



## *Clearwater Underground Water Conservation District*

*P.O. Box 1989, Belton, Texas 76513*

*Phone: 254/933-0120 Fax: 254/933-8396*

*www.cuwcd.org*

*Leland Gersbach, President*

*Gary Young*

*Jody Williams*

*Scott Brooks*

*David Cole*

### Clearwater Staff Reports

August 12, 2020

---

1. Drought Status
2. Educational Outreach Update
3. Monitoring Wells
4. Rainfall/Drought Conditions
5. Well Registrations
6. Non-Exempt Monthly Well Production

# Trinity Aquifer—Drought Status Report

## STAGE 1 - AWARENESS

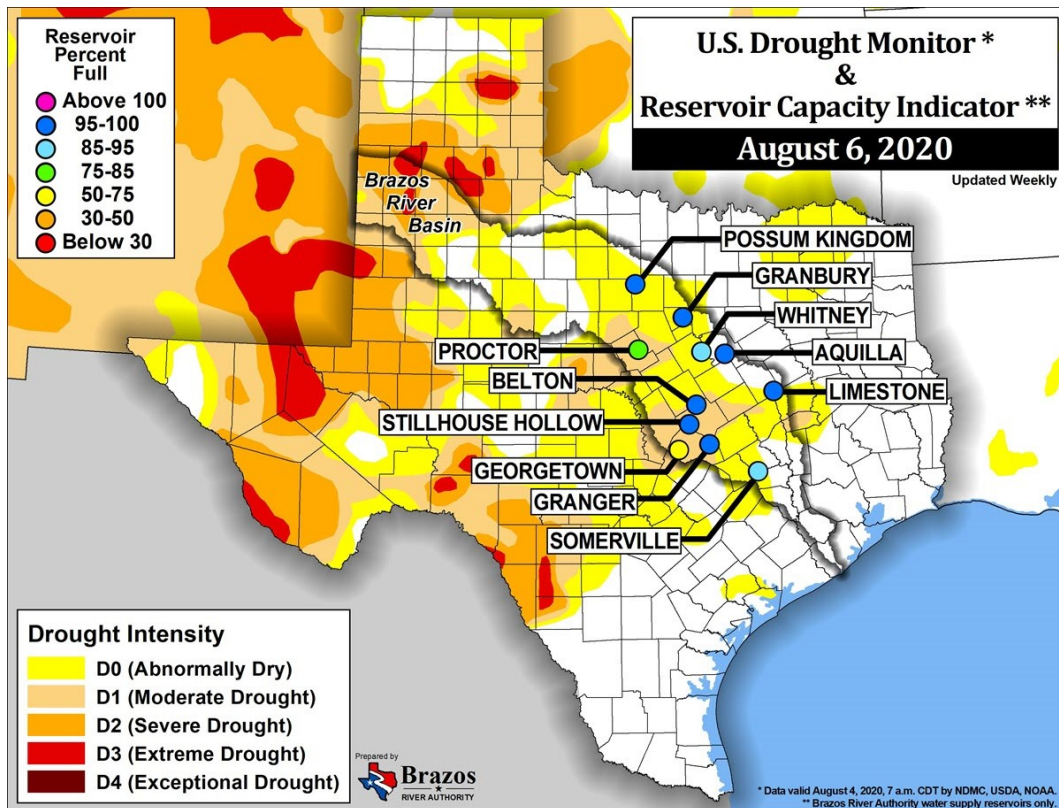


Precipitation Deficit Index (PDI)

26.24 PDI  
79.51 %

PDI is based on a 33" normal yearly average and is a 365 day running total.

AS OF 8/09/2020

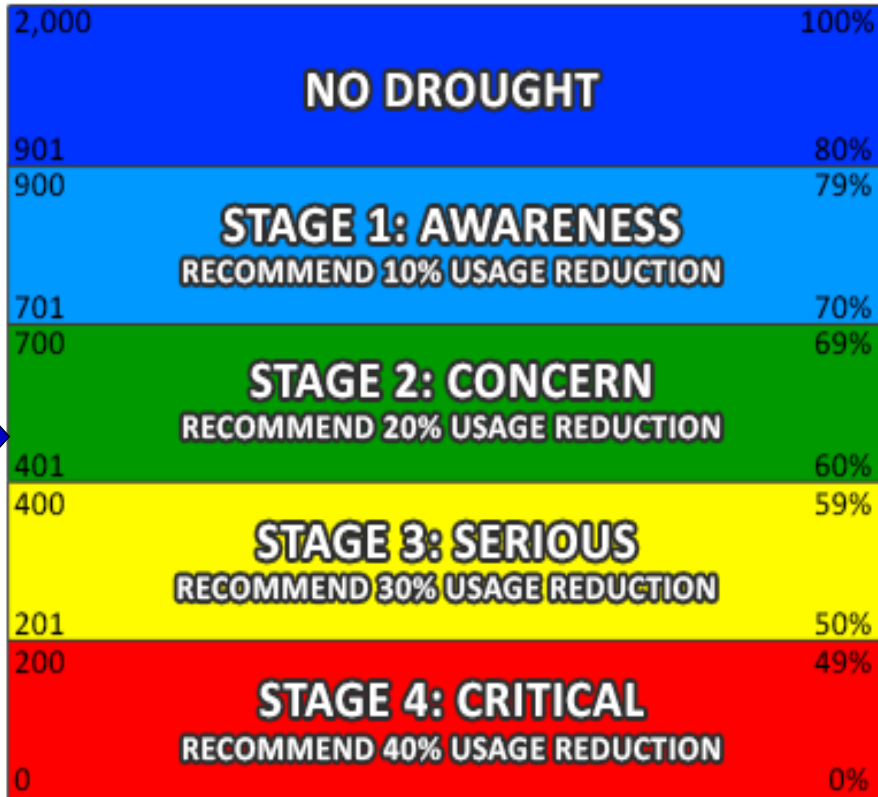


# Edwards BFZ Aquifer—Drought Status Report

## STAGE 2 - CONCERN

Salado Creek  
Spring Discharge

467.82 ac-ft  
(month)  
7.862 cfs



Precipitation Deficit  
Index (PDI)

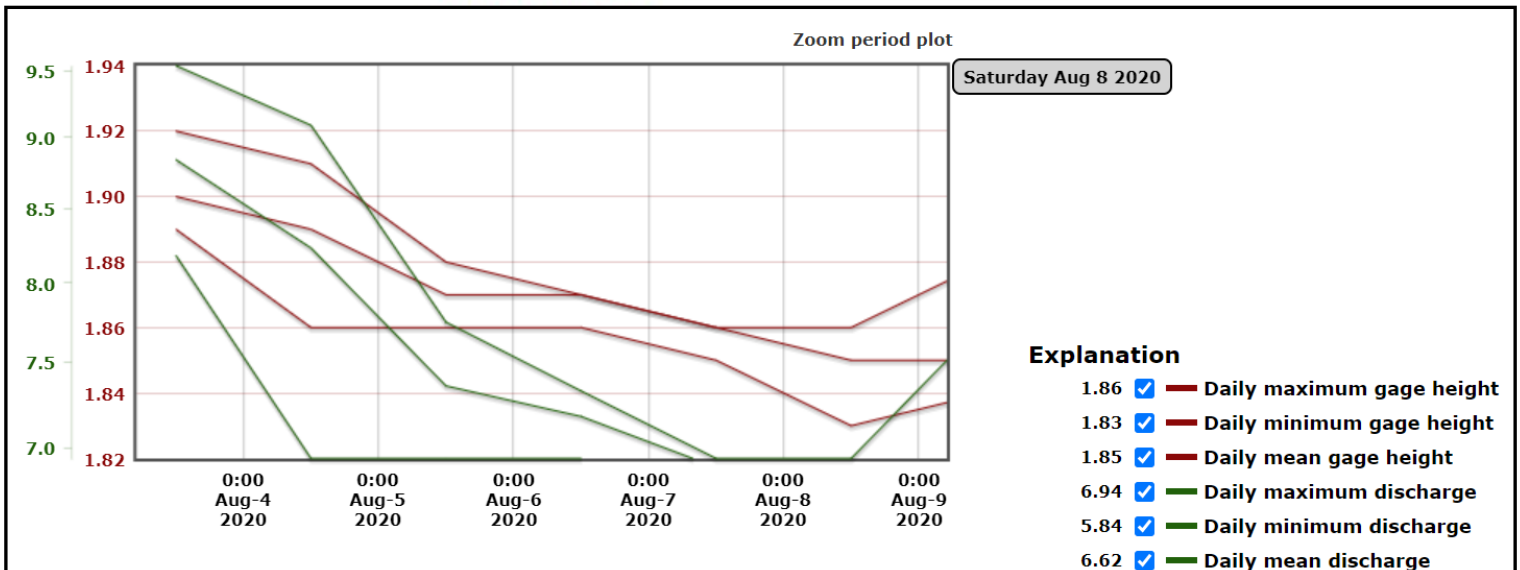
25.66 PDI  
77.74 %

*PDI is based on a 33" normal yearly average and is a 365 day running total.*

AS OF 8/09/2020

### USGS 08104300 Salado Ck at Salado, TX

Gage height, feet      Discharge, cubic feet per second





## *Education Outreach Highlights 8/12/20*

**1. Goal: Improve our educational outreach efforts and expand our identified audiences (4<sup>th</sup>-5<sup>th</sup> grade, high school environmental sciences students, and the real-estate sales community).**

Goals and objectives in the Management Plan (A:3, A:4, B,F:1,F:2 pages 22-26).

- All educational events have been canceled due to COVID-19.

**2. Improve Communication and Reporting of Usage by well owners who are permitted (HEU or OP) by the district. Goals and objectives in the Management Plan (A:1, A:2, A:3,G:1,G:2, pages 22-23).**

- Continue working with HALFF to make improvements to the new platform and correct flaws as needed.
- Most of our permitted users are entering their monthly water usage online now.

**3. Increase the District Communication strategically by expanding utilization of a media sources.**

Goals and objectives in the Management Plan (A:1, A:2, A:3,G:1,G:2, pages 22-23).

- Continually adding more information to the website to make it a valuable resource to Bell County along with utilizing more social media.

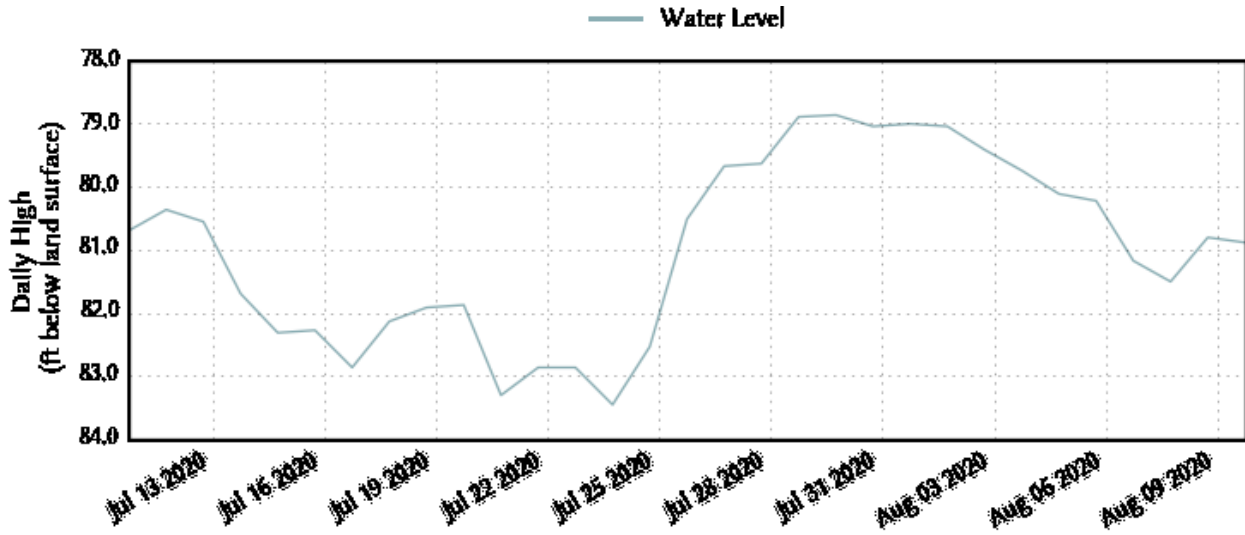
**4. Improve Annual Reporting accuracy and timeliness per State mandated Legislation and Management Plan. Goals and objectives in the Management Plan (A:1,2,3,4; B; C; D; E; F; g pages 22-26).**

- The 2019 Annual Report was approved at the March meeting.

