MUNICIPAL AND INDUSTRIAL
WATER SUPPLY AND USES
in the
UTAH LAKE BASIN

(Data Collected for Calendar Year 2003)

Prepared by
Utah Department of Natural Resources
Division of Water Resources

May 2004
ACKNOWLEDGMENTS

This study was conducted under the direction of Eric L. Millis, assistant director, and supervised by Eric K. Klotz, chief, Water Conservation, Education & Use Section, Utah State Division of Water Resources. Staff members participating in the preparation of this report and/or in the data collection and analysis were Gregory Williams, and Barbara Perry. Appreciation is expressed to the various water suppliers and the Division of Water Rights for supplying information for this report.

Dennis J. Strong, Director
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EXECUTIVE SUMMARY

This document describes the municipal and industrial (M&I) water supplies and uses for the Utah Lake Basin with data collected for the calendar year of 2003. All resultant information presented represents the water supply and demand conditions of the calendar year 2003 only and may not be representative of the conditions of a “normal” year. Total M&I water supplies and uses for the basin are computed by tabulating results of water use studies in the four counties in which the basin is contained. These counties are portions of Juab, Summit, and Wasatch, as well as all of Utah County. The county data was collected through meetings with and/or surveys of each public community and non-community water system.

The basin’s maximum annual potable water supply under present conditions for Public Community Water Systems is 342,405 acre-feet. Springs account for 17 percent of this total, wells 47 percent, and surface sources 36 percent. Table I presents this data, broken down into further detail.

TABLE I
UTAH LAKE BASIN
Maximum Potable Water Supplies for Public Community Systems
(Acre-Feet/Year)

<table>
<thead>
<tr>
<th>County</th>
<th>Springs (Acre-Feet)</th>
<th>Wells (Acre-Feet)</th>
<th>Surface (Acre-Feet)</th>
<th>Total (Acre-Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Juab</td>
<td>1,934</td>
<td>2,769</td>
<td>0</td>
<td>4,703</td>
</tr>
<tr>
<td>Summit</td>
<td>388</td>
<td>312</td>
<td>0</td>
<td>700</td>
</tr>
<tr>
<td>Utah</td>
<td>49,284</td>
<td>154,423</td>
<td>118,700</td>
<td>322,407</td>
</tr>
<tr>
<td>Wasatch</td>
<td>6,718</td>
<td>3,377</td>
<td>4,500</td>
<td>14,595</td>
</tr>
<tr>
<td>Basin Totals</td>
<td>58,324</td>
<td>160,881</td>
<td>123,200</td>
<td>342,405</td>
</tr>
</tbody>
</table>

Note: All values represent system source capacities limited by water rights, hydrologic constraints, and/or physical system constraints.
The basin’s annual reliable potable water supply for the public community water systems in the basin is 166,243 acre-feet. The breakdown of this supply is presented in the following Table II.

### TABLE II
**UTAH LAKE BASIN**
Reliable Potable Water Supplies for Public Community Systems
(Acre-feet/year)

<table>
<thead>
<tr>
<th>County</th>
<th>Springs</th>
<th>Wells</th>
<th>Surface</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Juab</td>
<td>1,156</td>
<td>1,619</td>
<td>0</td>
<td>2,775</td>
</tr>
<tr>
<td>Summit</td>
<td>221</td>
<td>180</td>
<td>0</td>
<td>401</td>
</tr>
<tr>
<td>Utah</td>
<td>32,215</td>
<td>91,010</td>
<td>29,350</td>
<td>152,575</td>
</tr>
<tr>
<td>Wasatch</td>
<td>4,171</td>
<td>1,821</td>
<td>4,500</td>
<td>10,492</td>
</tr>
<tr>
<td><strong>Basin Totals</strong></td>
<td><strong>37,763</strong></td>
<td><strong>94,630</strong></td>
<td><strong>33,850</strong></td>
<td><strong>166,243</strong></td>
</tr>
</tbody>
</table>

Total M&I water use can be divided into two categories: potable (culinary) and non-potable (secondary). Potable water is delivered by public community, public non-community, self-supplied industrial, and private domestic water systems. Non-potable water uses include residential, commercial and institutional secondary water (usually delivered by separate irrigation companies), as well as secondary water used by self-supplied industries. Table III, on the following page, indicates the total potable and non-potable M&I water use for all systems in the Utah Lake Basin for the year 2003.

The table indicates that the total potable M&I water use in 2003 was 107,239 acre-feet. Total non-potable water use in the basin for 2003 was 38,349 acre-feet. Therefore, the total M&I water use for the Utah Lake Basin in 2003 was 145,588 acre-feet. Table III also indicates that the public community water systems delivered the
majority of the potable water in the basin. For this reason, as well as additional reference, the following Table IV shows a further breakdown of the water use data for potable and non-potable categories of water delivered by public community water systems within the basin. Of the total water use shown, 26% was residential indoor, 43% residential outdoor, 14% commercial, 13% institutional, and 4% light industrial.
Out of a total 2003 basin population of 449,558, the population served by public community water systems in the basin was approximately 441,380. For the public community systems only, the calculated residential potable per capita water use is 138 gallons per capita per day (gpcd). Residential non-potable water use is 42 gpcd, resulting in total residential water use of 180 gpcd. Adding commercial, institutional and industrial uses, the public community systems water use is then 203 gpcd for potable and 56 gpcd for non-potable uses, for a total of 259 gpcd. These values are shown in the following Table V. By comparison, the 2000 statewide average total per capita water use for public community water systems was 293 gpcd.
TABLE V
UTAH LAKE BASIN
Average Per Capita Water Use for Public Community Systems

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>Average Per Capita Use (Ac-Ft/Yr)</th>
<th>Average Per Capita Use (GPCD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential Potable Use</td>
<td>0.154</td>
<td>138</td>
</tr>
<tr>
<td>Residential Potable Plus Secondary Use</td>
<td>0.202</td>
<td>180</td>
</tr>
<tr>
<td>Total Potable Use</td>
<td>0.228</td>
<td>203</td>
</tr>
<tr>
<td>Total Potable Plus Secondary Use</td>
<td>0.290</td>
<td>259</td>
</tr>
</tbody>
</table>

Note: Total Potable categories include residential, commercial, institutional and industrial uses.

Table VI includes the M&I water budget for the basin. A water budget indicates the amount of water for use within the basin and the amount of water depleted from the basin due to use. Appendix F contains a table that indicates more specific details about the diversions and depletions from each individual community system within the basin.

TABLE VI
UTAH LAKE BASIN
M&I Water Budget
(Acre-Feet/Year)

<table>
<thead>
<tr>
<th>COUNTY</th>
<th>Diversions</th>
<th>Depletions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Indoor Use</td>
<td>Outdoor Use</td>
</tr>
<tr>
<td>Juab</td>
<td>1,152.8</td>
<td>1,412.6</td>
</tr>
<tr>
<td>Summit</td>
<td>89.1</td>
<td>246.0</td>
</tr>
<tr>
<td>Utah</td>
<td>61,970.2</td>
<td>74,407.4</td>
</tr>
<tr>
<td>Wasatch</td>
<td>1,894.9</td>
<td>4,414.8</td>
</tr>
<tr>
<td>Basin Totals</td>
<td>65,107.0</td>
<td>80,480.8</td>
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INTRODUCTION

Authority

The Utah Division of Water Resources (DWRe) has the overall responsibility for completing studies, investigations, and plans to assist the responsible development and utilization of the water resources of the state of Utah. The State Water Plan, prepared and distributed in early 1990, provided the foundation and overall direction to establish and implement the state policy framework of water management. As part of the state water planning process, detailed plans are prepared for the 11 hydrologic basins in the state. The Utah Lake Basin is one of these 11 basins. A location map of the Utah Lake Basin is shown on the following page in Figure 1.

Each basin water plan identifies potential conservation and development projects and describes alternatives to efficiently satisfy the water needs of that basin. As part of this effort, background data reports are completed for each river basin. These include a Water-Related Land Use Report and a Municipal & Industrial (M&I) Water Supply & Use Report.

Scope

As stated earlier, the subject of this report is a determination of the present M&I water supplies and uses within the Utah Lake Basin. The data presented in all the referenced reports may be used in the State Water Plan for the Utah Lake Basin, as well as other division reports and studies. Information considered for this report also includes related investigations recently completed by the DWRe and the Utah Division of Water Rights (DWRi).
Figure 1. Location of the Utah Lake Basin
**Data Collection**

This study was begun in May 2004 by DWRe staff. The 2003 *Municipal and Industrial Water Use Forms*, as well as electronically submitted data, distributed by the DWRi in cooperation with the DWRe and the Utah Division of Drinking Water (DDW), were used as a basis for the study. In all counties, the data collection process is as described in the following section, *Water Supply and Use Methodology*. Water rights discussions and information presented herein were prepared based, in part, on information provided by John Mann, area engineer of the State Engineer's Office, who is responsible for the oversight of the water rights in the Utah Lake Basin.

**General Description of the Basin**

The Utah Lake Basin contains almost 3,850 square miles in north-central Utah bounded by the Traverse Mountains on the north, the Wasatch and Uintah Mountains on the east and south, and the East Tintic and Oquirrh mountains on the west. The basin encompasses most of Utah and Wasatch Counties, parts of Summit, Sanpete, and Juab Counties. The land within the basin rises from a low elevation of 4,475 feet above sea level at the Jordan Narrows to 11,928 feet at Mt. Nebo at the southern end of the basin.

The major waterways of the basin include the American Fork, Provo, Spanish Fork, and Jordan Rivers. With the exception of the Jordan River, Utah Lake is the main water body of the basin into which all the waterways within the basin drain. Being the only outlet of Utah Lake, the Jordan River drains north into the Great Salt Lake.

See *Figure 2* on page 5 for a detailed drainage map of the basin.
Within the Utah Lake Basin, there are fifty-five public community water systems serving a total population of approximately 441,380 people (most all of the 449,558 total basin population). The basin also has seventy-five public non-community water systems. These systems serve Federal Forest Service campgrounds, State Park facilities, isolated commercial and institutional establishments, summer home developments, roadside rest areas and parks. Among the larger non-community systems is the Deseret Feed Lot owned by the LDS church. See Figure 3 on page 9 for the location of these systems. Within the basin there are also twelve self-supplied industries.

As with most areas of northern Utah, demographically, the basin’s population is becoming increasingly more urbanized. Internal growth, migration of the Wasatch Front population, expanding employment and recreational opportunities are some of the major driving factors of population growth in the basin. The Governor’s Office of Planning and Budget projects that the basin’s population will more than double from the current population to over 1,000,000 people by the year 2050.
Figure 3. Location of Public Water Systems
WATER SUPPLY AND USE METHODOLOGY

Background

Over the past 45 years the Utah Division of Water Resources (DWRRe) has employed various procedures to obtain municipal and industrial (M&I) water use data. In recent years, these procedures have become increasingly more comprehensive. When the division began water planning in the 1960’s, available data consisted mainly of supplies and uses for the entire state. At that time, agriculture uses far exceeded M&I uses in Utah. M&I water use was generally calculated by using available or estimated per capita rates and multiplied by the census population data.

By the early 1980’s, M&I diversions made up a larger percentage of all statewide water uses and the entire water community began to increase their focus on M&I water supplies and uses. The Utah Division of Water Rights (DWRi) launched a program to collect yearly, statewide M&I data from each public community water system. The procedure involved mailing a survey designed to query each of the major public water suppliers about their sources of water supply. Additionally, the United States Geological Survey (USGS) began M&I water use studies. The division relied on both data sources in its planning efforts by the late 1980’s.

With the preparation of the State Water Plan Basin reports, and the increasing focus on water conservation, the DWRRe saw the need to verify and improve the quality and quantity of the available data. The first method used included assisting the DWRi in the improvement of their M&I data collection program. Secondly, the DWRRe began verifying the accuracy of the data through yearly field surveys described in the following four sections.
Present Methodology for Community Water Systems

Each year, the DWRe targets several hydrologic basins for M&I water supply and use analysis. The most recent water use information supplied by the DWRi is the basis used to begin the study. Prior to 2003, each water supplier, using a standard form, submitted this information. An example of the water use data form for Orem City is found in Appendix E. Since 2003, the program has been updated, allowing for the water suppliers to electronically submit their data.

The DWRe staff contact the manager or operator of each community water system, as defined by the Utah Division of Drinking Water (DDW) to schedule a data collection and analysis meeting. These meetings are necessary because data often is not reported (either on the water use forms or electronically) in the detail required for a complete M&I water use study. During these meetings, staff clarifies and collects additional data as needed. Total water supply and usage of the water systems are calculated based on information gathered during these meetings. When data is not available, it is necessary to estimate a part or all of the system use.

A secondary objective of these meetings is to instruct the operator or manager on how to most accurately and effectively complete the water use data form and/or submit their information electronically. This methodology has been used since 1992.

Water Supply

Two factors define the potable water supply: maximum water supply available under present conditions and reliable water supply. The maximum water supply available under present conditions is defined as the water resource that is presently developed. It is limited by a mechanical constraint (such as pump capacity or pipe size), a hydrologic constraint (such as reliable stream flow or groundwater safe yield) or a legal constraint (such as a water right or contract). The lesser amount of water
supply, due to these three constraints, is considered to be the maximum water supply available under present conditions used in this analysis. The determination of well pump capacities, average annual spring flow estimates, treatment plant capacities, and water right information aid in the calculation of this value. It should be noted that, due to the complexity of water rights, contracts, exchanges, etc., a detailed search of water right limitations associated with each entity is not within the scope of this study.

The reliable potable water supply is defined as the capacity to meet peak day demands, expressed as an annual volume. It is valuable in determining future water supply capacities of the particular community water system sources (wells, springs, etc.). The reliable potable water supply is calculated by adding together the maximum water supply capacity of surface sources, one-half of the maximum yield of wells or their pump capacities (unless otherwise indicated by the system manager), and a percentage of the average annual flow of spring sources. The percentage of the spring source flows ranges between 50% and 100%. The determination of the percentage is based on information obtained concerning the yearly fluctuations of the springs.

Figure 4, on page 15, graphically presents the relationship between the maximum potable water supply and the reliable potable water supply of a system. By quantifying the maximum and the reliable potable water supply of a system, the population that a system can potentially support can be determined. The current total yearly water use is the volume under the lower curve (Present Water Use Pattern). The future total yearly water use is the volume under the upper curve (Future Water Use Pattern). This total is equivalent to the reliable potable water supply.

The maximum water supply under present conditions is the volume under the upper line (Maximum Water Supply) in Figure 4. Because this amount is a yearly volume based upon a maximum daily flow rate (limited by the water right or system capacity), the line passes through the peak day demand point on the future water use
curve (Future Peak Day Demand). Due to this, and the fact that most culinary water system storage tanks are designed to store only about one day’s water demand, not all of the total maximum water supply is available to meet future water needs. Therefore, the reliable water supply, rather than the maximum water supply, is the limiting factor in determining when future water demand equals current supplies.

Reliable secondary water supply is defined to be equal to the secondary use determined for each community system. The methodology for calculating secondary use is explained on page 17 under Residential Use.
Figure 4. Water Supply and Use Hydrograph
**Water Use**

Present water use, as defined herein, is the developed water supply that is actually diverted into the distribution system from surface or subsurface sources. Water use is divided into four categories: residential, commercial, institutional and industrial. For comparative purposes, the DWRe chose these categories to correlate with the USGS categories of domestic, commercial, industrial, and mining.

The DWRe’s residential category is equivalent to the USGS domestic category and includes water used for both indoor and outdoor purposes at residences. The USGS commercial category is equivalent to the DWRe’s combined commercial and institutional categories. The DWRe’s commercial category includes water use for retail establishments and businesses. The DWRe’s institutional category includes water use for government facilities, military facilities, schools, hospitals, churches, parks, cemeteries, golf courses, etc. The DWRe’s industrial category is equivalent to the combined USGS categories of industrial and mining that includes a wide variety of water uses associated with businesses that produce a specific product (including stockwatering).

**Residential Use**

The DWRe staff collects data about the number of residential connections and the amount of water used by those connections from a water system representative. Water use in this category is divided into three subcategories: culinary-outdoor, culinary-indoor, and secondary-outdoor. While most systems will meter the total residential water use, these subcategories are rarely metered separately. Therefore, the DWRe usually estimates these subcategory totals.
Typically, culinary indoor use will be estimated first. One method to estimate the indoor use is to review residential meter reading totals for the system from the winter months, if available. It can be assumed that the water used in winter months is for indoor use only, since outdoor watering does not typically occur during the winter months. This estimated indoor water use is then used to determine the total yearly indoor use.

When the above method does not yield a reasonable value for indoor use, the indoor use per capita water use for a system can be estimated by using an equation that was developed in a detailed residential study, “Identifying Residential Water Use”, completed by the DWRe in 2001. The mathematical equation that was developed for per capita indoor water is as follows:

\[ \text{GPCD}_{\text{Indoor}} = \frac{90.3}{P_{PH}} + 42.3 \]

Where:

\[ \text{GPCD}_{\text{Indoor}} = \text{Gallons per Capita Day (per capita indoor water use)} \]
\[ P_{PH} = \text{Persons per Household (US Census Bureau)} \]

The total yearly indoor water use is then calculated for the system by multiplying the result of the above equation by the current population. Outdoor culinary water use can then be estimated by subtracting the total yearly indoor water use from the given total residential culinary water use.

Because very few entities meter secondary outdoor water use, the DWRe staff estimates the outdoor secondary water use by using the average lot size, percent irrigated, percent of residences that are supplied by separate secondary (pressurized and ditch) irrigation systems, water right-duty rates (volume of water required for turf growth) in the area, and other related information for each system. In determining residential secondary use, care is taken to not include irrigation water use for small pastures or farm fields that can often be found adjacent to residences, particularly in rural communities.
Commercial Use

For most systems, the system operator can separate metered commercial water use data from the total water use. In cases where this data is not available or is extremely difficult to obtain, the DWRe staff attempts to estimate commercial water use by inventorying commercial businesses in the area and using published commercial water use estimates. The DDW and the Utah State Water Lab, among others, publish these estimates. In some rural communities where there are a relatively small number of commercial connections, the businesses are visited individually by DWRe staff and asked about their water use.

Some commercial facilities use secondary water to irrigate outside landscapes. This is especially typical for commercial golf courses. As is this cases many times, secondary water is not metered. The DWRe staff estimates this use by multiplying the size of the irrigated area by a water right-duty rate or the evapotranspiration rate (ET). The ET indicates the amount of water, in inches, necessary for turf growth.

Institutional Use

Institutional water use is water used for city, county, state and federal government facilities, parks, municipal golf courses, schools, hospitals, churches, military facilities, as well as fire hydrant testing and other municipal losses in the water system. Because this water use is often not metered, the process to acquire this data is difficult. Again, the system operator is asked to provide information about city facilities such as the number and size (irrigated acreage) of parks, schools, churches, and municipal golf courses. Water right-duty rates (and/or the ET) are used to calculate the amount of water is used to irrigate these areas. Estimates of leakage and water use for testing of water system facilities and are also included in this category.
Industrial Use

Industrial water use is defined as water used in the production of a product. Therefore, such commercial establishments as dairies, mink farms, and greenhouses, as well as stockwatering, are included in this category, provided a community water system serves them. Industrial water use within community water systems is acquired with the same process used to obtain commercial water use data discussed earlier.

Present Methodology for Non-Community Water Systems

DWRe staff attempts to contact each non-community system and/or make a personal visit to these systems. Non-community systems rarely meter their water use, so DWRe staff estimate their annual water use. Questions are asked to determine the type of facility, population served, water source information, irrigation of outside areas, etc. This data, along with information found in water-related publications, is used to determine water use. The maximum and reliable water supplies for these systems are often not available and are not in the scope of this study.

Present Methodology for Self-Supplied Industrial Water Systems

Although self-supplied industries are included in the Non-Community Water Systems category as defined by the DDW, the DWRe has separated them into their own category due to their importance. The category is equivalent to the DDW’s Non-Community, Non-Transient category.

Water use is acquired for self-supplied industries by using data from the DWRi’s Industrial Water Use Form and/or electronically submitted data. The DWRi collects annual water use data from most of the major self-supplied industrial water users in the state. This data is confidential. Therefore, the data presented in this M&I study is only
given as county totals. As with other non-community systems, the maximum and reliable water supplies are often not available and are not in the scope of this study.

**Present Methodology for Private Domestic Water Systems**

Private domestic systems are residences that are not connected to any public community or non-community water system. They are usually supplied by individual wells. To determine the water use data for this category, the population of those served by private domestic systems is estimated. This population is estimated by subtracting the population served by community water systems from the county population data acquired from the Governor’s Office of Planning and Budget (GOPB). The remainder is assumed to be the population that is served by private domestic systems. The per capita water use rate for this category is assumed to be the same as the per capita water use rate for the public community system residential category for that county. To determine the total water use by private domestic systems, the estimated population is then multiplied by this rate. Again, the maximum and reliable water supplies for private wells are not in the scope of this study.
DEFINITIONS OF WATER TERMS

Water Supply Terms

Water is supplied by a variety of systems for many users. The general term supply is defined as the amount of water available. Municipalities own most of the individual water supply systems. However, in some cases the owner/operator is a private company or a state or federal agency. Thus, a "public" water supply may be either publicly or privately owned. Also, systems may supply treated or untreated water. Following are definitions of some terms used in this study:

Maximum Potable Water Supply - The annual volume of potable (culinary) water which is the lesser of the hydrologic capacity of the water source, the physical capacity of the water system, or the amount allowed by the collective water rights.

Reliable Potable Water Supply - The annual quantity of the maximum water supply that is available to meet peak demands. This is generally calculated as 100% of the maximum supply from surface water sources, 50% of the maximum yield of wells, and between 50% and 100% of the average annual spring flows. When this number is divided by the average per capita usage, the resulting number represents the theoretical maximum population that the water source can serve.

