

Water Management Summary 2016

City of Flagstaff, Arizona

A. WATER PRODUCTION

I. C Aquifer Groundwater	6,153 AF	<i>(63% of Total Water Produced)</i>
Lake Mary wells	1,454 AF	<i>(77% of Total Potable Produced)</i>
Woody Mtn wells	2,064 AF	
Local wells	2,635 AF	
II. Upper Lake Mary Surface Water	1,625 AF	<i>(17% of Total Water Produced)</i>
		<i>(20% of Total Potable Produced)</i>
III. Inner Basin Water	201 AF	<i>(2% of Total Water Produced)</i>
Inner Basin wells	111 AF	<i>(3% of Total Potable Produced)</i>
Inner Basin spring water	90 AF	
2016 TOTAL POTABLE PRODUCED		7,979 AF
III. Reclaimed water (direct delivered)	1,817 AF	<i>(19% of Total Water Produced)</i>
Golf Courses	893 AF	<i>(Pine Canyon 257 AF; Continental 636 AF)</i>
Manufacturing	210 AF	
Municipal parks, schools	128 AF	
Commercial	189 AF	
Northern AZ University	171 AF	
Construction	38 AF	<i>(reclaimed hydrant meters & standpipes)</i>
Residential	1 AF	
Snowbowl	187 AF	<i>(167 AF Nov '16– Feb '17 ski season)</i>
Discharged to Rio de Flag	4,194 AF	<i>(not included in total)</i>
2016 TOTAL WATER PRODUCED		9,796 AF

B. POTABLE WATER USED

I. Residential	4,316 AF (58 %)
Single-Family	2,672 AF <i>(14,931 household meters)</i>
Multi-Family	1,644 AF <i>(3,364 multi-family meters)</i>
II. Non-Residential	3,142 AF (42 %)
Commercial	1,951 AF <i>(2,032 non-residential meters)</i>
Manufacturing	332 AF
Landscape/Lawn	232 AF
Northern AZ University	556 AF
Standpipe	70 AF
2016 TOTAL WATER BILLED	7,458 AF

C. LOST & UNACCOUNTED (L & U) FOR WATER: 514 AF or 6 %

$$1 - [(7,458 \text{ AF} + 7 \text{ AF} + 0 \text{ AF}) / 7,979 \text{ AF}]$$

[water billed + water main flushing & system breaks + Leak Study estimated leaks] ÷ water produced

D. AVERAGE WATER USE

93 Total GPCD or 160 GPHD

- I. Gallons per Capita per Day (gpcd) is the potable water used in gallons / 71,656 population
Residential = 54 gpcd & Non-Residential = 39 gpcd = 93 Total gpcd (does not include L & U)
Total - 99 gpcd (includes L & U)

- II. Single Family Residential Water Use: 0.18 AF/house/year or 160 gallons/house/day (GPHD)
[2,672 AF/14,931] (does not include L & U)