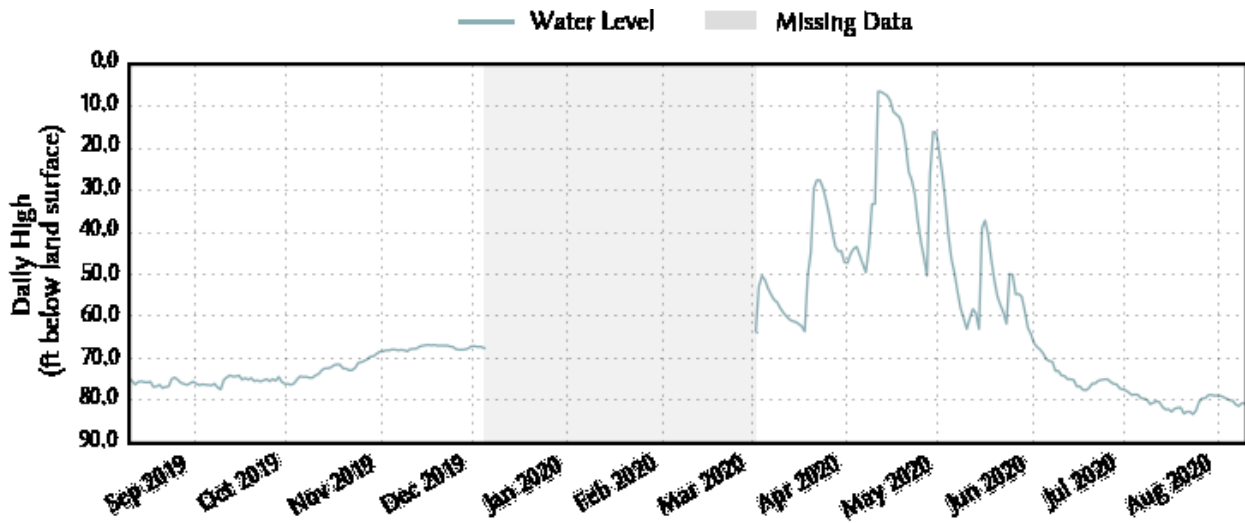
July 2020

Continuous Monitoring Well # 5804628  
(Salado Cemetery)  
Edwards Aquifer

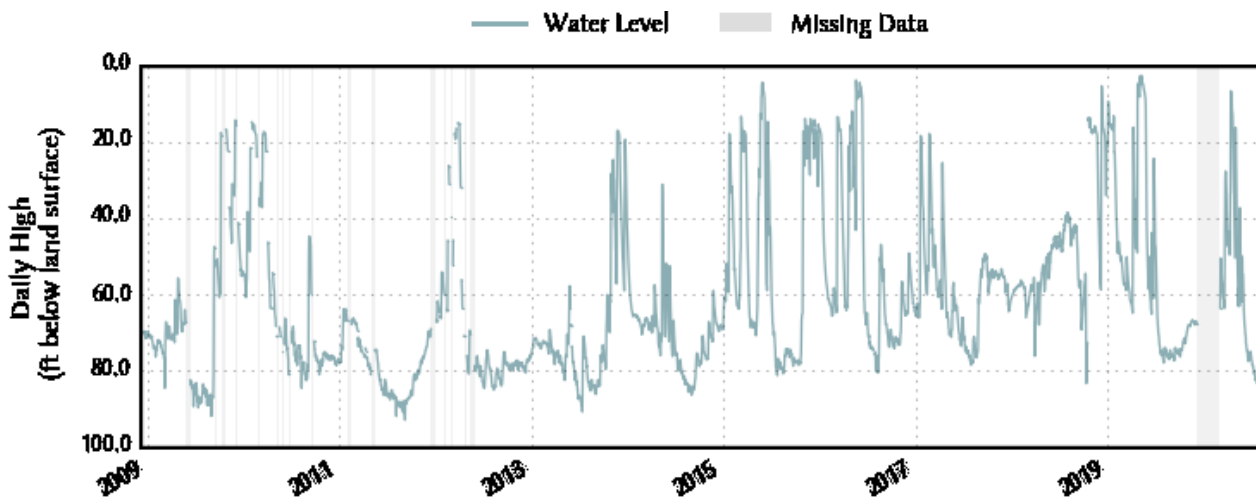
Last 30 Days



1 Year



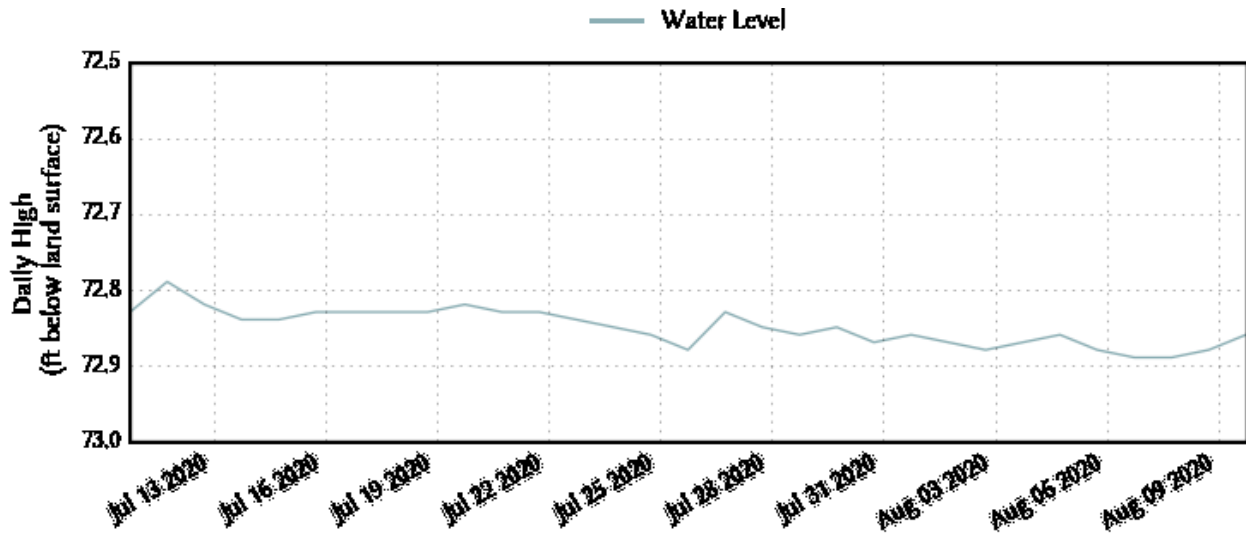
Period Of Record



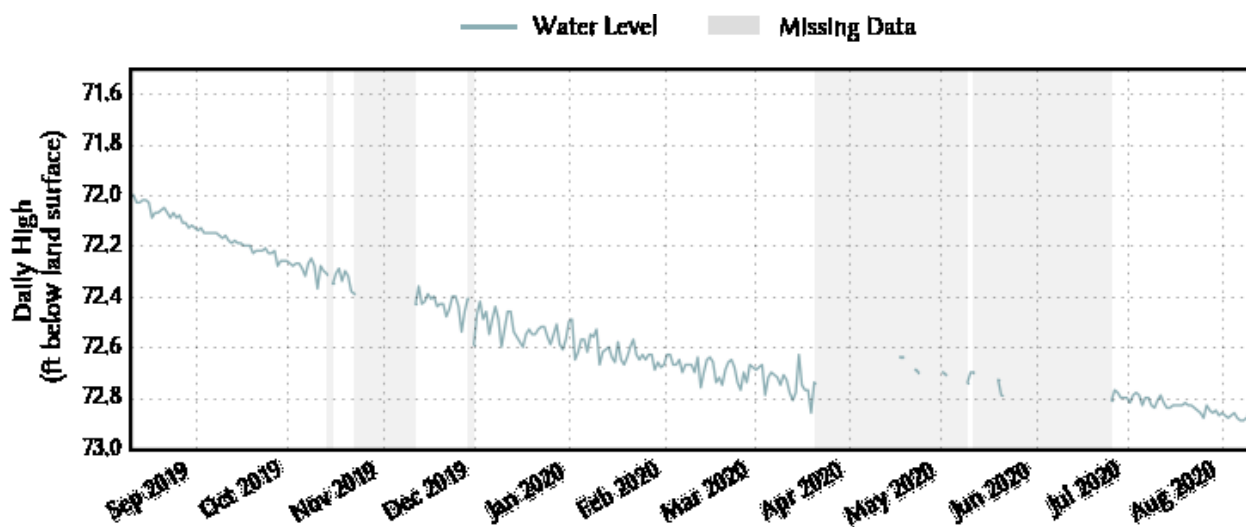
July 2020

Continuous Monitoring Well # 5804702  
(FM 2843 - Patterson's Crossing - Salado Creek)  
Edwards Aquifer

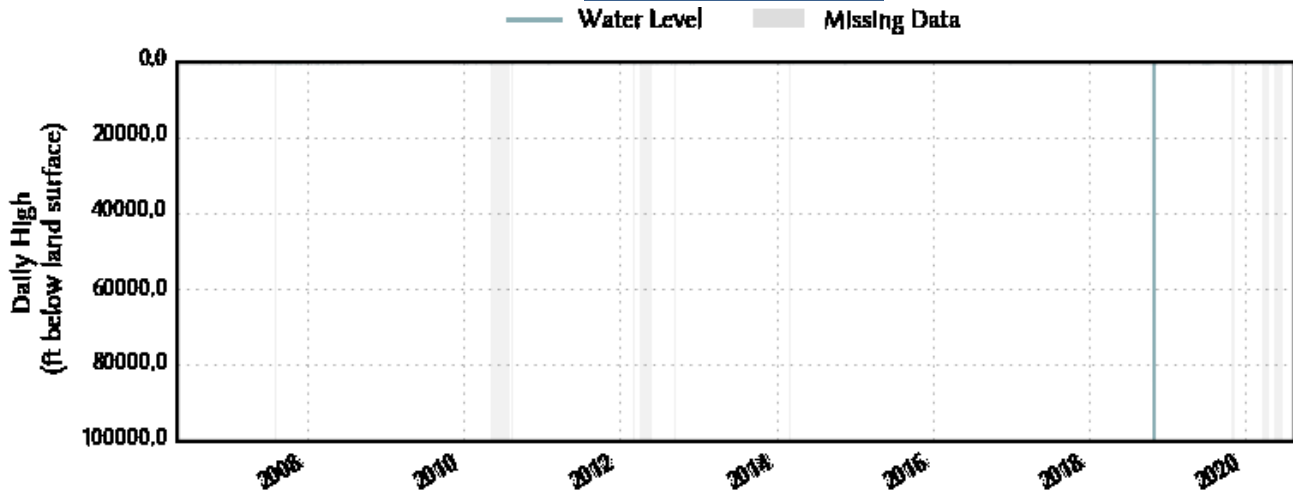
Last 30 Days



1 Year



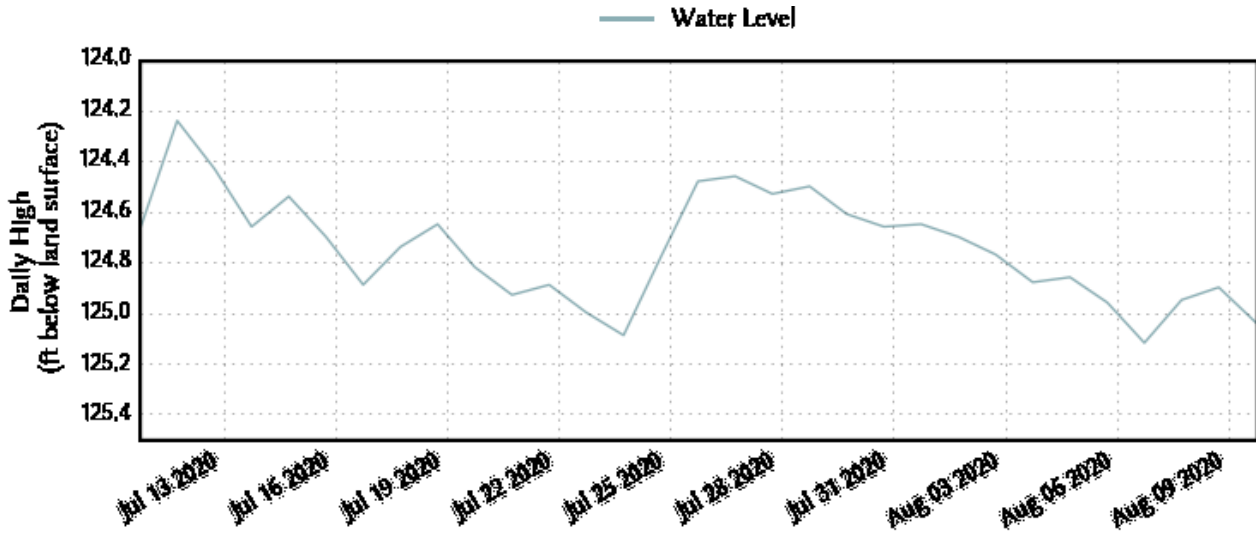
Period Of Record



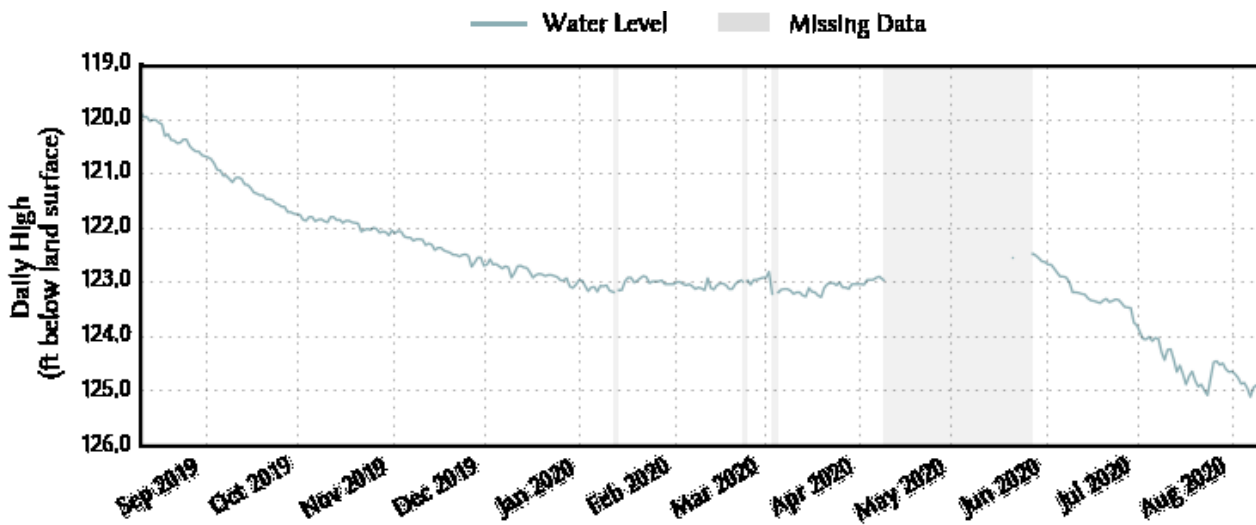
July 2020

Continuous Monitoring Well # 5804816  
(IH-35 Rest Stop - West)  
Edwards Aquifer

