

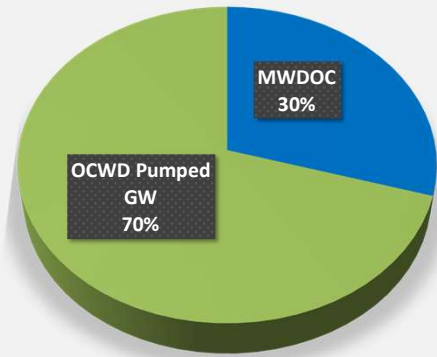
# City of Garden Grove Water Usage Report

## City of Garden Grove Overview of Usage FY 2016-17 Monthly Water Use

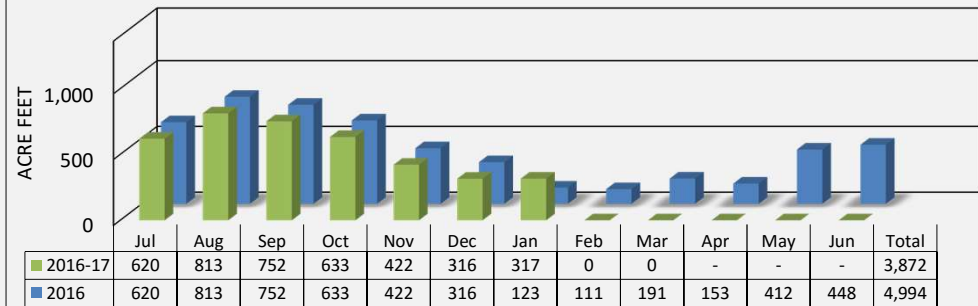
Type of Supply	July	August	September	October	November	December	January	February	March	April	May	June	Total
MWDOC	620	813	752	633	422	316	317	0	0	-	-	-	3,872
OCWD Pumped GW	1,567	1,410	1,340	1,317	1,289	1,233	1,058	0	0	-	-	-	9,214
<b>Total</b>	<b>2,187</b>	<b>2,222</b>	<b>2,092</b>	<b>1,950</b>	<b>1,711</b>	<b>1,549</b>	<b>1,375</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>13,086</b>

2016 MWDOC Usage	July	August	September	October	November	December	January	February	March	April	May	June	Total
	620	813	752	633	422	316	123	111	191	153	412	448	4,994

