

**MUNICIPAL AND INDUSTRIAL  
WATER SUPPLY AND USES  
IN THE  
KANAB CREEK/VIRGIN RIVER BASIN  
(Data Collected for Calendar Year 2005)**

**Prepared by**

**Utah Department of Natural Resources  
Division of Water Resources**

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Table 17 indicates the amount of secondary water used for various categories within the boundaries of the public community systems. In the Washington County portion of the KCVR Basin, various irrigation companies deliver secondary water to most of the systems. Total secondary use is 7,446 acre-feet.

**TABLE 17**  
**WASHINGTON COUNTY**  
**Secondary (Non-Potable) Water Use Within Public Community Systems**  
**(Acre-Feet/Year)**

WATER SUPPLIER	Residential Use (Ac-Ft/Yr)	Commercial Use (Ac-Ft/Yr)	Institutional Use (Ac-Ft/Yr)	Industrial/ Stockwater Use (Ac-Ft/Yr)	Total Secondary Use (Ac-Ft/Yr)
<b>WASHINGTON COUNTY</b>					
Angell Springs SSD	0.0	0.0	0.0	0.0	0.0
Casa de Oro	0.0	0.0	0.0	0.0	0.0
Central Culinary Water					
Central Canal & Irrigation Co.	29.0	0.0	0.0	0.0	29.0
Dammeron Valley Water Works	0.0	0.0	0.0	0.0	0.0
Diamond Ranch Academy	0.0	0.0	0.0	0.0	0.0
Diamond Valley Acres Water Co.	0.0	0.0	0.0	0.0	0.0
Dixie Deer SSD	0.0	0.0	0.0	0.0	0.0
Gunlock SSD					
Gunlock Irrigation Co.	33.0	0.0	0.0	1.8	34.8
Harmony Farms Water Users	0.0	0.0	0.0	0.0	0.0
Harmony Heights					
Harmony Heights Secondary Water Assoc.	6.0	0.0	0.0	0.0	6.0
Hildale/Colorado City	74.3	0.0	0.0	0.0	74.3
Homespun Village Water Company	0.0	0.0	0.0	0.0	0.0
Hurricane City Water System	445.5	0.0	494.5	137.9	1,077.9
Ivins City					
Ivins Irrigation	80.7	0.0	0.0	0.0	80.7
Kayenta Water Users Assoc.	0.0	0.0	0.0	0.0	0.0
La Verkin City					
La Verkin Bench Canal Co.	260.0	0.0	0.0	0.0	260.0
Leeds Domestic Water Users Assoc.					
Leeds Water Company	80.0	0.0	0.0	0.0	80.0
Little Plains	0.0	0.0	0.0	0.0	0.0
Mountain Springs Water Co.	0.0	0.0	0.0	0.0	0.0
New Harmony Town Water	15.0	0.0	0.0	0.0	15.0
Pine Valley Irrigation Co.	50.0	0.0	0.0	0.0	50.0
Pine Valley Mt. Farms Water Co.	0.0	0.0	0.0	0.0	0.0
Rockville Pipeline Co.					
Rockville Ditch Co.	60.0	0.0	2.0	0.0	62.0
Santa Clara Municipal Water System	10.0	0.0	0.0	0.0	10.0
Silver Reef SSD	0.0	0.0	0.0	0.0	0.0
Springdale Culinary Water	82.4	0.0	20.0	0.0	102.4
St. George, City of	0.0	1,000.0	1,521.8	0.0	2,521.8
Various Irrigation Companies	704.0	0.0	1,221.2	0.0	1,925.2
Toquerville Water Dept.					
Toquerville Secondary System	160.0	0.0	3.0	0.0	163.0
Veyo Culinary Water Assoc.					
Veyo Irrigation Company	23.0	0.0	0.0	0.0	23.0
Virgin Water Dept.					
Virgin Canal Company	40.0	0.0	2.0	0.0	42.0
Washington County WCD					
WCVCD - Hurricane Valley retail	0.0	0.0	0.0	0.0	0.0
Washington Municipal Water System	100.0	353.5	425.0	0.0	878.5
Winchester Hills Water Co.	0.0	0.0	0.0	0.0	0.0
Zion National Park	0.0	0.0	10.0	0.0	10.0
<b>WASHINGTON COUNTY TOTALS</b>	<b>2,252.9</b>	<b>1,353.5</b>	<b>3,699.5</b>	<b>139.7</b>	<b>7,445.6</b>

