5.677	32.805	203,518	2.02	423,379	77	22.773	54
SUMTER COUNTY														
1368	Lake Panasoffkee Water Assoc	0.249	Y	GW	0.000	0.000	0.000	0.249	1,829	2.26	4,133	60	0.194	47
6519	City of Bushnell	0.452	Y	GW	0.000	0.000	0.000	0.452	1,138	2.41	2,739	165	0.101	37

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7185	City of Webster	0.085	Y	GW	0.000	0.000	0.001	0.085	513	2.78	1,426	59	0.045	32
8135	City of Wildwood	2.121	Y	GW	0.000	0.000	0.015	2.106	5,643	2.32	13,068	161	0.639	49
8193	City of Center Hill	0.067	Y	GW	0.000	0.000	0.000	0.067	339	3.12	1,057	64	0.051	48
13005	The Villages of Marion & Sumter	25.314	Y	GW/ SW	0.000	0.000	0.230	25.084	47,074	1.81	84,981	295	19.502	229
20597	Continental Country Club	0.149	Y	GW	0.000	0.000	0.012	0.137	1,076	1.73	1,861	73	0.137	73
Sumter County Totals		28.438			0.000	0.000	0.258	28.180	57,612	2.35	109,266	258	20.668	189
DISTRICT TOTALS		338.731			215.907	27.125	19.433	508.081	2,158,099	2.34	4,989,931	102	349.579	70

Notes:

GPCD = gallons per capita per day, GPD = gallons per day, MGD = million gallons per day, NA = Not available.

If the PSAR was not received, withdrawal totals were based on reported annual metered pumpage (WMIS) and dwelling units served.

¹ GW = ground water, SW = surface water, DS = Groundwater Desalination (Reverse Osmosis or Electrodialysis)

² IMPORT = Water purchased or transferred from another utility or regional water supply authority.

³ EXPORT = Water sold or transferred to another utility.

⁴ TREATMENT LOSS = Annual average gallons per day which are lost in routine treatment for potability. This includes, but is not limited to, desalination reject water, sand filtration backwash, and quantities used to maintain appropriate water quality in pipelines or tanks. Treatment losses are calculated as raw water into the plant minus treated water out of the plant. In addition, this can include no more than 1% of treated water volume delivered to the distribution system for flushing distribution lines for potability.

⁵ GROSS USE (aka "finished") = (withdrawal) + (import) - (export) - (treatment loss).

⁶ HOUSING UNITS SERVED = Housing units served reported by the utility. If no 2016 data was submitted, the estimated housing units served was based on parcel-level BEBR-MED projections published in 2016 (GIS Associates) ÷ U.S. Census Persons Per Household.

⁷ AVG PPH = U.S. Census Persons Per Household by utility service area. Data to Complete the PSAR Appendix C Worksheets are available on District Demographics web page: <http://www.swfwmd.state.fl.us/data/demographics/estimating-population.php>.

⁸ RESIDENTIAL POPULATION SERVED = (housing units served reported by the utility) * (Census utility service area average persons per household). If no 2016 data was received, the estimated housing units served was based on parcel-level BEBR-MED Projections published in 2016 (GIS Associates) ÷ U.S. Census Persons Per Household.

⁹ DEP GROSS PER CAPITA = (gross use) / (residential population served). Population-related withdrawals associated with residential, business, institutional, industrial, miscellaneous metered, and water loss uses are applicable to all public supply permits.

¹⁰ RESIDENTIAL USE = Use reported by utility for only residential purposes. If no data was received, the countywide percent residential use was applied.

¹¹ RESIDENTIAL PER CAPITA = (residential use) / (residential population served).

* The utility is a wholesale water importer. Most or all of the water used was purchased from a regional water supply authority or another utility.

APPENDIX F

**ESTIMATED WATER USE REPORT
METHODOLOGY AND CHANGES**

2016 ESTIMATED WATER USE REPORT

WATER USE PERMIT BUSINESS RULES AND CONSTRUCTION

Every active water use permit (WUP) has at least one existing or proposed withdrawal point, one water demand use code, and a permit allocation of at least one gallon per day in annual average quantities. Each of the active withdrawal points on the WUP have their own permitted allocation, and the sum of those allocations should equal the WUP's total permitted quantity, with exception for a few large WUPs that are allowed to rotate withdrawal allocations to protect natural resources. Also, the use type allocation(s) for each withdrawal point should be equal to permitted allocation for that withdrawal point. Some WUPs have maximum daily and peak month permitted quantities assigned. The annual average rules apply to the maximum daily quantities, but not the peak month quantities, as those are relative to the month of use.