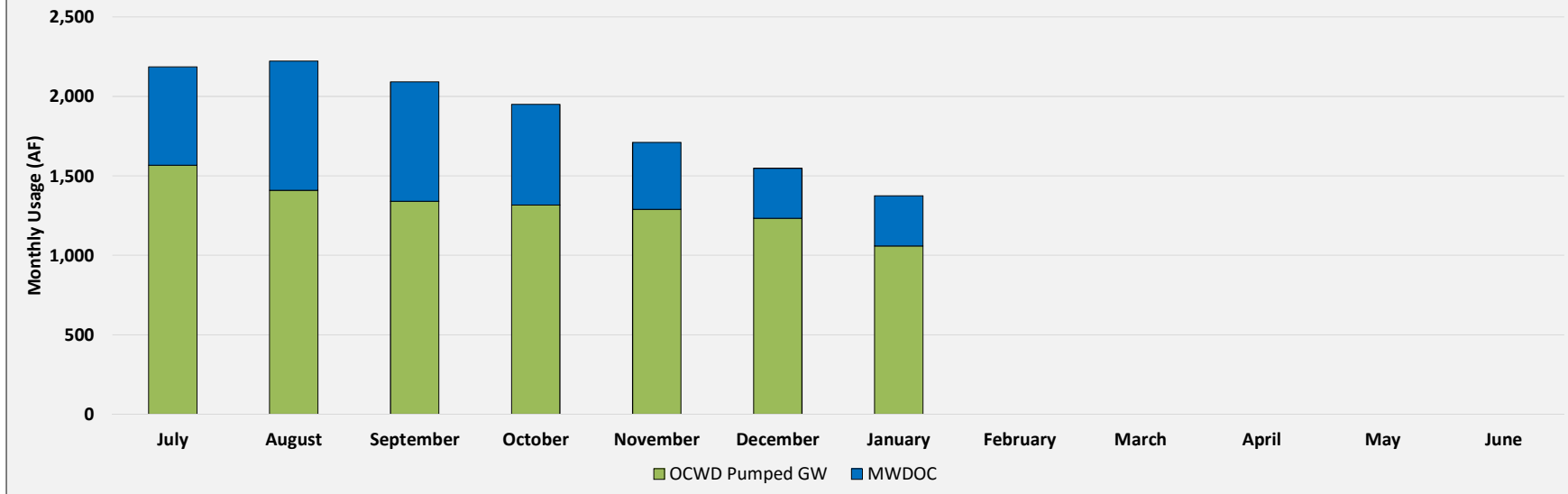
**2016-17 Sources of Water**



**MWDOC Calendar Year and Fiscal Year Purchases**



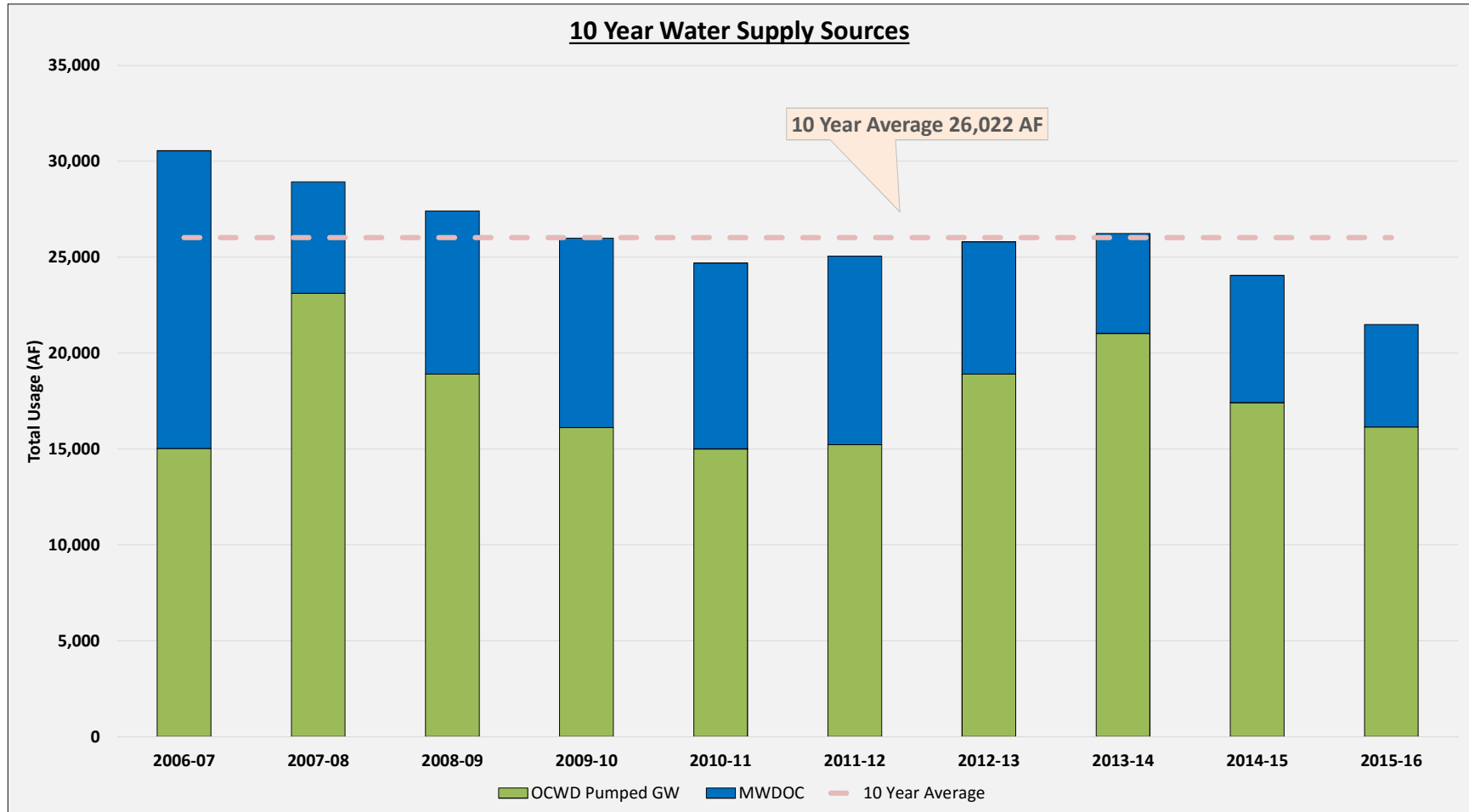
**2016-17 Monthly Water Supply Sources**



