



2018 Estimated Water Use

in the

Northwest Florida Water Management District

Total estimated water use: about 330 mgd

Population estimates:¹

- **BEBR - 1,471,167**
- **With seasonal adjustments - 1,578,158**

Public supply per capita:

- **Gross – 120 gpcd**
- **Residential – 75 gpcd**

Acronyms

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

Florida Department of Agriculture and Consumer Services (FDACS)

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)

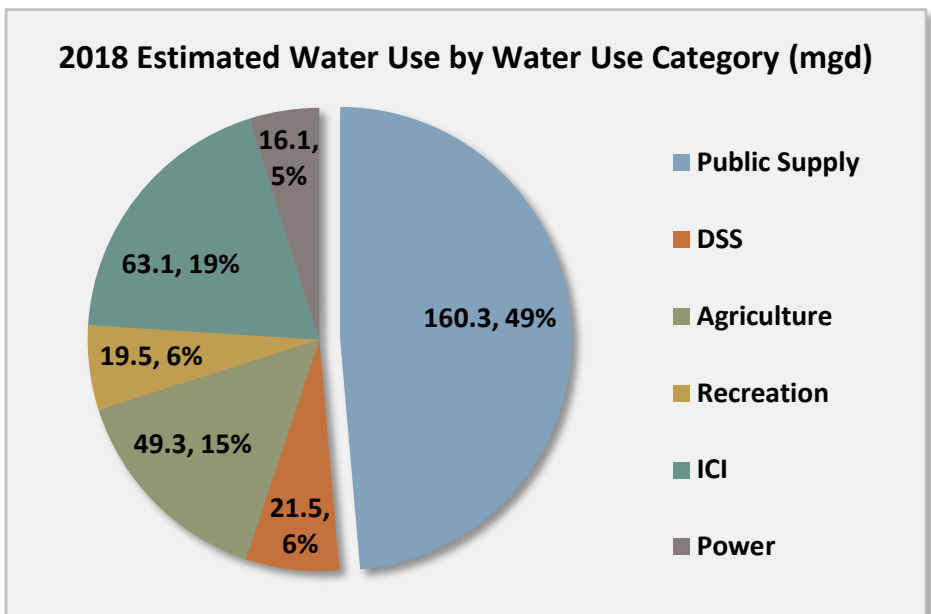
Million Gallons Per Day (mgd)

United States Geological Survey (USGS)

Estimated water use is the foundational data for Northwest Florida Water Management District (NFWMD or District) water supply assessments, regional water supply plans, 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 2018 water use estimates include:

1. Public supply utility production withdrawals, water transfers, water demand, population estimates, 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 FDACS/FSAID data;
4. Recreational irrigation estimates of reported pumpage, and total estimates including water use from GWUP wells;
5. Industrial-Commercial-Institutional (ICI) net adjusted water use; and,
6. Thermoelectric power generation net adjusted water use.

In 2018, the total estimated District water use was about 330 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.



Agriculture continues to be the largest water use category in Jackson County and in Region IV. Over half of all recreational water use was in Region II and the majority (86%) of ICI and power generation self-supplied water use was in Escambia and Bay counties.

¹ NFWMD portion of Jefferson County only.

The District's sixteen counties are organized into seven water supply planning regions. Escambia County (Region I) is estimated to have used one-fourth of all District water in 2018, about 83 mgd. Rapidly growing and developing Region II followed with about 73 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 1,578,158. Seasonal residents are estimated to affect both public supply and DSS water use in all sixteen counties. Approximately 85 percent of District residents are estimated to be served by public supply. The five-year average gross per capita water use rate from 2014-2018 was 123 gpcd.

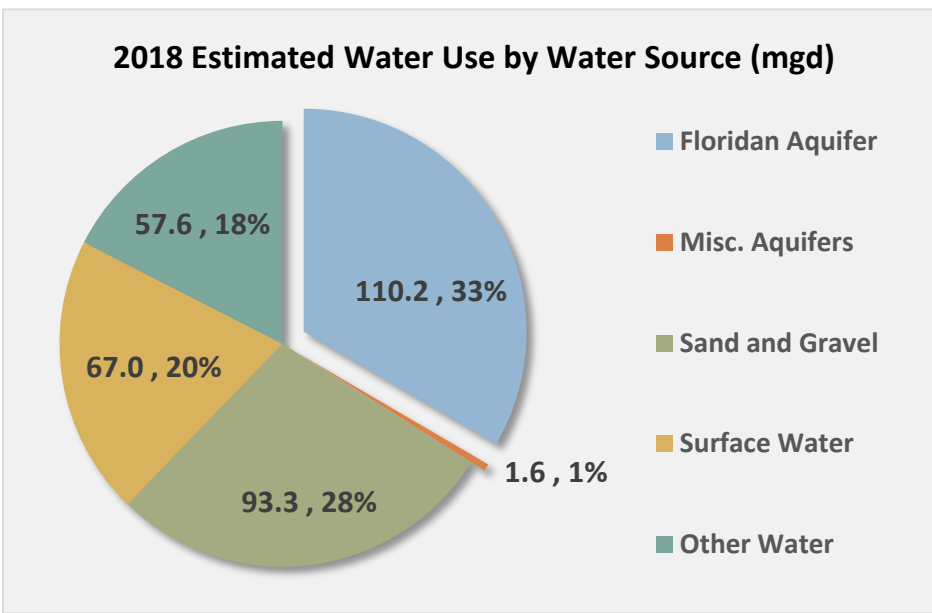
2018 Population Estimates

REGION	BEER Permanent Populations	Seasonal Adjustments	TOTAL ^(b) Population Estimates	Public Supply	Domestic Self-Supply
Region I	318,560	10,194	328,754	313,636	15,118
Region II	440,695	58,446	499,140	456,978	42,163
Region III	181,199	21,744	202,943	181,176	21,767
Region IV	119,705	3,723	123,429	39,084	84,344
Region V	28,508	8,313	36,822	29,606	7,216
Region VI	47,828	1,148	48,976	30,226	18,750
Region VII ^(a)	334,672	3,423	338,095	284,933	53,161
TOTALS	1,471,167	106,991	1,578,158	1,335,640	242,518

^(a) Estimated NFWFMD share of Jefferson County only.

^(b) 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.



Withdrawals from the Floridan aquifer accounted for an estimated third of all 2018 water use and over half of all groundwater withdrawals. "Other Water" is estimated water use but the source is not clearly known or identified.

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Planning Region / County or Counties	Water Use (mgd)
Region I. Escambia	83.23
Region II. Santa Rosa, Okaloosa, Walton	72.84
Region III. Bay	58.92
Region IV. Washington, Holmes, Jackson, Calhoun, Liberty	52.22
Region V. Gulf, Franklin	5.62
Region VI. Gadsden	12.57
Region VII. Leon, Wakulla, Jefferson (NWF)	44.38
TOTAL	329.76

Ninety-one (91) percent of all public supply water use was in Bay, Escambia, Okaloosa, Santa Rosa, Walton and Leon counties.

Agriculture and recreation are the two water use categories most affected by precipitation and drought. Annual average rainfall in 2018 was one of the wettest on record. The most recent drought year was 2011.

Northwest Florida Water Management District

TRS-20-1

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