The withdrawal points are either groundwater wells or surface water withdrawal pipes. Each withdrawal point is described in the District's Water Management Information System (WMIS) database by codes that define its type, purpose, and intended use. These codes facilitate analyses for the annual EWU Reports.

All WUPs have a defined water use demand. The specific water use demands are codified by a series of four-digit *water use codes* that describe the purpose of the withdrawal. There are over 300 water use codes currently utilized in WMIS. These codes are alphanumeric, and the letter prefix of the code defines which of seven predominant water use categories it belongs to:

- Agriculture (A__ or L__ for livestock)
- Public Supply (P__)
- Landscape/Recreation (R__)
- Industrial/Commercial (I__)
- Mining/Dewatering (M__)
- Institutional (N__)
- Other (O__)

The larger WUPs often have multiple use codes catalogued, and some withdrawal points may have more than one use code. To prevent the EWU Report from being overly complicated, many detailed uses are grouped together by general similarities. For example, a farm's WUP could be permitted for irrigation of a mixture of crop types including citrus, broccoli, and carrots; along with potable water provided to farm worker housing. In the EWU Report, the water use for crops will be in the "agriculture" category with citrus irrigation in its own "Citrus" use group, the quantities for broccoli and carrots will be combined under the "Vegetables" use group, and the potable water use will be counted separately in the "Public Supply" category.

Some WUPs for large public supply utilities don't have use codes at the withdrawal points because the utilities distribute water to various customer types in their service area. Instead, the utilities annually provide customer type information in their Public Supply Annual Reports (PSARs).

WMIS uses several other alphanumeric codes to define WUP and withdrawal point characteristics. WUP attributes that are queried for the EWU Report include the permit number, revision number, issue date, delete date, active status code, county, water use caution area, total permitted annual average and maximum daily quantities. The queried withdrawal point attributes include site ID numbers, withdrawal type, status, use function, operation code, permitted annual average and maximum day quantities, latitude/longitude, county, and codes for metering and pumpage conditions. The water use codes for each WUP are queried and stored in a parallel dataset and include the predominant and detailed use type, a use ID number, and permitted quantity per detailed use.

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All WUPs have revision numbers which track the former, current, and proposed versions of the WUP, and the revisions have a status codes to indicate which one is currently active. When a new WUP application or modification request is received it's given a status of "Submitted." When the WUP is officially issued and active, the status is changed to "Approved." Former inactive WUPs may have a status of "Expired," "Cancelled," "Withdrawn," or "Denied." The permitted quantities described in this report are based on the active WUP revisions at the end of the year.

ESTIMATED WATER USE REPORT METHODOLOGY

A suite of SAS programs is used to extract and process WUP data from the WMIS database. These programs were initially written in 1994 and have been modified over time to conform with District boundaries, updated coding, and some changes to what data is queried or excluded during analysis. The basic process hasn't changed much and is described below.

Data Capture

A "snapshot" of active WUP permit records in WMIS is taken at the end of each calendar year because the permit codes change daily as WUPs are approved, modified, or expire. The end-of-year snapshot becomes the EWU database for permit-related data. At a later date, a second snapshot of pumpage records acquires meter-based data for the active WUP withdrawals. It can take several weeks after year's end for all pumpage to be reported and inputted to the WMIS database. Additionally, pumpage may be corrected in the following months as quality-control activities are performed. So, the pumpage snapshot is occasionally updated in following months to capture and review the latest pumpage data. The pumpage data used for the 2016 EWU Report was last queried on October 10, 2017.

Data Filtering

Sets of SAS programs apply filters to the permitting codes to remove WUPs, withdrawal points, and use types that do not pertain to water withdrawn directly from natural resources. Only groundwater and surface water withdrawal points are kept, and only existing and proposed withdrawal points are kept. Reclaimed water sources and repumped quantities from previously counted sources are removed.

