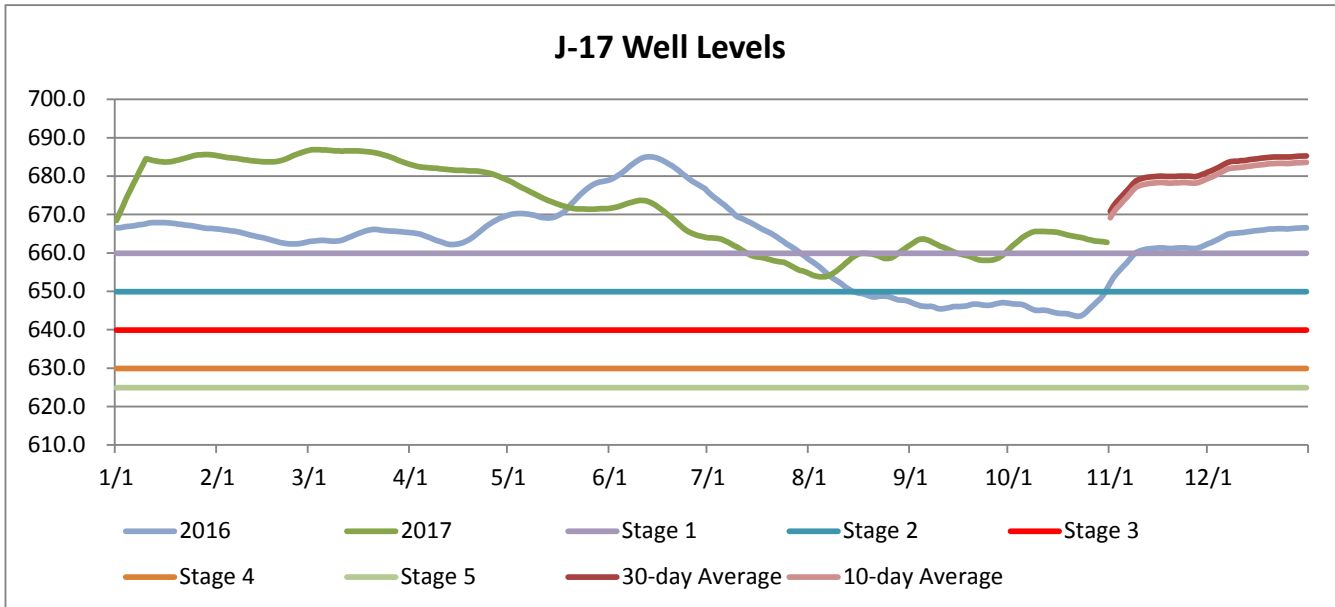


## City of Hondo Texas Water Forecast

### Step 1 - Estimating J-17 Well Levels for the remainder of 2017, as of October 31, 2017



The above chart contains 10 day average reads through the date indicated. The remainder of the 2017 is based on two different scenarios. Each scenario uses the 2016 actual for the remainder of the year and adjusts based on the difference between the 2016 and 2017 actuals through the date indicated. The two scenarios are:

- 1 - adjusted for the average daily difference for the last 30 days
- 2 - adjusted for the average daily difference for the last 10 days

