

Item 5A1



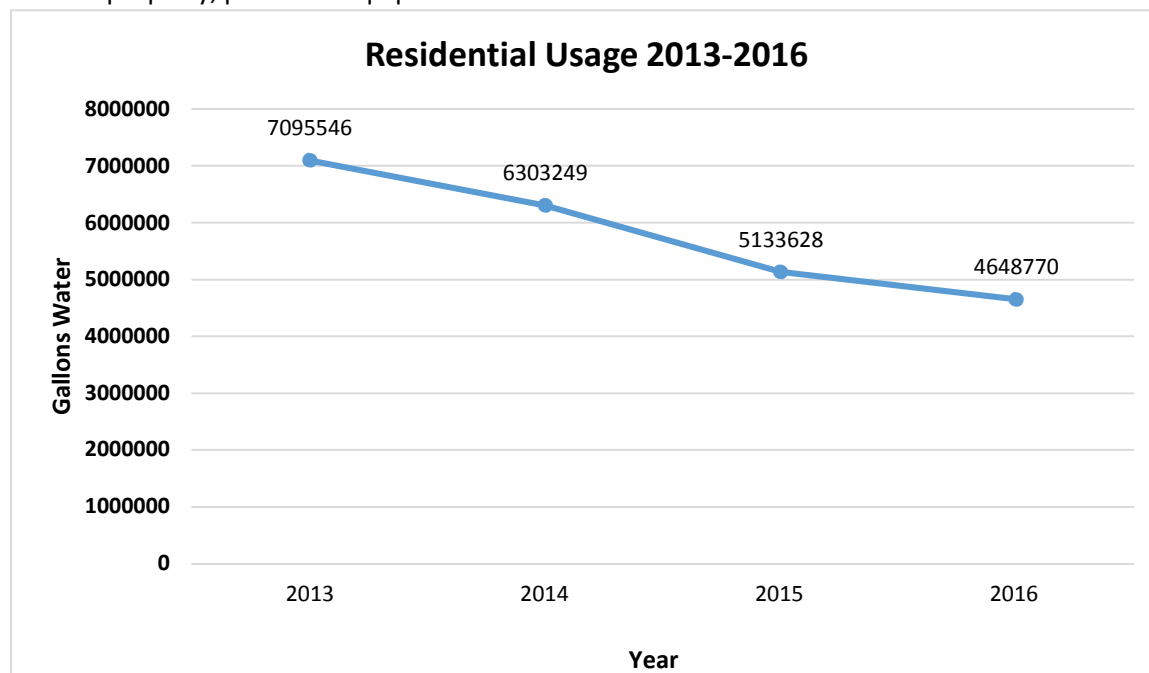
PINECREST PERMITTEES ASSOCIATION
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Below is a chart that shows the yearly usage of the residential cabins in Pinecrest. The majority of the residential users use under 50,000 gallons. The cabins that have higher usage usually coincide with a leak on the user's side of the meter.

2016 Residential Usage

Yearly Gallon Usage	Cabins That Used That Amount	Average Gallons Used	Percent of Cabins	Total Gallons
0-9,999	198	5,408	60%	1,070,920
10,000-19,999	84	13,866	25%	1,164,800
20,000-29,999	25	23,598	7%	589,950
30,000-39,999	9	34,730	2.9%	312,570
40,000-49,999	7	45,031	2.1%	315,220
50,000-59,999	3	54,526	.9%	163,580
60,000-69,999	2	65,735	.6%	131,470
70,000-79,999	1	74,680	.4%	74,680
100,000+	4	206,395	1.1%	825,580
Total Residential				4,648,770

Below is a graphical representation of annual usage. The residential users have brought their usage down in accordance with drought conditions and have contributed to long term savings in the form of property, plant and equipment.