# City of Garden Grove Water Usage Report

## Annual Water Usage

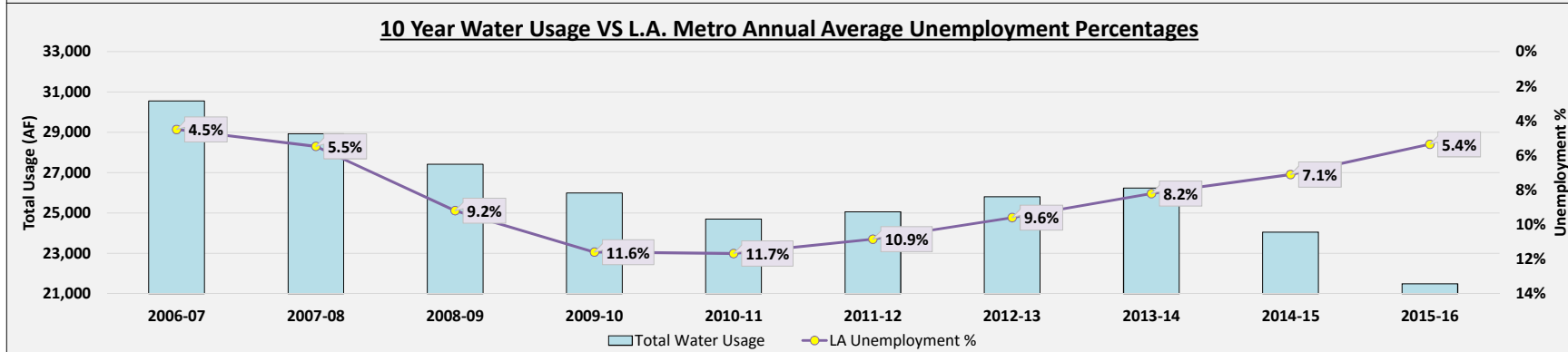
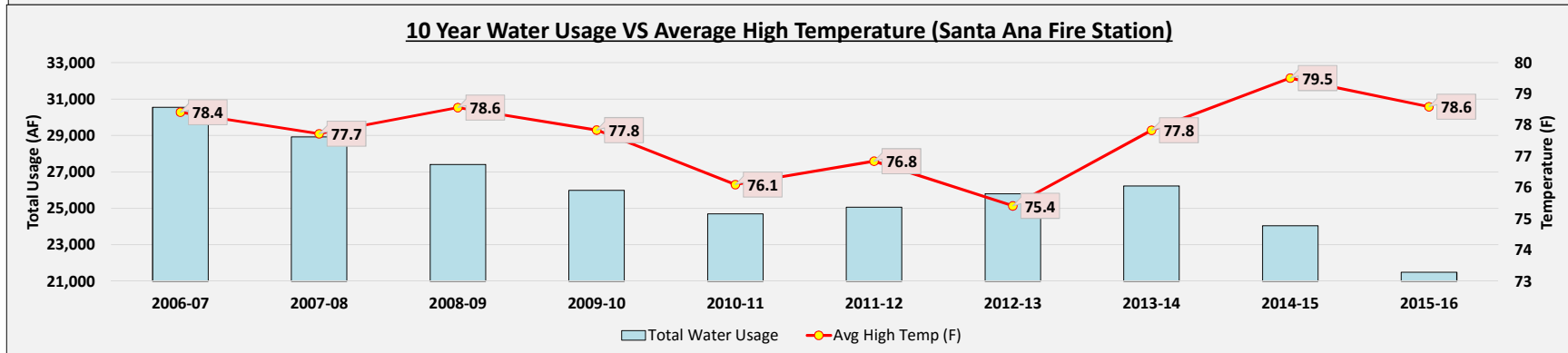
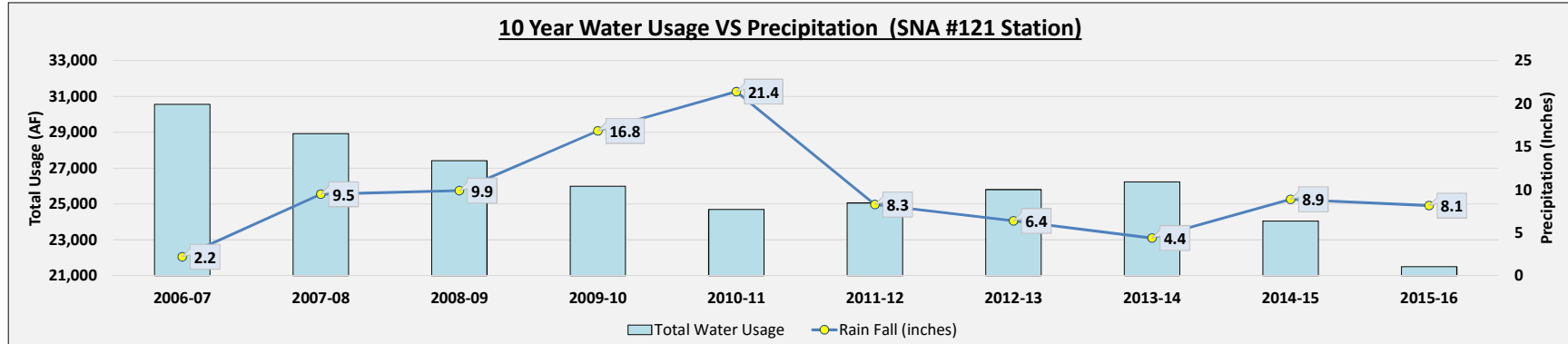
Type of Supply	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	Average
MWDOC	15,535.5	5,811.7	8,508.3	9,871.6	9,691.0	9,828.7	6,893.2	5,208.5	6,640.2	5,341.4	8,333.0
OCWD Pumped GW	15,016.1	23,115.5	18,904.9	16,118.9	15,004.7	15,231.3	18,911.3	21,024.9	17,408.3	16,149.8	17,688.6
<b>Total</b>	<b>30,552</b>	<b>28,927</b>	<b>27,413</b>	<b>25,991</b>	<b>24,696</b>	<b>25,060</b>	<b>25,805</b>	<b>26,233</b>	<b>24,049</b>	<b>21,491</b>	<b>26,022</b>