Municipal and Industrial (M&I) Water Supply - Includes all water (potable and non-potable) supplied for residential, commercial, institutional, light industry, and self-supplied industries. This supply is delivered by public community systems, public non-community (transient and non-transient) systems, self-supplied industrial systems, unregulated Indian water systems and private wells.
**Potable Water Supply** – Includes water meeting all applicable safe drinking water requirements for residential, commercial, institutional and industrial uses. It is sometimes referred to as culinary, or municipal, water supply.

**Public Community Water Supply** - Includes potable and non-potable water supplied by either privately or publicly owned community systems which serve at least 15 service connections or 25 individuals year round. Water from public community supplies may be used for both indoor and outdoor uses for residential, commercial, institutional, and industrial purposes.

**Public Non-Community Water Supply** - Includes potable and non-potable water supplied by either privately or publicly owned systems of two types: transient and non-transient. Transient systems are systems that do not serve 25 of the same non-resident persons per day for more than six months per year. Examples include campgrounds, RV parks, restaurants, convenience stores, etc. Non-transient systems are systems that regularly serve 25 of the same non-resident persons per day for more than six months per year. Examples include churches, schools and industries. This report lists the industrial non-transient systems as self-supplied industries.

**Secondary Water Supply** – Includes water not meeting safe drinking water requirements. Sometimes referred to as non-potable (non-culinary) water supply. This water is usually delivered by pressurized or open ditch water supply systems for irrigation of privately and publicly owned landscapes, gardens, parks, cemeteries, golf courses and other open areas. These systems, sometimes called "dual" water systems, are installed to provide an alternative to irrigating with culinary water for these outdoor areas. Irrigation companies often provide this water. However, some public community water systems may deliver this water as well. Self-supplied industries may also use secondary water for industrial processes.
**Self-Supplied Industrial Supply** - Includes potable and non-potable water supplied by individual privately owned industries (usually from their own wells or springs). This category is the equivalent of the Utah Division of Drinking Water’s (DDW) Non-Community, Non-Transient systems category.

**Water Use Terms**

Water is used in a variety of ways and for many purposes. It is often said that water is "used" when it is diverted, demanded, withdrawn, depleted or consumed. But it is also "used" in place for such things as fish and wildlife habitat, recreation and hydropower production. **Water use in this report is defined as “diverted” water.** However, a table that includes the basin’s municipal and industrial water depletions is provided in Appendix E.

In most of the previous water supply terms the word “use” can be inserted where the word “supply” is written to define the current demand associated with those definitions. Some additional water use terms are as follows:

**Commercial Use** - Use normally associated with small business operations that may include drinking water, food preparation, personal sanitation, facility cleaning and maintenance and irrigation of facility landscapes. Examples include retail businesses, restaurants and hotels.

**Industrial Use** - Use associated with the manufacturing or production of products. The volume of water used by industrial businesses can be considerably greater than water used by commercial businesses. Examples include manufacturing plants, oil and gas producers, mining companies, mink farms and dairies.
Institutional Use - Use normally associated with general operation of various public agencies and institutions (i.e. schools, municipal buildings, churches) including drinking water, personal sanitation, facility cleaning and maintenance and irrigation of parks, cemeteries, playgrounds, recreational areas, golf courses, and other facilities. The amount of water used by cities for outside irrigation of public areas typically is not metered.

Municipal and Industrial (M&I) Use - Use includes all residential, commercial, institutional, and industrial uses. It includes total uses (potable and non-potable) supplied by public water systems (community and non-community), self-supplied industries, private domestic systems, and secondary irrigation companies.

Private Domestic Use – Use includes water from private wells or springs for use in individual homes, usually in rural areas not accessible to public community water systems.

Residential Use - Use associated with residential cooking, drinking water, washing clothes, miscellaneous cleaning, personal grooming and sanitation, irrigation of lawns, gardens and landscapes, and washing automobiles, driveways and other outside residential facilities. Examples include single-family homes, apartments, duplexes and condominiums.

Other Water Terms

Consumption - Water evaporated, transpired or irreversibly bound in either a physical, chemical or biological process. Consumed water results in a loss of the original water supplied.
Consumptive Use - Losses of water brought about by human endeavors when used for residential, commercial, institutional, industrial, agricultural, power generation, and recreation. Naturally occurring vegetation and fish and wildlife also consumptively use water.

Depletion - Water consumed and made unavailable for return to a given designated area, river system or basin. It is intended to represent the net loss to a system. The terms consumption and depletion are often used interchangeably but are not the same. For example, water exported from a basin is depletion from the basin system but is not consumed in the basin. The exported water is available for use (consumption) in another basin or system. Water diverted to irrigate crops in a given system, but not returned for later use, is depletion. Precipitation that falls on irrigated crops is not considered a part of the supply like surface water and groundwater diversions. For this reason, precipitation falling on and consumed by irrigated crops is not considered as being depletion from the system.

Diversion - Water diverted from supply sources such as streams, lakes, reservoirs or groundwater for a variety of purposes, including cropland irrigation, as well as residential, commercial, institutional and industrial uses.

Withdrawal - Water withdrawn from supply sources such as lakes, streams, reservoirs or groundwater. This term is normally used in association with groundwater withdrawal. The terms diversion and withdrawal are often used interchangeably. Water use as presented in this report deals with diversions.
WATER RIGHTS IN THE UTAH LAKE BASIN

Starting with the Morse Decree of 1901, the waters of the Utah Lake Basin began to be legally quantified and regulated as a whole. The Morse Decree defined the water rights on the Jordan River with respect to each other. Soon following, the Booth Decree of 1909 addressed water supply in both the Utah Lake and the Jordan River by allowing additional appropriations of water from Utah Lake and setting a maximum diversion of 185,000 acre feet of water annually from the storage rights set forth in the Morse Decree.

In 1921, the Provo River Decree was issued dividing the Provo River System into two divisions and classifying most of the then current water rights. The Provo Division, which includes all the area below near the head of Provo Canyon, subdivided its water rights, by priority of date issued, into Classes A through J. The Wasatch Division, which includes all the area above the Provo Division, subdivided its water rights, by date priority, into Classes First (1st) through Twentieth (20th), and “Wasatch Division Power Rights”.

In 1989 there were seven memorandum decisions issued by the State Engineer regarding change applications for the Welby and Jacob districts of the Provo River Project. These decisions made it possible for the then Salt Lake County Water Conservancy District (now entitled Jordan Valley Water Conservancy District) to transfer high quality Provo River water from the Utah Lake Basin for use in Salt Lake County. The water supply for the Welby and Jacob districts was replaced under both primary and secondary storage rights in Utah Lake.

In 2004 a Record of Decision was issued by the Federal Bureau of Reclamation authorizing the Utah Lake Water Delivery System (ULS) to deliver 30,000 acre feet of M&I water to northern Utah County communities. This water was made available
through numerous negotiations, planning and scoping meetings, all in cooperation with the Bureau of Reclamation’s Central Utah Project (CUP), since the ULS was first announced in 1998. Design of the project is expected to begin in 2006, with construction estimated at ten years for completion. The ULS will be the final component of the Bonneville Unit of the CUP.

Between 1992 and 2006, there have been several water management plans issued by the State Engineer for most areas of the Utah Lake Basin. These plans include the Proposed Determination of Water Rights books published beginning in 1976 for Spanish Fork Canyon, Palmyra-Lake Shore and Hobble Creek-Springville areas, the Goshen Valley, Cedar Valley, Round Valley, the American Fork River, and the Pleasant Grove subdivision. The 1992 Utah Lake Interim Water Distribution Plan outlined the general surface water source and storage use and capacities of the basin. The 1995 Utah/Goshen Valley Ground-Water Management Plan outlines the available groundwater resources, current and proposed uses, as well as a categorical percentage breakdown of well pumpage.

To date and into the foreseeable future, all supplies of both surface and ground water are considered to be fully appropriated. However, some non-consumptive uses such as hydroelectric power generation will be considered on a per project basis.
JUAB COUNTY M&I WATER SUPPLIES AND USES

Only the extreme northeast portion of Juab County lies within the Utah Lake Basin. Within this portion of Juab County are the communities of Mona, Nephi, and Rocky Ridge Town. There are the mentioned three public communities with their own water systems, two public non-community water systems, and two self-supplied industries in the county. Locations of the public water systems are shown in Figure 3 on page 9.

Shown in the following Table 1, the maximum annual potable water supply of the public community water systems in Juab County is 4,703 acre-feet: 1,934 acre-feet from springs and 2,769 acre-feet from wells. There are no surface supplies of water utilized in this portion of Juab County.

<table>
<thead>
<tr>
<th>WATER SUPPLIER</th>
<th>Springs (Ac-Ft/Yr)</th>
<th>Wells (Ac-Ft/Yr)</th>
<th>Surface (Ac-Ft/Yr)</th>
<th>Total (Ac-Ft/Yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mona</td>
<td>316.2</td>
<td>348.0</td>
<td>0.0</td>
<td>664.2</td>
</tr>
<tr>
<td>Nephi</td>
<td>1,618.0</td>
<td>2,300.0</td>
<td>0.0</td>
<td>3,918.0</td>
</tr>
<tr>
<td>Rocky Ridge Town</td>
<td>0.0</td>
<td>121.1</td>
<td>0.0</td>
<td>121.1</td>
</tr>
<tr>
<td><strong>JUAB COUNTY TOTALS</strong></td>
<td><strong>1,934.2</strong></td>
<td><strong>2,769.1</strong></td>
<td><strong>0.0</strong></td>
<td><strong>4,703.3</strong></td>
</tr>
</tbody>
</table>

Note: All values represent maximum system source capacities limited by water rights, hydrologic constraints, and/or system constraints.

The reliable annual potable water supply for public community systems in Juab County is 2,775 acre-feet, about sixty percent of the maximum supply. The breakdown of this supply is presented in the following Table 2.
TABLE 2
JUAB COUNTY
Reliable Potable Water Supplies for Public Community Systems
(Acre-Feet/Year)

<table>
<thead>
<tr>
<th>WATER SUPPLIER</th>
<th>SPRINGS</th>
<th>WELLS</th>
<th>SURFACE</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mona</td>
<td>185.7</td>
<td>348.0</td>
<td>0.0</td>
<td>533.7</td>
</tr>
<tr>
<td>Nephi</td>
<td>970.0</td>
<td>1,150.0</td>
<td>0.0</td>
<td>2,120.0</td>
</tr>
<tr>
<td>Rocky Ridge Town</td>
<td>0.0</td>
<td>121.1</td>
<td>0.0</td>
<td>121.1</td>
</tr>
<tr>
<td>JUAB COUNTY TOTALS</td>
<td>1,155.7</td>
<td>1,619.1</td>
<td>0.0</td>
<td>2,774.8</td>
</tr>
</tbody>
</table>

Note: All values represent reliable supplies (9 out of 10 years) adjusted for meeting peak day demands from the maximum system source capacities which are limited by water rights, hydrologic constraints, and/or physical system constraints.

Table 3, on the next page, is a breakdown of the potable water use for each of the public community water systems. The table shows a total annual potable water use of 1,693 acre-feet for all the public community water systems of the county. This current annual use is just over sixty percent of the reliable water supply.
### TABLE 3
**JUAB COUNTY**
**WATER USE FOR PUBLIC COMMUNITY SYSTEMS**

<table>
<thead>
<tr>
<th>WATER SUPPLIER</th>
<th>Residential Indoor</th>
<th>Residential Outdoor</th>
<th>Commercial Total</th>
<th>Institutional Total</th>
<th>Industrial Total</th>
<th>Total M &amp; I</th>
<th>Service Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mona</td>
<td>73.6</td>
<td>116.0</td>
<td>5.0</td>
<td>15.0</td>
<td>0.0</td>
<td><strong>209.6</strong></td>
<td>925</td>
</tr>
<tr>
<td>Nephi</td>
<td>405.8</td>
<td>580.0</td>
<td>5.0</td>
<td>100.0</td>
<td>350.0</td>
<td><strong>1,440.8</strong></td>
<td>5,175</td>
</tr>
<tr>
<td>Rocky Ridge Town</td>
<td>23.2</td>
<td>15.5</td>
<td>0.6</td>
<td>3.0</td>
<td>0.7</td>
<td><strong>43.0</strong></td>
<td>300</td>
</tr>
<tr>
<td><strong>JUAB COUNTY TOTALS</strong></td>
<td><strong>502.6</strong></td>
<td><strong>711.5</strong></td>
<td><strong>10.6</strong></td>
<td><strong>118.0</strong></td>
<td><strong>350.7</strong></td>
<td><strong>1,693.4</strong></td>
<td><strong>6,400</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

B, C, D, E, F, and H  
G=B+C+D+E+F  
J=G*(325,851 gallons per acre-foot)/(365 days per year)/H  

These values are all input data.  
This value represents only Potable M&I Water Use.  
Average per capita potable water use.
Secondary or non-potable water is another important aspect of municipal and industrial (M&I) water use. The following Table 4 gives the annual amount of secondary water used for the various categorical uses within the boundaries of each of the public community water systems. Each of the communities operates their own secondary water system. Total secondary water use for the public community water systems is 470 acre-feet per year.

### TABLE 4
**JUAB COUNTY**
Secondary (Non-Potable) Water Use Within Public Community Systems
(Acre-Feet/Year)

<table>
<thead>
<tr>
<th>JUAB COUNTY WATER SUPPLIER</th>
<th>Residential Use (Ac-Ft/Yr)</th>
<th>Commercial Use (Ac-Ft/Yr)</th>
<th>Institutional Use (Ac-Ft/Yr)</th>
<th>Industrial/Stockwater Use (Ac-Ft/Yr)</th>
<th>Total Secondary Use (Ac-Ft/Yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mona</td>
<td>120.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>120.0</td>
</tr>
<tr>
<td>Nephi</td>
<td>300.0</td>
<td>0.0</td>
<td>50.0</td>
<td>0.0</td>
<td>350.0</td>
</tr>
<tr>
<td>Rocky Ridge Town</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>JUAB COUNTY TOTALS</strong></td>
<td><strong>420.0</strong></td>
<td><strong>0.0</strong></td>
<td><strong>50.0</strong></td>
<td><strong>0.0</strong></td>
<td><strong>470.0</strong></td>
</tr>
</tbody>
</table>
Various per capita water use rates for the public community water systems are given in the following Table 5.

### Table 5

**JUAB COUNTY**

**Average Per Capita M&I Water Use for Public Community Systems**

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>Average Per Capita Use (Ac-Ft/Yr)</th>
<th>Average Per Capita Use (GPCD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential Potable Use</td>
<td>0.190</td>
<td>169</td>
</tr>
<tr>
<td>Residential Potable Plus Secondary Use</td>
<td>0.255</td>
<td>228</td>
</tr>
<tr>
<td>Total Potable Use</td>
<td>0.265</td>
<td>236</td>
</tr>
<tr>
<td>Total Potable Plus Secondary Use</td>
<td>0.338</td>
<td>302</td>
</tr>
</tbody>
</table>

Note: Total Potable categories include residential, commercial, institutional and industrial uses.

*Table 6,* on the following page, shows the water use for public non-community system and private domestic systems. There are two self-supplied industries and several private domestic wells. Collectively, these water systems annually use 212 acre-feet of potable water use and 190 acre-feet of secondary water use.
TABLE 6
JUAB COUNTY
Water Use for Public Non-Community Systems,
Self-Supplied Industries and Private Domestic Systems

<table>
<thead>
<tr>
<th>JUAB COUNTY WATER SUPPLIER</th>
<th>POTABLE USAGE (Ac-Ft/Yr)</th>
<th>Total Secondary Water Use (Ac-Ft/Yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Residential Use</td>
<td>Commercial Use</td>
</tr>
<tr>
<td>Forest Service Systems:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bear Canyon Campground</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Ponderosa Campground</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Non-Community Sub-Total</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Self-Supplied Industries¹</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Private Domestic Systems</td>
<td>200.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>JUAB COUNTY TOTALS</strong></td>
<td>200.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

¹Includes Ash Grove Cement West, Inc. and Spring Canyon Energy, LLC

The combined total potable M&I water use of all categories of water systems in the county is 1,905 acre-feet, while secondary water use is 660 acre-feet; giving an overall total M&I water use of 2,565 acre-feet. With the 2003 population of Juab County at about 7,000, the total M&I per capita use for all water systems is then 327 gallons per capita per day. See Appendix A for more detailed data on each public community water system that is presented in the tables.
SUMMIT COUNTY M&I WATER SUPPLIES AND USES

The extreme northeast corner of the Utah Lake Basin encompasses a small part of Summit County and includes the communities of Francis and Woodland. In addition to these two public communities, there are six public non-community systems, but no self-supplied industries. The locations of most of these systems in Summit County are shown in Figure 3 on page 9. Appendix B contains a detailed description of each of these public community water systems.

Table 7 shows that the maximum annual potable water supply for public community systems in Summit County is 700 acre-feet: 388 acre-feet from springs and 312 acre-feet from wells. Currently, there are no developed surface supplies of potable water in Summit County.

<table>
<thead>
<tr>
<th>WATER SUPPLIER</th>
<th>Springs (Ac-Ft/Yr)</th>
<th>Wells (Ac-Ft/Yr)</th>
<th>Surface (Ac-Ft/Yr)</th>
<th>TOTAL (Ac-Ft/Yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Francis Town Water System</td>
<td>344.0</td>
<td>294.0</td>
<td>0.0</td>
<td>638.0</td>
</tr>
<tr>
<td>Woodland Mutual Water Co.</td>
<td>44.2</td>
<td>17.6</td>
<td>0.0</td>
<td>61.8</td>
</tr>
<tr>
<td>SUMMIT COUNTY TOTALS</td>
<td>388.2</td>
<td>311.6</td>
<td>0.0</td>
<td>699.8</td>
</tr>
</tbody>
</table>

Note: All values represent maximum system source capacities limited by water rights, hydrologic constraints, and/or system constraints.
The reliable potable water supply for public community systems in Summit County is 401 acre-feet or about 57 percent of the maximum annual water supply. The breakdown of this supply is presented in the following Table 8.

### TABLE 8
**SUMMIT COUNTY**
**Reliable Potable Water Supplies for Public Community Systems**
**(Acre-Feet/Year)**

<table>
<thead>
<tr>
<th>WATER SUPPLIER</th>
<th>Springs (Ac-Ft/Yr)</th>
<th>Wells (Ac-Ft/Yr)</th>
<th>Surface (Ac-Ft/Yr)</th>
<th>TOTAL (Ac-Ft/Yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Francis Town Water System</td>
<td>176.6</td>
<td>172.0</td>
<td>0.0</td>
<td>348.6</td>
</tr>
<tr>
<td>Woodland Mutual Water Co.</td>
<td>44.2</td>
<td>8.4</td>
<td>0.0</td>
<td>52.6</td>
</tr>
<tr>
<td><strong>SUMMIT COUNTY TOTALS</strong></td>
<td><strong>220.8</strong></td>
<td><strong>180.4</strong></td>
<td><strong>0.0</strong></td>
<td><strong>401.2</strong></td>
</tr>
</tbody>
</table>

**Note:** All values represent reliable supplies (9 out of 10 years) adjusted for meeting peak day demands from the maximum system source capacities which are limited by water rights, hydrologic constraints, and/or physical system constraints.

Table 9 shows a breakdown of the potable water use for each public community system. This table shows that for Summit County the current annual potable water use of public community water systems is 246 acre-feet, about 61 percent of the current reliable annual potable water supply.
# TABLE 9
## SUMMIT COUNTY
### WATER USE FOR PUBLIC COMMUNITY SYSTEMS

<table>
<thead>
<tr>
<th>UTAH COUNTY WATER SUPPLIER</th>
<th>POTABLE USAGE (Ac-Ft/Yr)</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th>Service Population</th>
<th>Gallons Per Capita Per Day</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Residential Indoor</td>
<td>Residential Outdoor</td>
<td>Commercial Total</td>
<td>Institutional Total</td>
<td>Industrial Total</td>
<td>Total M &amp; I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Francis Town Water System</td>
<td>52.6</td>
<td>100.0</td>
<td>0.5</td>
<td>20.0</td>
<td>0.0</td>
<td>173.1</td>
<td>690</td>
<td>224.0</td>
</tr>
<tr>
<td>Woodland Mutual Water Co.</td>
<td>16.7</td>
<td>40.1</td>
<td>6.1</td>
<td>5.0</td>
<td>5.0</td>
<td>72.9</td>
<td>200</td>
<td>325.4</td>
</tr>
<tr>
<td><strong>SUMMIT COUNTY TOTALS</strong></td>
<td><strong>69.3</strong></td>
<td><strong>140.1</strong></td>
<td><strong>6.6</strong></td>
<td><strong>25.0</strong></td>
<td><strong>5.0</strong></td>
<td><strong>246.0</strong></td>
<td><strong>890</strong></td>
<td><strong>246.8</strong></td>
</tr>
</tbody>
</table>

A, B, C, D, E, F, and H

G = B + C + D + E + F

J = G * (325,851 gallons per acre-foot) / (365 days per year) / H

These values are all input data.

This value represents only Potable M & I Water Use.

Average per capita potable water use.
Secondary water is another important aspect of municipal and industrial (M&I) water use. **Table 10** gives the annual amount of secondary water used for various categorical uses within the boundaries of the public community systems. In the town of Francis, three separate irrigation companies provide secondary water to customers within the community. Woodland Mutual Water Company supplies both culinary and secondary water to the town of Woodland. Total secondary water use for the public community water systems is 65 acre-feet.