Withdrawal points with the following use type codes are excluded from the EWU query to avoid counting alternative water sources or double-counting recirculated water:

A705	Dewatering to On-Site for Ag Purposes
P085	Significant Use (for major public supply utility customers)
P110	Quantities Supplied by External Source
P170	Reuse Water Provided to Customers W/I Service Area
P175	Reuse Water Supplied W/I Service Area not for Use
P180	Reuse Water Provided to Customers outside of Service Area
R400	Reuse Water Received from a Utility
R401	Reuse Water Generated on Site
R405	Closed Loop Heating and Cooling
I417	Closed Loop Heating and Cooling
I701	Closed Loop Non-Consumptive Heating and Cooling
I825	Non-Power-Plant Non-Consumptive Cooling
I856	Reuse Water Quantities Received
I857	Reuse Water Quantities Used
I866	Power Plant Seawater Cooling
M985	Recirculated Mining Quantities

The following "withdrawal point function codes" are excluded from the EWU query because they pertain to unregulated sources or injected/recharged water:

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D	Domestic
GI	Geothermal Injection
J	Injection
RC	Recharge of aquifer with no recovery
RP	Repump withdrawal point

The following “withdrawal point operation codes” are excluded from the EWU query because they do not pertain to natural resources, or have minimal impact:

AR	Alternative source plus repump
AS	Aquifer Storage and Recovery
AW	Alternative water supply that is neither reclaimed water nor captured stormwater
CB	Dewatering quantities that are recycled on-site
CL	Closed loop heating or cooling
EF	Effluent line into property (typically reclaimed water imports)
F	Foundation test well (very short-term use)
MR	Mixed repump of surface water and alternative source
O	Observation well aquifer test
RS	Repump of groundwater plus stormwater
RU	Repump of reclaimed water
SR	Surface water plus repump of groundwater
ST	Stormwater received from another entity
T	Test well
TR	Tailwater recovery

The operation codes for rotational (**RI**) and standby (**SB & SA**) withdrawal points identify wells that allow occasional, flexible water use. If used, their pumpage is included in the tally of withdrawals, but their permitted quantity isn’t added to the total WUP permitted quantity. Likewise, withdrawal points operated for crop freeze protection only (**EC**) will have their withdrawals included, but they typically have a permitted quantity of 2 gpd as an identifiable placeholder.

Data Correction and Quality Control

The District’s review of EWU data serves as an opportunity for staff to identify and correct permit coding errors and address questionable pumpage records. The EWU Report author communicates issues with WUP compliance staff, and parallel corrections may occur to both the WMIS database and the draft EWU datasets.

The EWU permit dataset is checked by running a series of SAS programs that look for incongruities to the business rules for WUPs. When errors are identified, they are fixed using SAS correction scripts to modify the EWU dataset and archive the changes made. The original permit snapshot data is never overwritten, and is stored on a District network drive for historic record. The SAS correction and check programs are rerun through multiple iterations until the check programs show zero errors. Found errors are communicated to regulatory staff where they are vetted before being corrected in the WMIS database. Most issues involve internal coding or a small change that seldom requires the WUP to be revised.

On WUPs that have water repumped from irrigation ponds, the water use codes are sometimes assigned to repump withdrawal points instead of the wells/intakes from natural resources that augment the irrigation ponds. This is okay from a regulatory perspective, but it complicates the EWU query because repump withdrawal points are excluded. The author remedies this issue by using the correction scripts to assign proxy use codes and permitted quantities to the augmentation withdrawal points. Proxy use codes are also used for a few WUPs that allow rotational uses.

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The EWU author will search for and include any WUPs issued near the end of the year, which might not be fully entered into the WMIS database by staff before the snapshot. The author will also find withdrawal points that were transferred or consolidated into another WUP during the year. The old WUP's permit quantity is typically not counted, but any pumpage on the old WUP's transferred withdrawal points will be allocated to the new WUP's withdrawals.

Once the permit-level checks are complete, the EWU permit dataset's withdrawal points provide a template for querying the monthly pumpage. Some withdrawal points have daily-reported pumpage in WMIS which is converted to monthly averages. The pumpage data is checked by searching for outlier quantities, such as monthly pumpage of a certain magnitude higher than the permitted quantity, or is significantly different from similar months. Unfortunately, pumpage errors with apparently reasonable values may go undetected. Unrealistic pumpage values are sent to regulatory staff for review and confirmation. If corrections are made in the WMIS database, they can be captured when the pumpage snapshot is rerun. All changes to WMIS pumpage records require written approval from the permittee. If the approval is not acquired, or a correction can't otherwise be made before the final pumpage query, the EWU author may write a correction script to insert a more realistic value in the EWU pumpage dataset.