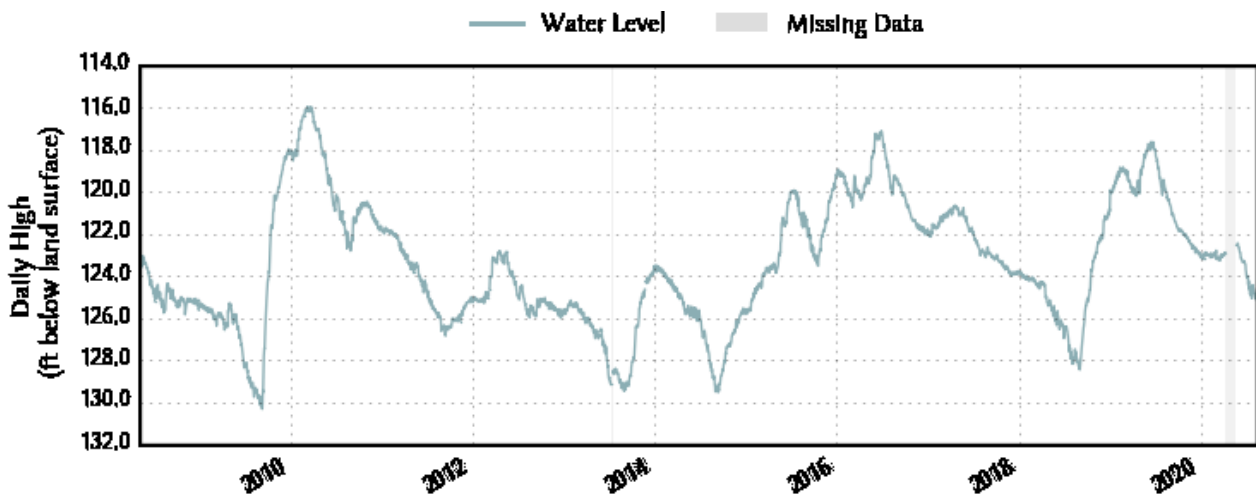
Last 30 Days



1 Year



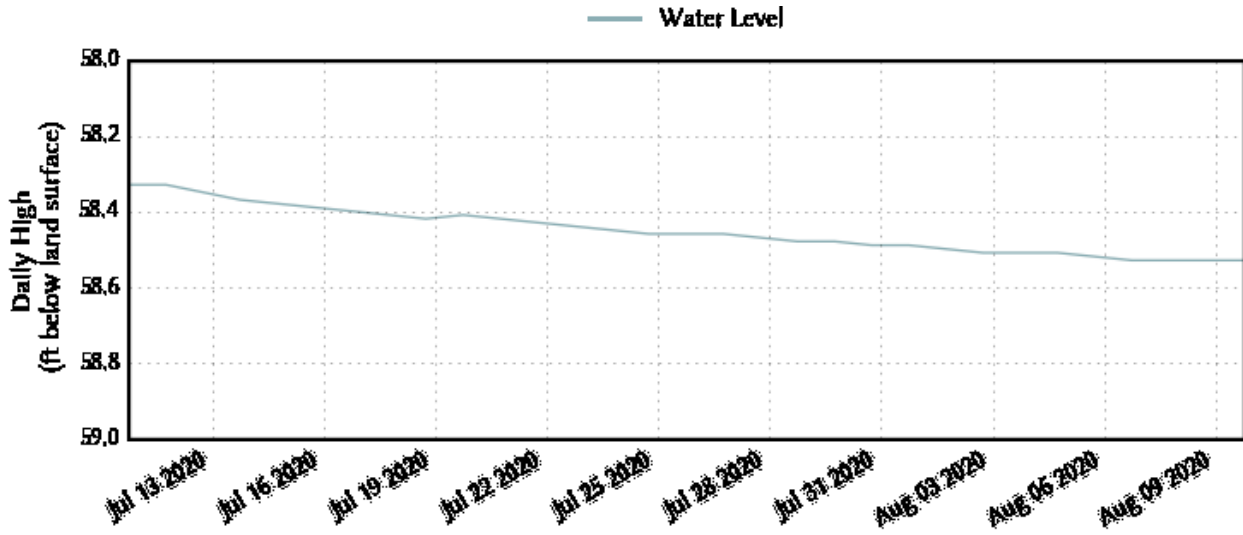
Period Of Record



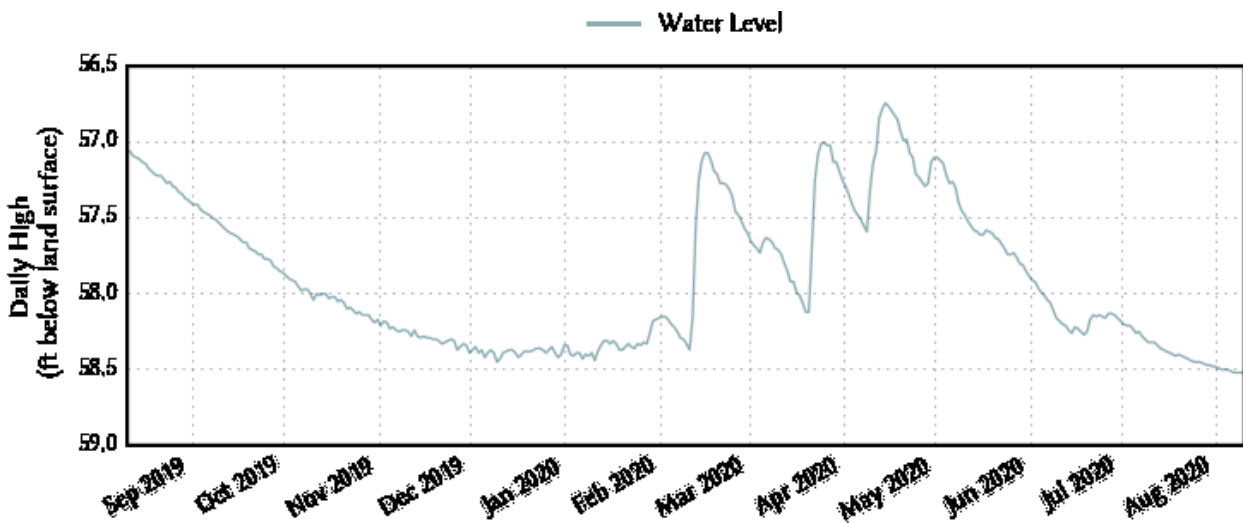
July 2020

Continuous Monitoring Well # 5803702  
(Gault Site - Williamson County)  
Edwards Aquifer

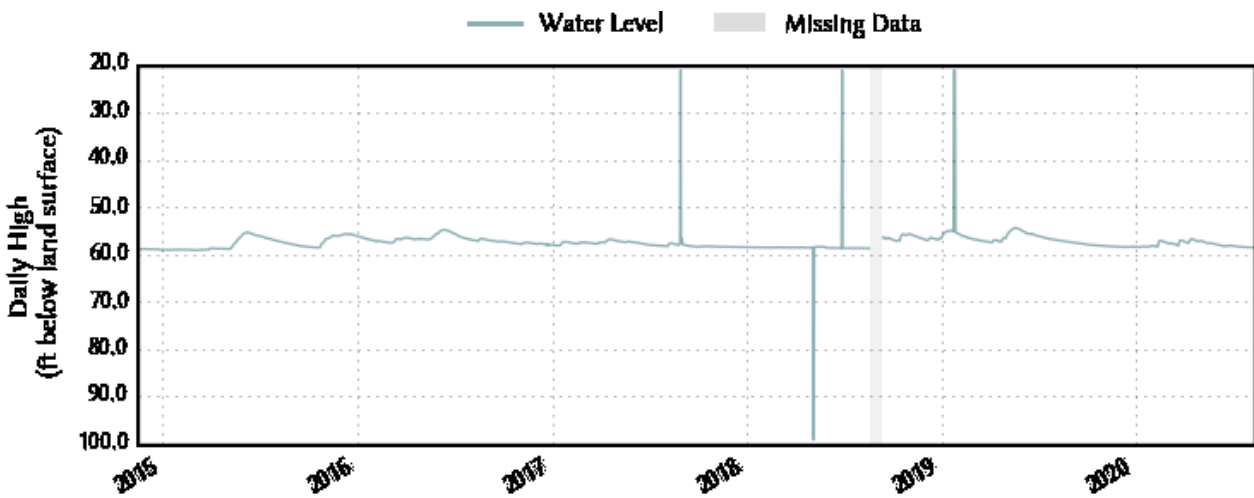
Last 30 Days



1 Year



Period Of Record



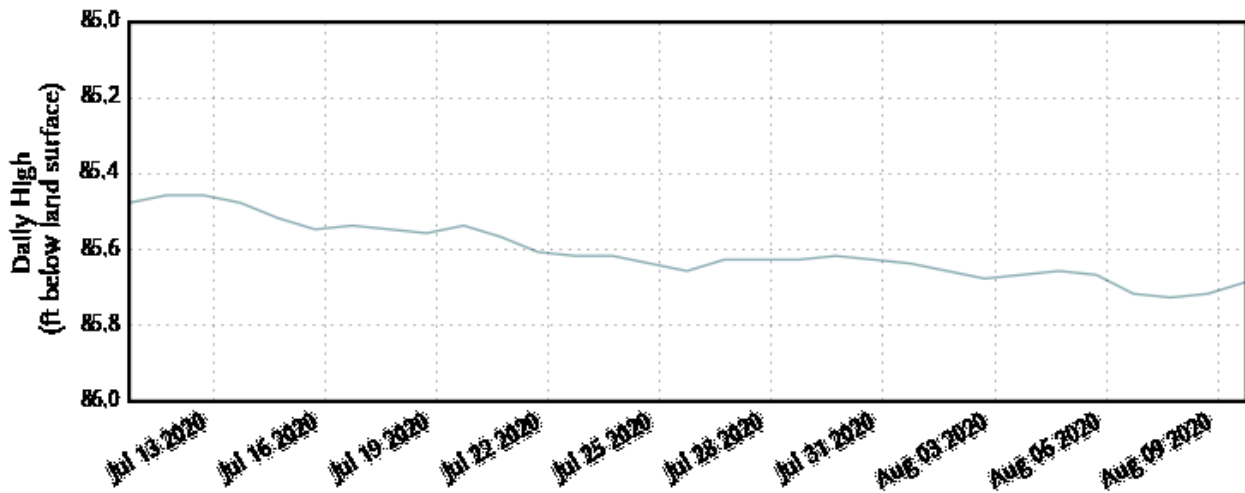


July 2020

Continuous Monitoring Well # 4058201  
(Central Texas College - Ranch Rd)  
Upper Trinity Aquifer

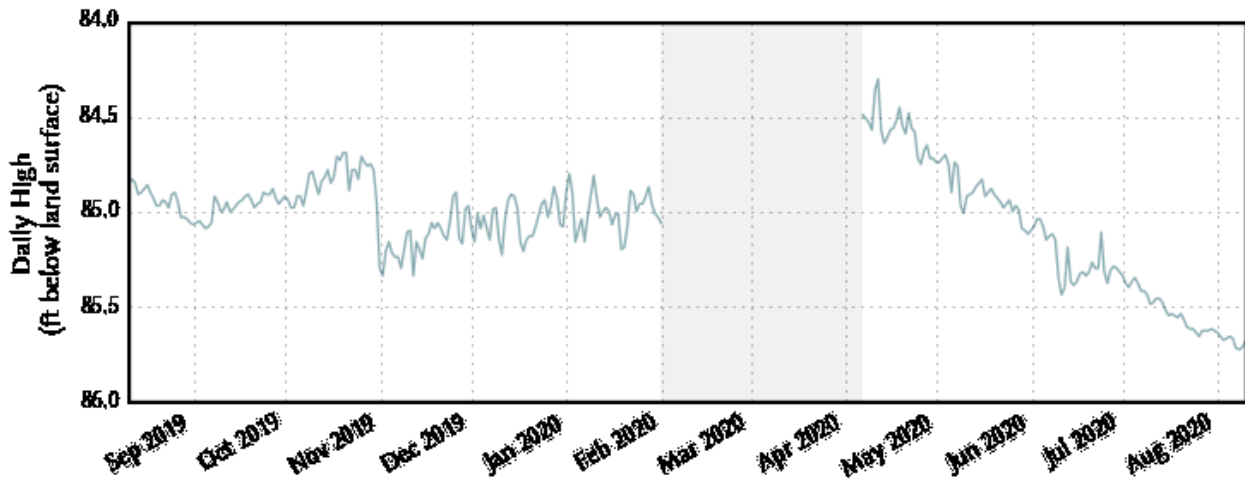
Last 30 Days

Water Level



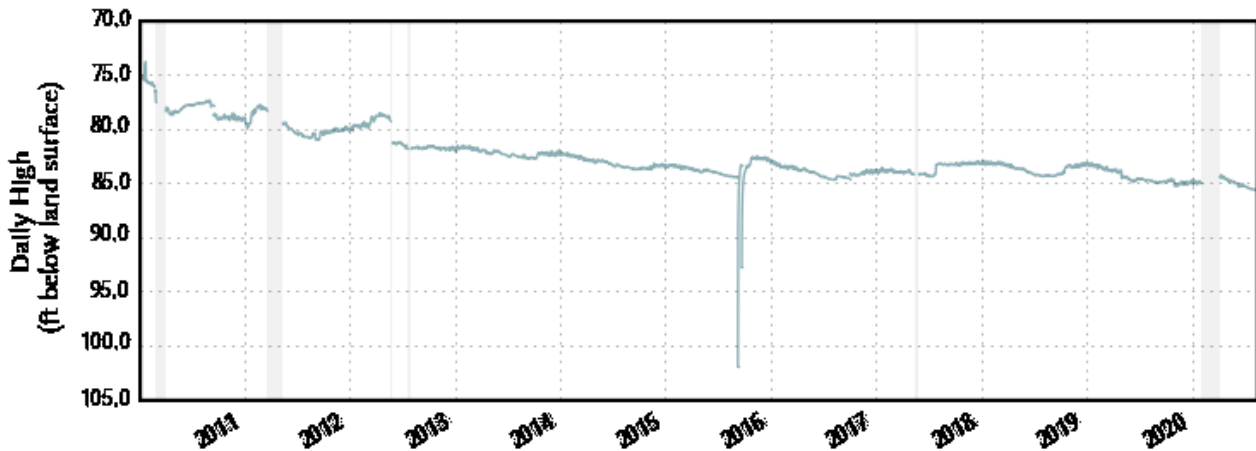
1 Year

Water Level Missing Data



Period Of Record

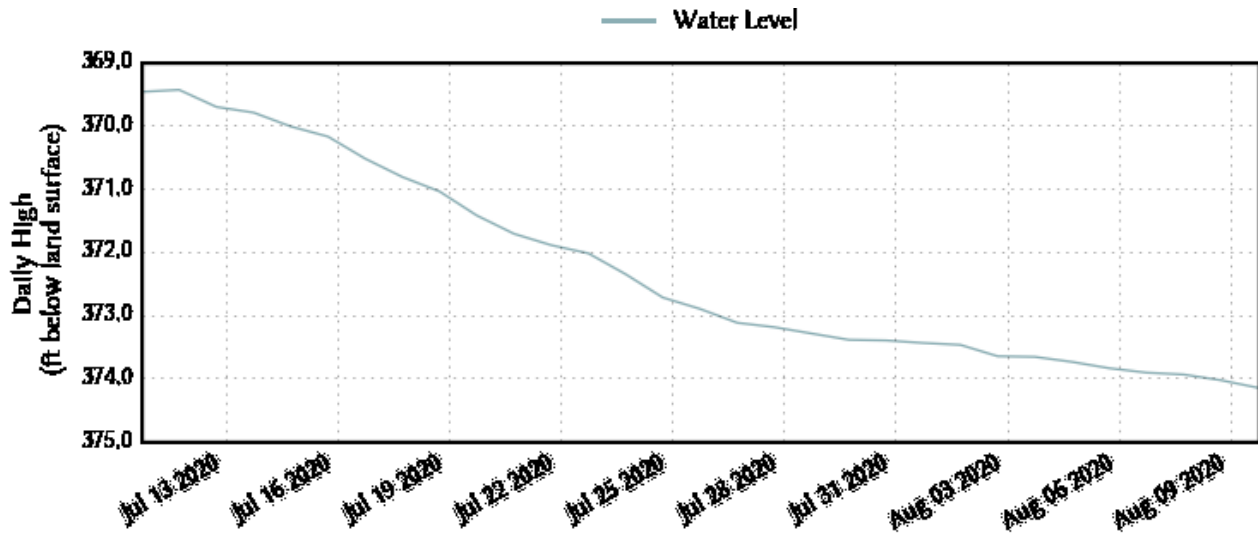
Water Level Missing Data



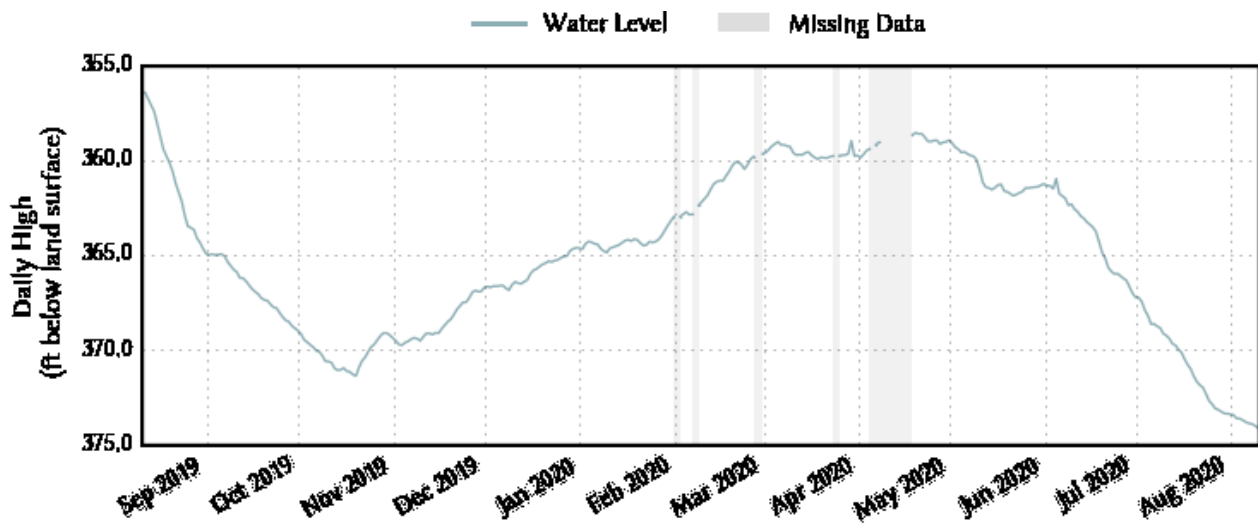
July 2020

Continuous Monitoring Well # 5802304  
(Killeen - River Ridge Ranch Park Well #1)  
Middle Trinity Aquifer