**TABLE 10**  
**SUMMIT COUNTY**  
**SECONDARY WATER USE WITHIN PUBLIC COMMUNITY SYSTEMS**  
**(Acre-Feet/Year)**

<table>
<thead>
<tr>
<th>WATER SUPPLIER</th>
<th>Residential Use (Ac-Ft/Yr)</th>
<th>Commercial Use (Ac-Ft/Yr)</th>
<th>Institutional Use (Ac-Ft/Yr)</th>
<th>Industrial/Stockwater Use (Ac-Ft/Yr)</th>
<th>Total Secondary Use (Ac-Ft/Yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Francis Town Water System</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Washington Irrigation Co.</td>
<td>30.0</td>
<td>0.0</td>
<td>10.0</td>
<td>0.0</td>
<td>40.0</td>
</tr>
<tr>
<td>South Kamas Irrigation Co.</td>
<td>10.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>10.0</td>
</tr>
<tr>
<td>Beaver-Shingle Creek Irrig. Co.</td>
<td>10.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>10.0</td>
</tr>
<tr>
<td>Woodland Mutual Water Co.*</td>
<td>5.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>5.0</td>
</tr>
<tr>
<td>SUMMIT COUNTY TOTALS</td>
<td>55.0</td>
<td>0.0</td>
<td>10.0</td>
<td>0.0</td>
<td>65.0</td>
</tr>
</tbody>
</table>

Note: Separate irrigation companies provide secondary water to the water supplier unless indicated by an “*”. 
Various per capita rates for the public community systems of Summit County are shown in the following Table 11. Appendix B shows further detail of the data for each public community system that is presented in the tables.

### TABLE 11
SUMMIT COUNTY
Average Per Capita M&I Water Use for Public Community Systems

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>Average Per Capita Use (Ac-Ft/Yr)</th>
<th>Average Per Capita Use (GPCD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential Potable Use</td>
<td>0.235</td>
<td>210</td>
</tr>
<tr>
<td>Residential Potable Plus Secondary Use</td>
<td>0.297</td>
<td>265</td>
</tr>
<tr>
<td>Total Potable Use</td>
<td>0.276</td>
<td>247</td>
</tr>
<tr>
<td>Total Potable Plus Secondary Use</td>
<td>0.349</td>
<td>312</td>
</tr>
</tbody>
</table>

Note: Total Potable categories include residential, commercial, institutional and industrial uses.

Table 12, on the following page, shows the annual water use for public non-community systems, self-supplied industries, and private domestic systems. The total water use of these water systems is 14 acre-feet of potable water and 10 acre-feet of secondary water use.
Total potable M&I water use for all categories of water systems in the county is then 260 acre-feet, while non-potable use is 75 acre-feet. The overall total annual M&I water use is then 335 acre-feet. With the 2003 population of this portion of Summit County at about 920 people, the combined M&I per capita water use of all water systems for the county is then 325 gallons per capita per day.
UTAH COUNTY M&I WATER SUPPLIES AND USES

With the exception of the southeast tip of Utah County, the county is entirely contained within the Utah Lake Basin. Additionally, the county comprises most of the land area of the basin. Within Utah County there are 35 community water systems, 41 non-community water systems, 10 self-supplied industries and over 4000 private wells. Locations of most of these systems are shown in Figure 3 on page 9. Appendix C contains a detailed description of the public community water systems.

Table 13, on the following page, shows that the maximum annual potable water supply for public community systems in Utah County is 322,407 acre-feet; 49,284 acre-feet from springs, 154,423 acre-feet from wells, and 118,700 acre-feet from surface supplies. Additional future supplies are anticipated to be over 70,000 acre-feet, bringing total future supplies to almost 400,000 acre-feet annually.

The reliable potable water supply for Utah County is currently figured to be about 152,575 acre-feet. Table 14 on page 43 indicates that of this total, 32,215 acre-feet are from springs, 91,010 acre-feet from wells, and 29,350 acre-feet from surface supplies. The reliability of the additional future supplies is not yet known.

Following, Table 15 on pages 44 and 45 shows a breakdown of the total potable water use for each public community water system. The table indicates that for Utah County the current annual potable water use for public community water systems is 95,268 acre-feet. This current annual use is about sixty-two percent of the estimated reliable water supply.
### TABLE 13
**UTAH COUNTY**
Maximum Potable Water Supplies for Public Community Systems
(Acre-Feet/Year)

<table>
<thead>
<tr>
<th>WATER SUPPLIER</th>
<th>Springs (Ac-Ft/Yr)</th>
<th>Wells (Ac-Ft/Yr)</th>
<th>Surface (Ac-Ft/Yr)</th>
<th>Total (Ac-Ft/Yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alpine</td>
<td>2,172.0</td>
<td>2,845.3</td>
<td>0.0</td>
<td>5,017.3</td>
</tr>
<tr>
<td>Alpine Cove Water SSD</td>
<td>0.0</td>
<td>91.2</td>
<td>0.0</td>
<td>91.2</td>
</tr>
<tr>
<td>American Fork City</td>
<td>2,000.0</td>
<td>31,000.0</td>
<td>0.0</td>
<td>33,000.0</td>
</tr>
<tr>
<td>Bradford Acres Water Assoc.</td>
<td>0.0</td>
<td>83.9</td>
<td>0.0</td>
<td>83.9</td>
</tr>
<tr>
<td>Cedar Fort</td>
<td>362.0</td>
<td>0.0</td>
<td>0.0</td>
<td>362.0</td>
</tr>
<tr>
<td>Cedar Hills</td>
<td>0.0</td>
<td>858.0</td>
<td>0.0</td>
<td>858.0</td>
</tr>
<tr>
<td>Central Utah WCD - Utah Valley(^1)</td>
<td>0.0</td>
<td>0.0</td>
<td>89,600.0</td>
<td>89,600.0</td>
</tr>
<tr>
<td>Covered Bridge Canyon</td>
<td>0.0</td>
<td>98.0</td>
<td>0.0</td>
<td>98.0</td>
</tr>
<tr>
<td>Eagle Mountain Town</td>
<td>0.0</td>
<td>1,145.4</td>
<td>0.0</td>
<td>1,145.4</td>
</tr>
<tr>
<td>Elberta</td>
<td>0.0</td>
<td>50.8</td>
<td>0.0</td>
<td>50.8</td>
</tr>
<tr>
<td>Elk Ridge</td>
<td>0.0</td>
<td>1,071.4</td>
<td>0.0</td>
<td>1,071.4</td>
</tr>
<tr>
<td>Fairfield Irrigation Company</td>
<td>96.7</td>
<td>0.0</td>
<td>0.0</td>
<td>96.7</td>
</tr>
<tr>
<td>Genola</td>
<td>0.0</td>
<td>871.0</td>
<td>0.0</td>
<td>871.0</td>
</tr>
<tr>
<td>Gooseneast Water Company</td>
<td>43.6</td>
<td>84.9</td>
<td>0.0</td>
<td>128.5</td>
</tr>
<tr>
<td>Goshen</td>
<td>645.2</td>
<td>0.0</td>
<td>0.0</td>
<td>645.2</td>
</tr>
<tr>
<td>Hidden Creek Water Company</td>
<td>0.0</td>
<td>724.0</td>
<td>0.0</td>
<td>724.0</td>
</tr>
<tr>
<td>Highland Water Company</td>
<td>0.0</td>
<td>5,645.5</td>
<td>0.0</td>
<td>5,645.5</td>
</tr>
<tr>
<td>Lehi</td>
<td>524.2</td>
<td>3,903.5</td>
<td>0.0</td>
<td>4,427.7</td>
</tr>
<tr>
<td>Lindon</td>
<td>204.9</td>
<td>5,532.6</td>
<td>0.0</td>
<td>5,737.5</td>
</tr>
<tr>
<td>Manila Culinary Water Company</td>
<td>282.4</td>
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<td>0.0</td>
<td>1,838.6</td>
</tr>
<tr>
<td>Mapleton</td>
<td>1,903.3</td>
<td>4,718.0</td>
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<td>6,621.3</td>
</tr>
<tr>
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<td>0.0</td>
<td>17,350.0</td>
<td>17,350.0</td>
</tr>
<tr>
<td>Metropolitan Water District of Provo(^3)</td>
<td>300.0</td>
<td>150.0</td>
<td>8,750.0</td>
<td>9,200.0</td>
</tr>
<tr>
<td>North Fork SSD</td>
<td>620.8</td>
<td>0.0</td>
<td>0.0</td>
<td>620.8</td>
</tr>
<tr>
<td>Orem City</td>
<td>2,984.0</td>
<td>18,306.0</td>
<td>0.0</td>
<td>21,290.0</td>
</tr>
<tr>
<td>Payson</td>
<td>1,500.0</td>
<td>5,800.0</td>
<td>0.0</td>
<td>7,300.0</td>
</tr>
<tr>
<td>Pleasant Grove City</td>
<td>1,500.0</td>
<td>13,000.0</td>
<td>0.0</td>
<td>14,500.0</td>
</tr>
<tr>
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<td>37,500.0</td>
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<td>52,500.0</td>
</tr>
<tr>
<td>Salem</td>
<td>905.0</td>
<td>2,235.8</td>
<td>0.0</td>
<td>3,140.8</td>
</tr>
<tr>
<td>Santaquin City</td>
<td>1,500.0</td>
<td>1,600.0</td>
<td>0.0</td>
<td>3,100.0</td>
</tr>
<tr>
<td>Saratoga Spring Municipal</td>
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<td>905.0</td>
</tr>
<tr>
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<td>14,698.0</td>
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<tr>
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<td>206.5</td>
<td>0.0</td>
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<td>206.5</td>
</tr>
<tr>
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<td><strong>154,423.3</strong></td>
<td><strong>118,700.0</strong></td>
<td><strong>322,406.8</strong></td>
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</tbody>
</table>

**Notes:**

1. The supply shown is the current design capacity of the treatment plant (expandable to 112,000). Current plant deliveries total about 24,250 acre feet. Additional future supplies include 30,000 acre feet from the Utah Lake System and 42,000 acre feet of recently purchased water rights from the former Geneva Steel site.

2. Metropolitan Water District of Orem wholesales water to Orem City. The supply shown is their current Provo River water rights.

3. Metropolitan Water District of Provo wholesales water to Provo City. The supply shown is their current total water rights.

4. All values represent maximum system source capacities limited by water rights, hydrologic constraints, and/or system constraints.
<table>
<thead>
<tr>
<th>WATER SUPPLIER</th>
<th>Springs (Ac-Ft/Yr)</th>
<th>Wells (Ac-Ft/Yr)</th>
<th>Surface (Ac-Ft/Yr)</th>
<th>TOTAL (Ac-Ft/Yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alpine</td>
<td>2,172.0</td>
<td>1,629.2</td>
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<td>3,801.2</td>
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<tr>
<td>Alpine Cove Water SSD</td>
<td>0.0</td>
<td>91.2</td>
<td>0.0</td>
<td>91.2</td>
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<tr>
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<tr>
<td>Bradford Acres Water Assoc</td>
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<td>83.9</td>
<td>0.0</td>
<td>83.9</td>
</tr>
<tr>
<td>Cedar Fort</td>
<td>227.5</td>
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<td>0.0</td>
<td>227.5</td>
</tr>
<tr>
<td>Cedar Hills</td>
<td>0.0</td>
<td>858.0</td>
<td>0.0</td>
<td>858.0</td>
</tr>
<tr>
<td>Central Utah WCD - Utah Valley ²</td>
<td>0.0</td>
<td>0.0</td>
<td>13,300.0</td>
<td>13,300.0</td>
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<tr>
<td>Covered Bridge Canyon</td>
<td>0.0</td>
<td>98.0</td>
<td>0.0</td>
<td>98.0</td>
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<tr>
<td>Eagle Mountain Town</td>
<td>0.0</td>
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<td>0.0</td>
<td>1,145.4</td>
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<tr>
<td>Elberta</td>
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<td>50.8</td>
<td>0.0</td>
<td>50.8</td>
</tr>
<tr>
<td>Elk Ridge</td>
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<td>920.0</td>
<td>0.0</td>
<td>920.0</td>
</tr>
<tr>
<td>Fairfield Irrigation Company</td>
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<td>0.0</td>
<td>96.7</td>
</tr>
<tr>
<td>Genola</td>
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<td>435.5</td>
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<td>Gooseneast Water Company</td>
<td>43.6</td>
<td>84.9</td>
<td>0.0</td>
<td>128.5</td>
</tr>
<tr>
<td>Goshen</td>
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<td>387.1</td>
</tr>
<tr>
<td>Hidden Creek Water Company</td>
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<td>0.0</td>
<td>724.0</td>
</tr>
<tr>
<td>Highland Water Company</td>
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<td>0.0</td>
<td>2,823.0</td>
</tr>
<tr>
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<td>1,952.0</td>
<td>0.0</td>
<td>2,476.2</td>
</tr>
<tr>
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<td>2,766.3</td>
<td>0.0</td>
<td>2,889.3</td>
</tr>
<tr>
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<td>898.1</td>
</tr>
<tr>
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<td>8,675.0</td>
<td>8,675.0</td>
</tr>
<tr>
<td>Metropolitan Water District of Provo ²</td>
<td>150.0</td>
<td>75.0</td>
<td>4,375.0</td>
<td>4,600.0</td>
</tr>
<tr>
<td>North Fork SSD</td>
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<td>0.0</td>
<td>581.7</td>
</tr>
<tr>
<td>Orem City</td>
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<td>12,540.0</td>
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<td>14,330.0</td>
</tr>
<tr>
<td>Payson</td>
<td>900.0</td>
<td>2,900.0</td>
<td>0.0</td>
<td>3,800.0</td>
</tr>
<tr>
<td>Pleasant Grove City</td>
<td>1,500.0</td>
<td>6,500.0</td>
<td>0.0</td>
<td>8,000.0</td>
</tr>
<tr>
<td>Provo City</td>
<td>7,000.0</td>
<td>18,750.0</td>
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<td>28,750.0</td>
</tr>
<tr>
<td>Salem</td>
<td>543.0</td>
<td>2,110.0</td>
<td>0.0</td>
<td>2,653.0</td>
</tr>
<tr>
<td>Santaquin City</td>
<td>900.0</td>
<td>800.0</td>
<td>0.0</td>
<td>1,700.0</td>
</tr>
<tr>
<td>Saratoga Spring Municipal</td>
<td>0.0</td>
<td>905.0</td>
<td>0.0</td>
<td>905.0</td>
</tr>
<tr>
<td>Spanish Fork</td>
<td>7,782.7</td>
<td>967.8</td>
<td>0.0</td>
<td>8,750.5</td>
</tr>
<tr>
<td>Spring Lake</td>
<td>86.9</td>
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<td>415.9</td>
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<td>123.9</td>
</tr>
<tr>
<td>Springville City</td>
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<td>6,390.0</td>
<td>0.0</td>
<td>10,164.4</td>
</tr>
<tr>
<td>Utah State Hospital</td>
<td>150.0</td>
<td>362.9</td>
<td>0.0</td>
<td>512.9</td>
</tr>
<tr>
<td>White Hills Subdivision</td>
<td>0.0</td>
<td>1,391.5</td>
<td>0.0</td>
<td>1,391.5</td>
</tr>
<tr>
<td>Woodland Hills</td>
<td>96.6</td>
<td>189.5</td>
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</tr>
<tr>
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<td><strong>91,010.0</strong></td>
<td><strong>29,350.0</strong></td>
<td><strong>152,575.3</strong></td>
</tr>
</tbody>
</table>

Notes:
1. All values represent reliable supplies (9 out of 10 years) adjusted for meeting peak day demands from the maximum system source capacities which are limited by water rights, hydrologic constraints, and/or physical system constraints.
2. Central Utah WCD currently wholesales 3,000 a.f. and 10,300 a.f. of water to Provo and Orem Cities, respectively, through their Utah Valley Water Treatment Plant. Additional future supplies include 30,000 acre feet from the Utah Lake System and 42,000 acre feet of recently purchased water rights from the former Geneva Steel site.
3. Metropolitan Water District of Orem wholesales water to the City of Orem.
4. Metropolitan Water District of Provo wholesales water to the City of Provo.
<table>
<thead>
<tr>
<th>CITY/LAKE</th>
<th>40X40 FT/yr</th>
<th>40X40 FT/yr</th>
<th>40X40 FT/yr</th>
<th>40X40 FT/yr</th>
<th>40X40 FT/yr</th>
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<th>40X40 FT/yr</th>
<th>40X40 FT/yr</th>
<th>40X40 FT/yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alpine</td>
<td>567.2</td>
<td>267.3</td>
<td>25.3</td>
<td>18.4</td>
<td>24.8</td>
<td>903.0</td>
<td>8,000</td>
<td>100.8</td>
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<td></td>
</tr>
<tr>
<td>Alpine Cove Water SSD</td>
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<td>74.9</td>
<td>210</td>
<td>318.4</td>
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</tr>
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<td>3.0</td>
<td>0.0</td>
<td></td>
<td>40</td>
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<td>64.0</td>
<td>280</td>
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<td>29.1</td>
<td>25.5</td>
<td>203.7</td>
<td>880</td>
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<td>0.0</td>
<td>0.0</td>
<td>9.0</td>
<td>30</td>
<td>267.8</td>
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<td></td>
</tr>
<tr>
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<td>53.5</td>
<td>250.0</td>
<td>21.8</td>
<td>1,131.4</td>
<td>10,000</td>
<td>101.0</td>
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<td></td>
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<tr>
<td>Lehi</td>
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<td>253.4</td>
<td>250.0</td>
<td>25.0</td>
<td>2,646.6</td>
<td>28,350</td>
<td>83.3</td>
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<td>674.1</td>
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<td>200.0</td>
<td>150.0</td>
<td>200.0</td>
<td>1,424.1</td>
<td>9,500</td>
<td>133.8</td>
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<tr>
<td>Manila Culinary Water Company</td>
<td>214.4</td>
<td>858.1</td>
<td>33.9</td>
<td>22.6</td>
<td>0.0</td>
<td>1,129.0</td>
<td>2,900</td>
<td>347.6</td>
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<td>475.0</td>
<td>1,045.0</td>
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<td>16.1</td>
<td>8.4</td>
<td>1,555.1</td>
<td>6,490</td>
<td>213.9</td>
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</table>

(table continued on following page)
**TABLE 15 (Cont.)**

**UTAH COUNTY**

**WATER USE FOR PUBLIC COMMUNITY SYSTEMS**

<table>
<thead>
<tr>
<th>UTAH COUNTY WATER SUPPLIER</th>
<th>POTABLE USAGE (Ac-Ft/Yr)</th>
<th>Service Population</th>
<th>Gallons Per Capita Per Day</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Residential Indoor</td>
<td>Residential Outdoor</td>
<td>Commercial Total</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>--------</td>
<td>-------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>North Fork SSD</td>
<td>50.0</td>
<td>100.0</td>
<td>105.0</td>
</tr>
<tr>
<td>Orem City</td>
<td>6,771.3</td>
<td>8,841.8</td>
<td>3,000.0</td>
</tr>
<tr>
<td>Payson</td>
<td>1,142.5</td>
<td>26.4</td>
<td>170.0</td>
</tr>
<tr>
<td>Pleasant Grove City</td>
<td>1,850.0</td>
<td>2,730.0</td>
<td>515.0</td>
</tr>
<tr>
<td>Provo City</td>
<td>8,627.8</td>
<td>9,910.7</td>
<td>7,101.0</td>
</tr>
<tr>
<td>Salem</td>
<td>375.0</td>
<td>830.0</td>
<td>30.0</td>
</tr>
<tr>
<td>Santaquin City</td>
<td>435.3</td>
<td>406.5</td>
<td>45.0</td>
</tr>
<tr>
<td>Saratoga Spring Municipal</td>
<td>450.0</td>
<td>140.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Spanish Fork</td>
<td>1,751.9</td>
<td>363.0</td>
<td>416.2</td>
</tr>
<tr>
<td>Spring Lake</td>
<td>33.0</td>
<td>66.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Springdale Plat A &amp; B</td>
<td>7.6</td>
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</tr>
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<td>Springville City</td>
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<td>1,986.6</td>
<td>890.3</td>
</tr>
<tr>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>White Hills Subdivision</td>
<td>30.0</td>
<td>75.0</td>
<td>1.0</td>
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<td>Woodland Hills</td>
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<td>92.2</td>
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<td>UTAH COUNTY TOTALS</td>
<td>31,557.1</td>
<td>32,432.0</td>
<td>14,350.9</td>
</tr>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
</tr>
</tbody>
</table>

B, C, D, E, F, and H These values are all input data.

G=B+C+D+E+F This value represents only Potable M&I Water Use.

J=G*(325,851 gallons per acre-foot)/(365 days per year)/H Average per capita potable water use.
Secondary (non-potable) water is another important aspect of total M&I water use. Table 16 shows the amount of secondary water use within the public community water systems boundaries. Total secondary water use in Utah County is 25,429 acre-feet.

