



2016 Estimated Water Use

in the

Northwest Florida Water Management District

Total estimated water use: about 327 mgd

Population estimates:¹

- **BEBR - 1,433,967**
- **With seasonal adjustments - 1,536,939**

Public supply per capita:

- **Gross - 122 gpcd**
- **Residential - 74 gpcd**

Acronyms

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

Domestic Self-Supply (DSS)

Florida Department of Agriculture and Consumer Services (FDACS)

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)

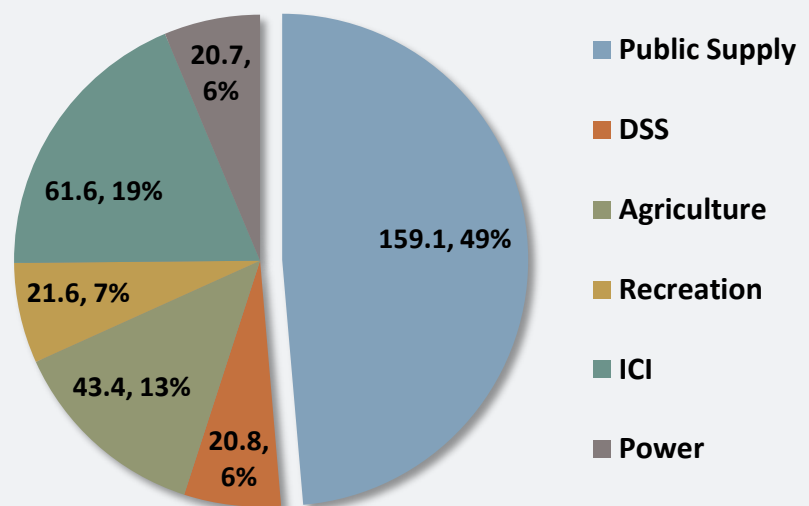
Estimated water use is the foundational data for Northwest Florida Water Management District (NFWFMD or District) strategic water management plans, water supply assessments, regional water supply planning, groundwater modeling and MFL technical assessments, and consumptive use permitting. Existing water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

The 2016 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 FDACS / 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.

In 2016 the total estimated District water use was about 327 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 self-supplied water use is in Escambia and Bay counties. Jackson County and Region IV are the District's dominate agricultural producer.

2016 Estimated Water Use by Water Use Category (mgd)



¹ Includes 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 2016, about 85 mgd. Rapidly growing and developing Region II followed with about 70 mgd or 22 percent. Bay County, Region III, is the District's third largest water user at 59 mgd or 18 percent.

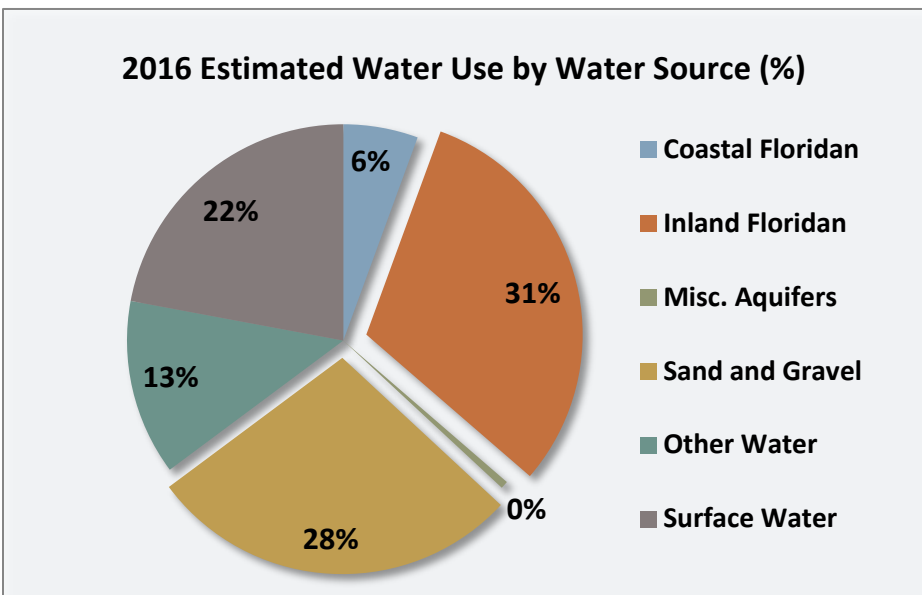
Population estimates with seasonal adjustments total 1,536,939. Transient or seasonal residents include migrant workers, and are estimated to affect both public supply and DSS water use in all sixteen counties. Approximately 85 percent of District residents are estimated to be served by public supply.

2016 Population Estimates

REGION	BEBR Permanent Populations	Seasonal Adjustments	TOTAL ⁽¹⁾ Population Estimates	Public Supply	Domestic Self-Supply
Region I	309,986	9,920	319,906	307,947	11,958
Region II	422,877	55,404	478,281	446,384	31,897
Region III	176,016	21,122	197,138	180,774	16,364
Region IV	118,552	3,681	122,233	36,867	85,366
Region V	28,544	8,305	36,849	31,232	5,617
Region VI	48,486	1,164	49,650	32,495	17,155
Region VII	329,506	3,377	332,883	266,736	66,147
TOTALS	1,433,967	102,972	1,536,939	1,302,435	234,504

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

Primary groundwater resources include the Coastal Floridan Aquifer System (FAS), Inland FAS, 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.

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Planning Region / County or Counties	Water Use (mgd)
Region I. Escambia	84.945
Region II. Santa Rosa, Okaloosa, Walton	70.478
Region III. Bay	59.378
Region IV. Washington, Holmes, Jackson, Calhoun, Liberty	47.446
Region V. Gulf, Franklin	5.679
Region VI. Gadsden	11.715
Region VII. Leon, Wakulla, Jefferson (NWF)	47.448
TOTAL	327.089

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

Agriculture and recreation are the two water use categories most affected by precipitation and drought. Years 2014-2016 are considered normal or average rainfall years. The most recent drought year was 2011.

Northwest Florida Water Management District

TRS-19-1

81 Water Management Drive
Havana, Florida 32333-4712

(850) 539-5999

www.nfwwater.com