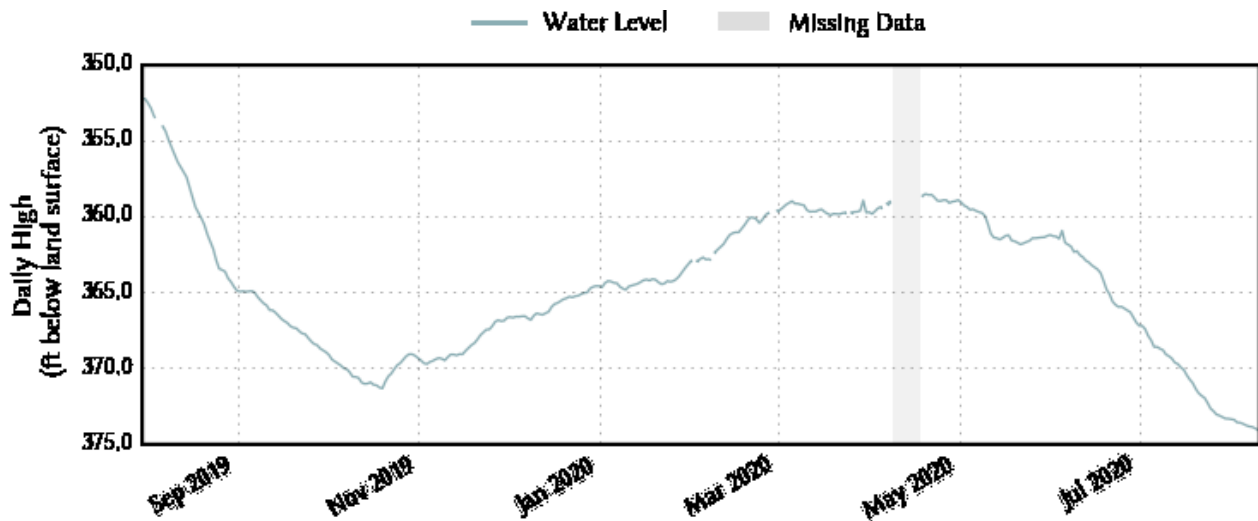
Last 30 Days



1 Year

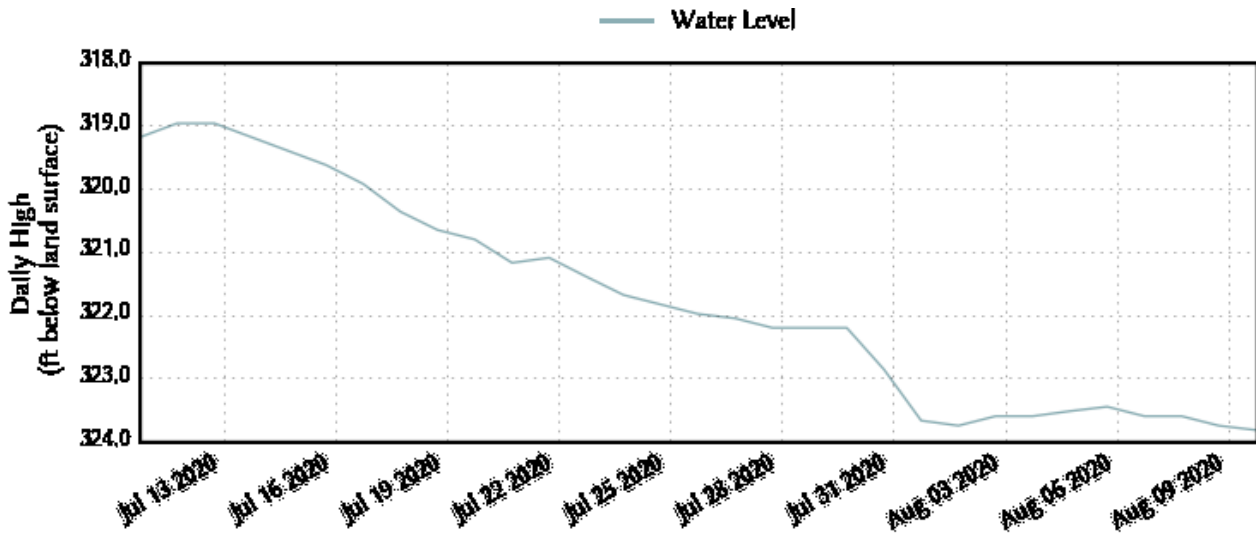


Period Of Record

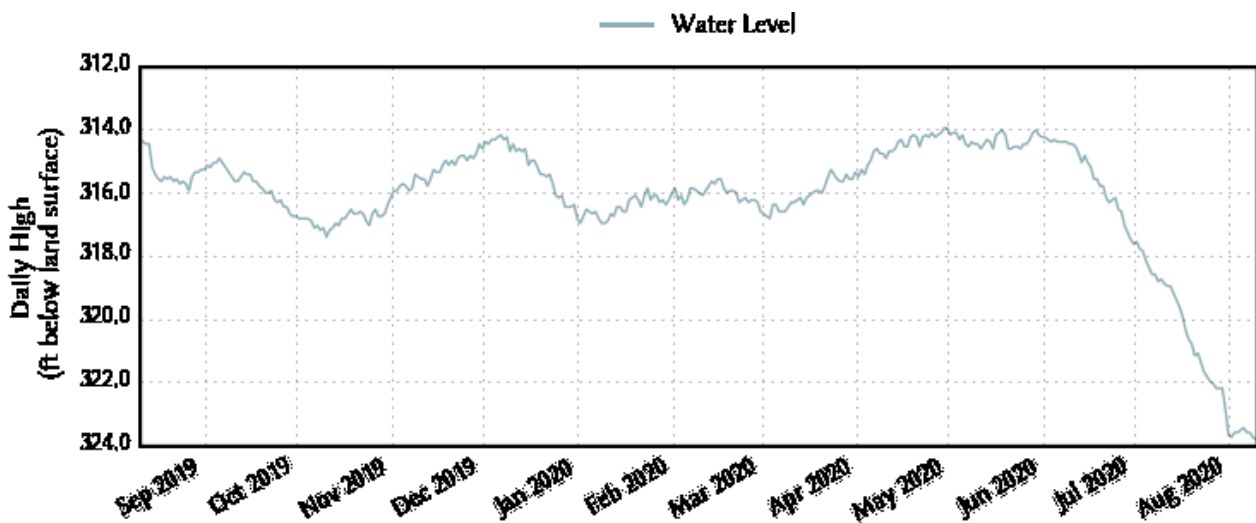


Continuous Monitoring Well # 4057601  
(Copperas Cove)  
Middle Trinity Aquifer

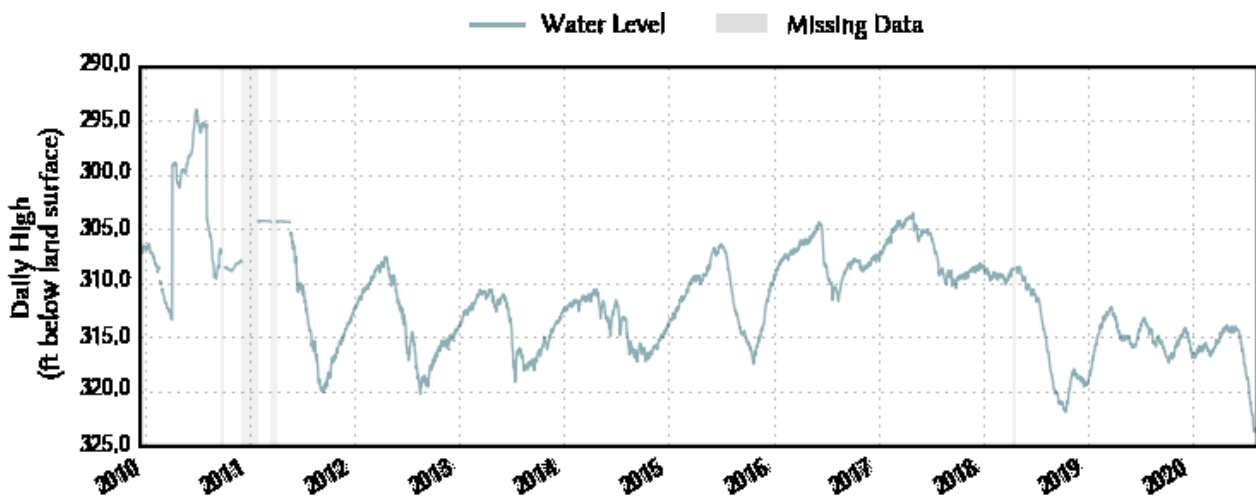
Last 30 Days



1 Year



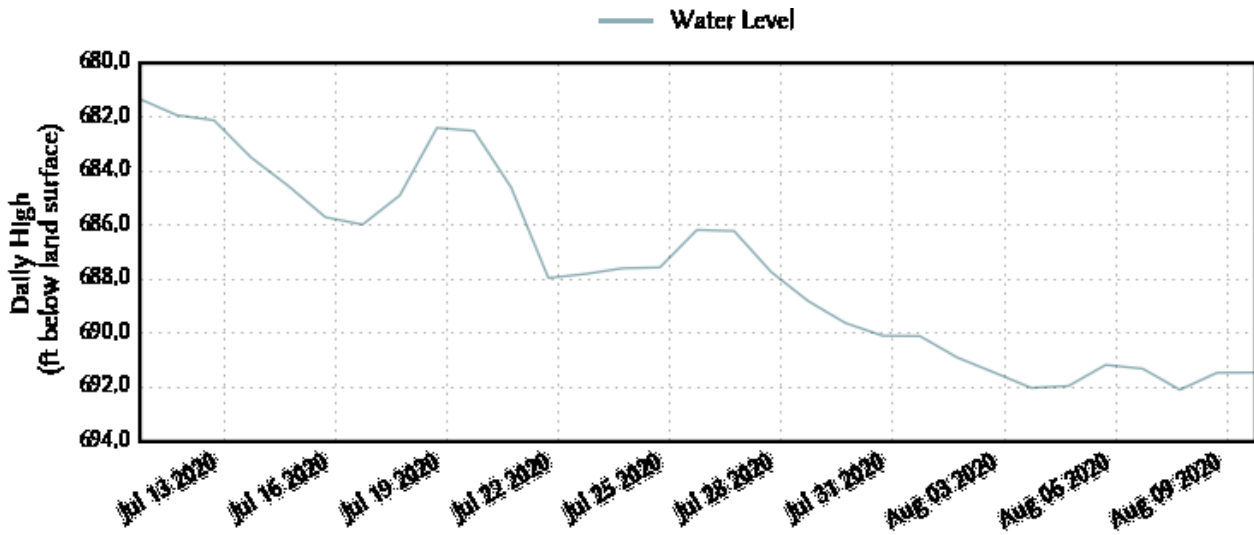
Period Of Record



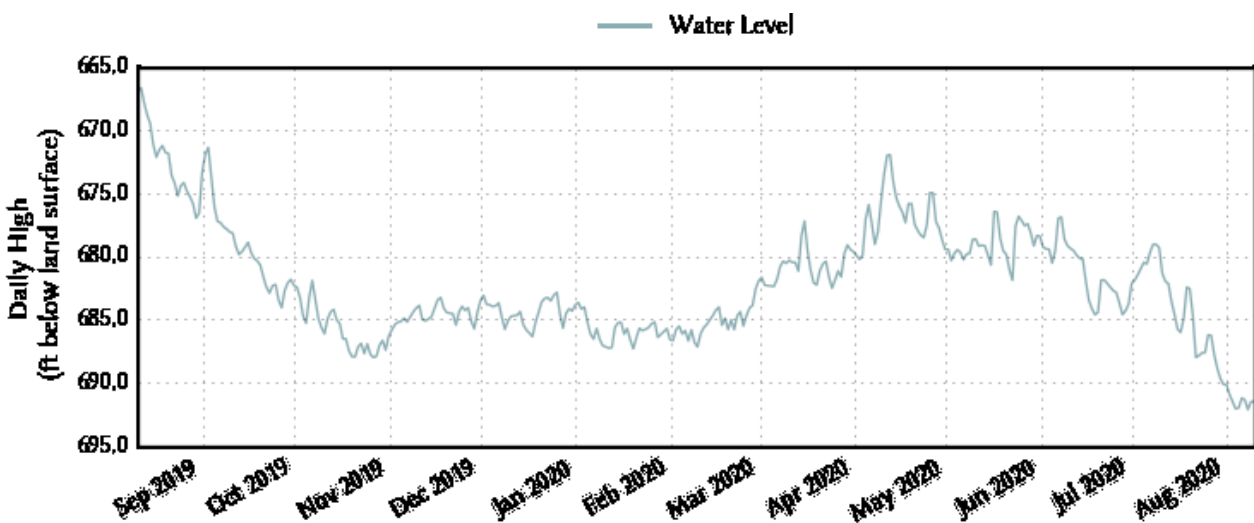
July 2020

Continuous Monitoring Well # 5803701  
(Gault Site - Williamson County)  
Middle Trinity Aquifer