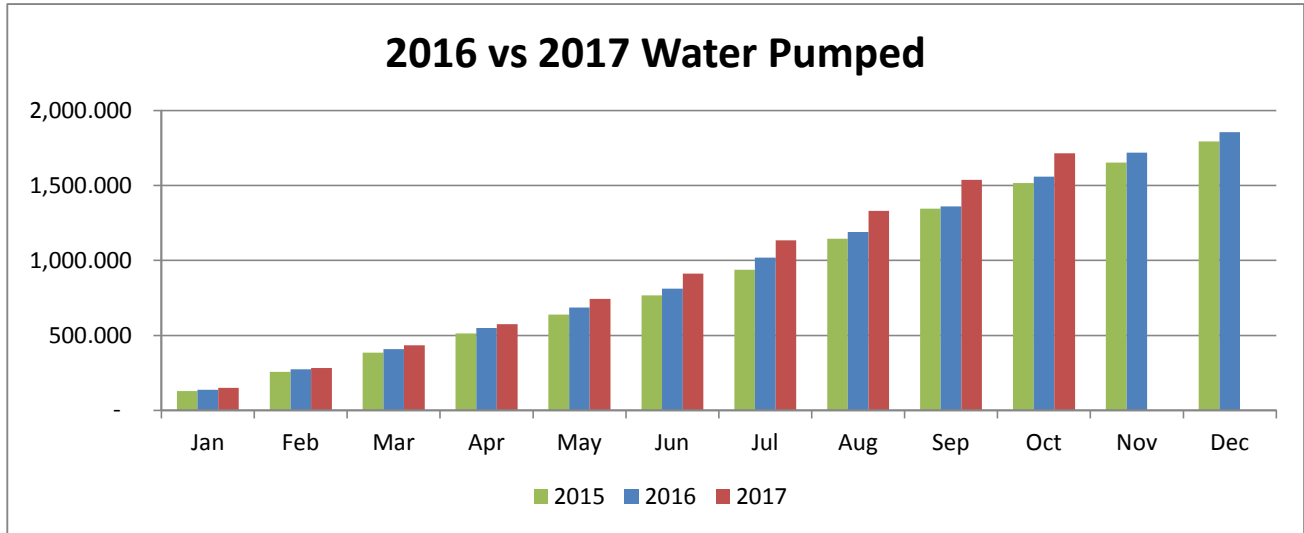
Please note the assumptions assume we have a one-time rise in the aquifer table, similar to last year's.

### Step 2 - Calculating the Reduction based on Step 1

The City has 2,645.919 acre-feet of unrestricted water per calendar year. That allotment will be reduced by the number of days the EAA declares restrictions. The table below shows the restricted allotments using the Scenario based on the 10-day average from Step 1 above.

Stage	Duration Days	Reduction Percentage	Base Daily Amount	Total Reduction	Percent of Annual Allotment
None	304	0%	7.249	-	
Stage 1	61	20%	7.249	88.438	
Stage 2	0	30%	7.249	-	
Stage 3	0	35%	7.249	-	
Stage 4	0	40%	7.249	-	
Stage 5	0	44%	7.249	-	
<b>Total</b>	<b>365</b>			<b>88.438</b>	<b>3.39%</b>
Annual Allotment				<b>2,645.92</b>	
Adjusted allotment, if the scenario plays out				<b>2,557.48</b>	

**Step 3 - Reviewing actual amounts used (pumped)**



The above graph shows we have pumped more in January - May than we have in the past two-years for the respective months.

The numbers supporting the above chart are:

	2015	2016	2017	2017 - 2016 Difference	Percent Difference
<b>Jan</b>	127.505	136.666	148.725	12.06	8.82%
Feb	255.937	272.981	283.224	10.24	3.75%
Mar	384.367	408.170	433.934	25.76	6.31%
<b>Apr</b>	512.077	549.348	575.735	26.39	4.80%
May	639.787	685.770	742.510	56.74	8.27%
Jun	767.229	812.385	912.715	100.33	12.35%
<b>Jul</b>	938.011	1,018.184	1,134.486	116.30	11.42%
Aug	1,144.736	1,190.262	1,331.671	141.41	11.88%
Sep	1,346.240	1,359.821	1,537.991	178.17	13.10%
<b>Oct</b>	1,517.440	1,558.760	1,715.516	156.76	10.06%
Nov	1,654.457	1,720.389			
Dec	1,794.901	1,856.317			

**Step 4 - providing a 2016 estimated usage (pumped), and comparing to Well J-17 Estimate**

	Usage Estimate	Restricted Alloment	Difference
2017 estimate based on 8% below 2016 actual	1,707.81	2,557.48	849.67
2017 estimate as if the same as 2016	1,856.32	2,557.48	701.16
2017 estimate based on 8% above 2016 actual	2,004.82	2,557.48	552.66