



Total estimated water use: 329 mgd

Population estimates:¹

- **BEBR - 1,510,330**
- **With seasonal adjustments - 1,619,459**

Public supply per capita:

- **Gross - 119 gpcd**
- **Residential - 73 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)

Minimum Flows and Minimum Water Levels (MFLs)

United States Geological Survey (USGS)

¹ NFWFMD portion of Jefferson County only.

2021 Estimated Water Use

in the

Northwest Florida Water Management District

Estimated water use is foundational data for Northwest Florida Water Management District (NFWFMD or District) water supply assessments, regional water supply plans, groundwater models and MFL technical assessments, as well as for consumptive use permitting. Existing water use is the baseline data to develop water demand projections. The 2021 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. Agricultural estimates of reported pumpage, and total estimates from FDACS/FSAID data;
4. Recreational irrigation, including landscape irrigation, based on reported and estimated pumpage;
5. Industrial-Commercial-Institutional (ICI) reported water use; and,
6. Thermoelectric power generation reported water use.

In 2021, the total estimated District water use was 329.8 mgd. Half or approximately 167.4 mgd was in the public supply water use category. ICI is the second largest water use category followed by agriculture.

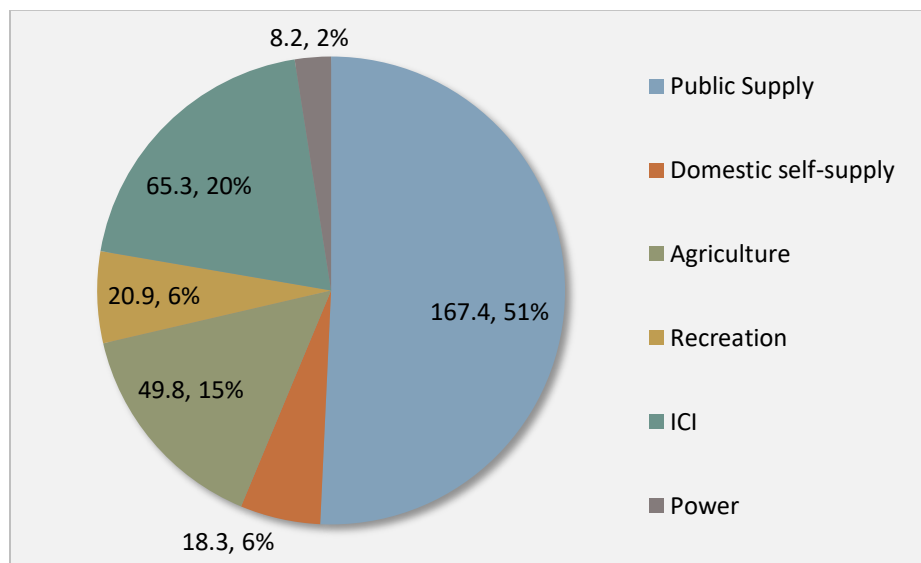


Figure 1. Total Water Use by Category (mgd)

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. The majority of ICI water use was in Escambia (51%) and Bay (36%) counties, and the majority of power generation water use was in regions III (37%) and VII (33%).

The District's sixteen counties are organized into seven water supply planning regions. Escambia County (Region I) is estimated to have accounted for nearly one-fourth (80.2 mgd) of all District water use in 2021. Rapidly growing and developing Region II followed with 75.3 mgd or 23 percent. Bay County (Region III) is the District's third largest water user at 59.0 mgd or 18 percent.

Population estimates with seasonal adjustments total 1,619,459. Seasonal residents are estimated to affect both public supply and DSS water use in all sixteen counties. Approximately 86 percent of District residents are estimated to be served by public supply. The five-year average gross public supply per capita water use rate from 2016-2020 was 122.0 gpcd.

2021 Population Estimates

| REGION | BEBR Permanent Populations | Seasonal Adjustments | TOTAL ^(b) Population Estimates | % Public Supply | % DSS |
|---------------------------|----------------------------|----------------------|---|-----------------|------------|
| Region I | 324,458 | 10,383 | 334,841 | 94% | 6% |
| Region II | 483,056 | 61,218 | 544,274 | 91% | 9% |
| Region III | 178,282 | 21,394 | 199,676 | 93% | 7% |
| Region IV | 113,005 | 3,445 | 116,450 | 36% | 64% |
| Region V | 27,188 | 8,083 | 35,271 | 86% | 14% |
| Region VI | 43,813 | 1,052 | 44,865 | 70% | 30% |
| Region VII ^(a) | 340,528 | 3,556 | 344,084 | 86% | 14% |
| TOTALS | 1,510,330 | 109,129 | 1,619,459 | 86% | 14% |

^(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 aquifers. A major surface water resource for Bay County is the Deer Point Lake Reservoir.

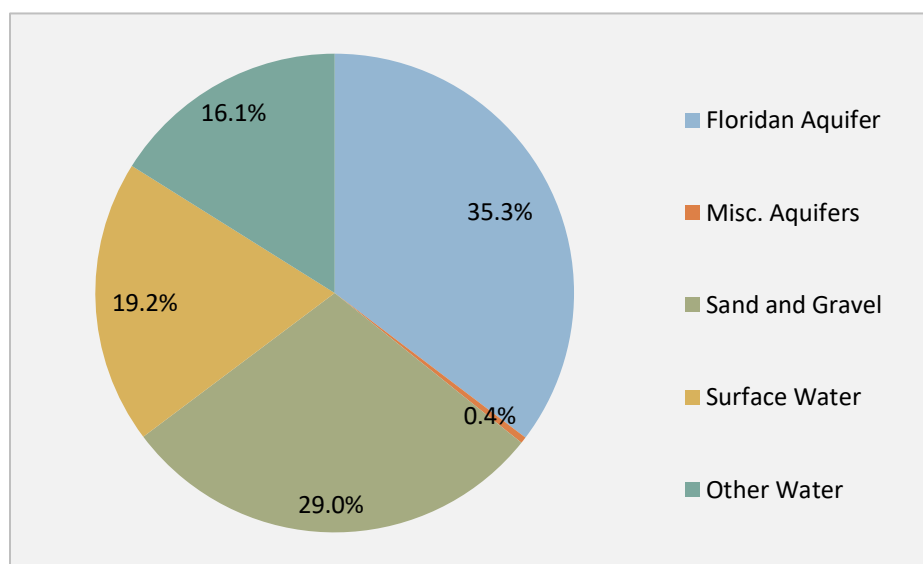


Figure 2. Total Water Use by Source

Withdrawals from the Floridan aquifer accounted for 35 percent of all water use and over half of all groundwater withdrawals. "Other Water" is estimated water use but the source is not clearly known or identified.

2021 Estimated Water Use

| Planning Region / County or Counties | Water Use (mgd) |
|---|-----------------|
| Region I. Escambia | 80.16 |
| Region II. Okaloosa, Santa Rosa, Walton | 75.30 |
| Region III. Bay | 59.02 |
| Region IV. Calhoun, Holmes, Jackson, Liberty, Washington, | 51.91 |
| Region V. Franklin, Gulf | 5.71 |
| Region VI. Gadsden | 10.95 |
| Region VII. Leon, Wakulla, Jefferson (NWF) | 46.79 |
| TOTAL | 329.83 |

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

Agriculture and recreation are the two water use categories most affected by precipitation and drought. Annual average rainfall in 2021 was 72 inches, 18% above normal. The most recent drought year was 2011.

Northwest Florida Water Management District

TRS-23-2

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