



# 2017 Estimated Water Use

*in the*

## Northwest Florida Water Management District

**Total estimated water use: about 326 mgd**

**Population estimates:<sup>1</sup>**

- **BEBR - 1,449,998**
- **With seasonal adjustments - 1,554,984**

**Public supply per capita:**

- **Gross – 120 gpcd**
- **Residential – 77 gpcd**

### Acronyms

Bureau of Economic and Business Research (BEBR), University of Florida

Florida Department of Agriculture and Consumer Services (DACS)

Domestic Self-Supply (DSS)

Florida Statewide Agricultural Irrigation Demand (FSAID)

Gallons per Capita per Day (gpcd)

General Water Use Permit (GWUP)

Industrial-Commercial-Institutional (ICI)

Individual Water Use Permit (IWUP)

Million Gallons Per Day (mgd)

United States Geological Survey (USGS)

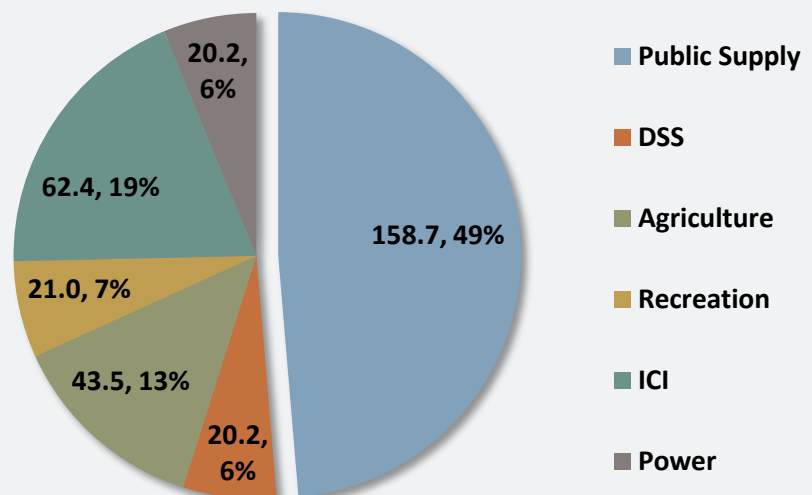
Estimated water use is the foundational data for Northwest Florida Water Management District (NFWFMD or District) strategic water management plans, water supply assessments, regional water supply planning, groundwater modeling and MFL technical assessments, and consumptive use permitting. Existing water use is the baseline data to develop water demand projections and future reasonable-beneficial water use needs.

The 2017 water use estimates include:

1. Public supply utility production withdrawals, water transfers, population estimates, water demand, and per capita rates;
2. Domestic self-supply (DSS) estimates based on population estimates and a USGS per capita rate of 88.67 gpcd;
3. Agriculture estimates of reported pumpage, and total estimates from DACS / FSAID data;
4. Recreational irrigation estimates of reported pumpage, and total estimates including water use from GWUP wells;
5. Industrial-Commercial-Institutional (ICI) reported water use; and,
6. Thermoelectric power generation reported water use.

Power and ICI water uses are adjusted for recirculation used in cooling processes. In 2017 the total estimated District water use was about 326 mgd. Nearly half or 49 percent was in the public supply water use category. ICI is the second largest water use category followed by agriculture. The majority of ICI and power water use is in Escambia and Bay counties. Jackson County and Region IV continue to be the District's dominate agricultural producer.

**2017 Estimated Water Use by Water Use Category (mgd)**



<sup>1</sup> NFWFMD portion of Jefferson County only.

The District's sixteen counties are divided into seven water supply planning regions. Escambia County, Region I, is estimated to have used over one-fourth of all District water in 2017, about 84 mgd. Rapidly growing and developing Region II followed with about 72 mgd or 22 percent. Bay County, Region III, is the District's third largest water user at 59 mgd or 18 percent.