### Table 16
**UTAH COUNTY**

Secondary Water Use Within Public Community Systems

(Acre-Feet/Year)

<table>
<thead>
<tr>
<th>WATER SUPPLIER</th>
<th>Residential Use (Ac-Ft/yr)</th>
<th>Commercial Use (Ac-Ft/yr)</th>
<th>Institutional Use (Ac-Ft/yr)</th>
<th>Industrial/Stockwater Use (Ac-Ft/yr)</th>
<th>Total Secondary Use (Ac-Ft/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alpine</td>
<td>1,900.0</td>
<td>22.0</td>
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<td>0.0</td>
</tr>
<tr>
<td>American Fork City</td>
<td>200.0</td>
<td>300.0</td>
<td>0.0</td>
<td>0.0</td>
<td>500.0</td>
</tr>
<tr>
<td>Bradford Acres Water Assoc.</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>15.0</td>
</tr>
<tr>
<td>Cedar Fort</td>
<td>20.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>20.0</td>
</tr>
<tr>
<td>Cedar Hills</td>
<td>500.0</td>
<td>240.0</td>
<td>50.0</td>
<td>0.0</td>
<td>790.0</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Eagle Mountain Town</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Elberta</td>
<td>20.0</td>
<td>0.0</td>
<td>6.0</td>
<td>0.0</td>
<td>26.0</td>
</tr>
<tr>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Fairfield Irrigation Company</td>
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<td>20.0</td>
<td>2.0</td>
<td>25.0</td>
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<tr>
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<td>0.0</td>
<td>70.0</td>
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<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Goshen</td>
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<td>18.0</td>
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<td>Hidden Creek Water Company</td>
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<td>0.0</td>
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<td>0.0</td>
</tr>
<tr>
<td>Highland Water Company</td>
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<td>200.0</td>
<td>0.0</td>
<td>3,000.0</td>
</tr>
<tr>
<td>Lehi</td>
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<td>200.0</td>
<td>0.0</td>
<td>5,000.0</td>
</tr>
<tr>
<td>Lindon</td>
<td>900.0</td>
<td>50.0</td>
<td>400.0</td>
<td>0.0</td>
<td>1,350.0</td>
</tr>
<tr>
<td>Manila Culinary Water Company</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>400.0</td>
</tr>
<tr>
<td>North Fork SSD</td>
<td>0.0</td>
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<td>0.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Orem City</td>
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<td>120.0</td>
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<td>0.0</td>
<td>292.0</td>
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<tr>
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<td>250.0</td>
<td>200.0</td>
<td>0.0</td>
<td>2,950.0</td>
</tr>
<tr>
<td>Pleasant Grove City</td>
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<td>0.0</td>
<td>100.0</td>
<td>50.0</td>
<td>400.0</td>
</tr>
<tr>
<td>Provo City</td>
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<td>675.0</td>
<td>60.0</td>
<td>2,435.0</td>
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</tr>
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<td>100.0</td>
<td>0.0</td>
<td>300.0</td>
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<tr>
<td>Saratoga Spring Municipal</td>
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<td>300.0</td>
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<td>0.0</td>
<td>600.0</td>
</tr>
<tr>
<td>Spanish Fork</td>
<td>3,200.0</td>
<td>100.0</td>
<td>500.0</td>
<td>100.0</td>
<td>3,900.0</td>
</tr>
<tr>
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<td>0.0</td>
<td>8.0</td>
<td>0.0</td>
<td>38.0</td>
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</tr>
<tr>
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<td>0.0</td>
<td>253.0</td>
<td>50.0</td>
<td>653.0</td>
</tr>
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<td>75.0</td>
<td>0.0</td>
<td>75.0</td>
</tr>
<tr>
<td>White Hills Subdivision</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Woodland Hills</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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<tr>
<td><strong>UTAH COUNTY TOTALS</strong></td>
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<td><strong>3,075.0</strong></td>
<td><strong>262.0</strong></td>
<td><strong>25,429.0</strong></td>
</tr>
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</table>
Table 17 gives various gallons per capita per day water use rates for the public community systems. Appendix C shows detailed data for the public community water systems of Utah County that are presented in the tables.

### TABLE 17

**UTAH COUNTY**

*Average Per Capita M&I Water Use for Public Community Systems*

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>Average Per Capita Use (Ac-Ft/Yr)</th>
<th>Average Per Capita Use (GPCD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential Potable Use</td>
<td>0.153</td>
<td>137</td>
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<tr>
<td>Residential Potable Plus Secondary Use</td>
<td>0.199</td>
<td>178</td>
</tr>
<tr>
<td>Total Potable Use</td>
<td>0.228</td>
<td>204</td>
</tr>
<tr>
<td>Total Potable Plus Secondary Use</td>
<td>0.289</td>
<td>258</td>
</tr>
</tbody>
</table>

Note: Total Potable categories include residential, commercial, institutional and industrial uses.

Table 18, on the following page, indicates the water use for public non-community systems and private domestic systems. Utah Lake State Park facilities, several summer and year-round developments, campgrounds, and other park facilities are among the 41 non-community systems. There are ten self-supplied industries in Utah County. All these uses amount to 5,952 acre-feet of potable water and 9,728 acre-feet of non-potable water.
TABLE 18
UTAH COUNTY
Water Use for Public Non-Community Systems, Self-Supplied Industries and Private Domestic Systems
(Acre-Feet/Year)

<table>
<thead>
<tr>
<th>WATER SUPPLIER</th>
<th>RESIDENTIAL USE</th>
<th>COMMERCIAL USE</th>
<th>INSTITUTIONAL USE</th>
<th>INDUSTRIAL USE</th>
<th>TOTAL POTABLE USE</th>
<th>TOTAL SECONDARY WATER USE (Ac-Ft/Yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brickerhaven Subdivision</td>
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<td>0.0</td>
<td>1.0</td>
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</tr>
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<td>0.0</td>
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<td>0.5</td>
<td>0.0</td>
</tr>
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<td>3.0</td>
<td>0.0</td>
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<tr>
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<td>0.5</td>
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<td>0.5</td>
<td>0.0</td>
</tr>
<tr>
<td>Granite Flat Campground</td>
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<td>3.0</td>
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<td>0.0</td>
<td>0.3</td>
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</tr>
<tr>
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<td>0.0</td>
<td>0.3</td>
<td>0.0</td>
</tr>
<tr>
<td>Payson Lakes Campground</td>
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<td>0.0</td>
<td>5.0</td>
<td>0.0</td>
</tr>
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<td>0.0</td>
<td>0.2</td>
<td>0.0</td>
</tr>
<tr>
<td>Timponeke Campground/GS</td>
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<td>0.0</td>
<td>1.0</td>
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</tr>
<tr>
<td>Tinney Flat Campground</td>
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<tr>
<td>Whiting Campground</td>
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<tr>
<td>Jehovah’s Witness Church</td>
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<tr>
<td>Jolley Park</td>
<td>0.0</td>
<td>0.0</td>
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<td>2.0</td>
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</tr>
<tr>
<td>LDS Church Facilities:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benjamin Ward</td>
<td>0.0</td>
<td>0.0</td>
<td>2.7</td>
<td>0.0</td>
<td>2.7</td>
<td>0.0</td>
</tr>
<tr>
<td>Benson Creek Campground</td>
<td>0.0</td>
<td>0.0</td>
<td>0.2</td>
<td>0.0</td>
<td>0.2</td>
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</tr>
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<td>Desert Feed Lot</td>
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</tr>
<tr>
<td>Lake Shore Ward</td>
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<td>2.7</td>
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</tr>
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<td>Mutual Dell Recreation</td>
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<td>2.0</td>
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</tr>
<tr>
<td>Palmyra LDS Ward</td>
<td>0.0</td>
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<td>2.2</td>
<td>0.0</td>
<td>2.2</td>
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</tr>
<tr>
<td>Payson W Stake 12/13 Wards</td>
<td>0.0</td>
<td>0.0</td>
<td>1.0</td>
<td>0.0</td>
<td>1.0</td>
<td>8.0</td>
</tr>
<tr>
<td>Loafer Water Users Association</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>1.0</td>
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</tr>
<tr>
<td>New Haven Girls East Home</td>
<td>0.0</td>
<td>2.0</td>
<td>0.0</td>
<td>0.0</td>
<td>2.0</td>
<td>3.0</td>
</tr>
<tr>
<td>New Haven Girls Saratoga</td>
<td>0.0</td>
<td>2.0</td>
<td>0.0</td>
<td>0.0</td>
<td>2.0</td>
<td>3.0</td>
</tr>
<tr>
<td>New Haven Girls West Home</td>
<td>0.0</td>
<td>2.0</td>
<td>0.0</td>
<td>0.0</td>
<td>2.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Silver Lake Summer Homes</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Soldier Summit SSD</td>
<td>0.2</td>
<td>0.3</td>
<td>0.0</td>
<td>0.0</td>
<td>0.5</td>
<td>0.0</td>
</tr>
<tr>
<td>State of Utah:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tucker Rest Area</td>
<td>0.0</td>
<td>0.0</td>
<td>0.5</td>
<td>0.0</td>
<td>0.5</td>
<td>1.0</td>
</tr>
<tr>
<td>Utah Lake State Park</td>
<td>0.0</td>
<td>0.0</td>
<td>5.0</td>
<td>0.0</td>
<td>5.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Tibble Fork Summer Homes</td>
<td>2.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>2.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Timpanogos Visitor Center</td>
<td>0.0</td>
<td>0.0</td>
<td>3.0</td>
<td>0.0</td>
<td>3.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Upper Whittmore Water Co.</td>
<td>3.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>3.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Utah County Facilities:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benjamin Park</td>
<td>0.0</td>
<td>0.0</td>
<td>10.5</td>
<td>0.0</td>
<td>10.5</td>
<td>0.0</td>
</tr>
<tr>
<td>Lincoln Beach</td>
<td>0.0</td>
<td>0.0</td>
<td>3.0</td>
<td>0.0</td>
<td>3.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Willow Park</td>
<td>0.0</td>
<td>0.0</td>
<td>3.0</td>
<td>0.0</td>
<td>3.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Vivian Park Homeowners</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>1.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Wildwood Subdivision</td>
<td>25.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>25.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Non-Community Sub-Total</td>
<td>35.2</td>
<td>6.8</td>
<td>56.1</td>
<td>180.0</td>
<td>278.1</td>
<td>26.0</td>
</tr>
<tr>
<td>Self-Supplied Industries</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>675.0</td>
<td>675.0</td>
<td>9,702.0</td>
</tr>
<tr>
<td>Private Domestic Use</td>
<td>5,000.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>5,000.0</td>
<td>0.0</td>
</tr>
<tr>
<td>UTAH COUNTY TOTALS</td>
<td>5,035.2</td>
<td>6.8</td>
<td>56.1</td>
<td>855.0</td>
<td>5,953.1</td>
<td>9,728.0</td>
</tr>
</tbody>
</table>

Total potable M&I water use for all categories of water systems in the county is then 101,220 acre-feet, while total non-potable water use is 35,157 acre-feet, giving a total overall M&I water use in 2003 of about 136,377 acre-feet for Utah County. Since the current population of Utah County is about 423,300, the total M&I per capita water use in Utah County is then 288 gallons per capita per day (gpcd).
WASATCH COUNTY M&I WATER SUPPLIES AND USES

The Utah Lake Basin encompasses the land area of northwestern Wasatch County, generally the Heber Valley. Within this area are 15 public community systems and 26 public non-community systems. There are no self-supplied industries in this part of the county. Locations of most of these water systems are shown in Figure 3 on page 9.

As shown in Table 19, the maximum annual potable water supply for the public community systems of Wasatch County in the Utah Lake Basin is 14,595 acre-feet; 6,718 acre-feet from springs, 3,377 acre-feet from wells, and 4,500 acre-feet from surface sources.

<table>
<thead>
<tr>
<th>WATER SUPPLIER</th>
<th>Springs (Ac-Ft/Yr)</th>
<th>Wells (Ac-Ft/Yr)</th>
<th>Surface (Ac-Ft/Yr)</th>
<th>TOTAL (Ac-Ft/Yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canyon Meadows</td>
<td>161.0</td>
<td>72.0</td>
<td>0.0</td>
<td>233.0</td>
</tr>
<tr>
<td>Center Creek Water System</td>
<td>80.7</td>
<td>0.0</td>
<td>0.0</td>
<td>80.7</td>
</tr>
<tr>
<td>Charleston WCD</td>
<td>72.6</td>
<td>97.7</td>
<td>0.0</td>
<td>170.3</td>
</tr>
<tr>
<td>Country Estates Mobile Homes</td>
<td>0.0</td>
<td>64.6</td>
<td>0.0</td>
<td>64.6</td>
</tr>
<tr>
<td>Daniel Domestic Water Company</td>
<td>235.5</td>
<td>0.0</td>
<td>0.0</td>
<td>235.5</td>
</tr>
<tr>
<td>Heber City Water System</td>
<td>2,887.3</td>
<td>2,259.3</td>
<td>0.0</td>
<td>5,146.6</td>
</tr>
<tr>
<td>Interlaken Mutual Water Company</td>
<td>0.0</td>
<td>364.5</td>
<td>0.0</td>
<td>364.5</td>
</tr>
<tr>
<td>Jordanelle SSD</td>
<td>0.0</td>
<td>300.0</td>
<td>4,000.0</td>
<td>4,300.0</td>
</tr>
<tr>
<td>Midway City Water System</td>
<td>2,843.0</td>
<td>54.8</td>
<td>0.0</td>
<td>2,897.8</td>
</tr>
<tr>
<td>Storm Haven</td>
<td>0.0</td>
<td>60.0</td>
<td>0.0</td>
<td>60.0</td>
</tr>
<tr>
<td>Swiss Alpine Water Co.</td>
<td>31.2</td>
<td>0.0</td>
<td>0.0</td>
<td>31.2</td>
</tr>
<tr>
<td>Timber Lakes Water SSD</td>
<td>320.0</td>
<td>0.0</td>
<td>0.0</td>
<td>320.0</td>
</tr>
<tr>
<td>Twin Creeks SSD</td>
<td>0.0</td>
<td>0.0</td>
<td>500.0</td>
<td>500.0</td>
</tr>
<tr>
<td>Wallsburg Town Water System</td>
<td>87.1</td>
<td>66.9</td>
<td>0.0</td>
<td>154.0</td>
</tr>
<tr>
<td>Woodland South Hills Irrigation</td>
<td>0.0</td>
<td>37.0</td>
<td>0.0</td>
<td>37.0</td>
</tr>
<tr>
<td>WASATCH COUNTY TOTALS</td>
<td>6,718.4</td>
<td>3,376.8</td>
<td>4,500.0</td>
<td>14,595.2</td>
</tr>
</tbody>
</table>

Note: All values represent maximum system source capacities limited by water rights, hydrologic constraints, and/or system constraints.
The reliable potable water supply shown in the following Table 20 is 10,492 acre-feet, about 75 percent of the maximum supply.

### TABLE 20
WASATCH COUNTY
Reliable Potable Water Supplies for Public Community Systems
(Acre-Feet/Year)

<table>
<thead>
<tr>
<th>WATER SUPPLIER</th>
<th>Springs (Ac-Ft/Yr)</th>
<th>Wells (Ac-Ft/Yr)</th>
<th>Surface (Ac-Ft/Yr)</th>
<th>TOTAL (Ac-Ft/Yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canyon Meadows</td>
<td>114.4</td>
<td>72.0</td>
<td>0.0</td>
<td>186.4</td>
</tr>
<tr>
<td>Center Creek Water System</td>
<td>48.4</td>
<td>0.0</td>
<td>0.0</td>
<td>48.4</td>
</tr>
<tr>
<td>Charleston WCD</td>
<td>43.6</td>
<td>97.7</td>
<td>0.0</td>
<td>141.3</td>
</tr>
<tr>
<td>Country Estates Mobile Homes</td>
<td>0.0</td>
<td>32.3</td>
<td>0.0</td>
<td>32.3</td>
</tr>
<tr>
<td>Daniel Domestic Water Company</td>
<td>141.3</td>
<td>0.0</td>
<td>0.0</td>
<td>141.3</td>
</tr>
<tr>
<td>Heber City Water System</td>
<td>1,732.4</td>
<td>1,130.0</td>
<td>0.0</td>
<td>2,862.4</td>
</tr>
<tr>
<td>Interlaken Mutual Water Company</td>
<td>0.0</td>
<td>182.2</td>
<td>0.0</td>
<td>182.2</td>
</tr>
<tr>
<td>Jordanelle SSD</td>
<td>0.0</td>
<td>150.0</td>
<td>4,000.0</td>
<td>4,150.0</td>
</tr>
<tr>
<td>Midway City Water System</td>
<td>1,815.0</td>
<td>27.4</td>
<td>0.0</td>
<td>1,842.4</td>
</tr>
<tr>
<td>Storm Haven</td>
<td>0.0</td>
<td>44.0</td>
<td>0.0</td>
<td>44.0</td>
</tr>
<tr>
<td>Swiss Alpine Water Co.</td>
<td>31.2</td>
<td>0.0</td>
<td>0.0</td>
<td>31.2</td>
</tr>
<tr>
<td>Timber Lakes Water SSD</td>
<td>192.0</td>
<td>0.0</td>
<td>0.0</td>
<td>192.0</td>
</tr>
<tr>
<td>Twin Creeks SSD</td>
<td>0.0</td>
<td>0.0</td>
<td>500.0</td>
<td>500.0</td>
</tr>
<tr>
<td>Wallsburg Town Water System</td>
<td>52.3</td>
<td>66.9</td>
<td>0.0</td>
<td>119.2</td>
</tr>
<tr>
<td>Woodland South Hills Irrigation</td>
<td>0.0</td>
<td>18.5</td>
<td>0.0</td>
<td>18.5</td>
</tr>
<tr>
<td><strong>WASATCH COUNTY TOTALS</strong></td>
<td><strong>4,170.6</strong></td>
<td><strong>1,821.0</strong></td>
<td><strong>4,500.0</strong></td>
<td><strong>10,491.6</strong></td>
</tr>
</tbody>
</table>

**Note:** All values represent reliable supplies (9 out of 10 years) adjusted for meeting peak day demands from the maximum system source capacities which are limited by water rights, hydrologic constraints, and/or physical system constraints.

Table 21 on the following page presents the breakdown of the potable water use for each public community system of the county. As indicated by the table, the current total annual potable water use is 3,239 acre-feet, which is about 31 percent of the current reliable potable water supply.
## TABLE 21
WASATCH COUNTY
WATER USE FOR PUBLIC COMMUNITY SYSTEMS

<table>
<thead>
<tr>
<th>WASATCH COUNTY WATER SUPPLIER</th>
<th>POTABLE USAGE (Ac-Ft/Yr)</th>
<th>Service Population</th>
<th>Gallons Per Capita Per Day</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Residential Indoor</td>
<td>Residential Outdoor</td>
<td>Commercial Total</td>
</tr>
<tr>
<td>------------------------------</td>
<td>---------------------</td>
<td>---------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>Canyon Meadows</td>
<td>4.0</td>
<td>7.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Center Creek Culinary Water Co.</td>
<td>13.2</td>
<td>15.2</td>
<td>0.0</td>
</tr>
<tr>
<td>Charleston WCD</td>
<td>42.2</td>
<td>89.8</td>
<td>0.5</td>
</tr>
<tr>
<td>Country Estates Mobile Homes</td>
<td>11.2</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Daniel Domestic Water Company</td>
<td>28.6</td>
<td>44.5</td>
<td>0.0</td>
</tr>
<tr>
<td>Heber City Water System</td>
<td>687.1</td>
<td>811.9</td>
<td>293.4</td>
</tr>
<tr>
<td>Interlaken Mutual Water Company</td>
<td>24.2</td>
<td>26.9</td>
<td>0.0</td>
</tr>
<tr>
<td>Jordanelle Special Service District</td>
<td>91.4</td>
<td>66.6</td>
<td>5.8</td>
</tr>
<tr>
<td>Midway City Water System</td>
<td>194.5</td>
<td>235.0</td>
<td>45.0</td>
</tr>
<tr>
<td>Storm Haven</td>
<td>10.5</td>
<td>7.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Swiss Alpine Water Co.</td>
<td>21.0</td>
<td>10.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Timber Lakes Water SSD</td>
<td>80.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Twin Creeks SSD</td>
<td>54.1</td>
<td>5.8</td>
<td>0.0</td>
</tr>
<tr>
<td>Wallsburg Town Water System</td>
<td>33.0</td>
<td>20.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Woodland South Hills Irrigation</td>
<td>4.0</td>
<td>5.3</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>WASATCH COUNTY TOTALS</strong></td>
<td><strong>1,299.0</strong></td>
<td><strong>1,345.0</strong></td>
<td><strong>344.8</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>B, C, D, E, F, and H</td>
<td>These values are all input data.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G=B+C+D+E+F</td>
<td>This value represents only Potable M&amp;I Water Use.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J=G*(325,851 gallons per acre-foot)/(365 days per year)/H</td>
<td>Average per capita potable water use.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Secondary water is another important aspect of municipal and industrial (M&I) water use. **Table 22** shows the amount of secondary water use within the public community water systems service areas. The total secondary water use for the area is 1,502 acre-feet, almost half of the total potable water use.

<table>
<thead>
<tr>
<th>WASATCH COUNTY WATER SUPPLIER</th>
<th>Residential Use (Ac-Ft/Yr)</th>
<th>Commercial Use (Ac-Ft/Yr)</th>
<th>Institutional Use (Ac-Ft/Yr)</th>
<th>Industrial/Stockwater Use (Ac-Ft/Yr)</th>
<th>Total Secondary Use (Ac-Ft/Yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canyon Meadows</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Center Creek Water System</td>
<td>27.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>27.0</td>
</tr>
<tr>
<td>Charleston WCD</td>
<td>80.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>80.0</td>
</tr>
<tr>
<td>Country Estates Mobile Homes</td>
<td>3.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Daniel Domestic Water Company</td>
<td>67.1</td>
<td>0.0</td>
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<td>0.0</td>
<td>67.1</td>
</tr>
<tr>
<td>Heber City Water System</td>
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<td>50.0</td>
<td>0.0</td>
<td>300.0</td>
</tr>
<tr>
<td>Interlaken Mutual Water Company</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Jordanelle Special Service District</td>
<td>0.0</td>
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<td>0.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Midway City Water System</td>
<td>550.0</td>
<td>250.0</td>
<td>0.0</td>
<td>0.0</td>
<td>800.0</td>
</tr>
<tr>
<td>Storm Haven</td>
<td>30.0</td>
<td>0.0</td>
<td>0.0</td>
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<td>30.0</td>
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<tr>
<td>Swiss Alpine Water Co.</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Timber Lakes Water SSD</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Twin Creeks SSD</td>
<td>100.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>100.0</td>
</tr>
<tr>
<td>Wallsburg Town Water System</td>
<td>50.0</td>
<td>0.0</td>
<td>20.0</td>
<td>0.0</td>
<td>70.0</td>
</tr>
<tr>
<td>Woodland South Hills Irrigation</td>
<td>25.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>25.0</td>
</tr>
</tbody>
</table>

**WASATCH COUNTY TOTALS** 1,182.1 250.0 70.0 0.0 1,502.1
Table 23 gives various gpcd use rates for the public community water systems of the county. Appendix D shows further detail of the data for each public community water system that is presented in the tables.

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>Average Per Capita Use (Ac-Ft/Yr)</th>
<th>Average Per Capita Use (GPCD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential Potable Use</td>
<td>0.160</td>
<td>143</td>
</tr>
<tr>
<td>Residential Potable Plus Secondary Use</td>
<td>0.232</td>
<td>207</td>
</tr>
<tr>
<td>Total Potable Use</td>
<td>0.197</td>
<td>175</td>
</tr>
<tr>
<td>Total Potable Plus Secondary Use</td>
<td>0.288</td>
<td>257</td>
</tr>
</tbody>
</table>

Note: Total Potable categories include residential, commercial, institutional and industrial uses.