**TABLE 16  
WASHINGTON COUNTY  
Water Use for Public Community Systems**

WATER SUPPLIER	POTABLE USAGE (Acre-Feet/Year)										Service Population	Gallons Per Capita Per Day	
	Residential Indoor	Residential Outdoor	Commercial Total	Institutional Total	Industrial Total	Total M&I							
<b>WASHINGTON COUNTY</b>													
Angell Springs SSD	21.8	1.6	0.0	0.0	0.8	24.2	270	80.0					
Casa de Oro	4.9	0.9	0.0	0.0	5.8	70	74.0						
Central Culinary Water	8.1	0.0	0.0	0.0	13.7	100	122.3						
Dammeron Valley Water Works	69.2	158.3	0.0	5.0	232.5	840	247.1						
Diamond Ranch Academy	7.3	48.0	9.3	0.0	64.8	90	642.8						
Diamond Valley Acres Water Co.	79.0	172.2	0.0	23.6	274.8	980	250.3						
Dixie Deer SSD	31.1	47.0	2.8	0.3	81.2	390	185.9						
Gunlock SSD	7.3	0.0	0.0	0.8	8.1	130	55.6						
Harmony Farms Water Users	26.6	28.2	1.5	0.7	69.9	330	189.1						
Harmony Heights	10.6	6.0	0.0	0.0	17.6	120	130.9						
Hildale/Colorado City*	478.4	482.1	152.6	62.9	1,191.1	5,760	184.6						
Homespun Village Water Company	2.4	0.3	0.0	0.0	2.8	40	62.5						
Hurricane City Water System	1,048.5	1,000.0	420.1	223.6	2,692.2	11,180	215.0						
Mins City	553.3	569.3	69.9	65.6	1,261.5	6,860	164.2						
Kayenta Water Users Assoc.	38.7	31.5	2.3	5.0	77.5	480	144.1						
La Verkin City	342.6	118.3	69.8	55.0	590.1	4,370	120.6						
Leeds Domestic Water Users Assoc.	56.5	62.8	2.4	27.6	149.3	700	190.4						
Little Plains	29.3	56.3	0.0	0.5	87.1	360	216.0						
Mountain Springs Water Co.	24.4	17.2	0.8	0.0	42.4	290	130.5						
New Harmony Town Water	22.6	39.9	0.0	6.0	68.5	280	218.4						
Pine Valley Irrigation Co.	17.1	10.0	1.7	0.2	29.0	100	258.9						
Pine Valley Mt. Farms Water Co.	13.7	83.3	0.0	0.0	97.0	170	509.4						
Rockville Pipeline Co.	20.2	36.5	0.0	0.0	56.7	250	202.5						
Santa Clara Municipal Water System	483.9	786.1	47.8	151.4	1,471.3	6,000	218.9						
Silver Reef SSD	7.3	17.0	0.4	1.0	25.7	90	254.9						
Springdale Culinary Water	35.9	1.6	93.2	57.0	187.7	590	284.0						
St. George, City of	5,242.3	7,819.7	7,062.3	1,246.3	400.0	21,770.6	67,000	290.1					
Toquerville Water Dept.	92.7	110.0	6.1	1.0	209.8	1,150	162.9						
Veyo Culinary Water Assoc.	55.4	159.8	36.8	80.0	49.1	381.1	680	500.3					
Virgin Water Dept.	41.9	62.3	6.0	1.0	111.2	520	190.9						
Washington County WCD													
WCWCD - Hurricane Valley retail	26.7	12.7	8.7	5.0	58.1	340	152.6						
Washington Municipal Water System	1,242.0	1,687.2	748.5	81.0	27.5	3,786.2	15,400	219.5					
Winchester Hills Water Co.	83.9	225.3	0.0	0.8	310.0	1,040	266.1						
Zion National Park	9.7	19.8	0.0	107.4	136.9	120	1,018.5						
<b>WASHINGTON COUNTY TOTALS</b>	<b>10,235.3</b>	<b>13,871.2</b>	<b>8,743.0</b>	<b>2,208.7</b>	<b>528.2</b>	<b>35,586.4</b>	<b>127,090</b>	<b>250.0</b>					

\*Hildale, UT and Colorado City, AZ have common infrastructure, with sources in both Utah and Arizona. Due to the inability to separate use by state, all use is combined and listed here.  
 Input data  
 Potable M&I Water Use  
 Average gallons per capita per day water use  
 A B C D E F G H J  
 G=B+C+D+E+F  
 J=G\*(325.857 gallons per acre-foot)/H/(365 days per year)