Data Compilation and Estimations

The reviewed EWU permit and pumpage datasets are processed by additional SAS programs that compile similar uses, conduct summations by categories, and calculate water use estimates for all non-metered withdrawal points.

Scaling. If the sum of a WUP's withdrawal point's permit quantities do not match the WUP's total permitted quantity, a scaled permitted value is applied to each withdrawal point on the WUP. This adjusted quantity is used for calculating total permitted quantities by specific use categories, and for estimating pumpage on non-metered withdrawal points.

Fractioning. This process apportions pumpage totals to the water use categories if a withdrawal point is coded with two predominant use categories, based on each use's permitted quantity. The permitted and pumped totals are assigned to the appropriate predominant use category in the EWU tables and charts.

Quantity Tiers. For estimation purposes, all metered withdrawal points are assigned by one of four "tiers" according to their permitted quantity:

<i>Tier #</i>	<i>Permitted Quantity</i>
Tier 1:	< 50,000 gpd
Tier 2:	50,000 to 100,000 gpd
Tier 3:	> 100,000 to < 500,000 gpd
Tier 4:	500,000 gpd or more.

Each size tier is divided into the seven predominant use categories making 28 "use-tiers" (theoretically, although the few "Institutional" and "Other" use-tiers are blank because there were no metered points of that tier yet in 2016). The monthly pumpage from all metered withdrawal points are divided by the permitted quantity for that use to create a pumped/permitted ratio. The ratio values are grouped by use-tiers and sorted into an ordered distribution from smallest to largest ratio for statistical analysis.

In a normal distribution, the 50th percentile (median) is equal to the average (mean) value. If the distribution is skewed, the median is not equal to the mean. The District's metered pumpage ratio distribution is typically skewed to the right, i.e. the mean average is greater than the median. At the low end of the distribution, pumpage data includes zeros for withdrawal points that are unused or unrecorded. At the high end, some ratios could be much greater than 1.0 due to over-pumpers or

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erroneous outliers. To negate the effects of that bad end-values could have on the mean average, percentiles are used to select the best ratios for estimation. A range of percentiles from the 55th through the 80th within the distribution are analyzed, and a percentile for each use-tier is selected that efficiently represents the ratios of quantities over the 12 months. A SAS graphing program is used to analyze how the percentiles for each use-tier fit between the mean and median values.

The selected percentile for each use tier is inputted into a SAS program that queries the monthly pumped/permitted ratios at that percentile. The monthly ratios in each use-tier for the 2016 EWU Report are provided in Table F-1 below.