Table 24 on the following page gives the water use for public non-community, self-supplied industries, and private domestic water systems.

There are several campgrounds, both private and public, summer home developments, private businesses, as well as state parks including Deer Creek Lake, Jordanelle, and Wasatch Mountain State Parks. There are no two self-supplied industries in this area of Wasatch County. There are, however, a large number of private wells for mostly individual summer homes.
## TABLE 24
WASATCH COUNTY
Water Use for Public Community Systems,
Self-Supplied Industries and Private Domestic Systems
(Acre-Feet/Year)

<table>
<thead>
<tr>
<th>WASATCH COUNTY WATER SUPPLIER</th>
<th>POTABLE USAGE (Ac-Ft/Yr)</th>
<th>Total Secondary Water Use (Ac-Ft/Yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Residential Use</td>
<td>Commercial Use</td>
</tr>
<tr>
<td>Camp Cloud Rim (Utah Girl Scouts)</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Camp Roger YMCA</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Daniel Summit Estates</td>
<td>4.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Deer Creek Park</td>
<td>0.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Diamond Hills Association</td>
<td>2.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>Forest Service Systems:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cascade Springs</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Heber Ranger Station</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Mill Hollow Campground</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Heber City Kingdom Hall</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Heber Valley RV Park</td>
<td>0.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Holladay-Mt. Olympus Camp</td>
<td>0.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Homestead Resort - Golf Course</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>LDS Church Facilities:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heber East Stake Center</td>
<td>0.0</td>
<td>0.0</td>
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<tr>
<td>Lake Creek Rec. Properties</td>
<td>0.0</td>
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</tr>
<tr>
<td>Oakcrest LDS Girls Camp</td>
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</tr>
<tr>
<td>Mill Hollow Education Center</td>
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<td>0.0</td>
</tr>
<tr>
<td>Oak Haven</td>
<td>5.0</td>
<td>0.0</td>
</tr>
<tr>
<td>The Other End</td>
<td>0.0</td>
<td>0.8</td>
</tr>
<tr>
<td>Snake Creek Mutual Water</td>
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<td>0.0</td>
</tr>
<tr>
<td>Soapstone Summer Homes</td>
<td>10.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>State Of Utah:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deer Creek Lake State Park</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Island Beach</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Jordanelle State Park</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Little Deer Creek Camp</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Wasatch Mountain State Park</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>Wasatch County Facilities:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solid Waste Transfer Station</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>Non-Community Sub-Totals</strong></td>
<td>23.0</td>
<td>8.8</td>
</tr>
<tr>
<td><strong>Self Supplied Industries</strong></td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>Private Domestic Use</strong></td>
<td>500.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>WASATCH COUNTY TOTALS</strong></td>
<td>523.0</td>
<td>8.8</td>
</tr>
</tbody>
</table>

1There are no self supplied industries
Total M&I potable water use for all water systems in the Wasatch County portion of the Utah Lake Basin is about 3,853 acre-feet, while non-potable use is 2,457 acre-feet for a total overall M&I water use of 6,310 acre-feet. With a current population of about 18,000 people, this portion of the county has an overall water use rate of 313 gallons per capita per day.
APPENDIX A

JUAB COUNTY
PUBLIC COMMUNITY WATER SYSTEMS
DETAILED DESCRIPTIONS
MONA CULINARY WATER

Population = 925
Total No. of Connections = 298
Residential Connections = 290
Commercial Connections = 5
Institutional Connections = 3
Industrial Connections = none
Average No. of People Per Residential Connection = 3.19
Average Lot Size = 0.30 acres
Percent of Lot Irrigated = 60%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   - Springs = 344 ac-ft/yr (by agreement with Mona Irrigation)
   - Wells = 1,450 ac-ft/yr
   - Surface = none
2. Water Rights: 664 ac-ft/yr
3. Maximum Potable Water Supply: 664 ac-ft/yr
4. Reliable Potable Water Supply: 534 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimate: 71 gpcd (925 persons) (365 days) ×
   325,851 gals/ac-ft = 73.6 ac-ft
2. Residential Outdoor: estimate 290 connections at 50% culinary
   (0.20 acres/ connection)(4 ac-ft/acre) = 116 ac-ft
3. Institutional: estimate 15 ac-ft
4. Commercial: estimate 5 ac-ft
5. Industrial: none

C. Secondary Water Use:

1. Residential: estimated: 120 ac-ft
2. Institutional: none
3. Commercial: none
4. Industrial: none
NEPHI CITY

Population = 5,175  
Total No. of Connections = 1,700  
Residential Connections = 1,609  
Commercial Connections = 3  
Institutional Connections = 20  
Industrial Connections = 68  
Average No. of People Per Residential Connection = 3.21  
Average Lot Size = 0.25 acres  
Percent of Lot Irrigated = 50%  
Domestic Wastewater Treatment = Lagoons

A. **Water Supply:**

1. **Source Capacity:**
   - Springs = 1,618 ac-ft/yr
   - Wells = 2,300 ac-ft/yr
   - Surface = none
2. **Water Rights:** 18,000 ac-ft/yr
3. **Maximum Potable Water Supply:** 3,918 ac-ft/yr
4. **Reliable Potable Water Supply:** 2,120 ac-ft/yr
5. **Wholesale Potable Water Purchase Contract:** none

B. **Primary Water Use:**

1. **Residential Indoor:** estimated: 70gpcd (5,175)(365 days) ÷ 325,851 gals/ac-ft = 405.8 ac-ft/yr
2. **Residential Outdoor:** estimate 60% irrigated(1,609 connections)(0.15 acres)(4 ac-ft/connection) = 580 ac-ft
3. **Institutional:** estimate 20 ac-ft indoor, 80 ac-ft outdoor=100ac-ft  
   (includes Canyon Hills Park golf course)
4. **Commercial:** estimate 5 ac-ft
5. **Industrial:** Rubber plant at 340 ac-ft, stockwatering at 10 ac-ft for  
   Total of  350 ac-ft

C. **Secondary Water Use:**

1. **Residential:**  
   given 40% with secondary − (0.4)(1,700 total connections)(0.15 acres irrigated per connection)(4 ac-ft per acre) = total of 386 ac-ft; estimate 300 ac-ft
2. **Institutional:** estimate 50 ac-ft
3. **Commercial:** none
4. **Industrial:** none
ROCKY RIDGE TOWN

Population = 300
Total No. of Connections = 78
Residential Connections = 75 (21 duplexes included)
Commercial Connections = none
Institutional Connections = 1
Industrial Connections = 2
Average No. of People Per Residential Connection = 4.00
Average Lot Size = 0.25 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Septic Tanks

A. **Water Supply:**

1. **Source Capacity:**
   - Springs = none
   - Wells = 419 ac-ft/yr
   - Surface = none
2. **Water Rights:** 121 ac-ft/yr
3. **Maximum Potable Water Supply:** 121 ac-ft/yr
4. **Reliable Potable Water Supply:** 121 ac-ft/yr
5. **Wholesale Potable Water Purchase Contract:** none

B. **Primary Water Use:**

1. **Residential Indoor:** Estimate: 69gpcd (300 people)(365 days) / 325,851 gallons/ac-ft = 23.2 ac-ft
2. **Residential Outdoor:** Remainder of given total of 38.7 ac-ft = 15.5 ac-ft
3. **Institutional:** estimate 3.0 ac-ft
4. **Commercial:** given 0.6 ac-ft
5. **Industrial:** given 0.7 ac-ft stockwatering

C. **Secondary Water Use:**

1. **Residential:** none
2. **Institutional:** none
3. **Commercial:** none
4. **Industrial:** none
APPENDIX  B

SUMMIT COUNTY
PUBLIC COMMUNITY WATER SYSTEMS
DETAILED DESCRIPTIONS
FRANCIS CULINARY WATER

Population = 690
Total No. of Connections = 350
Residential Connections = 348
Commercial Connections = 27
Institutional Connections = 9
Industrial Connections = none
Average No. of People Per Residential Connection = 2.0
Average Lot Size = 0.25 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   - Springs = 344 ac-ft/yr
   - Wells = 294 ac-ft/yr
   - Surface = none
2. Water Rights: 731.4 ac-ft/yr
4. Reliable Potable Water Supply: 349 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: estimate 68gpcd(690 people)(365 days)/
   325,851 gals/ac-ft = 52.6 ac-ft
2. Residential Outdoor: estimate 100 ac/ft
3. Institutional: estimate 20 ac-ft
4. Commercial: estimate 0.5 ac-ft
5. Industrial: none

C. Secondary Water Use:

1. Residential: estimate 50 ac-ft
2. Institutional: estimate 10 ac-ft
3. Commercial: none
4. Industrial: none
WOODLAND MUTUAL WATER COMPANY

Population = 200
Total No. of Connections = 90
Residential Connections = 77
Commercial Connections = 3
Institutional Connections = 10 (estimated)
Industrial Connections = none
Average No. of People Per Residential Connection = 2.6
Average Lot Size = 0.30 acres
Percent of Lot Irrigated = 40%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   - Springs = 44.2 ac-ft/yr
   - Wells = 18.2 ac-ft/yr
   - Surface = none
2. Water Rights: 61.8 ac-ft/yr
3. Maximum Potable Water Supply: 61.8 ac-ft/yr
4. Reliable Potable Water Supply: 52.6 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 74.5 gpcd (200 persons) (365 days) ÷ 325,851 gals/ac-ft = 16.7 ac-ft
2. Residential Outdoor: Given total of 56.8 – 16.7 = 40.1 ac-ft
3. Institutional: Estimate 5.0 ac-ft
4. Commercial: Given 6.1 ac-ft
5. Industrial: Given 5.0 ac-ft (stockwatering)

C. Secondary Water Use:

1. Residential: Estimate 5 ac-ft
2. Institutional: none
3. Commercial: none
4. Industrial: none
APPENDIX  C

UTAH COUNTY

PUBLIC COMMUNITY WATER SYSTEMS

DETAILED DESCRIPTIONS
ALPINE CITY

Population = 8,000
Total No. of Connections = 2,020
Residential Connections = 1,956
Commercial Connections = 18
Institutional Connections = 17
Industrial Connections = 29
Average No. of People Per Residential Connection = 4.1
Average Lot Size = 0.50 acres
Percent of Lot Irrigated = 40%
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   - Springs = 3,500 ac-ft/yr
   - Wells = 3,260 ac-ft/yr
   - Surface = none

2. Water Rights: 5,017.3 ac-ft/yr
3. Maximum Potable Water Supply: 5,017.3 ac-ft/yr
4. Reliable Potable Water Supply: 3801.2 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 63.3 gpcd (8,000 persons) (365 days)
   \[ \frac{63.3 \text{ gpcd}}{365 \text{ days}} = 0.175 \text{ gpcd/day per person} \]
   \[ 0.175 \times 8,000 \text{ persons} \times 365 \text{ days} = 461,050 \text{ gals} \]
   \[ \frac{461,050 \text{ gals}}{277,200 \text{ ac-ft}} = 1.65 \text{ ac-ft} \]
2. Residential Outdoor: Remainder of given residential total use of:
   \[ 834.5 - 1.65 = 832.85 \text{ ac-ft} \]
3. Institutional: given 18.4 ac-ft
4. Commercial: given 25.3 ac-ft
5. Industrial: given 24.8 ac-ft

C. Secondary Water Use:

1. Residential: estimate 1,900 ac-ft
2. Institutional: estimate 200 ac-ft
3. Commercial: estimate 22 ac-ft
4. Industrial: none

71
ALPINE COVE WATER SSD

Population = 210
Total No. of Connections = 51
Residential Connections = 48
Commercial Connections = none
Institutional Connections = none
Industrial Connections = 3 (stockwatering)
Average No. of People Per Residential Connection = 4.3
Average Lot Size = 0.50 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   - Springs = none
   - Wells = 523 ac-ft/yr
   - Surface = none
2. Water Rights: 91.2 ac-ft/yr
3. Maximum Potable Water Supply: 91.2 ac-ft/yr
4. Reliable Potable Water Supply: 91.2 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: estimate at 63.3gpcd (210people) (365days) / 325,851 gals/ac-ft = 14.9 ac-ft
2. Residential Outdoor: remainder of given total 73.9 ac-ft = 59.0 ac-ft
3. Institutional: none
4. Commercial: none
5. Industrial: estimate 1.0 ac-ft (stockwatering)

C. Secondary Water Use:

1. Residential: none
2. Institutional: none
3. Commercial: none
4. Industrial: none
AMERICAN FORK MUNICIPAL WATER SYSTEM

Population = 23,500
Total No. of Connections = 6,229
Residential Connections = 5,800
Commercial Connections = 335
Institutional Connections = 52 (40 additional unmetered)
Industrial Connection = none given
Average No. of People Per Residential Connection = 4.0
Average Lot Size = 0.33 acres
Percent of Lot Irrigated = 60%
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   - Springs = 4,570 ac-ft/yr
   - Wells = 40,270 ac-ft/yr
   - Surface = none
2. Water Rights: 33,000 ac-ft/yr
3. Maximum Potable Water Supply: 33,000 ac-ft/yr
4. Reliable Potable Water Supply: 22,000 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 67.1 gpcd (23,500 persons) (365 days) \( \div \) 325,851 gals/ac-ft = 1,766.3 ac-ft
2. Residential Outdoor: remainder of total given residential: 4548.4 ac-ft
   \(- 1,766.3 \) ac-ft indoor = 2,782.1 ac-ft
3. Institutional: given 3,689.1 ac-ft
4. Commercial: given 1,473.2 ac-ft
5. Industrial: none

C. Secondary Water Use:

1. Residential: estimate 200 ac-ft
2. Institutional: none
3. Commercial: estimate 300 ac-ft (Tri City Golf Course)
4. Industrial: none
BRADFORD ACRES WATER ASSOCIATION

Population = 40
Total No. of Connections = 11
Residential Connections = 11
Commercial Connections = none
Institutional Connections = none
Industrial Connections = none
Average No. of People Per Residential Connection = 3.6
Average Lot Size = 6.5 acres
Percent of Lot Irrigated = 10%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   - Springs = none
   - Wells = 290 ac-ft/yr
   - Surface = none
2. Water Rights: 83.9 ac-ft/yr
3. Maximum Potable Water Supply: 83.9 ac-ft/yr
4. Reliable Potable Water Supply: 83.9 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 68 gpcd (40 persons) (365 days) ÷ 325,851 gals/ac-ft = 3.0 ac-ft
2. Residential Outdoor: none (all secondary)
3. Institutional: none
4. Commercial: none
5. Industrial: none

C. Secondary Water Use:

1. Residential: estimate 15 ac-ft
2. Institutional: none
3. Commercial: none
4. Industrial: none
CEDAR FORT CULINARY WATER

Population  =  360  
Total No. of Connections  =  122  
Residential Connections  =  122  
Commercial Connections  =  1  
Institutional Connections  =  8  
Industrial Connections  =  none  
Average No. of People Per Residential Connection  =  3.0  
Average Lot Size  =  1.00 acres  
Percent of Lot Irrigated  =  15%  
Domestic Wastewater Treatment  =  Septic System

A. Water Supply:

1. Source Capacity:
   ● Springs  =  379.1 ac-ft  
   ● Wells  =  none  
   ● Surface  =  none
2. Water Rights:  362 ac-ft
4. Reliable Potable Water Supply:  227.5 ac-ft
5. Wholesale Potable Water Purchase Contract:  none

B. Primary Water Use:

1. Residential Indoor:  Estimated: 65.4 gpcd (360 persons) (365 days)  
   \[ \frac{325,851 \text{ gals/ac-ft}}{1 \text{ ac-ft}} = 26.4 \text{ ac-ft} \]
2. Residential Outdoor:  Remainder from all use  =  50.6 ac-ft
3. Institutional:  estimate 20 ac-ft
4. Commercial:  estimate 2 ac-ft
5. Industrial:  none

C. Secondary Water Use:

1. Residential:  estimate: 20.0 ac-ft
2. Institutional:  none
3. Commercial:  none
4. Industrial:  none
CEDAR HILLS

Population = 7,000
Total No. of Connections = 1,635
Residential Connections = 1,630
Commercial Connections = 2
Institutional Connections = 3
Industrial/Stockwatering Connections = none
Average No. of People Per Residential Connection = 4.4
Average Lot Size = 0.33 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   - Springs = none
   - Wells = 1,935.6 ac-ft/yr
   - Surface = none
2. Water Rights: 858 ac-ft/yr (by agreement with American Fork)
3. Maximum Potable Water Supply: 858 ac-ft/yr
4. Reliable Potable Water Supply: 858 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 63 gpcd (7,000 persons) (365 days) ÷ 325,851 gals/ac-ft = 500 ac-ft
2. Residential Outdoor: estimate at 0.35 (35% use culinary)(1,630)(0.2 acres)(2.4 ac-ft/year) = 275 ac-ft
3. Institutional: estimate 5 ac-ft
4. Commercial: estimate 2 ac-ft
5. Industrial: none

C. Secondary Water Use:

1. Residential: estimate 0.65(1,630)(0.2 acres)(2.4 ac-ft/yr) = 500 ac-ft
2. Institutional: estimate 15 acres of parks = 50 ac-ft
3. Commercial: golf course at 100 acres = 240 ac-ft
4. Industrial/Stockwater: none
COVERED BRIDGE CANYON

Population = 280
Total No. of Connections = 68
Residential Connections = 67
Commercial Connections = none
Institutional Connections = none
Industrial Connections = 1 (stockwatering)
Average No. of People Per Residential Connection = 4.1
Average Lot Size = 2.50 acres
Percent of Lot Irrigated = 10%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   - Springs = none
   - Wells = 251.6 ac-ft/yr
   - Surface = none
2. Water Rights: 98 ac-ft/yr
4. Reliable Potable Water Supply: 98 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: estimate at 68 gpcd (280 people)(365 days)/325,851 gals/ac-ft = approx. 20 ac-ft
2. Residential Outdoor: estimate at 40 ac-ft
3. Institutional: estimate 4 ac-ft
4. Commercial: none
5. Industrial/Stockwater: none

C. Secondary Water Use:

1. Residential: none
2. Institutional: none
3. Commercial: none
4. Industrial/Stockwater: none
EAGLE MOUNTAIN TOWN

Population = 9,500
Total No. of Connections = 2,175
Residential Connections = 2,002
Commercial Connections = 3
Institutional Connections = 170
Industrial/Stockwatering Connections = none
Average No. of People Per Residential Connection = 4.7
Average Lot Size = 0.50 acres
Percent of Lot Irrigated = 25%
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   - Springs = none
   - Wells = 4,300 ac-ft/yr
   - Surface = none
2. Water Rights: 1,145.4 ac-ft/yr
3. Maximum Potable Water Supply: 1,145.4 ac-ft/yr
4. Reliable Potable Water Supply: 1,145.4 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: 64.6 gpcd (9,500 persons) (365 days) ÷ 325,851 gals/ac-ft = 687.4 ac-ft
2. Residential Outdoor: Remainder: 1,371.2 – 687.4 = 683.8 ac-ft
3. Institutional: given: 922.6 ac-ft
4. Commercial: estimate 15 ac-ft
5. Industrial/Stockwater: none

C. Secondary Water Use:

1. Residential: none
2. Institutional: none
3. Commercial: none
4. Industrial/Stockwater: none
ELBERTA WATER COMPANY

Population = 280
Total No. of Connections = 64
Residential Connections = 61
Commercial Connections = none
Institutional Connections = 3
Industrial Connections = none
Average No. of People Per Residential Connection = 4.6
Average Lot Size = 1.00 acres
Percent of Lot Irrigated = 20%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   - Springs = none
   - Wells = 298.4 ac-ft/yr
   - Surface = none
2. Water Rights: 50.8 ac-ft/yr
3. Maximum Potable Water Supply: 50.8 ac-ft/yr
4. Reliable Potable Water Supply: 50.8 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: 68 gpcd (280 persons) (365 days) = 325,851
gals/ac-ft = 21.3 ac-ft
2. Residential Outdoor: estimate 32 connections at 0.6 ac-ft/connection = 19.2 ac-ft
3. Institutional: estimate 4.0 ac-ft
4. Commercial: none
5. Industrial/Stockwater: none

C. Secondary Water Use:

1. Residential: estimate 20 ac-ft for 32 connections
2. Institutional: 2.5 acre park at 2.4 ac-ft/acre = 6 ac-ft
3. Commercial: none
4. Industrial/Stockwater: none
ELK RIDGE CORPORATION

Population = 1,920  
Total No. of Connections = 491  
Residential Connections = 491  
Commercial Connections = none  
Institutional Connections = none  
Industrial Connections = none  
Average No. of People Per Residential Connection = 3.9  
Average Lot Size = 0.50 acres  
Percent of Lot Irrigated = 25%  
Domestic Wastewater Treatment = 50% Septic Tanks, 50% Treatment Plant

A. Water Supply:

1. Source Capacity:  
   • Springs = none  
   • Wells = 1,840 ac-ft/yr  
   • Surface = none  

2. Water Rights: 1,071.4 ac-ft/yr  

3. Maximum Potable Water Supply: 1,071.4 ac-ft/yr  

4. Reliable Potable Water Supply: 920 ac-ft/yr  

5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 62.6 gpcd (1,920 people)(365 days)/325,851 gals/ac-ft = 134.6 ac-ft/yr  