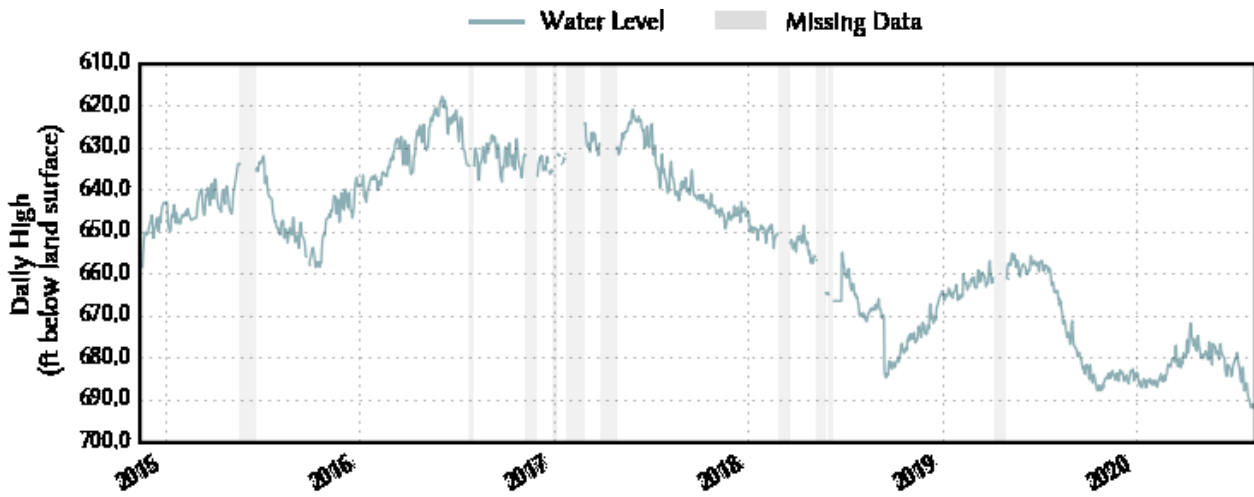
Last 30 Days



1 Year



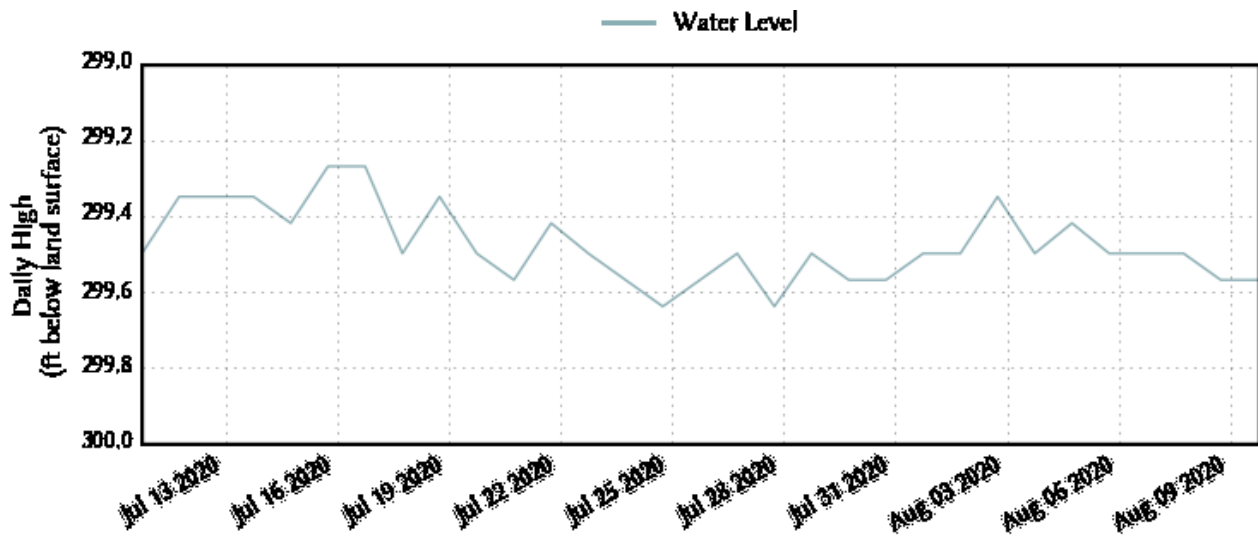
Period Of Record



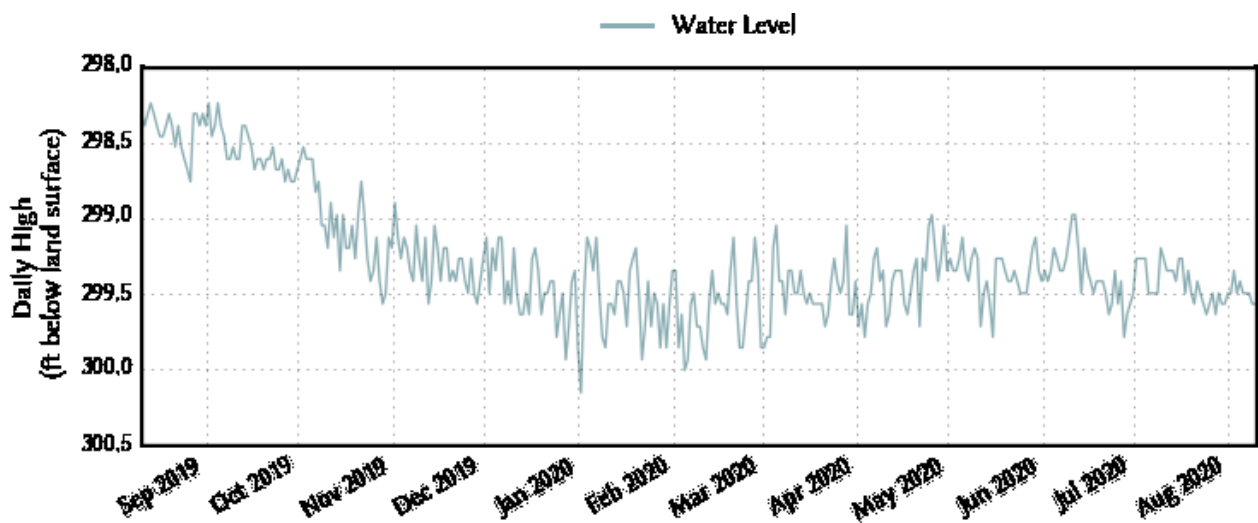
July 2020

Continuous Monitoring Well # 4057602  
(Copperas Cove)  
Lower Trinity Aquifer

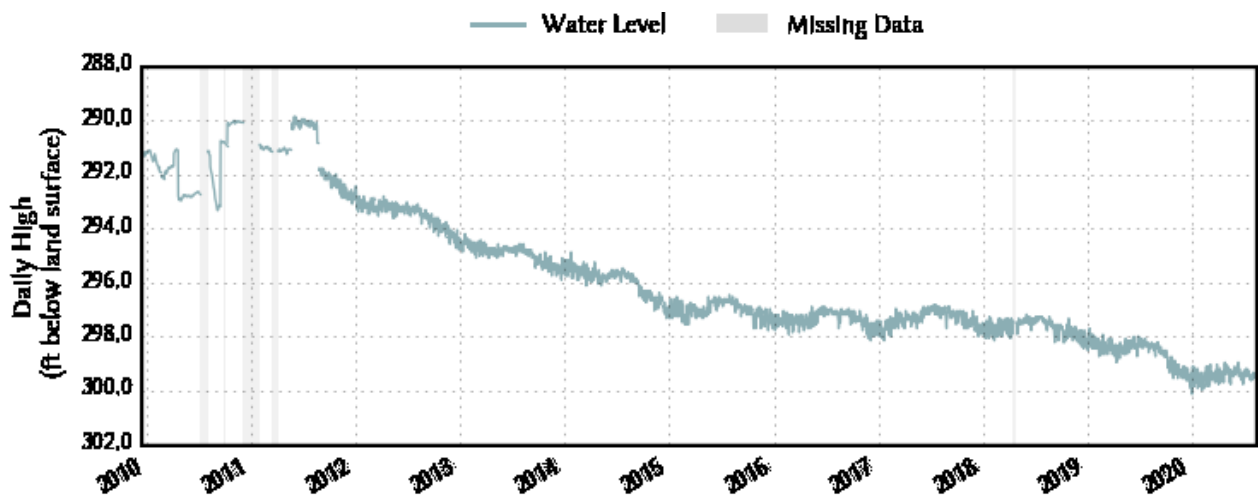
Last 30 Days



1 Year



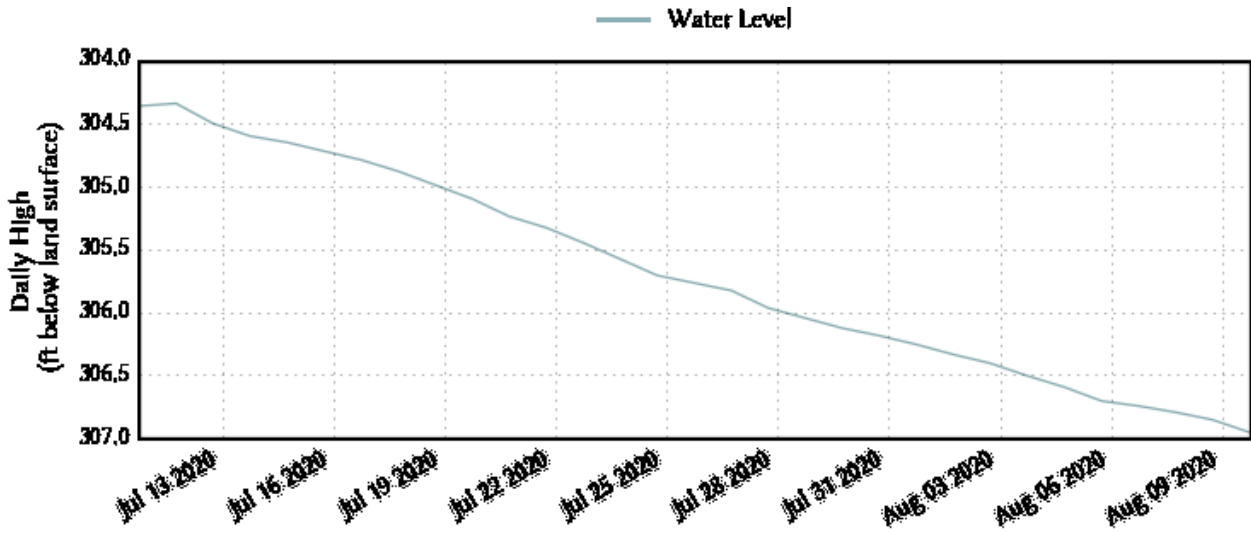
Period Of Record



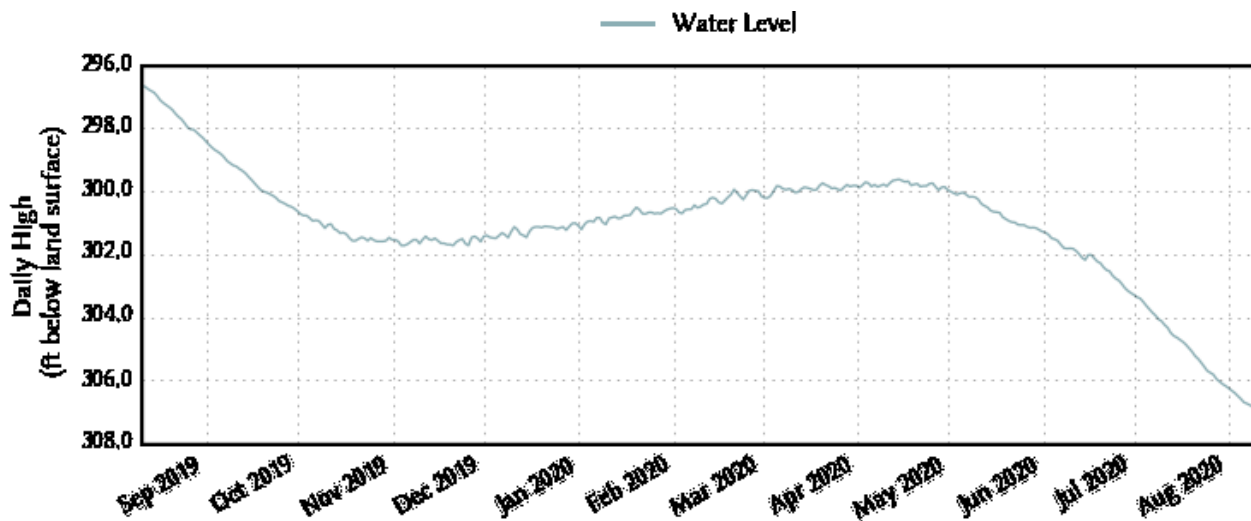
July 2020

Continuous Monitoring Well # 5802303  
(Killeen - River Ridge Ranch Park Well #2)  
Lower Trinity Aquifer

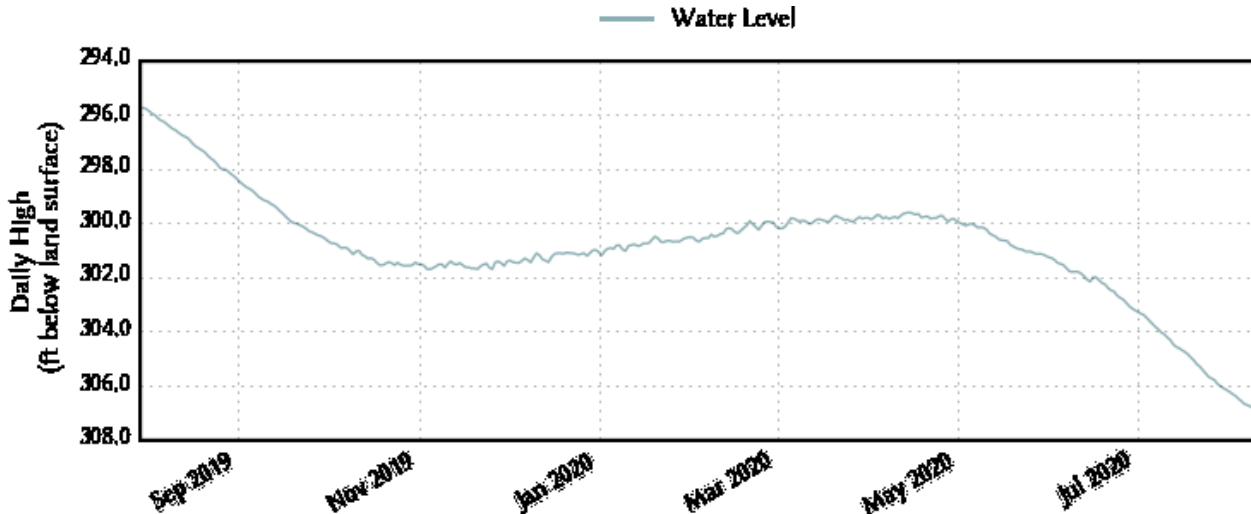
Last 30 Days



1 Year



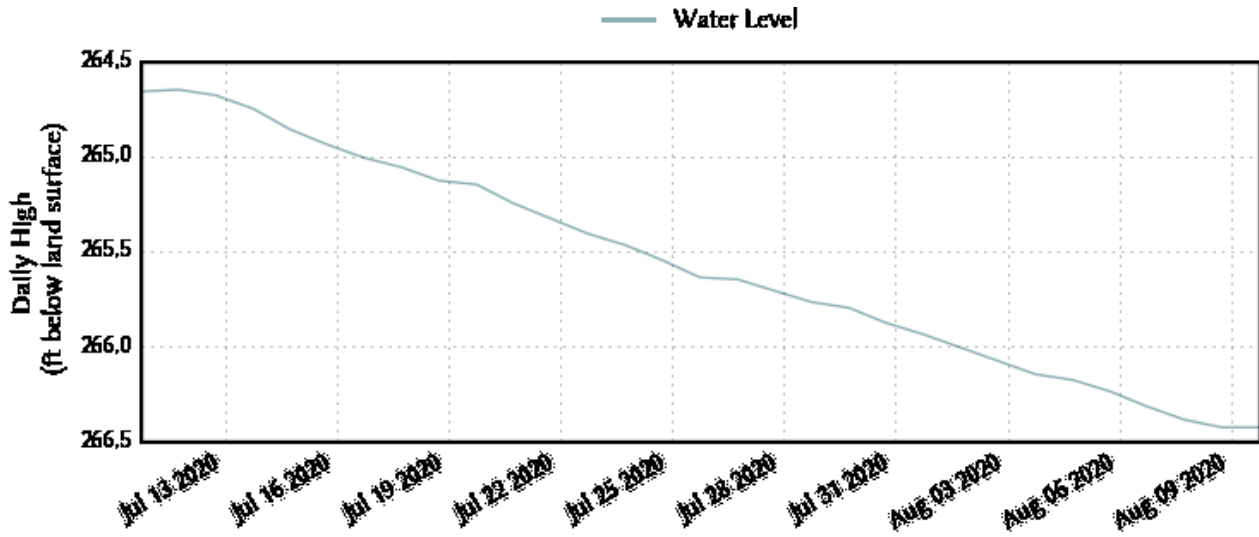
Period Of Record



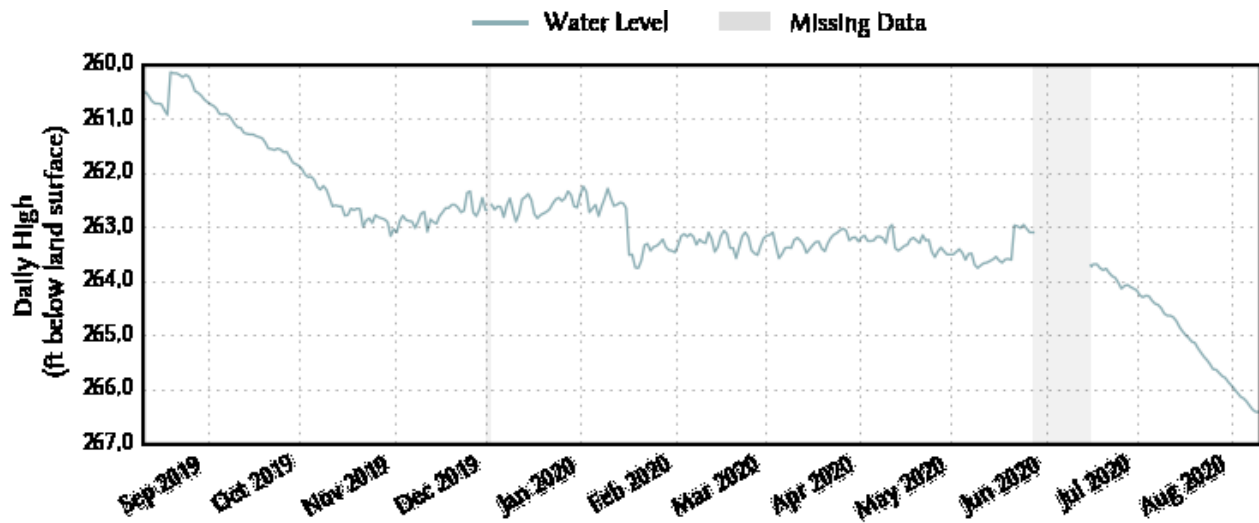
July 2020

Continuous Monitoring Well # 4061509  
(Temple - Pea Ridge Well)  
Lower Trinity Aquifer