TABLE F-1: Monthly and Annual Average Ratios for Water Use Estimates 2016

Predominant Use Type	Size Tier	Monthly Ratios												Annual Ratio	Selected Percentile
		1	2	3	4	5	6	7	8	9	10	11	12		
Agriculture	1	0.27	0.30	0.93	1.18	0.95	0.49	0.41	0.34	0.38	1.08	1.48	1.09	0.742	P70
Agriculture	2	0.16	0.20	0.67	0.91	0.69	0.37	0.23	0.20	0.20	0.67	1.05	0.91	0.522	P60
Agriculture	3	0.07	0.12	0.57	0.75	0.46	0.14	0.13	0.14	0.17	0.52	0.91	0.73	0.393	P60
Agriculture	4	0.00	0.10	0.51	0.58	0.45	0.00	0.00	0.00	0.11	0.36	0.45	0.01	0.214	P65
Industrial/Com	1	0.42	0.50	0.58	0.48	0.53	0.42	0.37	0.44	0.28	0.34	0.42	0.31	0.424	P65
Industrial/Com	2	0.30	0.33	0.76	0.74	0.62	0.63	0.47	0.64	0.61	0.67	0.64	0.57	0.582	P60
Industrial/Com	3	0.41	0.37	0.38	0.44	0.42	0.54	0.45	0.45	0.35	0.42	0.44	0.43	0.425	P55
Industrial/Com	4	0.32	0.34	0.33	0.24	0.42	0.35	0.35	0.53	0.50	0.51	0.45	0.46	0.400	P65
Institutional	1	0.03	0.03	0.46	0.09	1.04	0.09	0.11	0.40	0.06	0.02	0.06	0.06	0.204	P65
Institutional	3	0.66	1.01	1.01	1.06	0.76	0.70	0.80	0.75	0.93	0.95	0.94	0.79	0.863	P60
Landscape/Rec	1	0.26	0.31	0.56	0.54	0.75	0.45	0.49	0.37	0.40	0.62	0.87	0.82	0.537	P65
Landscape/Rec	2	0.12	0.23	0.47	0.67	0.87	0.63	0.40	0.31	0.27	0.52	0.95	0.78	0.518	P60
Landscape/Rec	3	0.18	0.26	0.56	0.69	0.78	0.68	0.69	0.32	0.27	0.53	0.84	0.76	0.547	P60
Landscape/Rec	4	0.02	0.04	0.03	0.07	0.39	0.14	0.01	0.01	0.01	0.35	1.05	0.45	0.214	P70
Mining/Dew	1	0.21	0.15	0.02	0.14	0.25	0.11	0.16	0.28	0.12	0.11	0.06	0.09	0.142	P60
Mining/Dew	2	0.86	0.82	0.67	0.56	0.46	0.74	0.61	0.87	1.02	1.02	1.14	1.13	0.825	P55
Mining/Dew	3	0.41	0.51	0.60	0.51	0.47	0.39	0.48	0.36	0.46	0.49	0.46	0.48	0.468	P55
Mining/Dew	4	0.60	0.06	0.01	0.13	0.24	0.24	0.07	0.21	0.11	0.27	0.20	0.46	0.217	P60
Other	3	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.77	0.54	0.31	0.00	0.69	0.257	P55
Other	4	0.03	0.05	0.72	0.06	.	.	.	.	.	.	.	.	0.215	P55
Public Supply	1	0.87	0.82	0.86	0.97	1.06	0.79	0.71	0.73	0.73	0.70	0.93	1.00	0.848	P65
Public Supply	2	0.67	0.65	0.71	0.70	0.74	0.76	0.69	0.67	0.65	0.66	0.74	0.70	0.695	P55
Public Supply	3	0.57	0.58	0.66	0.71	0.73	0.68	0.69	0.65	0.61	0.67	0.73	0.64	0.660	P55
Public Supply	4	0.61	0.66	0.68	0.69	0.73	0.66	0.71	0.61	0.58	0.64	0.75	0.72	0.670	P55

Note: There were no ratios available for tiers without any metered WUPs to evaluate: Institutional tiers 2 and 4; and Other tiers 1, 2, and 4.

Estimating Withdrawals for Unmetered WUPs. All the non-metered WUP withdrawal points are ordered by the same use-tiers as the metered WUP withdrawal points. A SAS program uses the monthly ratios to estimate monthly pumpage for all active non-metered withdrawal points by multiplying each withdrawal point's scaled permit quantity by the corresponding monthly ratio. The monthly estimates, as opposed to annual estimates, will provide data that the District uses for simulating well pumpage in hydrologic models and other scientific purposes.

Final Compilation. SAS programs combine the metered and estimated monthly pumpage datasets and compile the annual average withdrawal totals per predominant and detailed use categories, water source, county, and water use caution areas. Listings of the WUPs are generated according to

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county, use type, annual average withdrawal, and permitted quantities. The author uses the program output to generate most of the charts, tables, and appendices in the EWU report. PSAR data is the primary source for public supply, but the data is cross-checked with the SAS output. Domestic self-supply estimates are calculated separately and is discussed below.