2. Residential Outdoor: remainder of given total use of 439.5 ac-ft/yr = 304.9 ac-ft/yr  

3. Institutional: none  

4. Commercial: none  

5. Industrial/Stockwater: none

C. Secondary Water Use:

1. Residential: none  

2. Institutional: none  

3. Commercial: none  

4. Industrial/Stockwater: none
FAIRFIELD IRRIGATION COMPANY

Population = 100 (40 on system, rest private domestic)
Total No. of Connections = 11
Residential Connections = 10
Commercial Connections = none
Institutional Connections = 1 (Camp Floyd)
Industrial Connections = none
Average No. of People Per Residential Connection = 4.0
Average Lot Size = 1.00 acres
Percent of Lot Irrigated = 25%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   - Springs = 96.7 ac-ft/yr
   - Wells = none
   - Surface = none
2. Water Rights: 2,628.2 ac-ft/yr
3. Maximum Potable Water Supply: 96.7 ac-ft/yr
4. Reliable Potable Water Supply: 96.7 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: estimate: 68 gpcd (40 persons) (365 days) ÷ 325,851 = 3.0 ac-ft
2. Residential Outdoor: estimate: 2 ac-ft
3. Institutional: estimate: 1.0 ac-ft
4. Commercial: none
5. Industrial/Stockwater: estimate: 2.0 ac-ft (stockwatering)

C. Secondary Water Use:

1. Residential: estimate 0.3 ac-ft each for 10 connections = 3.0 ac-ft
2. Institutional: estimate 20 ac-ft (irrigation of grounds)
3. Commercial: none
4. Industrial/Stockwater: 2 ac-ft stockwatering
GENOLA

Population = 1,100  
Total No. of Connections = 350  
Residential Connections = 325  
Commercial Connections = 7  
Institutional Connections = 3  
Industrial Connections = 15 (stockwatering)  
Average No. of People Per Residential Connection = 3.4  
Average Lot Size = 2.50 acres  
Percent of Lot Irrigated = 20%  
Domestic Wastewater Treatment = Septic System

A. **Water Supply:**

1. **Source Capacity:**
   - Springs = none
   - Wells = 871 ac-ft/yr
   - Surface = none
2. **Water Rights:** 2,914.8 ac-ft/yr
3. **Maximum Potable Water Supply:** 871 ac-ft/yr
4. **Reliable Potable Water Supply:** 435.5 ac-ft/yr
5. **Wholesale Potable Water Purchase Contract:** 161.3 (Santaquin)

B. **Primary Water Use:**

1. **Residential Indoor:** estimate at 71 gpcd(1,100 people)(365 days)/325,851 gals/ac-ft = 87.5 ac-ft
2. **Residential Outdoor:** estimate 40 ac-ft
3. **Institutional:** estimate 2.0 ac-ft
4. **Commercial:** estimate 0.5 ac-ft
5. **Industrial/Stockwater:** 7 dairies estimated at 130 ac-ft total

C. **Secondary Water Use:**

1. **Residential:** estimate at 0.75 ac-ft/connection = 250 ac-ft
2. **Institutional:** one park at 70 ac-ft
3. **Commercial:** none
4. **Industrial/Stockwater:** none
GOOSENEST WATER COMPANY

Population = 110
Total No. of Connections = 23
Residential Connections = 23
Commercial Connections = none
Institutional Connections = none
Industrial Connections = none
Average No. of People Per Residential Connection = 4.8
Average Lot Size = 5.0 acres
Percent of Lot Irrigated = 15%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   - Springs = 43.6 ac-ft/yr
   - Wells = 225.8 ac-ft/yr
   - Surface = none
2. Water Rights: 181.2 ac-ft/yr
3. Maximum Potable Water Supply: 128.5 ac-ft/yr
4. Reliable Potable Water Supply: 128.5 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 68 gpcd (110 persons) (365 days) ÷ 325,851 gals/ac-ft = 8.4 ac-ft
2. Residential Outdoor: Remainder: 37.6 – 8.4 = 29.2 ac-ft
3. Institutional: none
4. Commercial: none
5. Industrial: none

C. Secondary Water Use:

1. Residential: none
2. Institutional: none
3. Commercial: none
4. Industrial/Stockwater: none
GOSHEN CULINARY WATER

Population = 880
Total No. of Connections = 340
Residential Connections = 318
Commercial Connections = 2
Institutional Connections = 6
Industrial Connections = 10
Average No. of People Per Residential Connection = 2.8
Average Lot Size = 0.6 acres
Percent of Lot Irrigated = 40%
Domestic Wastewater Treatment = Septic

A. Water Supply:

1. Source Capacity:
   - Springs = 645.2 ac-ft/yr
   - Wells = none
   - Surface = none
2. Water Rights: 1,086 ac-ft/yr
3. Maximum Potable Water Supply: 645.2 ac-ft/yr
4. Reliable Potable Water Supply: 387.1 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimate: 70.4 gpcd (880 people) / 325,851 gals/ac-ft = 69.4 ac-ft
2. Residential Outdoor: remainder of given residential total of 148.1 ac-ft = 78.7 ac-ft
3. Institutional: given 29.1 ac-ft
4. Commercial: given 1.0 ac-ft
5. Industrial/Stockwater: given 25.5 ac-ft

C. Secondary Water Use:

1. Residential: estimate: 250 lots at 0.4 ac-ft per lot = 100 ac-ft
2. Institutional: estimate 18 ac-ft
3. Commercial: none
4. Industrial/Stockwater: none
HIDDEN CREEK WATER COMPANY

Population = 30
Total No. of Connections = 9
Residential Connections = 9
Commercial Connections = none
Institutional Connections = none
Industrial Connections = none
Average No. of People Per Residential Connection = 3.3
Average Lot Size = 0.6 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   - Springs = none
   - Wells = 1,613.1 ac-ft/yr
   - Surface = none
2. Water Rights: 724 ac-ft/yr
4. Reliable Potable Water Supply: 724 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: estimate (68 gpcd)(30 people)(365 days)/
   325,851 gals/ac-ft = 2.5 ac-ft
2. Residential Outdoor: estimate 50% irrigated at 2.4 ac-ft/acre = 6.5 ac-ft
3. Institutional: none
4. Commercial: none
5. Industrial/Stockwater: none

C. Secondary Water Use:

1. Residential: none
2. Institutional: none
3. Commercial: none
4. Industrial/Stockwater: none
HIGHLAND WATER COMPANY

Population = 10,000
Total No. of Connections = 2,681
Residential Connections = 2,626
Commercial Connections = 18
Institutional Connections = 33
Industrial Connections = 1
Average No. of People Per Residential Connection = 3.8
Average Lot Size = 0.4 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   - Springs = none
   - Wells = 5,645.5 ac-ft/yr
   - Surface = none
2. Water Rights: 10,280 ac-ft/yr
3. Maximum Potable Water Supply: 5,645.5 ac-ft/yr
4. Reliable Potable Water Supply: 2,823 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 62.2 gpcd (10,000 persons) (365 days) ÷ 325,851 gals/ac-ft = 696.7 ac-ft
2. Residential Outdoor: Remainder: 806.1 – 696.7 = 109.4 ac-ft
3. Institutional: given 250 ac-ft
4. Commercial: given 53.5 ac-ft
5. Industrial/Stockwater: given 21.8 ac-ft

C. Secondary Water Use:

1. Residential: estimate 2,500 ac-ft
2. Institutional: estimate 200 ac-ft
3. Commercial: estimate 300 ac-ft (includes Alpine Country Club)
4. Industrial/Stockwater: none
LEHI CITY PUBLIC WORKS

Population = 28,350
Total No. of Connections = 6,958
Residential Connections = 6,732
Commercial Connections = 149
Institutional Connections = 47
Industrial Connections = 5
Average No. of People Per Residential Connection = 4.2
Average Lot Size = 0.25 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   - Springs = 524.2 ac-ft/yr
   - Wells = 3,903.5 ac-ft/yr
   - Surface = none
2. Water Rights: 12,417.3 ac-ft/yr
3. Maximum Potable Water Supply: 4,427.7 ac-ft/yr
4. Reliable Potable Water Supply: 2,476.2 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: given 2,118.2 ac-ft
2. Residential Outdoor: 100% secondary for all outdoor watering
3. Institutional: given 250.0 ac-ft
4. Commercial: given 253.4 ac-ft
5. Industrial/Stockwater: estimate 25.0 ac-ft

C. Secondary Water Use:

1. Residential: estimate at 4,300 ac-ft
2. Institutional: estimate 200 ac-ft
3. Commercial: estimate 500 ac-ft (includes Thanksgiving Point)
4. Industrial/Stockwater: none
LINDON CITY CULINARY WATER

Population = 9,500
Total No. of Connections = 3,226
Residential Connections = 2,924
Commercial Connections = 162
Institutional Connections = 120
Industrial Connections = 20
Average No. of People Per Residential Connection = 3.2
Average Lot Size = 1.00 acres
Percent of Lot Irrigated = 30%
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   - Springs = 204.9 ac-ft/yr
   - Wells = 5,532.6 ac-ft/yr
   - Surface = none
2. Water Rights: 10,457.4 ac-ft/yr
3. Maximum Potable Water Supply: 5,737.5 ac-ft/yr
4. Reliable Potable Water Supply: 2,889.3 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 63.3 gpcd (9,500 persons) (365 days)
   \[ \frac{325,851 \text{ gals/ac-ft}}{325,851 \text{ gals/ac-ft}} = 674.1 \text{ ac-ft} \]
2. Residential Outdoor: with 90% secondary, estimate 200.0 ac-ft
3. Institutional: estimate 150.0 ac-ft
4. Commercial: estimate 200.0 ac-ft
5. Industrial/Stockwater: estimate 200.0 ac-ft

C. Secondary Water Use:

1. Residential: estimate 900 ac-ft
2. Institutional: estimate 400 ac-ft
3. Commercial: estimate 50 ac-ft
4. Industrial/Stockwater: none
MANILA CULINARY WATER COMPANY

Population = 2,900
Total No. of Connections = 658
Residential Connections = 650
Commercial Connections = 5
Institutional Connections = 3
Industrial Connections = none
Average No. of People Per Residential Connection = 4.4
Average Lot Size = 0.50 acres
Percent of Lot Irrigated = 30%
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   - Springs = 282.4 ac-ft/yr
   - Wells = 1,556.2 ac-ft/yr
   - Surface = none ac-ft/yr
2. Water Rights: 1,838.6 ac-ft/yr
3. Maximum Potable Water Supply: 1,838.6 ac-ft/yr
4. Reliable Potable Water Supply: 898.1 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 66 gpcd (2,900 persons) (365 days) × 325,851 gals/ac-ft = 214.4 ac-ft
2. Residential Outdoor: Remainder of total given: 1,072.5 – 214.4 = 858.1 ac-ft
3. Institutional: given 22.6 ac-ft
4. Commercial: given 33.9 ac-ft
5. Industrial/Stockwater: none

C. Secondary Water Use:

1. Residential: none
2. Institutional: none
3. Commercial: none
4. Industrial/Stockwater: none
MAPLETON CITY

Population = 6,490
Total No. of Connections = 1,757
Residential Connections = 1,750
Commercial Connections = 2
Institutional Connections = 4
Industrial Connection = 1
Average No. of People Per Residential Connection = 3.7
Average Lot Size = 1.00 acres
Percent of Lot Irrigated = 30%
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   - Springs = 1,903.3 ac-ft/yr
   - Wells = 4,718.0 ac-ft/yr
   - Surface = none
2. Water Rights: 9,455.0 ac-ft/yr
3. Maximum Potable Water Supply: 6,621.3 ac-ft/yr
4. Reliable Potable Water Supply: 3,501.0 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated at 65.3 gpcd (6,490 people) (365 days)/325,851 gals/ac-ft = 475.0 ac-ft
2. Residential Outdoor: Remainder of given total 1,520.0 – 475.0 = 1,045.0 ac-ft
3. Institutional: given 16.1 ac-ft
4. Commercial: given 10.6 ac-ft
5. Industrial/Stockwater: given 8.4 ac-ft

C. Secondary Water Use:

1. Residential: given 30% with secondary – 520 connections, estimate 400 ac-ft
2. Institutional: none
3. Commercial: none
4. Industrial/Stockwater: none
NORTH FORK SPECIAL SERVICE DISTRICT

Population = 200
Total No. of Connections = 314
Residential Connections = 300
Commercial Connections = 4
Institutional Connections = 10
Industrial/Stockwatering Connections = none
Average No. of People Per Residential Connection = 1.5 (resort community)
Average Lot Size = 0.50 acres
Percent of Lot Irrigated = 20%
Domestic Wastewater Treatment = Septic Tanks

A. **Water Supply:**

1. **Source Capacity:**
   - Springs = 967.8 ac-ft/yr
   - Wells = none
   - Surface = none
2. **Water Rights:** 620.8 ac-ft/yr
3. **Maximum Potable Water Supply:** 620.8 ac-ft/yr
4. **Reliable Potable Water Supply:** 581.7 ac-ft/yr
5. **Wholesale Potable Water Purchase Contract:** none

B. **Primary Water Use:**

1. **Residential Indoor:** estimated at 50.0 ac-ft
2. **Residential Outdoor:** estimated at 100.0 ac-ft (told 30 large users, remainder under 5,000 gallons per month)
3. **Institutional:** estimated: 50.0 ac-ft
4. **Commercial:** given 105.0 ac-ft
5. **Industrial/Stockwater:** none

C. **Secondary Water Use:**

1. **Residential:** none
2. **Institutional:** none
3. **Commercial:** none
4. **Industrial/Stockwater:** none
OREM CITY

Population = 88,900
Total No. of Connections = 20,330
Residential Connections = 18,388
Commercial Connections = 1,900
Institutional Connections = 90
Industrial Connections = 2
Average No. of People Per Residential Connection = 4.8
Average Lot Size = 0.25 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   - Springs = 2,984 ac-ft/yr
   - Wells = 18,306 ac-ft/yr
   - Surface = none
2. Water Rights: 21,804 ac-ft/yr
3. Maximum Potable Water Supply: 21,290 ac-ft/yr
4. Reliable Potable Water Supply: 14,330 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: 14,000 ac-ft
   (Metropolitan Water District of Orem)

B. Primary Water Use:

1. Residential Indoor: Estimated: 68 gpcd (88,900 persons) (365 days)
   \[ \frac{325,851 \text{ gals/ac-ft}}{6,771.3 \text{ ac-ft}} = 6,771.3 \text{ ac-ft} \]
2. Residential Outdoor: remainder of given total of 15,613.1 ac-ft – 6,771.3 ac-ft = 8,841.8 ac-ft
3. Institutional: estimate 2,000 ac-ft
4. Commercial: estimate 3,000 ac-t
5. Industrial/Stockwater: estimate 550 ac-ft

C. Secondary Water Use:

1. Residential: 292 ac-ft given as total, estimate 172 ac-ft residential
2. Institutional: none
3. Commercial: estimate 120 ac-ft (includes Cascade Fairways g.c.)
4. Industrial/Stockwater: none
PAYSON MUNICIPAL WATER SYSTEM

Population = 15,000
Total No. of Connections = 6,046
Residential Connections = 5,818
Commercial Connections = estimate 170
Institutional Connections = estimate 50
Industrial Connections = 8
Average No. of People Per Residential Connection = 2.6
Average Lot Size = 0.30 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Treatment Plant

A. **Water Supply:**

1. **Source Capacity:**
   - Springs = 1,500 ac-ft/yr
   - Wells = 5,800 ac-ft/yr
   - Surface = none
2. **Water Rights:** 13,441 ac-ft/yr
3. **Maximum Potable Water Supply:** 7,300 ac-ft/yr
4. **Reliable Potable Water Supply:** 3,800 ac-ft/yr
5. **Wholesale Potable Water Purchase Contract:** none

B. **Primary Water Use:**

1. **Residential Indoor:** 68 gpcd (15,000 persons) (365 days) ÷ 325,851 gals/ac-ft = 1,142.5 ac-ft
2. **Residential Outdoor:** remainder of total given 1,168.9 ac-ft − 1,142.5 = 26.4 ac-ft (low due to extensive secondary to all customers)
3. **Institutional:** estimate 260.0 ac-ft
4. **Commercial:** estimate 170.0 ac-ft
5. **Industrial/Stockwater:** estimate 40 ac-ft (mostly stockwatering)

C. **Secondary Water Use:**

1. **Residential:** given 5,700 connections, estimate at 2.2 ac-ft/acre and 0.2 acres per lot irrigated = approx. 2,500 ac-ft
2. **Institutional:** estimate 200 ac-ft
3. **Commercial:** estimate 250 ac-ft (includes Gladstan golf course)
4. **Industrial/Stockwater:** none
PLEASANT GROVE CITY

Population = 25,000
Total No. of Connections = 6,021
Residential Connections = 5,600
Commercial Connections = 340
Institutional Connections = 26
Industrial Connections = 5
Average No. of People Per Residential Connection = 4.5
Average Lot Size = 0.25 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   - Springs = 1,500 ac-ft/yr
   - Wells = 14,194.4 ac-ft/yr
   - Surface = none
2. Water Rights: 14,500 ac-ft/yr
3. Maximum Potable Water Supply: 14,500 ac-ft/yr
4. Reliable Potable Water Supply: 8,000 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: 66 gpcd (25,000 persons) (365 days) ÷ 325,851 gals/ac-ft = 1,850 ac-ft
2. Residential Outdoor: remainder of given 4,580 ac-ft – 1,850 ac-ft = 2,730 ac-ft
3. Institutional: given 343.3 ac-ft
4. Commercial: given 515 ac-ft
5. Industrial/Stockwater: estimate 171.7 ac-ft

C. Secondary Water Use:

1. Residential: estimate 250 ac-ft
2. Institutional: estimate 100 ac-ft
3. Commercial: none
4. Industrial/Stockwater: estimate 50 ac-ft
PROVO CITY

Population = 111,630
Total No. of Connections = 17,319
Residential Connections = 15,584
Commercial Connections = 1,671
Institutional Connections = 45
Industrial Connections = 19
Average No. of People Per Residential Connection = 7.2 (large student population in multi-family housing and large families make for the high number)
Average Lot Size = 0.25 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   - Springs = 12,000 ac-ft/yr
   - Wells = 37,500 ac-ft/yr
   - Surface = 3,000 ac-ft/yr
2. Water Rights: 55,000 ac-ft/yr
3. Maximum Potable Water Supply: 52,500 ac-ft/yr
4. Reliable Potable Water Supply: 28,750 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: 8,000 ac-ft (Metropolitan Water District of Provo)

B. Primary Water Use:

1. Residential Indoor: estimate indoor at 69 gpcd (111,630 people)(365 days)/325,851 gals/ac-ft = 8,627.8 ac-ft
2. Residential Outdoor: remainder of given total residential of 13,538.5 ac-ft plus 5,000 ac-ft of "unaccounted" = 9,910.7 ac-ft
3. Institutional: given 3,369.0 ac-ft
4. Commercial: given 7,101.0 ac-ft
5. Industrial/Stockwater: given 725.0 ac-ft

C. Secondary Water Use:

1. Residential: estimate 1,100 ac-ft
2. Institutional: estimate 675 ac-ft (includes BYU and East Bay g.c.)
3. Commercial: estimate 600 ac-ft (includes Riverside Country Club g.c. and Seven Peaks Resort)
4. Industrial/Stockwater: estimate 60 ac-ft (outdoor watering)
SALEM MUNICIPAL WATER

Population = 4,900
Total No. of Connections = 1,400
Residential Connections = 1,333
Commercial Connections = 45
Institutional Connections = 20
Industrial Connections = 2
Average No. of People Per Residential Connection = 3.7
Average Lot Size = 0.30 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Sewage Lagoons

A. Water Supply:

1. Source Capacity:
   - Springs = 905 ac-ft/yr
   - Wells = 2,236 ac-ft/yr
   - Surface = none
2. Water Rights: 4,675 ac-ft/yr
3. Maximum Potable Water Supply: 3,141 ac-ft/yr
4. Reliable Potable Water Supply: 2,635 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: estimated: 68 gpcd (4,900 persons) (365 days)/325,851 gals/ac-ft = approx. 375 ac-ft
2. Residential Outdoor: estimated at 830 ac-ft
3. Institutional: estimate 115 ac-ft
4. Commercial: estimate 30 ac-ft
5. Industrial/Stockwater: estimate 15 ac-ft (dairy)

C. Secondary Water Use:

1. Residential: estimated at 100 ac-ft (given 25% with secondary)
2. Institutional: none
3. Commercial: none
4. Industrial/Stockwater: none
SANTAQUIN MUNICIPAL WATER SYSTEM

Population = 5,800
Total No. of Connections = 1,641
Residential Connections = 1,607
Commercial Connections = 25
Institutional Connections = 5
Industrial Connections = 4
Average No. of People Per Residential Connection = 3.6
Average Lot Size = 0.25 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Sewage Lagoons

A. Water Supply:

1. Source Capacity:
   - Springs = 1,500 ac-ft/yr
   - Wells = 1,600 ac-ft/yr
   - Surface = none
2. Water Rights: 5,068 ac-ft/yr
3. Maximum Potable Water Supply: 3,100 ac-ft/yr
4. Reliable Potable Water Supply: 1,700 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 67 gpcd (5,800 persons) (365 days) ÷ 325,851 gals/ac-ft = 435.3 ac-ft
2. Residential Outdoor: Remainder of given residential total of: 841.8 ac-ft – 435.3 ac-ft = 406.5 ac-ft
3. Institutional: given 4 mg, round to 15 ac-ft
4. Commercial: given 14 mg, round to 45 ac-ft
5. Industrial/Stockwater: given 3 mg, round to 10 ac-ft

C. Secondary Water Use:

1. Residential: estimate 200 ac-ft (from spring bypass)
2. Institutional: estimate 100 ac-ft (also from spring bypass)
3. Commercial: none
4. Industrial/Stockwater: none
SARATOGA SPRING MUTUAL

Population = 6,000
Total No. of Connections = 1,500
Residential Connections = 1,494
Commercial Connections = 2
Institutional Connections = 4
Industrial Connections = none
Average No. of People Per Residential Connection = 4.0
Average Lot Size = 0.25 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   - Springs = none
   - Wells = 1,935 ac-ft/yr
   - Surface = none

2. Water Rights: 905 ac-ft/yr

3. Maximum Potable Water Supply: 905 ac-ft/yr

4. Reliable Potable Water Supply: 905 ac-ft/yr

5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 67 gpcd (6,000 persons) (365 days) ÷ 325,851 = 450 ac-ft