# City of Garden Grove Water Usage Report

## Water Usage Variables

Type of Supply	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	Average
Rain Fall (inches)	2.2	9.5	9.9	16.8	21.4	8.3	6.4	4.4	8.9	8.1	9.6
Avg High Temp (F)	78.4	77.7	78.6	77.8	76.1	76.8	75.4	77.8	79.5	78.6	77.7
LA Unemployment %	4.5%	5.5%	9.2%	11.6%	11.7%	10.9%	9.6%	8.2%	7.1%	5.4%	8.4%
<b>Total Water Usage</b>	<b>30,552</b>	<b>28,927</b>	<b>27,413</b>	<b>25,991</b>	<b>24,696</b>	<b>25,060</b>	<b>25,805</b>	<b>26,233</b>	<b>24,049</b>	<b>21,491</b>	<b>26,022</b>



# City of Garden Grove Water Usage Report

## City of Garden Grove Detailed Usage Historical Monthly Potable Usage (Fiscal Year, July-June)

Fiscal Year	July	August	September	October	November	December	January	February	March	April	May	June	Total
2009-10 Usage	2,742	2,630	2,590	2,151	2,145	1,760	1,560	1,466	1,957	1,973	2,399	2,617	25,991
2010-11 Usage	2,538	2,658	2,442	1,867	1,960	1,692	1,691	1,617	1,689	1,816	2,435	2,291	24,696
2011-12 Usage	2,718	2,572	2,223	2,353	1,586	1,682	1,846	1,708	1,877	1,773	2,296	2,427	25,060
2012-13 Usage	2,883	2,580	2,619	2,370	1,723	1,436	1,922	1,602	1,825	2,218	2,287	2,661	26,125
2013-14 Usage	2,561	2,390	2,684	2,379	1,824	2,019	1,836	1,611	1,943	2,272	2,002	2,714	26,233
2014-15 Usage	2,567	2,397	2,452	2,124	1,808	1,715	1,603	1,602	1,978	2,162	1,740	1,900	24,049
2015-16 Usage	1,959	2,040	1,899	1,812	1,820	1,607	1,444	1,558	1,492	1,833	1,993	2,034	21,491
<b>Average of Last 6 FYs</b>	<b>2,538</b>	<b>2,439</b>	<b>2,386</b>	<b>2,151</b>	<b>1,787</b>	<b>1,692</b>	<b>1,724</b>	<b>1,616</b>	<b>1,801</b>	<b>2,012</b>	<b>2,125</b>	<b>2,338</b>	<b>24,609</b>
Monthly Usage Percentage	10%	10%	10%	9%	7%	7%	7%	7%	7%	8%	9%	9%	100%