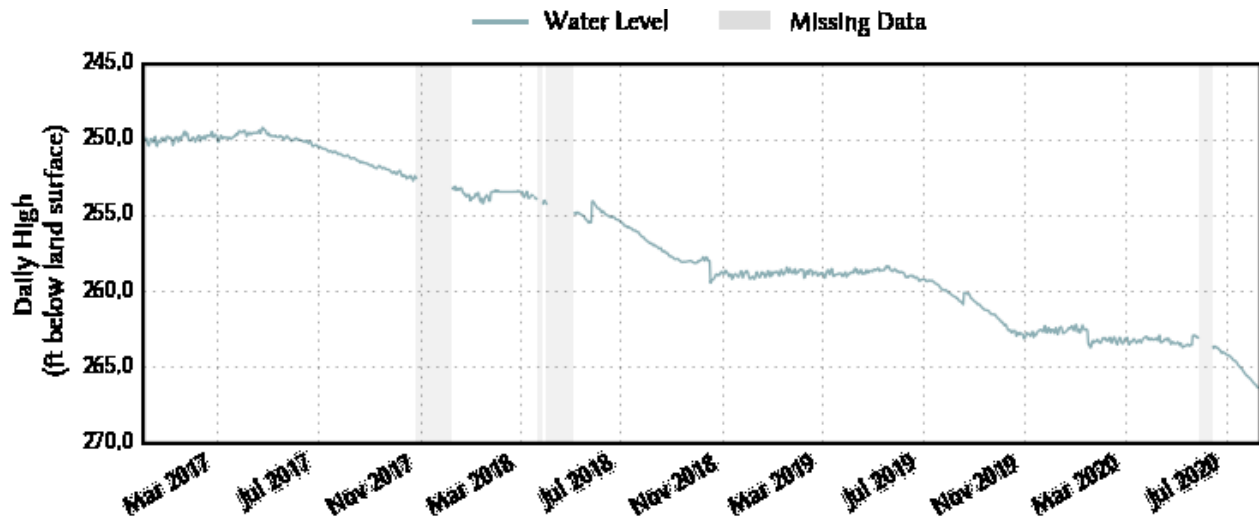
Last 30 Days



1 Year



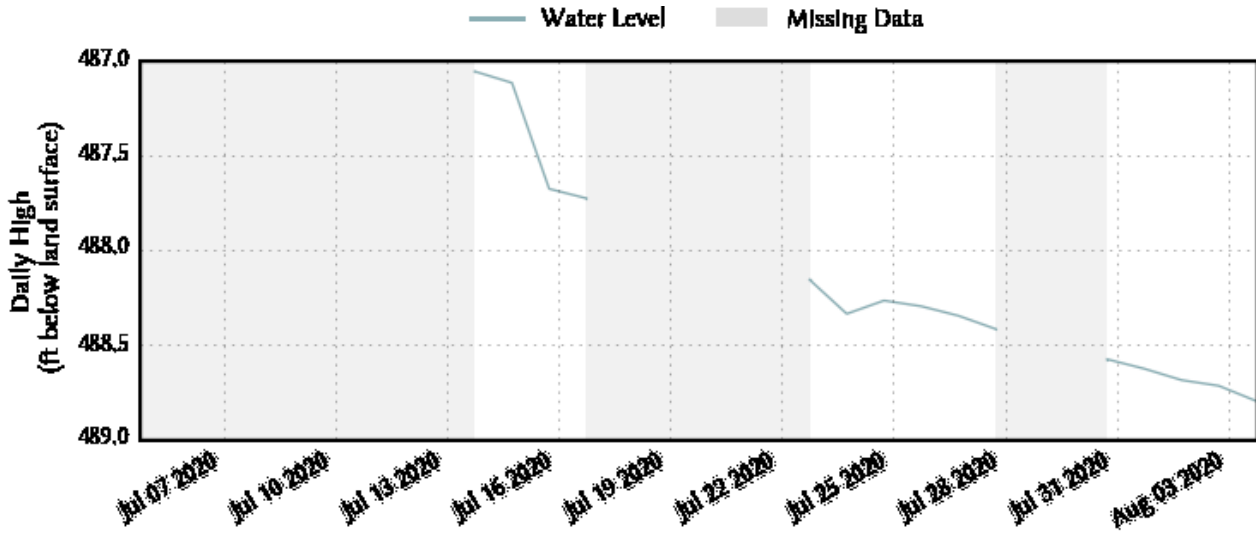
Period Of Record



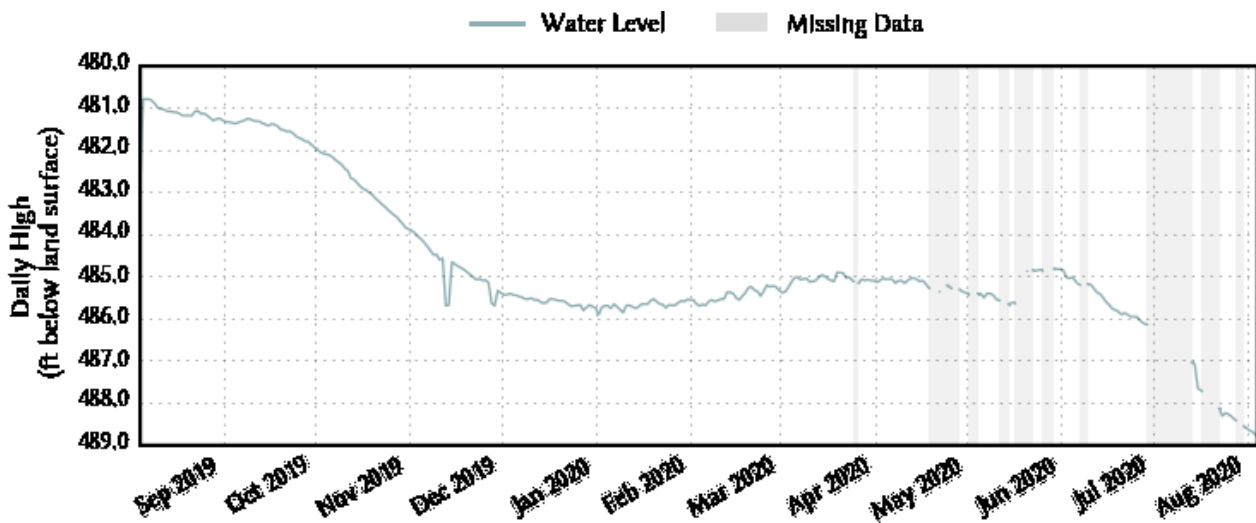
July 2020

Continuous Monitoring Well # 4054701  
(Temple - Cearley Well)  
Lower Trinity Aquifer

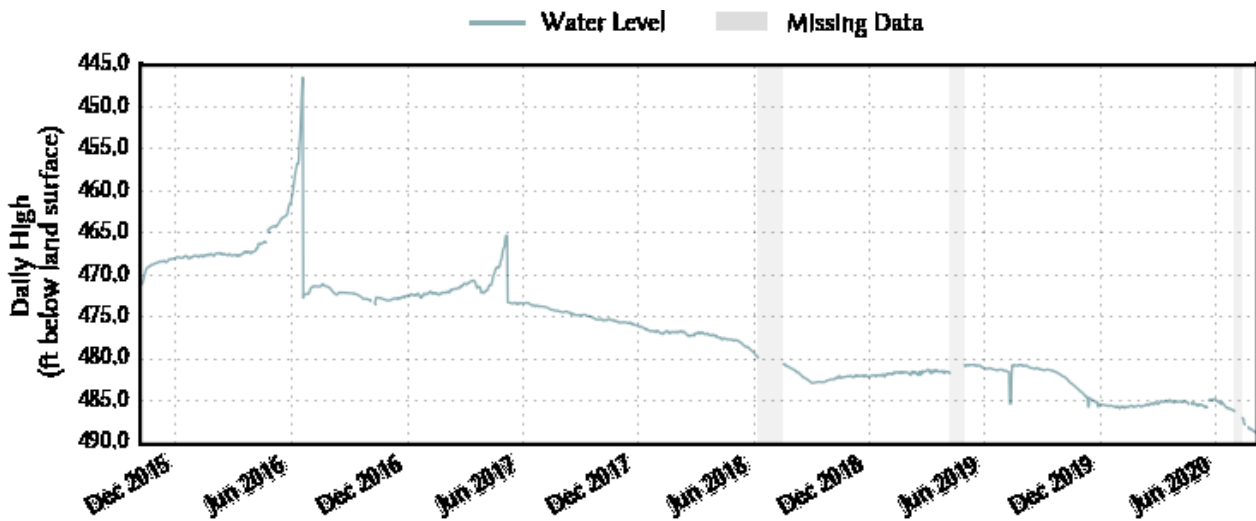
Last 30 Days



1 Year



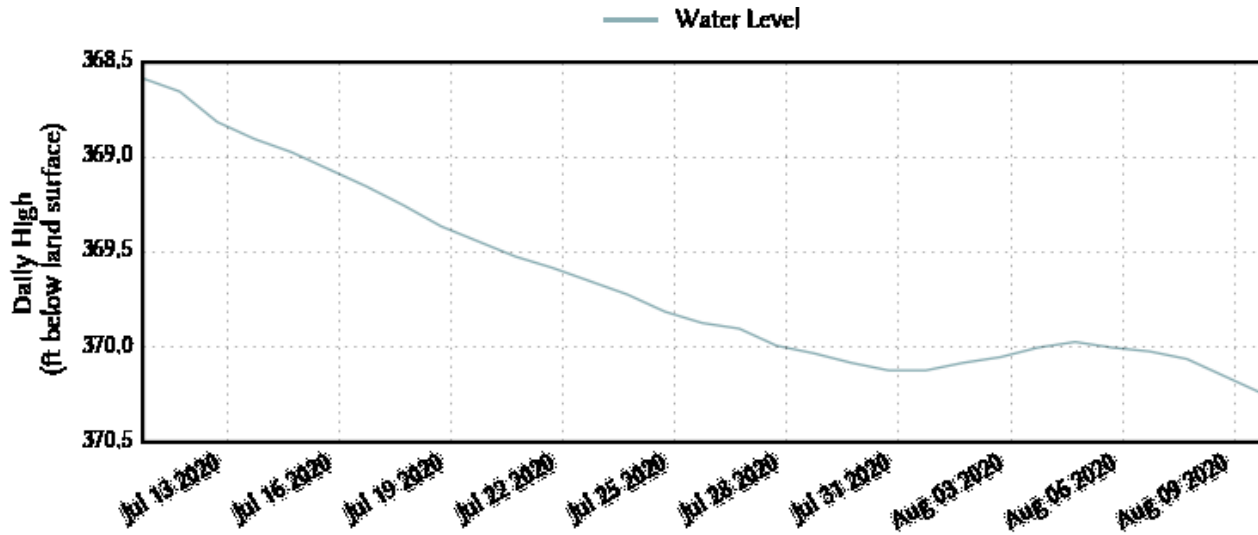
Period Of Record



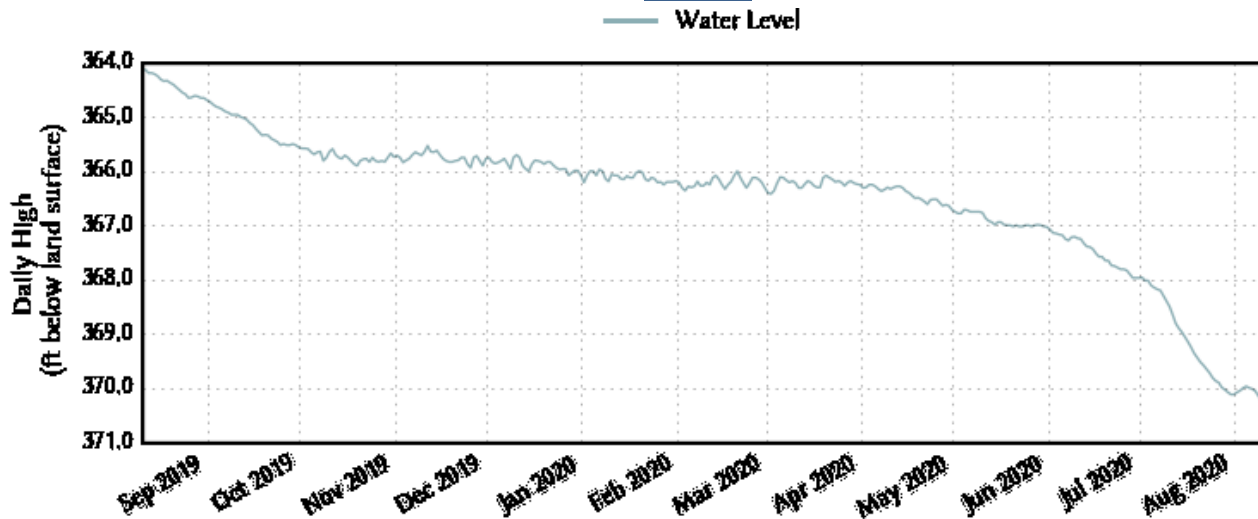


Continuous Monitoring Well # 4062501  
(Temple - Acres Well)  
Lower Trinity Aquifer