2. Residential Outdoor: Remainder: 640 ac-ft total minus 50 ac-ft inst. and comm.=590 ac-ft – 450 ac-ft = 140 ac-ft

3. Institutional: estimate 45 ac-ft

4. Commercial: estimate 5 ac-ft

5. Industrial/Stockwater: none

C. Secondary Water Use:

1. Residential: estimate 1400 lots (0.2 ac-ft/lot) = approx. 300 ac-ft/yr

2. Institutional: none

3. Commercial: 300 ac-ft (Townscove golf course)

4. Industrial/Stockwater: none
SPANISH FORK MUNICIPAL WATER

Population = 23,000
Total No. of Connections = 6,930
Residential Connections = 6,450
Commercial Connections = 400
Institutional Connections = 60
Industrial Connections = 20
Average No. of People Per Residential Connection = 3.3
Average Lot Size = 0.25 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   - Springs = 12,762.4 ac-ft/yr
   - Wells = 1,935.6 ac-ft/yr
   - Surface = none
2. Water Rights: 20,640 ac-ft/yr
3. Maximum Potable Water Supply: 14,698 ac-ft/yr
4. Reliable Potable Water Supply: 8,750.5 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 68 gpcd (23,000 persons)(365 days) ÷ 325,851 gals/ac-ft = 1,751.9 ac-ft
2. Residential Outdoor: Remainder: 2,015 ac-ft plus 100 ac-ft estimated unmetered = 363 ac-ft
3. Institutional: given 246.4 ac-ft of use, plus 150 ac-ft estimated unmetered, plus 450 ac-ft of given “losses” = 846.4 ac-ft
4. Commercial: given 266.2 ac-ft of use, plus 50 ac-ft estimated construction water and 100 ac-ft of unmetered = 416.2 ac-ft
5. Industrial/Stockwater: given 162.9 ac-ft plus 50 ac-ft estimated unmetered = 212.9 ac-ft

C. Secondary Water Use:

1. Residential: estimate 3,200 ac-ft
2. Institutional: estimate 500 ac-ft (includes Spanish Oaks g.c.)
3. Commercial: estimate 100 ac-ft
4. Industrial/Stockwater: estimate 100 ac-ft
SPRING LAKE WATERWORKS COMPANY

Population = 430
Total No. of Connections = 120
Residential Connections = 115
Commercial Connections = 4
Institutional Connections = 1
Industrial Connection = 10
Average No. of People Per Residential Connection = 3.7
Average Lot Size = 2.50 acres
Percent of Lot Irrigated = 10%
Domestic Wastewater Treatment = Septic System

A. Water Supply:

1. Source Capacity:
   - Springs = 144.8 ac-ft/yr
   - Wells = 658.1 ac-ft/yr
   - Surface = none
2. Water Rights: 673.3 ac-ft/yr
3. Maximum Potable Water Supply: 673.3 ac-ft/yr
4. Reliable Potable Water Supply: 415.9 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: estimated: 68 gpcd (430 persons) (365 days) = 325,851 gals/ac-ft = 33.0 ac-ft
2. Residential Outdoor: estimate at 2x indoor = 66.0 ac-ft
3. Institutional: estimate 5.0 ac-ft
4. Commercial: estimate 2.0 ac-ft
5. Industrial/Stockwater: estimate 10.0 ac-ft (stockwatering)

C. Secondary Water Use:

1. Residential: estimate 30 ac-ft
2. Institutional: estimate 8 ac-ft
3. Commercial: none
4. Industrial/Stockwater: none
SPRINGDALE PLAT A & B

Population = 100
Total No. of Connections = 26
Residential Connections = 26
Commercial Connections = none
Institutional Connections = 1
Industrial Connections = none
Average No. of People Per Residential Connection = 3.8
Average Lot Size = 0.30 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   • Springs = 263 ac-ft/yr
   • Wells = none
   • Surface = none

2. Water Rights: NA

3. Maximum Potable Water Supply: 206.5 ac-ft/yr (share agreement with Provo City)

4. Reliable Potable Water Supply: 123.9 ac-ft/yr

5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 68 gpcd (100 persons) (365 days)
   \[ \frac{325,851}{325,851} \text{ gals/ac-ft} = 7.6 \text{ ac-ft} \]

2. Residential Outdoor: estimate at 0.5 ac-ft per connection = 13.0 ac-ft

3. Institutional: estimate 1.5 ac-ft

4. Commercial: none

5. Industrial/Stockwater: none

C. Secondary Water Use:

1. Residential: none

2. Institutional: none

3. Commercial: none

4. Industrial/Stockwater: none
SPRINGVILLE WATER DEPARTMENT

Population = 24,000
Total No. of Connections = 6,767
Residential Connections = 6,345
Commercial Connections = 322
Institutional Connections = 54
Industrial Connections = 8
Average No. of People Per Residential Connection = 3.8
Average Lot Size = 0.25 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   • Springs = 6,290.7 ac-ft/yr
   • Wells = 12,781.5 ac-ft/yr
   • Surface = none
2. Water Rights: 19,286.4 ac-ft/yr
3. Maximum Potable Water Supply: 14,717.1 ac-ft/yr
4. Reliable Potable Water Supply: 10,164.4 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 69 gpcd (24,000 persons) (365 days) ÷ 325,851 gals/ac-ft = 1,855.0 ac-ft
2. Residential Outdoor: remainder of given residential total of 3,841.6 – 1,855.0 ac-ft = 1,986.6 ac-ft
3. Institutional: given 190.3 ac-ft
4. Commercial: given 890.3 ac-ft
5. Industrial/Stockwater: 1,945.0 ac-ft

C. Secondary Water Use:

1. Residential: estimate 700 customers at 0.5 ac-ft each = 350 ac-ft
2. Institutional: 253 ac-ft (Hobble Creek g.c.)
3. Commercial: none
4. Industrial/Stockwater: estimate 50 ac-ft
UTAH STATE HOSPITAL

Population = 500 (average of staff plus patients)
Total No. of Connections = NA
Residential Connections = NA
Commercial Connections = NA
Institutional Connections = NA
Industrial Connections = NA
Average No. of People Per Residential Connection = NA
Average Lot Size = NA
Percent of Lot Irrigated = NA
Domestic Wastewater Treatment = Treatment Plant

A. Water Supply:

1. Source Capacity:
   - Springs = 250.0 ac-ft/yr
   - Wells = 725.9 ac-ft/yr
   - Surface = none
2. Water Rights: 2,983.7 ac-ft/yr
3. Maximum Potable Water Supply: 975.9 ac-ft/yr
4. Reliable Potable Water Supply: 512.9 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: none
2. Residential Outdoor: none
3. Institutional: estimate total 175.0 ac-ft
4. Commercial: none
5. Industrial/Stockwater: none

C. Secondary Water Use:

1. Residential: none
2. Institutional: estimate 75 ac-ft
3. Commercial: none
4. Industrial/Stockwater: none
WHITE HILLS SUBDIVISION

Population = 400
Total No. of Connections = 110
Residential Connections = 110
Commercial Connections = none
Institutional Connections = none
Industrial Connections = none
Average No. of People Per Residential Connection = 3.6
Average Lot Size = 0.50 acres
Percent of Lot Irrigated = 30%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   - Springs = none
   - Wells = 2,783 ac-ft/yr
   - Surface = none
2. Water Rights: 5,792 ac-ft/yr
3. Maximum Potable Water Supply: 2,783.0 ac-ft/yr
4. Reliable Potable Water Supply: 1,391.5 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 67 gpcd (400 persons) (365 days)/(325,851 gals/ac-ft) = 30 ac-ft
2. Residential Outdoor: Remainder from given total: 105 ac-ft – 30 ac-ft = 75 ac-ft
3. Institutional: none
4. Commercial: 1 ac-ft (outside common landscaping)
5. Industrial/Stockwater: none

C. Secondary Water Use:

1. Residential: none
2. Institutional: none
3. Commercial: none
4. Industrial/Stockwater: none
WOODLAND HILLS

Population = 1,200
Total No. of Connections = 266
Residential Connections = 266
Commercial Connections = none
Institutional Connections = none
Industrial Connections = none
Average No. of People Per Residential Connection = 4.5
Average Lot Size = 2.0 acres
Percent of Lot Irrigated = 15%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:
   1. Source Capacity:
      ● Springs = 161 ac-ft/yr
      ● Wells = 379 ac-ft/yr
      ● Surface = none
   2. Water Rights: 332.4 ac-ft/yr
   3. Maximum Potable Water Supply: 332.4 ac-ft/yr
   4. Reliable Potable Water Supply: 274.5 ac-ft/yr
   5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:
   1. Residential Indoor: Estimated: 65 gpcd (1200 persons) (365 days)
      \[ \frac{65}{325,851} \text{ gals/ac-ft} = 0.20 \text{ ac-ft} \]
   2. Residential Outdoor: Remainder of given total 189.6 ac-ft – 10.0
      estimated institutional- 87.4 ac-ft = 92.2 ac-ft
   3. Institutional: estimate 10.0 ac-ft
   4. Commercial: none
   5. Industrial/Stockwater: none

C. Secondary Water Use:
   1. Residential: none
   2. Institutional: none
   3. Commercial: none
   4. Industrial/Stockwater: none
APPENDIX D

WASATCH COUNTY
PUBLIC COMMUNITY WATER SYSTEMS
DETAILED DESCRIPTIONS
CANYON MEADOWS

Population = 40
Total No. of Connections = 13
Residential Connections = 13
Commercial Connections = none
Institutional Connections = none
Industrial Connection = none
Average No. of People Per Residential Connection = 3.7
Average Lot Size = 2.50 acres
Percent of Lot Irrigated = 5%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:
   1. Source Capacity:
      • Springs = 190.6 ac-ft/yr
      • Wells = 72.0 ac-ft/yr
      • Surface = none
   2. Water Rights: 313.7 ac-ft/yr
   3. Maximum Potable Water Supply: 233.0 ac-ft/yr
   4. Reliable Potable Water Supply: 186.4 ac-ft/yr
   5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:
   1. Residential Indoor: estimated: 80 gpcd (40 persons) (365 days) ÷ 325,851 gals/ac-ft = approx. 4.0 ac-ft
   2. Residential Outdoor: = estimate at 0.5 ac-ft per connection = approx. 7.0 ac-ft
   3. Institutional: estimate 5 ac-ft (clubhouse with landscaping and swimming pool)
   4. Commercial: none
   5. Industrial/Stockwater: none

C. Secondary Water Use:
   1. Residential: none
   2. Institutional: none
   3. Commercial: none
   4. Industrial/Stockwater: none
CENTER CREEK CULINARY WATER COMPANY

Population = 175
Total No. of Connections = 70
Residential Connections = 70
Commercial Connections = none
Institutional Connections = none
Industrial Connections = none
Average No. of People Per Residential Connection = 2.5
Average Lot Size = 1.00 acres
Percent of Lot Irrigated = 20%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:
   1. Source Capacity:
      - Springs = 80.7 ac-ft/yr
      - Wells = none
      - Surface = none
   2. Water Rights: 90.5 ac-ft/yr
   3. Maximum Potable Water Supply: 80.7 ac-ft/yr
   4. Reliable Potable Water Supply: 48.4 ac-ft/yr
   5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:
   1. Residential Indoor: Estimated: 78.4 gpcd (150 persons) (365 days) ÷ 325,851 gals/ac-ft = 13.2 ac-ft
   2. Residential Outdoor: Remainer: 28.4 – 13.2 = 15.2 ac-ft
   3. Institutional: none
   4. Commercial: none
   5. Industrial/Stockwater: none

C. Secondary Water Use:
   1. Residential: estimate 27 ac-ft
   2. Institutional: none
   3. Commercial: none
   4. Industrial/Stockwater: none
CHARLESTON WATER CONSERVANCY DISTRICT

Population = 520
Total No. of Connections = 224
Residential Connections = 218
Commercial Connections = 2
Institutional Connections = 2
Industrial Connections = 2 (dairy farms)
Average No. of People Per Residential Connection = 3.9
Average Lot Size = 1.00 acres
Percent of Lot Irrigated = 20%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   - Springs = 72.6 ac-ft/yr
   - Wells = 645.2 ac-ft/yr
   - Surface = none
2. Water Rights: 278.7 ac-ft/yr
3. Maximum Potable Water Supply: 170.3 ac-ft/yr
4. Reliable Potable Water Supply: 141.3 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 72.4 gpcd (520 persons) (365 days) ÷ 325,851 gals/ac-ft = 42.2 ac-ft
2. Residential Outdoor: Remainder of given total of 48,865,274 = 150.0 ac-ft minus others at 18.0 ac-ft = 89.8 ac-ft
3. Institutional: estimate 2.5 ac-ft
4. Commercial: estimate 0.5 ac-ft
5. Industrial/Stockwater: estimate 15.0 ac-ft

C. Secondary Water Use:

1. Residential: estimated 168 connections at 0.5 ac-ft per connection = approx. 80 ac-ft
2. Institutional: none
3. Commercial: none
4. Industrial/Stockwater: none
COUNTRY ESTATES MOBILE HOMES

Population = 200
Total No. of Connections = 100
Residential Connections = 100 (average yearly use)
Commercial Connections = none
Institutional Connections = none
Industrial Connections = none
Average No. of People Per Residential Connection = 2.0
Average Lot Size = 1.0 acre total irrigated area
Percent of Lot Irrigated = NA
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   • Springs = none
   • Wells = 64.6 ac-ft/yr
   • Surface = none
2. Water Rights: 68.2 ac-ft/yr
3. Maximum Potable Water Supply: 64.6 ac-ft/yr
4. Reliable Potable Water Supply: 32.3 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: estimated: 50 gpcd (200 persons) (365 days)
   ÷ 325,851 gals/ac-ft = 11.2 ac-ft
2. Residential Outdoor: all secondary
3. Institutional: none
4. Commercial: none
5. Industrial/Stockwater: none

C. Secondary Water Use:

1. Residential: estimate 3.0 ac-ft
2. Institutional: none
3. Commercial: none
4. Industrial/Stockwater: none
DANIEL DOMESTIC WATER COMPANY

Population = 340  
Total No. of Connections = 124  
Residential Connections = 123  
Commercial Connections = none  
Institutional Connections = none  
Industrial Connections = 1  
Average No. of People Per Residential Connection = 3.1  
Average Lot Size = 2.00 acres  
Percent of Lot Irrigated = 20%  
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:  
   - Springs = 235.5 ac-ft/yr  
   - Wells = none  
   - Surface = none
2. Water Rights: 258.5 ac-ft/yr
3. Maximum Potable Water Supply: 235.5 ac-ft/yr
4. Reliable Potable Water Supply: 141.3 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 72 gpcd (340 persons) (365 days)  
   \[ \frac{72 \text{ gpcd} \times 365}{325,851 \text{ gals/ac-ft}} = 28.6 \text{ ac-ft} \]
2. Residential Outdoor: Remainder of given 23,830,800 total = 73.1 ac-ft  
   \[ 23,830,800 - 28.6 \text{ ac-ft} = 44.5 \text{ ac-ft} \]
3. Institutional: none
4. Commercial: none
5. Industrial/Stockwater: given 0.1 ac-ft

C. Secondary Water Use:

1. Residential: estimate total outdoor water required at 111.6 ac-ft  
   minus culinary of 44.5 ac-ft = 67.1 ac-ft
2. Institutional: none
3. Commercial: none
4. Industrial/Stockwater: none
HEBER CITY CORPORATION WATER

Population = 8,640  
Total No. of Connections = 2,987  
Residential Connections = 2,617  
Commercial Connections = 253  
Institutional Connections = 44  
Industrial Connections = 73  
Average No. of People Per Residential Connection = 3.6  
Average Lot Size = 0.30 acres  
Percent of Lot Irrigated = 50%  
Domestic Wastewater Treatment = Treatment Plant (lagoons)

A. Water Supply:

1. Source Capacity:
   - Springs = 2,887.3 ac-ft/yr
   - Wells = 2,693.8 ac-ft/yr
   - Surface = none
2. Water Rights: 5,146.6 ac-ft/yr
3. Maximum Potable Water Supply: 5,146.6 ac-ft/yr
4. Reliable Potable Water Supply: 2,862.4 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 71 gpcd (8,640 persons) (365 days) ÷ 325,851 gals/ac-ft = 687.1 ac-ft
2. Residential Outdoor: Remainder of given total of 488,438,520 gals or 1,499.0 ac-ft – 687.1 ac-ft = 811.9 ac-ft
3. Institutional: given 43,658,969 gals = 134.0 ac-ft
4. Commercial: given 95,611,818 gals = 293.4 ac-ft
5. Industrial/Stockwater: given 11,273,017 gals = 34.6 ac-ft

C. Secondary Water Use:

1. Residential: estimate 300 ac-ft total: 250 ac-ft residential
2. Institution: remainder of total estimate = 50 ac-ft
3. Commercial: none
4. Industrial/Stockwater: none
INTERLAKEN MUTUAL WATER COMPANY

Population = 270
Total No. of Connections = 125
Residential Connections = 125
Commercial Connections = none
Institutional Connections = none
Industrial Connections = none
Average No. of People Per Residential Connection = 2.4
Average Lot Size = 0.60 acres
Percent of Lot Irrigated = 20%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   • Springs = none
   • Wells = 364.5 ac-ft/yr
   • Surface = none
2. Water Rights: 437.8 ac-ft/yr
3. Maximum Potable Water Supply: 364.5 ac-ft/yr
4. Reliable Potable Water Supply: 182.2 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 80 gpcd (300 persons) (365 days)
   \[\frac{325,851 \text{ gals/ac-ft}}{325,851 \text{ gals/ac-ft}} = 24.2 \text{ ac-ft}\]
2. Residential Outdoor: Remainder of given total of 51.1 ac-ft – 24.2
   ac-ft = 26.9 ac-ft
3. Institutional: none
4. Commercial: none
5. Industrial/Stockwater: none

C. Secondary Water Use:

1. Residential: none
2. Institutional: none
3. Commercial: none
4. Industrial/Stockwater: none
JORDANELLE SPECIAL SERVICE DISTRICT

Population = 1,200
Total No. of Connections = 41 (32 are 10 unit or more multi-housing)
Residential Connections = 39 (estimated 500 units)
Commercial Connections = 1
Institutional Connections = 1
Industrial Connections = none
Average No. of People Per Residential Connection = 2.5
Average Lot Size = NA
Percent of Lot Irrigated = about 30 total irrigated acres
Domestic Wastewater Treatment = septic system

A. **Water Supply:**

1. **Source Capacity:**
   - Springs = none
   - Wells = 300 ac-ft/yr
   - Surface = 4,000 ac-ft/yr
2. **Water Rights:** 4,310 ac-ft/yr
3. **Maximum Potable Water Supply:** 4,300 ac-ft/yr
4. **Reliable Potable Water Supply:** 4,150 ac-ft/yr
5. **Wholesale Potable Water Purchase Contract:** none

B. **Primary Water Use:**

1. **Residential Indoor:** Estimated: 68 gpcd (1,200 persons) (365 days) ÷ 325,851 gals/ac-ft = 91.4 ac-ft
2. **Residential Outdoor:** Remainder of given total 158.0 ac-ft – 91.4 ac-t = 66.6 ac-ft
3. **Institutional:** estimate 5.0 ac-ft
4. **Commercial:** given = 5.8 ac-ft
5. **Industrial/Stockwater:** none

C. **Secondary Water Use:**

1. **Residential:** none
2. **Institutional:** none
3. **Commercial:** none
4. **Industrial/Stockwater:** none
MIDWAY CITY WATER SYSTEM

Population = 2,480
Total No. of Connections = 1,063
Residential Connections = 1,036
Commercial Connections = 13
Institutional Connections = 10
Industrial Connections = 4
Average No. of People Per Residential Connection = 2.3
Average Lot Size = 0.50 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Treatment Plant (lagoons)

A. Water Supply:

1. Source Capacity:
   - Springs = 3,026.0 ac-ft/yr
   - Wells = 54.8 ac-ft/yr
   - Surface = none
2. Water Rights: 2,910 ac-ft/yr
3. Maximum Potable Water Supply: 2,897.8 ac-ft/yr
4. Reliable Potable Water Supply: 1,842.4 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: estimated at 70 gpcd (2,480 people)(365 days)/325,851 gals/ac-ft = 194.5 ac-ft
2. Residential Outdoor: estimate at 30% culinary with 1,046 connections (0.25 acres)(3 ac-ft/acre) = 235 ac-ft
3. Institutional: estimate 10 ac-ft
4. Commercial: 13 connections at an estimated 1.0 ac-ft/connection plus total use at Homestead resort = approximately 45.0 ac-ft
5. Industrial/Stockwater: estimate 4.0 ac-ft stockwatering

C. Secondary Water Use:

1. Residential: estimate 70% of 1046 connections at 0.25 acres per connection (3 ac-ft/acre) = approximately 550 ac-ft
2. Institutional: none
3. Commercial: estimate 240 ac-ft (includes Homestead g.c.)
4. Industrial/Stockwater: none
STORM HAVEN

Population = 110
Total No. of Connections = 52
Residential Connections = 52
Commercial Connections = none
Institutional Connections = none
Industrial Connections = none
Average No. of People Per Residential Connection = 2.1
Average Lot Size = 1.0 acres
Percent of Lot Irrigated = 40%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   - Springs = none
   - Wells = 88.7 ac-ft/yr
   - Surface = none
2. Water Rights: 60 ac-ft/yr
3. Maximum Potable Water Supply: 60 ac-ft/yr
4. Reliable Potable Water Supply: 30 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 85 gpcd (110 persons) (365 days)
   \[ \frac{325,851 \text{ gals/ac-ft}}{365 \text{ days}} = 10.5 \text{ ac-ft} \]
2. Residential Outdoor: remainder of given total of 5,696,570 gal = 17.5 ac-ft minus indoor at 10.5 ac-ft = 7.0 ac-ft
3. Institutional: none
4. Commercial: none
5. Industrial/Stockwater: none