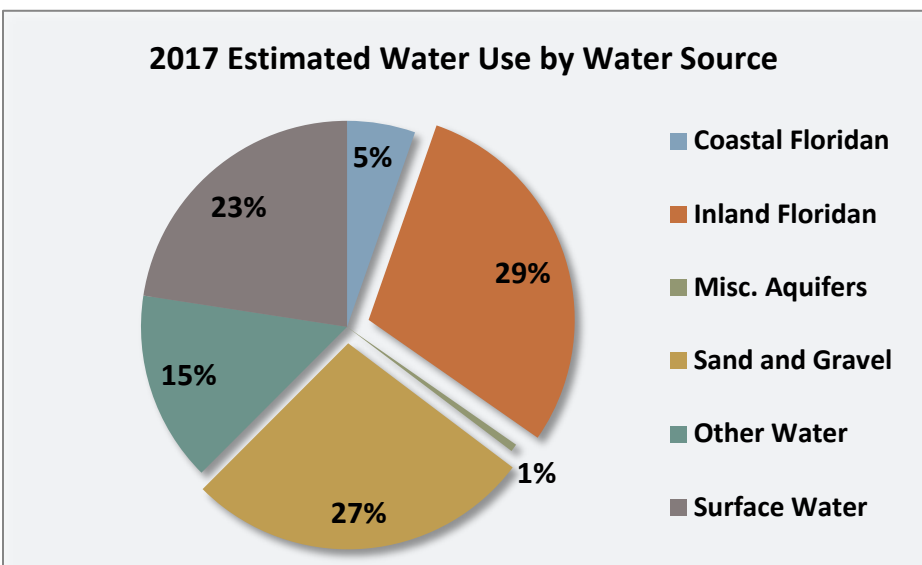
Population estimates with seasonal adjustments total 1,554,985. Transient or seasonal residents include migrant workers and are estimated to affect both public supply and DSS water use in all sixteen counties. Approximately 84 percent of District residents are estimated to be served by public supply. The five-year average gross per capita water use rate from 2013-2017 is 124 gpcd.

### 2017 Population Estimates

REGION	BEBR Permanent Populations	Seasonal Adjustments	TOTAL <sup>(1)</sup> Population Estimates	Public Supply	Domestic Self-Supply
Region I	313,381	10,028	323,409	312,167	11,242
Region II	431,624	56,918	488,542	452,904	35,638
Region III	178,820	21,458	200,278	181,137	19,141
Region IV	119,333	3,699	123,032	35,532	87,500
Region V	28,458	8,328	36,786	27,607	9,179
Region VI	48,263	1,158	49,421	30,690	18,731
Region VII	330,119	3,396	333,515	286,591	46,923
<b>TOTALS</b>	<b>1,449,998</b>	<b>104,986</b>	<b>1,554,984</b>	<b>1,326,628</b>	<b>228,357</b>

Note (1): Total population estimates, including seasonal adjustments.

Primary groundwater resources in northwest Florida are the Floridan and sand-and-gravel aquifers. Minor or "miscellaneous" aquifer systems include the intermediate, Claiborne, and surficial. A major surface water resource is Deer Point Lake Reservoir in Bay County.



Some water source estimates ("Other Water") may be exempt from permitting and reporting or are otherwise not clearly identified. DSS is presumed to be from groundwater but agriculture and recreation may draw from surface water sources, and recreation is often a complex water flow system that co-mingles ground, surface, and reuse of reclaimed waters.

### 2017 Estimated Water Use

Planning Region / County or Counties	Water Use (mgd)
Region I. Escambia	83.653
Region II. Santa Rosa, Okaloosa, Walton	71.878
Region III. Bay	59.614
Region IV. Washington, Holmes, Jackson, Calhoun, Liberty	47.916
Region V. Gulf, Franklin	5.862
Region VI. Gadsden	11.501
Region VII. Leon, Wakulla, Jefferson (NWF)	45.695
<b>TOTAL</b>	<b>326.118</b>

***Ninety (90) percent of all public supply water use was in regions I-III, and in Leon County in Region VII.***

***Agriculture and recreation are the two water use categories most affected by precipitation and drought. Years 2015-2017 were considered near normal or average rainfall years. The most recent drought year was 2011.***

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TRS-19-3

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