METERING HISTORY

Prior to 1989, metering was only required on WUPs with permitted quantities for 500,000 gpd or more (on an annual average basis). Between 1989 and 1992, metering was required on all WUPs for 100,000 gpd or more in the Northern Tampa Bay Water Use Caution Area (NTB WUCA) and in part of the Southern Water Use Caution Area (SWUCA), formerly known as the Eastern Tampa Bay WUCA and Highlands Ridge WUCA. The District established a cost-reimbursement program for meter installations, and by January 1992 all WUPs that were required to be metered were metered. In 1992, the SWUCA was established, replacing the Eastern Tampa Bay WUCA and the Highlands Ridge WUCA and including the counties between them. Metering requirements for WUPs for 100,000 gpd or more were added to the new area in the SWUCA. Permittees began installing these meters (under another meter cost-reimbursement program) beginning in 1995. By 2003, all permits in the SWUCA with the new metering requirement were metered. In 2007, the NTB WUCA was expanded to include all of Pasco County and the remaining portion of Hillsborough County that was not in the SWUCA. Metering conditions were applied to all WUPs for 100,000 gpd or more on an annual average basis in the added area of Pasco and Hernando under another meter cost-reimbursement program by the District.

Currently, the more lenient metering requirement at 500,000 gpd or more still exists for WUPs other than public supply within the northern District portions of Lake, Marion, Citrus, Sumter, Hernando, and Lake Counties, and the portion of Polk County north of the SWUCA boundary. Metering may still be required for smaller WUPs as a special condition if the withdrawals have the potential to impact sensitive water bodies, water resources, or other legal users.

In 2011, rules for Dover/Plant City WUCA were implemented. These rules require meters to be installed on all withdrawal points permitted for freeze protection quantities or withdrawal points permitted for annual average quantities for a use that typically requires freeze protection. The District is assisting the affected permittees with the cost of buying and installing the meters, along with automatic meter reading (AMR) devices installed on new or existing meters. The District also pays the subscription costs to have a vendor transmit the AMR data to the District in real time.

DOMESTIC SELF SUPPLY (DSS) ESTIMATIONS

The water used in the DSS category is by small domestic wells for potable supply at rural residences. The DSS use is not regulated by the District, as the wells typically have 4" diameter casings and withdraw small quantities that are below regulatory thresholds. Privately owned DSS wells typically do not have a meter, and pumpage records are not available to apply the estimation methods described above. As an alternative, the EWU Reports have provided a population-based estimate of DSS quantities since 1982. A "rural population" value for each county is multiplied by the county's residential per capita use (from Table A-2) to estimate the DSS use quantity for each county.

Through 2013, the rural population was calculated as the residual value between the countywide functional population and the sum of all the utility-served populations, as reported in the PSARs. This approach led to some noticeable year-to-year inconsistencies in the rural population values due to the nature of using data from a plethora of sources. Beginning with the 2014 EWU Report, a GIS-based analysis of rural population has been applied.

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The District's GIS library contains the following shapefiles:

- U.S. Census parcel-level, centroid based, population data by category and with growth projections.
- Utility service area polygons for public supply WUPs, which include areas specified as currently served or not served within the service area boundary.

The unserved population for each county is queried using census parcels outside of the utility-served polygons, and within the District boundary. The data fields in the U.S. Census population shapefile are in 5-year increments, so 2016 values were interpolated from the 2015 and 2020 values for the three categories below, then combined:

- PERMSEAS15, PERMSEAS20 (permanent/seasonal population)
- POP15_T, POP20_T (tourist population)
- POP15_NC, POP20_NC (net commuter population, which is sometimes negative)

The unserved population was used as the self-supplied population value. The countywide residential per capita (Table A-2) is multiplied by the self-supplied population to calculate the DDS use. It's assumed that the residential per capita effectively accounts for weather influences on outdoor water use during the year.

UTILIZATION OF PUBLIC SUPPLY ANNUAL REPORTS

The EWU Report has historically included data from the PSARs that are submitted by the larger public supply utilities. A permittee having a public supply WUP issued for 100,000 gpd or greater is required under Chapter 40D-2, Florida Administrative Code (F.A.C), to submit a PSAR by April 1 of each year. A considerable amount of staff time is placed into review of the PSARs, and the data is used to support water supply planning, water use permitting, and water conservation. Historically, some discrepancies have occurred between the PSAR-sourced annual average public supply withdrawals and those calculated from the WMIS monthly pumpage records. In recent years, the PSAR data has been used as the principal source for public supply withdrawals and use in this report. Nearly all discrepancies between the WMIS and PSAR withdrawal data were reconciled by District and utility staff prior to publication. Some differences between the official PSAR submittals and values in this report for permittees are possible, due to the authors' liberty to provide the best estimates of water use within the calendar year. PDFs of the official PSAR submittals are publicly available for download in the District's WMIS database.