C. Secondary Water Use:

1. Residential: given 50% access = 25 lots (0.40 acres irrigated) (3 ac-ft/acre) = 30 ac-ft
2. Institutional: none
3. Commercial: none
4. Industrial/Stockwater: none
SWISS ALPINE WATER COMPANY

Population = 300
Total No. of Connections = 88
Residential Connections = 88
Commercial Connections = none
Institutional Connections = none
Industrial Connections = none
Average No. of People Per Residential Connection = 3.4
Average Lot Size = 0.50 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   • Springs = 88.7 ac-ft/yr
   • Wells = none
   • Surface = none
2. Water Rights: 31.2 ac-ft/yr
4. Reliable Potable Water Supply: 31.2 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: Estimated: 65 gpcd (300 persons) (365 days) 
   \[
   \frac{325,851 \text{ gals/ac-ft}}{325,851 \text{ gals/ac-ft}} = 21 \text{ ac-ft}
   \]
2. Residential Outdoor: estimate at 0.35 ac-ft/lot total use (88 lots) = 31 ac-ft minus indoor use at 21 ac-ft = 10 ac-ft
3. Institutional: none
4. Commercial: none
5. Industrial/Stockwater: none

C. Secondary Water Use:

1. Residential: none
2. Institutional: none
3. Commercial: none
4. Industrial/Stockwater: none
TIMBERLAKES WATER SPECIAL SERVICE DISTRICT

Population = 1000 people (estimated)
Total No. of Connections = 680
Residential Connections = 680
Commercial Connections = none
Institutional Connections = none
Industrial Connection = none
Average No. of People Per Residential Connection = 1.5
Average Lot Size = 2.00
Percent of Lot Irrigated = no outside watering allowing (all natural landscape)
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   - Springs = 320.0 ac-ft/yr
   - Wells = none
   - Surface = none
2. Water Rights: 637.0 ac-ft/yr
3. Maximum Potable Water Supply: 320.0 ac-ft/yr
4. Reliable Potable Water Supply: 192.0 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: estimate double of given July-December of 40 ac-ft = 80 ac-ft
2. Residential Outdoor: None (no outside watering allowed)
3. Institutional: none
4. Commercial: none
5. Industrial/Stockwater: none

C. Secondary Water Use:

1. Residential: none
2. Institutional: none
3. Commercial: none
4. Industrial/Stockwater: none
TWIN CREEKS SPECIAL SERVICE DISTRICT

Population = 710 people
Total No. of Connections = 165
Residential Connections = 165
Commercial Connections = none
Institutional Connections = none
Industrial Connection = none
Average No. of People Per Residential Connection = 4.3
Average Lot Size = 1.00 acres
Percent of Lot Irrigated = 30%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:
   1. Source Capacity:
      ● Springs = none
      ● Wells = none
      ● Surface = 500 ac-ft/yr
   2. Water Rights: 1,272.1 ac-ft/yr
   4. Reliable Potable Water Supply: 500 ac-ft/yr
   5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:
   1. Residential Indoor: estimate 68 gpcd(710 people)(365 days) / 325,851 gals/ac-ft = 54.1 ac-ft
   2. Residential Outdoor: remainder of given 59.9 total – 54.1 indoor =5.8 ac-ft
   3. Institutional: none
   4. Commercial: none
   5. Industrial/Stockwater: none

C. Secondary Water Use:
   1. Residential: estimate 0.6 ac-ft per connection(165 connections) = say 100 ac-ft
   2. Institutional: none
   3. Commercial: none
   4. Industrial/Stockwater: none
WALLSBURG TOWN WATER SYSTEM

Population = 460
Total No. of Connections = 111
Residential Connections = 110
Commercial Connections = 1
Institutional Connections = none
Industrial Connection = none
Average No. of People Per Residential Connection = 4.2
Average Lot Size = 1.0 acres
Percent of Lot Irrigated = 20%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   - Springs = 87.1
   - Wells = 66.9 ac-ft/yr
   - Surface = none
2. Water Rights: 179.3 ac-ft/yr
3. Maximum Potable Water Supply: 154.0 ac-ft/yr
4. Reliable Potable Water Supply: 119.2 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: estimate at 64 gpcd (460 people)(365 days)/325,851 gal/ac-ft = 33.0 ac-ft
2. Residential Outdoor: estimate total with given 2001 data at 168,513 gal per connection times 110 connections = total use of 56.9 ac-ft minus indoor, commercial, and institutional = 20.0 ac-ft
3. Institutional: estimate at 3.5 ac-ft
4. Commercial: estimate at 0.1 ac-ft
5. Industrial/Stockwater: none

C. Secondary Water Use:

1. Residential: given 80% with secondary, estimate at 0.6 ac-ft per connection = about 50 ac-ft
2. Institutional: with park, town hall, other misc. estimate 20 ac-ft
3. Commercial: none
4. Industrial/Stockwater: none
WOODLAND SOUTH HILLS IRRIGATION COMPANY

Population = 60
Total No. of Connections = 24 (9 with own wells)
Residential Connections = 27
Commercial Connections = none
Institutional Connections = none
Industrial Connection = none
Average No. of People Per Residential Connection = 3.6
Average Lot Size = 0.5 acres
Percent of Lot Irrigated = 50%
Domestic Wastewater Treatment = Septic Tanks

A. Water Supply:

1. Source Capacity:
   - Springs = none
   - Wells = 20 ac-ft
   - Surface = none
2. Water Rights: 37 ac-ft/yr
4. Reliable Potable Water Supply: 58 ac-ft/yr
5. Wholesale Potable Water Purchase Contract: none

B. Primary Water Use:

1. Residential Indoor: estimate 60 gpcd (60 people) (365 days) / 325,851 gals/ac-ft = 4.0 ac-ft
2. Residential Outdoor: remainder of given total of 9.3 ac-ft minus indoor at 4.0 ac-ft = 5.3 ac-ft
3. Institutional: none
4. Commercial: none
5. Industrial/Stockwater: given 0.2 ac-ft

C. Secondary Water Use:

1. Residential: estimate 25 ac-ft
2. Institutional: none
3. Commercial: none
4. Industrial/Stockwater: none
APPENDIX E

OREM MUNICIPAL WATER SYSTEM

WATER USE DATA FORM
## UTAH WATER USE DATA FORM
### DATA FOR 2003

**System Name:** Orem Municipal Water System  
**Address:** 56 North State  
**Orem, Utah 84057**

Contact Person: Bruce W. Chesnut, Director of Public Works  
E-Mail Address: bchesnut@ogremp.org  
Form Filled Out By: Lane Gray & Elden Olsen

### I. STORAGE INVENTORY:
- **Total treated storage capacity:** 12,440,000 gallons  
- **Number of tanks:** 6

### II. SOURCE INVENTORY:

#### 1. Source Name: Utah Valley Water Treatment Plant  
- **Type:** RS  
- **Location:** See 1, TSS, RJE, B&M  
- **WR Number:**

<table>
<thead>
<tr>
<th>Units of Measurement: Gal. X 1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAN</td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td>149,016</td>
</tr>
</tbody>
</table>

#### 2. Source Name: Alum Springs  
- **Type:** SP  
- **Location:** See 33, TSS, RJE, SLB&M  
- **WR Number:** 55-4160, 55-7063

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<tbody>
<tr>
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<tr>
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<tr>
<td>36,379</td>
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</table>
3. **Source Name:** Canyon Springs  
   **Type:** spring  
   **Location:** Sec 6, T6S, R3E, SLB&M  
   **WR Number:** 55-3767  
   **Method of measurement:** [X] Master Meter, [ ] Individual Meter, [ ] Estimate, [ ] Other  
   **Units of Measurement:** Gal. X 1,000

<table>
<thead>
<tr>
<th>JAN</th>
<th>FEB</th>
<th>MAR</th>
<th>APR</th>
<th>MAY</th>
<th>JUN</th>
<th>JUL</th>
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<th>SEP</th>
<th>OCT</th>
<th>NOV</th>
<th>DEC</th>
<th>Yearly Total</th>
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<tr>
<td>15,671</td>
<td>13,424</td>
<td>12,643</td>
<td>15,088</td>
<td>14,261</td>
<td>13,381</td>
<td>15,284</td>
<td>13,822</td>
<td>13,903</td>
<td>14,760</td>
<td>17,833</td>
<td>14,146</td>
<td>169,547</td>
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4. **Source Name:** Well No. 1 (1500 S, 600 W)  
   **Type:** Well  
   **Location:** Sec 25, T6S, R2E, SLB&M  
   **WR Number:** 55-290, 55-321, 55-654, 55-690, 55-752, 55-954  
   **Method of measurement:** [X] Master Meter, [ ] Individual Meter, [ ] Estimate, [ ] Other  
   **Date of Last Pump Test:** 5-94  
   **Yield of Well:** 3,100 gpm  
   **Rated Pump Capacity:** [ ] gpm, [ ] cfs  
   **Units of Measurement:** Gal. X 1,000

<table>
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<th>JAN</th>
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<th>MAR</th>
<th>APR</th>
<th>MAY</th>
<th>JUN</th>
<th>JUL</th>
<th>AOS</th>
<th>SEP</th>
<th>OCT</th>
<th>NOV</th>
<th>DEC</th>
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<td>23,767</td>
<td>28,938</td>
<td>84,036</td>
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<td>99,956</td>
<td>96,535</td>
<td>89,997</td>
<td>83,897</td>
<td>11,838</td>
<td>100,124</td>
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5. **Source Name:** Well No. 2 (715 N, 980 W)  
   **Type:** Well  
   **Location:** Sec 9, T6S, R2E, SLB&M  
   **WR Number:** 55-290, 55-321, 55-654, 55-690, 55-752, 55-954  
   **Method of measurement:** [X] Master Meter, [ ] Individual Meter, [ ] Estimate, [ ] Other  
   **Date of Last Pump Test:** 5-94  
   **Yield of Well:** 3,000 gpm  
   **Rated Pump Capacity:** [ ] gpm, [ ] cfs  
   **Units of Measurement:** Gal. X 1,000

<table>
<thead>
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<th>FEB</th>
<th>MAR</th>
<th>APR</th>
<th>MAY</th>
<th>JUN</th>
<th>JUL</th>
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<th>SEP</th>
<th>OCT</th>
<th>NOV</th>
<th>DEC</th>
<th>Yearly Total</th>
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<tr>
<td>22,722</td>
<td>27,473</td>
<td>61,185</td>
<td>61,625</td>
<td>41,087</td>
<td>61,795</td>
<td>14,860</td>
<td>308,147</td>
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<td></td>
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<td></td>
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</table>
6. **Source Name:** Well No. 3 (472 N, 400 E.)  
**Type:** Well  
**Location:** Sec 11, T6S, R2E, SL&M  
**WR Number:** 55-290, 55-321, 55-654, 55-690, 55-752, 55-954  
Method of measurement: [X] Master Meter, [ ] Individual Meter, [ ] Estimate, [ ] Other  
**Date of Last Pump Test:**  
**Yield of Well:** 1,400 gpm  
**Rated Pump Capacity:** 1,000 gpm, [ ] cfs  
**Units of Measurement:** Gal., X 1,000  
<table>
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<tr>
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<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Yearly Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,683</td>
<td>41,879</td>
<td>42,319</td>
<td>43,735</td>
<td>51,892</td>
<td>32,250</td>
<td>32,979</td>
<td>43,050</td>
<td>53,904</td>
<td>64,976</td>
<td>52,332</td>
<td>414,140</td>
<td></td>
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</tbody>
</table>

7. **Source Name:** Well No. 4 (1060 E, 93 S.)  
**Type:** Well  
**Location:** Sec 13, T6S, R2E, SL&M  
**WR Number:** 55-290, 55-321, 55-654, 55-690, 55-752, 55-954  
Method of measurement: [X] Master Meter, [ ] Individual Meter, [ ] Estimate, [ ] Other  
**Date of Last Pump Test:**  
**Yield of Well:** 3,500 gpm  
**Rated Pump Capacity:** 1,000 gpm, [ ] cfs  
**Units of Measurement:** Gal., X 1,000  
<table>
<thead>
<tr>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Yearly Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>42,394</td>
<td>37,647</td>
<td>60,194</td>
<td>42,744</td>
<td>43,134</td>
<td>80,041</td>
<td>104,092</td>
<td>91,180</td>
<td>89,041</td>
<td>546</td>
<td></td>
<td></td>
<td>875,423</td>
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</tbody>
</table>

8. **Source Name:** Well No. 5 (250 E, 50 N.)  
**Type:** Well  
**Location:** Sec 14, T6S, R2E, SL&M  
**WR Number:** 55-290, 55-321, 55-654, 55-690, 55-752, 55-954  
Method of measurement: [X] Master Meter, [ ] Individual Meter, [ ] Estimate, [ ] Other  
**Date of Last Pump Test:**  
**Yield of Well:** 3,500 gpm  
**Rated Pump Capacity:** 1,000 gpm, [ ] cfs  
**Units of Measurement:** Gal., X 1,000  
<table>
<thead>
<tr>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Yearly Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>28,654</td>
<td>48,904</td>
<td>60,377</td>
<td>39,914</td>
<td>88,949</td>
<td>72,752</td>
<td>88,978</td>
<td>82,119</td>
<td>77,004</td>
<td>84,759</td>
<td>20,456</td>
<td>39,946</td>
<td>732,812</td>
</tr>
</tbody>
</table>
SOURCE COMMENTS: Water Supply conditions were:  [ ] Above normal.  [X] Below normal

Water table levels are dropping at each Well location, and Springs are producing less water in comparison to other years. Both issues are attributed to the sixth straight year of drought conditions.
### III. WATER USE BREAKDOWN:
(If quantities are not known, please estimate percentages. See instructions for definition of use shown in bold.)

**Units of Measurement:** Gallons

<table>
<thead>
<tr>
<th>Source of data:</th>
<th>[ ] Meter readings at the source</th>
<th>[X] Meter readings at individual connections</th>
<th>[ ] Estimated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential</td>
<td>Annual quantity of water delivered for residential purposes -</td>
<td>5,087,547,000</td>
<td>Total number of residential connections -</td>
</tr>
<tr>
<td>Commercial</td>
<td>Annual quantity of water delivered for commercial purposes -</td>
<td>1,811,651,000</td>
<td>Total number of commercial connections -</td>
</tr>
<tr>
<td>Industrial</td>
<td>Annual quantity of water delivered for industrial purposes -</td>
<td>N/A</td>
<td>Total number of industrial connections -</td>
</tr>
<tr>
<td>Institutional</td>
<td>Annual quantity of water delivered for institutional purposes -</td>
<td>N/A</td>
<td>Total number of institutional connections -</td>
</tr>
<tr>
<td>Stock watering</td>
<td>Annual quantity of water delivered for stock watering purposes -</td>
<td>N/A</td>
<td>Total number of stock watering connections -</td>
</tr>
<tr>
<td>Un-metered</td>
<td>Annual quantity of water delivered for un-metered purposes -</td>
<td>N/A</td>
<td>Total number of un-metered connections -</td>
</tr>
<tr>
<td>Wholesale</td>
<td>Annual quantity of water delivered for wholesale purposes -</td>
<td>N/A</td>
<td>Total number of wholesale connections -</td>
</tr>
<tr>
<td>Other uses</td>
<td>Annual quantity of water delivered for other uses purposes -</td>
<td>N/A</td>
<td>Total number of other uses connections -</td>
</tr>
<tr>
<td>Describe other uses</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total annual quantity of water delivered for all purposes:</td>
<td>6,898,598,000</td>
<td>Total number of all connections:</td>
<td>20,330</td>
</tr>
</tbody>
</table>

### IV. Irrigation System
(Separate lawn and garden irrigation system, whether controlled by the drinking water supplier or not)

Is your area served by a separate irrigation water system? [X] Yes, [ ] No. If yes please provide the following information:

- What percent of your customers are served by a separate irrigation system? >1%
- The water delivered: 100% by ditch
  
% by pressurized irrigation system

<table>
<thead>
<tr>
<th>Number of Stock holders</th>
<th>Total shares of stock</th>
<th>Total acres irrigated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>315</td>
</tr>
</tbody>
</table>

Please enter amount of water delivered by the irrigation system:

- Institutional acreage
- Quantity of water

**Method of Measurement:** [X] Master Meter, [ ] Individual meter, [ ] Estimate, [ ] Other

**Units of Measurement:** Acre Feet

<table>
<thead>
<tr>
<th>JAN</th>
<th>FEB</th>
<th>MAR</th>
<th>APR</th>
<th>MAY</th>
<th>JUN</th>
<th>JUL</th>
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<th>OCT</th>
<th>NOV</th>
<th>DEC</th>
<th>Yearly Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 AF</td>
<td>25 AF</td>
<td>53 AF</td>
<td>63 AF</td>
<td>55 AF</td>
<td>45 AF</td>
<td>46 AF</td>
<td>292 AF</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Do these quantities reflect water delivered to the municipal service area only? [X] Yes, [ ] No. If no, percent delivered to municipal service area: _
APPENDIX F

2003 UTAH LAKE BASIN

M&I DEPLETIONS
### 2003 Utah Lake Basin Municipal and Industrial Depletion Table

<table>
<thead>
<tr>
<th>WATER SUPPLIER</th>
<th>Total Residential Indoor Use</th>
<th>Total Potable Water Use</th>
<th>Total Residential Outdoor Use</th>
<th>Total Potable Water Use</th>
<th>Total Indoor Use</th>
<th>Total Outdoor Use</th>
<th>Residential Indoor Return Flow</th>
<th>Commercial Indoor Return Flow</th>
<th>Total Indoor Return Flow</th>
<th>Residential Outdoor Return Flow</th>
<th>Commercial Outdoor Return Flow</th>
<th>Total Outdoor Return Flow</th>
<th>Indoor Depletions</th>
<th>Indoor Return Flow</th>
<th>Outdoor Return Flow</th>
<th>Total Return Flow</th>
<th>Total Deliveries</th>
<th>Total Depletions</th>
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<td><strong>Jubal County</strong></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
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</tr>
<tr>
<td>Mona</td>
<td>799.5</td>
<td>583.0</td>
<td>12.0</td>
<td>26.0</td>
<td>221.0</td>
<td>237.0</td>
<td>7.0</td>
<td>4.0</td>
<td>25.0</td>
<td>5.0</td>
<td>93.0</td>
<td>88.0</td>
<td>209.0</td>
<td>9.0</td>
<td>6.0</td>
<td>24.0</td>
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<td>903.0</td>
<td>759.0</td>
<td>4.0</td>
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<td>3.0</td>
<td>24.0</td>
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<td>17.0</td>
<td>4.0</td>
<td>11.0</td>
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<td>9.0</td>
<td>10.0</td>
<td>20.0</td>
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<tr>
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<td>227.0</td>
<td>203.0</td>
<td>2.0</td>
<td>3.0</td>
<td>7.0</td>
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<td>2.0</td>
<td>2.0</td>
<td>4.0</td>
<td>2.0</td>
<td>6.0</td>
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<tr>
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<td>11.0</td>
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<td>1.0</td>
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<td>4.0</td>
<td>8.0</td>
<td>4.0</td>
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<tr>
<td><strong>Total Community Systems</strong></td>
<td>569.6</td>
<td>484.5</td>
<td>10.0</td>
<td>23.0</td>
<td>10.0</td>
<td>60.0</td>
<td>8.0</td>
<td>23.0</td>
<td>8.0</td>
<td>70.0</td>
<td>71.0</td>
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<td>25.0</td>
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<td>8.0</td>
<td>24.0</td>
<td>170.6</td>
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<tr>
<td>Francis Town Water System</td>
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<td>1.0</td>
<td>2.0</td>
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<td>Woodland Mutual Water Co.</td>
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<td>0.0</td>
<td>5.0</td>
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<td>0.0</td>
<td>0.0</td>
<td>1.0</td>
<td>1.0</td>
<td>2.0</td>
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<tr>
<td><strong>Total Community Systems</strong></td>
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<td>6.0</td>
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<td>1.0</td>
<td>1.0</td>
<td>6.0</td>
<td>1.0</td>
<td>16.0</td>
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<tr>
<td><strong>Total</strong></td>
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<td>403.5</td>
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<td>25.0</td>
<td>10.0</td>
<td>60.0</td>
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<td>141.0</td>
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(continued on following page)
### 2003 Utah Lake Basin Municipal and Industrial Depletion Table

(Acre-Feet/Year)

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**Notes:**
- Regular = Sewage Treatment Plant
- Bold = Facultative Ponds/Lagoons
- Bold/Italic = Septic System/Toilet
- Regular Grey Background = Depletions
- Bold Grey Background = Secondary
- Solid Black Background = Indoor/Outdoor
- Solid Yellow Background = Potable Residential
- Solid Blue Background = Potable Commercial
- Solid Green Background = Potable Institutional
- Solid Orange Background = Potable Industrial Stock Water
- Solid Red Background = Potable Residential Return Flow
- Solid Purple Background = Potable Commercial Return Flow
- Solid Pink Background = Potable Institutional Return Flow
- Solid Brown Background = Potable Industrial Stock Water Return Flow
- Solid Black Background = Municipal/Industrial
- Solid Yellow Background = Residential Indoor Return Flow
- Solid Blue Background = Residential Outdoor Return Flow
- Solid Green Background = Commercial Indoor Return Flow
- Solid Orange Background = Commercial Outdoor Return Flow
- Solid Red Background = Institutional Indoor Return Flow
- Solid Brown Background = Institutional Outdoor Return Flow
- Solid Black Background = To Treatment Facility
- Solid Yellow Background = Pond Evaporation
- Solid Blue Background = Treatment Facility Outflow
- Solid Green Background = Outdoor Return Flow
- Solid Orange Background = Total Return Flow
- Solid Brown Background = Total Deliveries
- Solid Black Background = Total Depletions

**Color Code:**
- Potable Residential Use Data
- Secondary Use Data
- Indoor/Outdoor Use Data
- Return Flow Data
- Diversion Data
- Depletion Data

**Treatment Facility Key:**
- Bold = Sewage Treatment Plant
- Regular = Facultative Ponds/Lagoons
- Bold/Italic = Septic System/Toilet