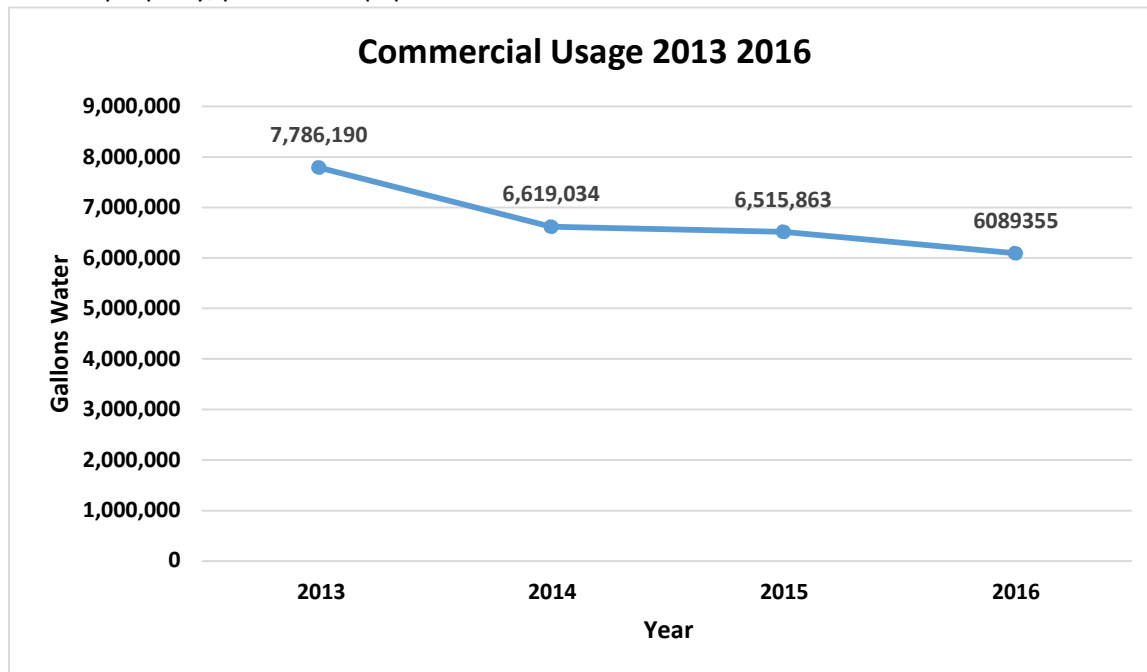


Below is a chart that shows commercial usage and the percent that each customer uses.

2016 Commercial Usage

Commercial Users	Percentage of Commercial Use	Total Gallons
PLR	20%	1,234,500
Chalet	9%	537,600
Chinquapin	5%	304,800
Comm Center	1%	89,940
Sylvester	5%	288,000
Oski #1	5%	287,381
Oski #2	3%	192,000
Waste Water	15%	894,234
Blue/Gold #1	14%	875,000
Blue/Gold #2	.8%	48,190
Blue/Gold #3	19%	1,113,500
Blue/Gold #4	1%	68,900
Blue/Gold #5	1%	72,000
Blue/Gold Maintenance	.3%	19,380
Pioneer	.1%	9,600
Shell Station	.2%	16,710
Shop	.5%	28,300
Phone Co.	.05%	5,670
U.S.F.S.	.05%	3,350
Total Commercial		6,089,355

Below is a graphical representation of annual usage. The commercial users have brought their usage down in accordance with drought conditions and have contributed to long term savings in the form of property, plant and equipment.



The following usages of water are normal occurrences that happen at all water companies. The hydrant flushing is necessary to ensure proper operation of the fire hydrants, and it is also necessary to ensure the flushing of dead end lines. The backwashing and rinse cycles are a necessary part of operating a plant. Finally the fire department training is self-explanatory.

Other Usage

Other Usage Sources	Gallons Water
Lake Plant Rinse Cycles	80,000
Backwash Sheering Plant	25,000
Backwash Lake Plant	96,000
Hydrant Flushing	81,000
Fire Dept. Training	20,000
South Shore Bleeders	1,127,350
Total Other	1,429,350

The following Data was obtained from the monthly records that get submitted to the state.

Water Production

Water Source	Gallons Water
Lake Plant	6,461,940
Chinquapin/ Meadowview Well	1,885,000
Sheering Creek Plant	4,391,426
Total Production	12,738,366

Water Production – Water Usage – Other Usage = Losses in the system

$$12,738,366 - 10,738,125 - 1,429,350 = 570,891 \text{ Total Gallons Annually Lost}$$

The losses in a system come from water meter inefficiency, also from small water leaks that have yet to surface. Further there is some usage that is not tracked precisely. Fire Department training and hydrant flushing to name a few. Overall from the stand point of acceptable loss and usage Pinecrest is doing a great job to conserve water during drought conditions. This will mean less maintenance and wear and tear on the plant and equipment that will lead to a long term cost benefit.