



CENTRAL UTAH WATER
CONSERVANCY DISTRICT

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July 1, 2024

Ms. Teresa Wilhelmsen, State Engineer / Director
Utah Division of Water Rights
P.O. Box 146300
1594 W North Temple Suite 200
Salt Lake City, UT 84114-6300

Subject: 2023 Per Capita Consumptive Use

Dear Teresa:

In compliance with Utah Code 73-5-8, the Central Utah Water Conservancy District (District) respectfully submits to you its Per-Capita Consumptive Water Use Annual Report (Annual Report) for water use during the 2023 calendar year in Utah County. This Annual Report is due each year on or by July 1, for the prior calendar year reporting period.

This Annual Report includes water use from 19 Cities in Utah County along with their population data and the corresponding wastewater return flows to the natural environment. The reported 2023 per capita consumptive use (GPCD) for Utah County is 130 GPCD. We expect this number to trend down as we aggressively continue our conservation efforts and programs.

For questions regarding this report please direct them to Rick Maloy by email at Rick@cuwcd.gov or by phone at 801-226-7136.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Gene Shawcroft".

Gene Shawcroft, P.E.
General Manager/CEO

2023 Per Capita Consumptive Use Report

Central Utah Water Conservancy District



Utah County’s 2023 per capita consumptive use was **130** gallons per day. This represents water consumed, divided by the population, divided by 365 days, as prescribed in Utah Code §73-5-8.5.

Gallons Per Capita Per Day (GPCD) is a common metric used by utilities to assess water use, set conservation goals, and plan for the future. Central Utah Water Conservancy District (District) has historically relied on individual cities and the Division of Water Resources to calculate and provide GPCD data. In 2023, Senate Bill 119 was passed requiring the District to report GPCD for Utah County.

Total Water Supplied

The District collected 2023 water data from the 19 cities/community water systems (see table 1) that serve a population of 3,300 or more as required by Utah Code §73-5-8.5(7)(a). The water data provided includes supplied culinary and secondary water for a total of **50,220,436,000** gallons as required by §73-5-8.5(7).

While most of this data is directly measured, some water systems provided secondary water data that was estimated. Many cities in Utah County are currently in the process of installing secondary meters to bill and understand secondary water use more accurately. As more secondary water meters are installed and other infrastructure improvements are implemented, the District anticipates the reliability of secondary water use, and consumptive data in Utah County will improve.

Return Flows

To calculate a consumptive use number, wastewater return flow to the natural environment was also collected for a total of **15,729,970,000** gallons from the same 19 cities in Utah County consistent with code §73-5-8.5(6). Within each city’s wastewater collection system, there is some Inflow and Infiltration (I&I) that is not directly connected to water supplied by the water system. The rate of I&I was assumed at an average of 15% and subtracted from the lowest month of treated wastewater to limit the significant variations of I&I that occurs from storm events throughout the year. This monthly data was then multiplied by 12 to generate the total for 2023. The total return flows were then subtracted from the supplied water.

Population

The 2023 total population of the 19 included cities in Utah County is **727,579**. The population for each city was provided by each city along with the water data and consistent with code §73-5-8.5(5). No additional population adjustments were made for transient or daytime population changes.

Table 1

City	Total Deliveries	Population
Alpine	1,793,812,000	10,604
American Fork	4,006,012,000	38,005
Cedar Hills	804,523,000	10,035
Eagle Mountain	3,005,148,000	61,266
Elk Ridge	280,219,000	5,068
Highland	3,020,883,000	21,120
Lehi	5,855,287,000	82,810
London	1,500,823,000	12,360
Mapleton	1,231,044,000	14,000
Orem	6,981,850,000	95,634
Payson	1,692,687,000	23,123
Pleasant Grove	2,658,162,000	39,275
Provo	6,201,961,000	121,783
Salem	803,914,000	10,393
Santaquin	1,311,151,000	17,173
Saratoga Springs	2,344,194,000	59,812
Spanish Fork	3,036,185,000	46,000
Springville	3,066,960,000	37,545
Vineyard	625,621,000	21,573
Total:	50,220,436,000	727,579