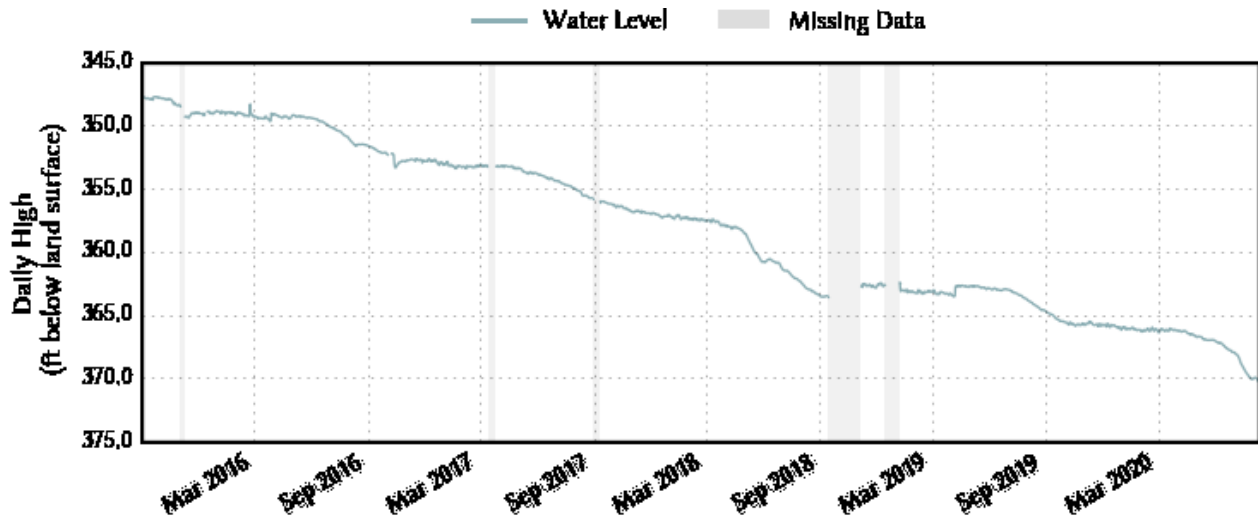
Last 30 Days



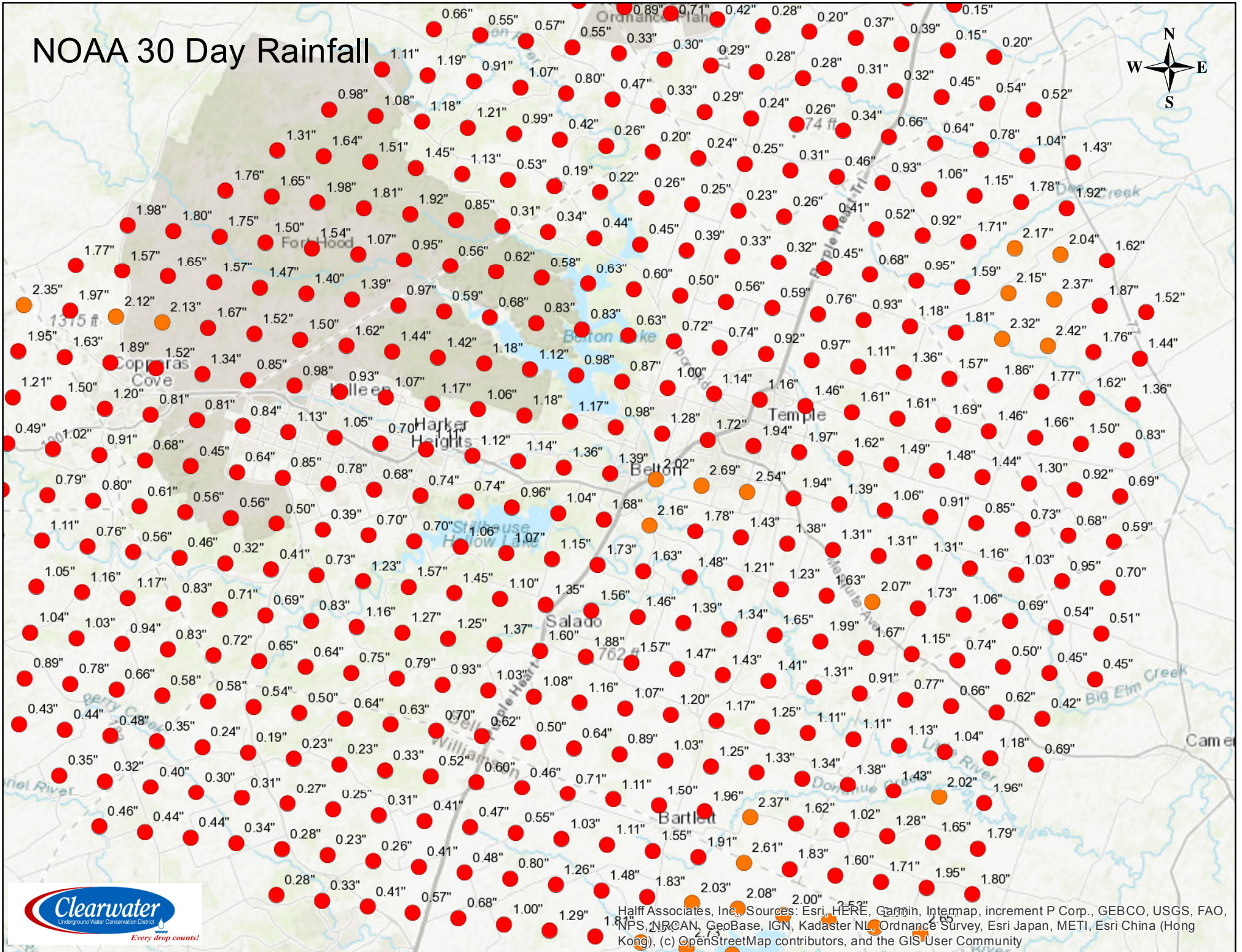
1 Year



Period Of Record

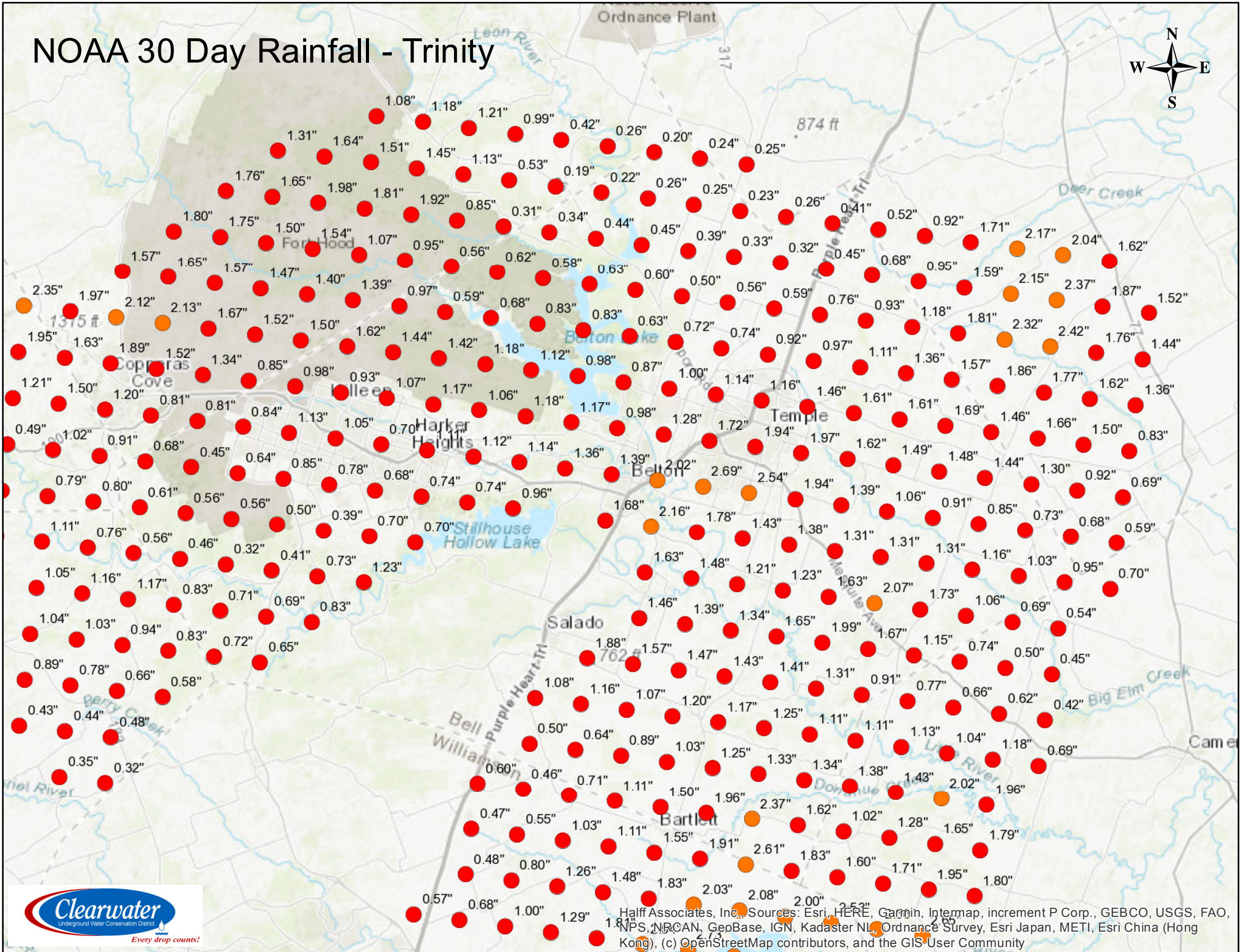


# NOAA 30 Day Rainfall



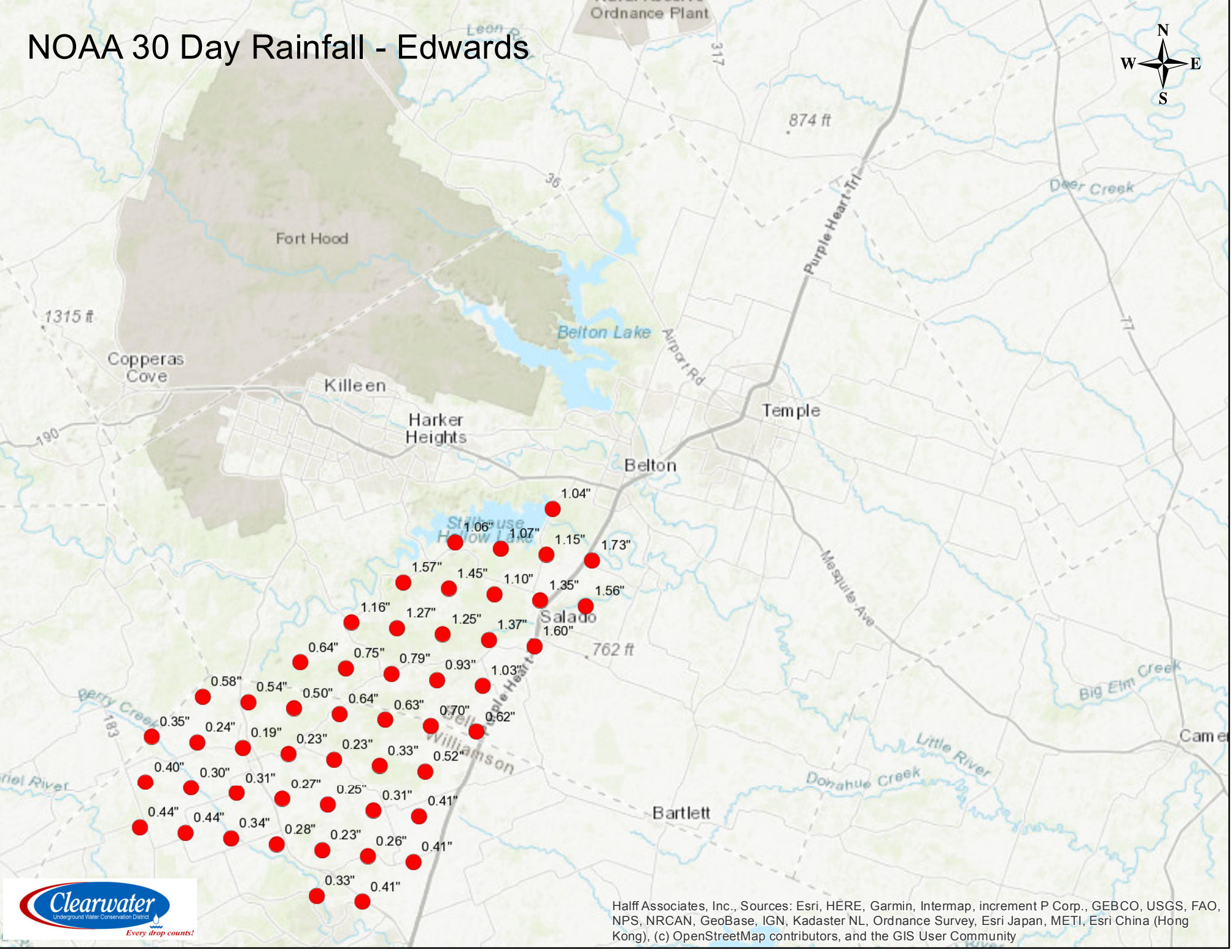
Half Associates, Inc. Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

# NOAA 30 Day Rainfall - Trinity



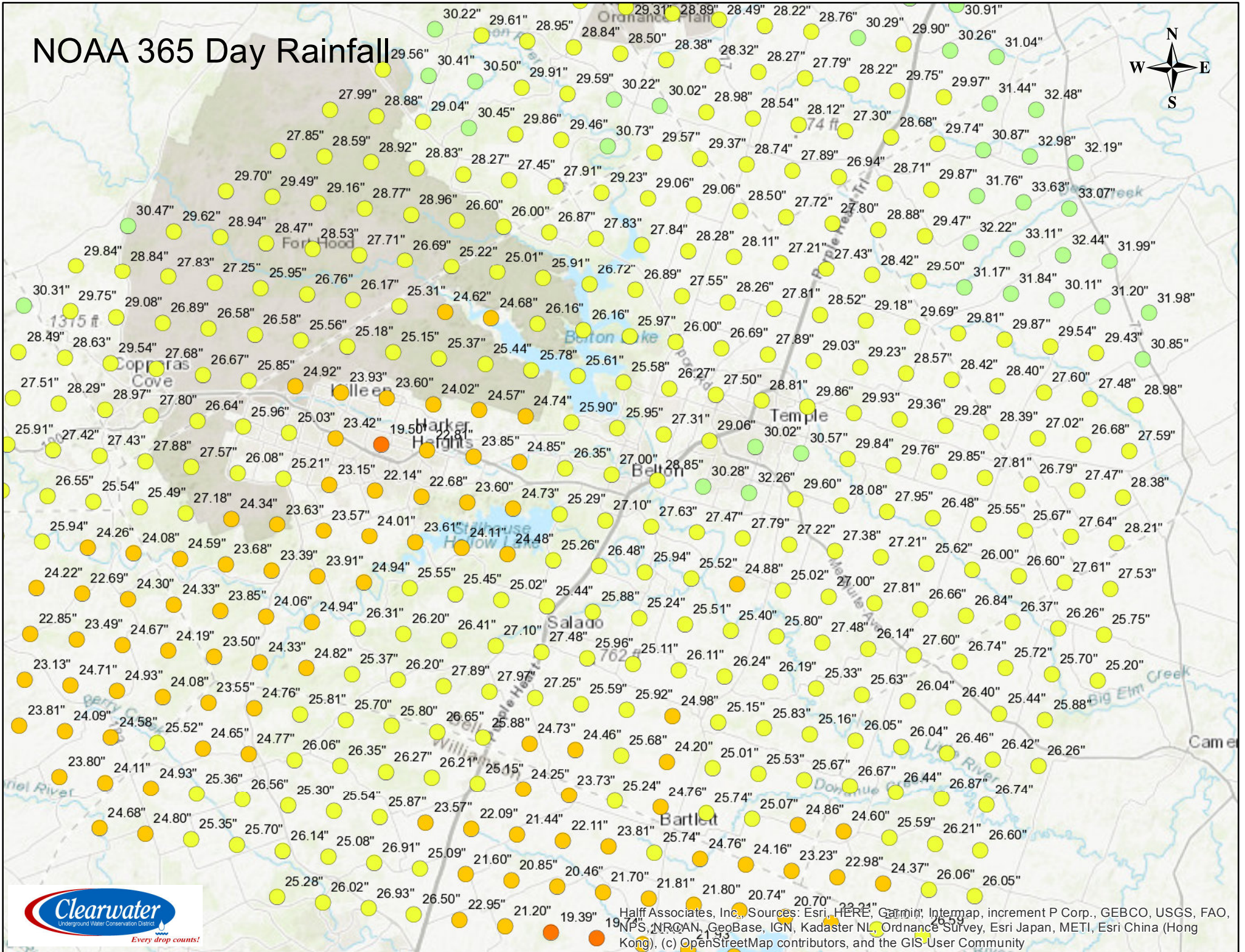
Half Associates, Inc. Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