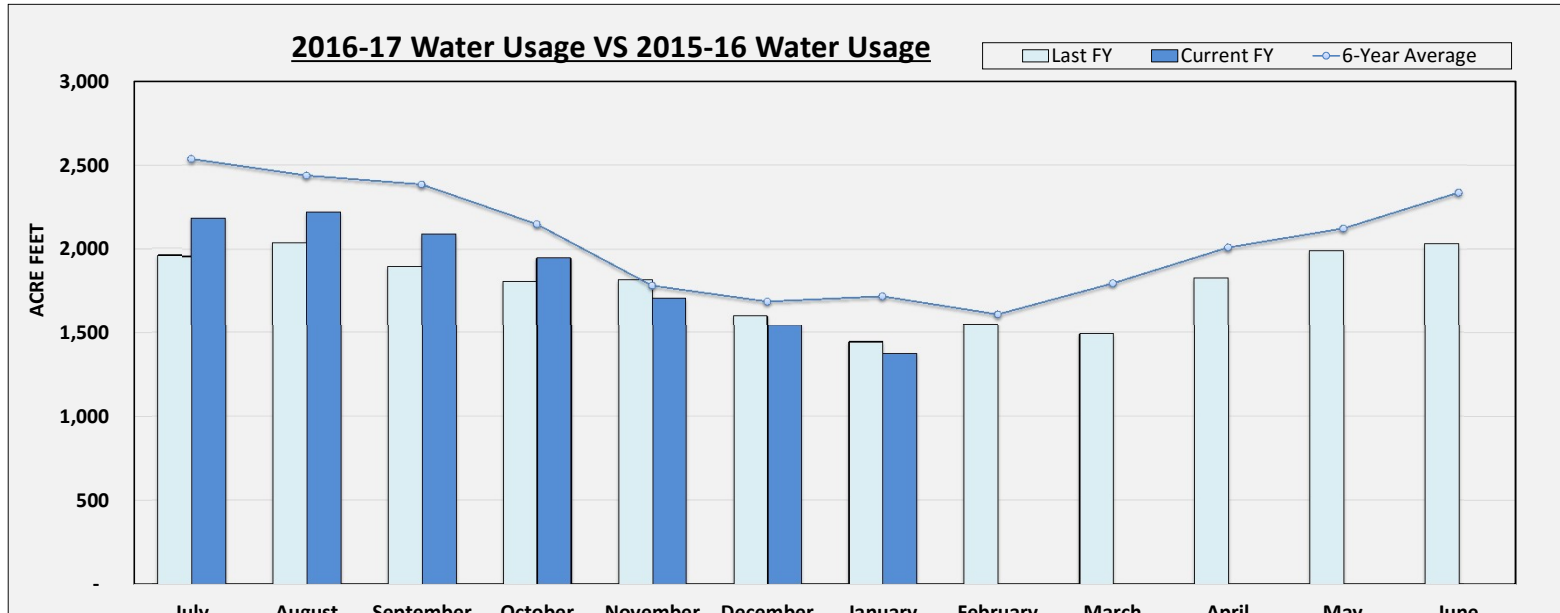
### Water Usage By Source

Imported	July	August	September	October	November	December	January	February	March	April	May	June	Total
MWD	572.3	741.4	752.3	227.8	-	-	-	-	-	-	-	-	2,293.8
CPTP	47.3	71.4	-	405.3	422.0	315.6	316.7	-	-	-	-	-	1,578.3
Plus CUP	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Imported Total</b>	<b>620</b>	<b>813</b>	<b>752</b>	<b>633</b>	<b>422</b>	<b>316</b>	<b>317</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,872</b>

Local	July	August	September	October	November	December	January	February	March	April	May	June	Total
OCWD Regular Wells	1,479.2	1,386.1	1,257.5	1,625.8	1,644.5	1,438.8	1,266.8	-	-	-	-	-	10,098.7
Well 28 nitrate	135.4	94.9	82.1	96.5	66.6	109.7	108.1	-	-	-	-	-	693.3