# NOAA 30 Day Rainfall - Edwards



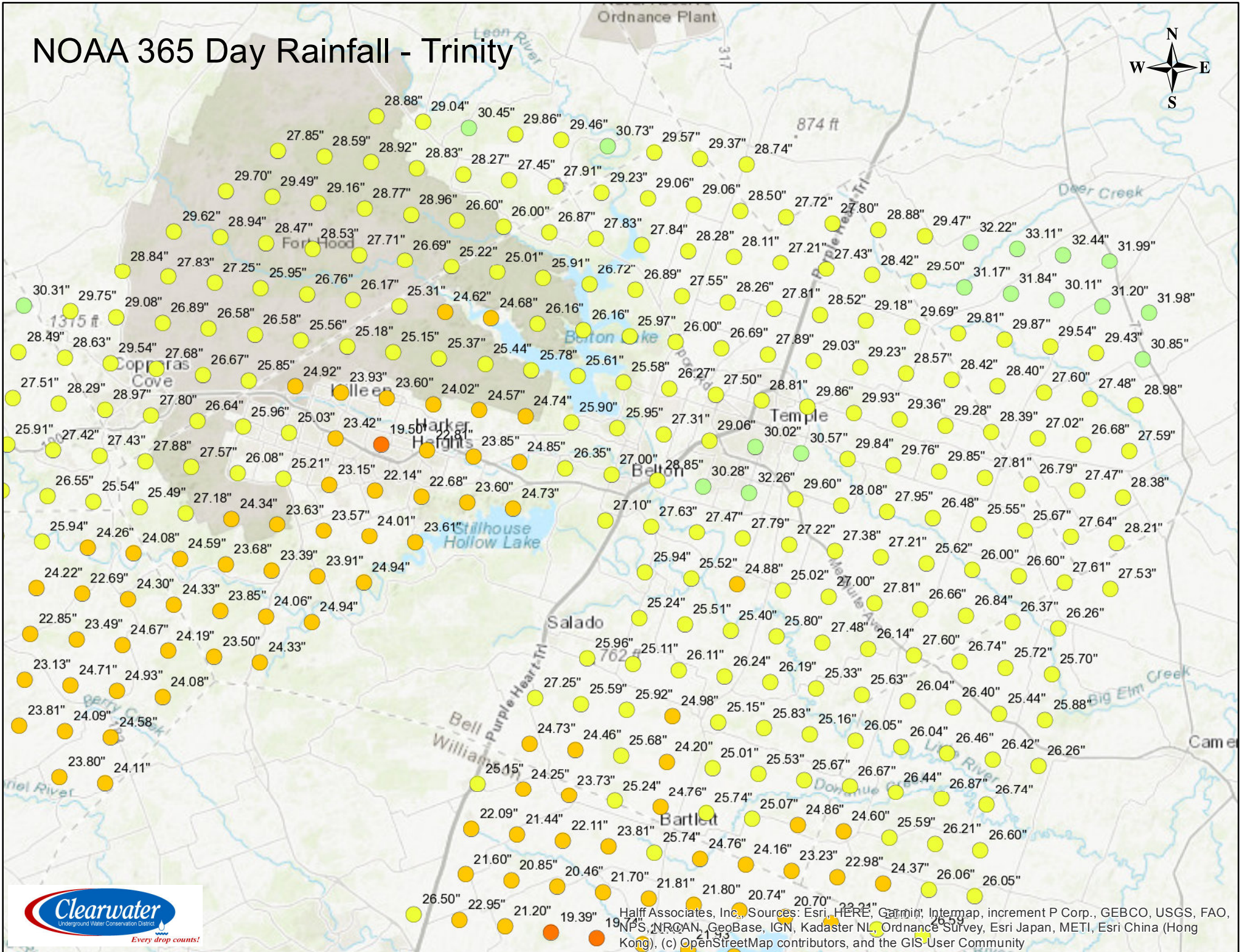
Half Associates, Inc., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

# NOAA 365 Day Rainfall



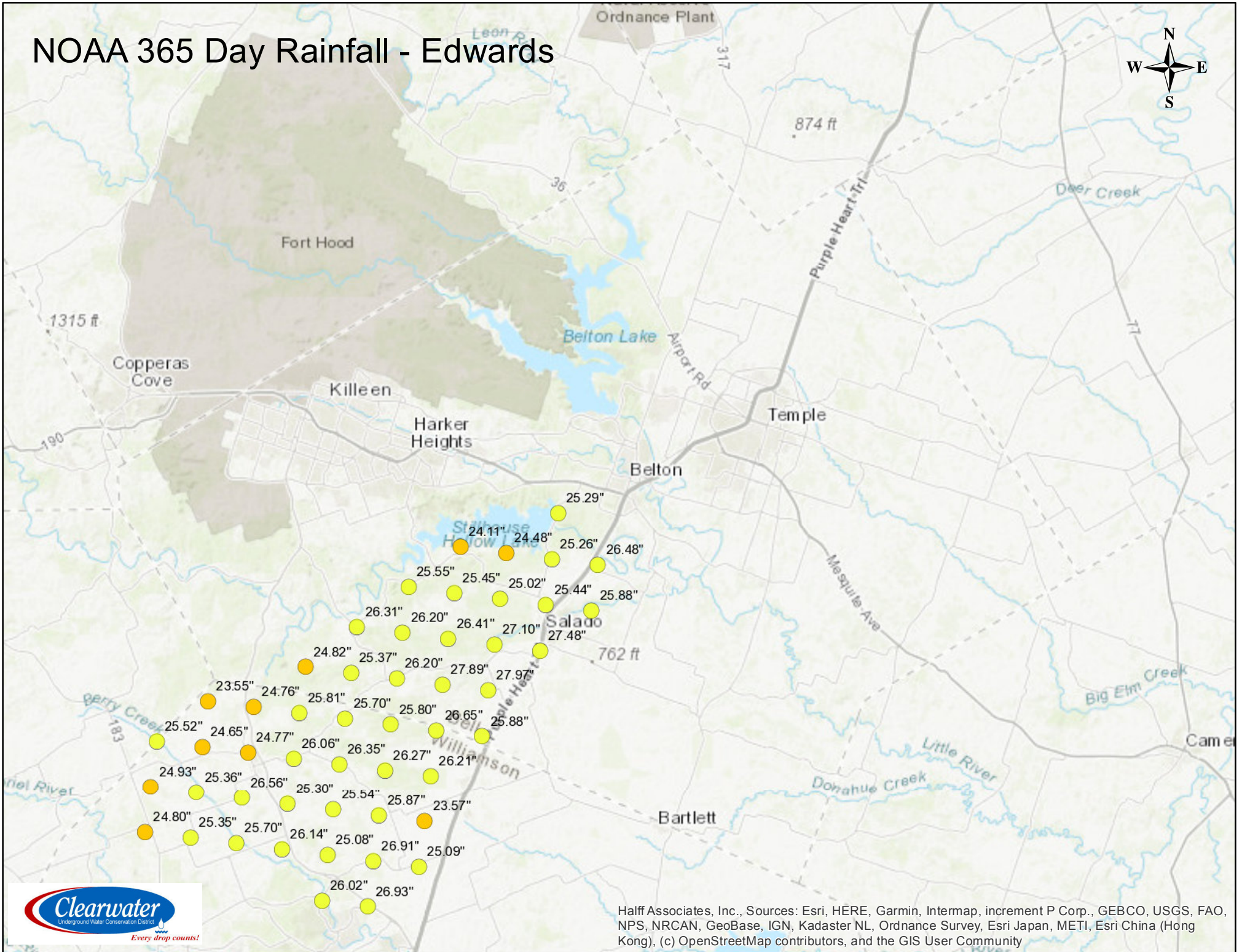
Half Associates, Inc. Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

# NOAA 365 Day Rainfall - Trinity



Half Associates, Inc. Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

# NOAA 365 Day Rainfall - Edwards



Half Associates, Inc., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

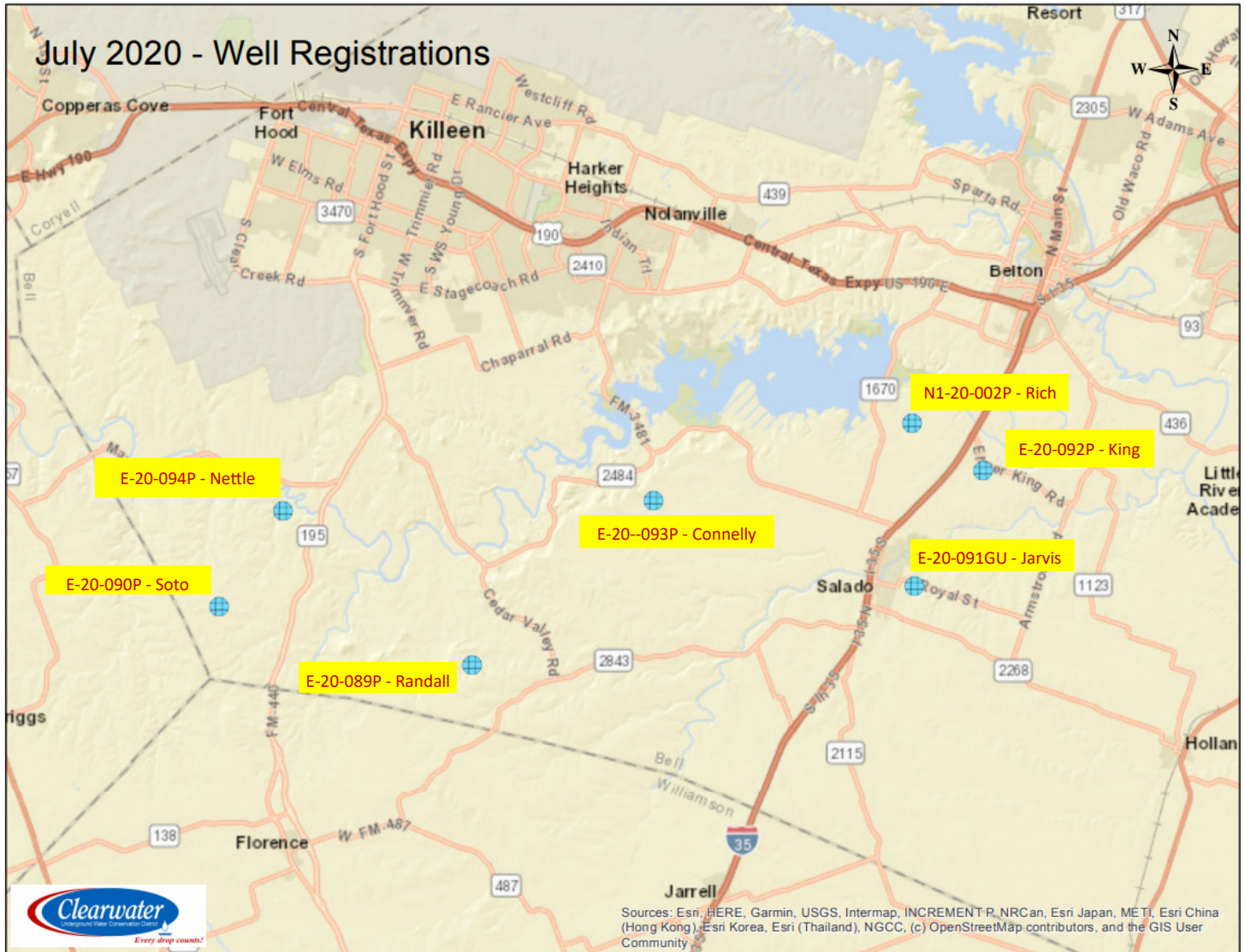
## Well Registration Totals

Year	Exempt Wells		Non-Exempt Wells			Monitor Wells		Total
	Grandfathered	New	Grandfathered	Class 1	Class 2	Water	Envr	
<b>2002 - 2019</b>	4352	1013	104	33	52	25	121	<b>5700</b>
<b>2020 - Jan</b>	4	1	0	0	0	0	0	<b>5</b>
<b>Feb</b>	0	4	0	1	1	0	0	<b>6</b>
<b>Mar</b>	0	0	0	0	4	1	0	<b>5</b>
<b>Apr</b>	60	2	0	0	0	0	0	<b>62</b>
<b>May</b>	0	10	0	0	0	0	0	<b>10</b>
<b>June</b>	1	5	0	0	0	0	0	<b>6</b>
<b>July</b>	1	5	0	1	0	0	0	<b>7</b>
<b>Aug</b>								<b>0</b>
<b>Sept</b>								<b>0</b>
<b>Oct</b>								<b>0</b>
<b>Nov</b>								<b>0</b>
<b>Dec</b>								<b>0</b>
<b>Total 2020</b>	<b>66</b>	<b>27</b>	<b>0</b>	<b>2</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>101</b>
<b>Totals</b>	<b>4418</b>	<b>1040</b>	<b>104</b>	<b>35</b>	<b>57</b>	<b>26</b>	<b>121</b>	<b>5801</b>

## Adjustments

Adjustment Type	Exempt Wells		Non-Exempt Wells			Monitor Wells		Total
	Grandfathered	New	Grandfathered	Class 1	Class 2	Water	Envr	
<b>2002-Present</b>	<b>4418</b>	<b>1040</b>	<b>104</b>	<b>35</b>	<b>57</b>	<b>26</b>	<b>121</b>	<b>5801</b>
Never Drilled	N/A	-27	N/A	-3	-4	0	-1	-35
Plugged	-203	-42	-18	-2	-1	-2	-53	-321
<b>Totals</b>	<b>4215</b>	<b>971</b>	<b>86</b>	<b>30</b>	<b>52</b>	<b>24</b>	<b>67</b>	<b>5445</b>





Well #	Well Owner	Address	City	Aquifer	Depth	Use	Status
E-20-089P	Kimberly Randall	21301 Firefly Rd	Florence	Undeclared	75	Domestic	Proposed
E-20-090P	Salvador Soto	22283 Wolfridge Rd	Killeen	Undeclared	500	Domestic	Proposed
E-20-091GU	Jeffrey Jarvis	1611 Royal Street	Salado	Edwards (BFZ)	192	Domestic	Active
E-20-092P	Elmer King, Jr.	501 Elmer King Rd	Belton	Undeclared	200	Domestic	Proposed
E-20-093P	Paige Connelly	12362 Eagles Nest Road	Salado	Undeclared	875	Domestic	Proposed
E-20-094P	Kenneth Nettle	1489 River Ridge Ranch Rd	Killeen	Undeclared	500	Domestic	Proposed
N1-20-002P	Donald & Sheryl Rich	6877 Smith Dairy Rd	Belton	Undeclared	140	Domestic	Proposed