Less CPTP	(47.3)	(71.4)	-	(405.3)	(422.0)	(315.6)	(316.7)	-	-	-	-	-	(1,578.3)
Less CUP	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Local Total</b>	<b>1,567</b>	<b>1,410</b>	<b>1,340</b>	<b>1,317</b>	<b>1,289</b>	<b>1,233</b>	<b>1,058</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9,214</b>

<b>Total Usage 2016-17</b>	<b>2,187</b>	<b>2,222</b>	<b>2,092</b>	<b>1,950</b>	<b>1,711</b>	<b>1,549</b>	<b>1,375</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>13,086</b>
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FY 16-17 versus FY 15-16: +12% (July), +9% (August), +10% (September), +8% (October), -6% (November), -4% (December), -5% (January)



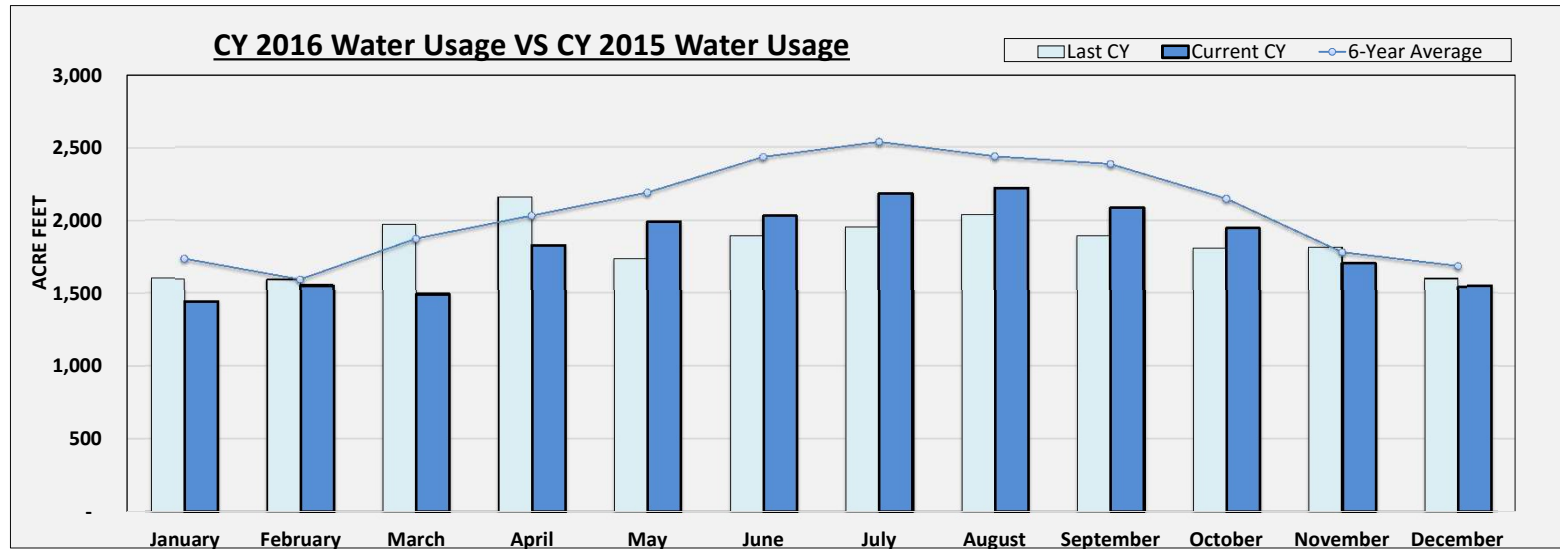
# City of Garden Grove Water Usage Report

July August September October November December January February March April May June

## Historical Monthly Potable Usage (Calendar Year)

Calendar Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2010	1,560	1,466	1,957	1,973	2,399	2,617	2,538	2,658	2,442	1,867	1,960	1,692	25,129
2011	1,691	1,617	1,689	1,816	2,435	2,291	2,718	2,572	2,223	2,353	1,586	1,682	24,673
2012	1,846	1,708	1,877	1,773	2,296	2,427	2,883	2,580	2,619	2,370	1,723	1,436	25,537
2013	1,922	1,602	1,825	2,218	2,287	2,661	2,561	2,390	2,684	2,379	1,824	2,019	26,370
2014	1,836	1,611	1,943	2,272	2,002	2,714	2,567	2,397	2,452	2,124	1,808	1,715	25,441
2015	1,603	1,602	1,978	2,162	1,740	1,900	1,959	2,040	1,899	1,812	1,820	1,607	22,122
6 year Average	1,743	1,601	1,878	2,036	2,193	2,435	2,538	2,439	2,386	2,151	1,787	1,692	24,879

Total Water Usage 2016	1,444.37	1,558.16	1,492.03	1,832.65	1,993.22	2,033.70	2,186.90	2,222.40	2,091.88	1,950.10	1,711.10	1,548.50	22,065.02
2016 VS 2015 Usage	-21%	-3%	-23%	-19%	-0%	-25%	-15%	-7%	-15%	-8%	-5%	-10%	-0%



	Population	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2015 Usage (AF)	178,127	1,603	1,602	1,978	2,162	1,740	1,900	1,959	2,040	1,899	1,812	1,820	1,607	22,122
2015 GPCD		95	105	117	132	103	116	116	120	116	107	111	95	111
2016 Usage (AF)	179,184	1,444	1,558	1,492	1,833	1,993	2,034	2,187	2,222	2,092	1,950	1,711	1,549	22,065
2016 GPCD		85	101	88	111	117	123	128	130	127	114	104	91	110
CY over CY change in GPCD		-10	-3	-29	-21	+14	+7	+13	+10	+11	+7	-7	-4	-1

	Population	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
2015-16 Usage (AF)	178,127	1,959	2,040	1,899	1,812	1,820	1,607	1,444	1,558	1,492	1,833	1,993	2,034	21,491
2015-16 GPCD		116	120	116	107	111	95	85	102	88	112	118	124	108
2016-17 Usage (AF)	179,184	2,187	2,222	2,092	1,950	1,711	1,549	1,375	-	-	-	-	-	13,086
2016-17 GPCD		128	130	127	114	104	91	81	-	-	-	-	-	112
FY over FY change in GPCD		+13	+10	+11	+7	-7	-4	-5						+5



# City of Garden Grove Water Usage Report

\*Cumulative through the end of the last month shown  
 \*GPCD = Total Monthly Production/ Population/days in the month

## Cumulative Water Usage by Fiscal Year

