



## *Clearwater Underground Water Conservation District*

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*Gary Young*

*Jody Williams*

*Scott Brooks*

*David Cole*

### Clearwater Staff Reports

October 14, 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

## NO DROUGHT

(Expect reductions to remain in place until October 14, 2020)

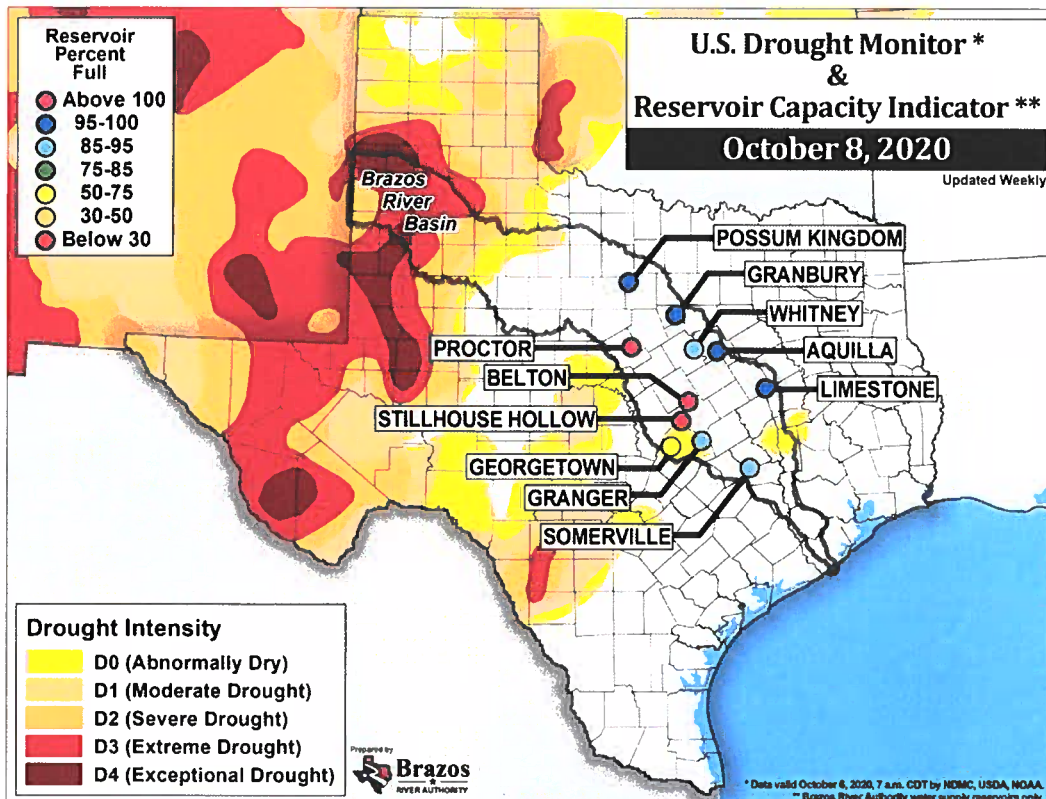
AS OF 10/07/20



33.35 PDI  
101.05 %

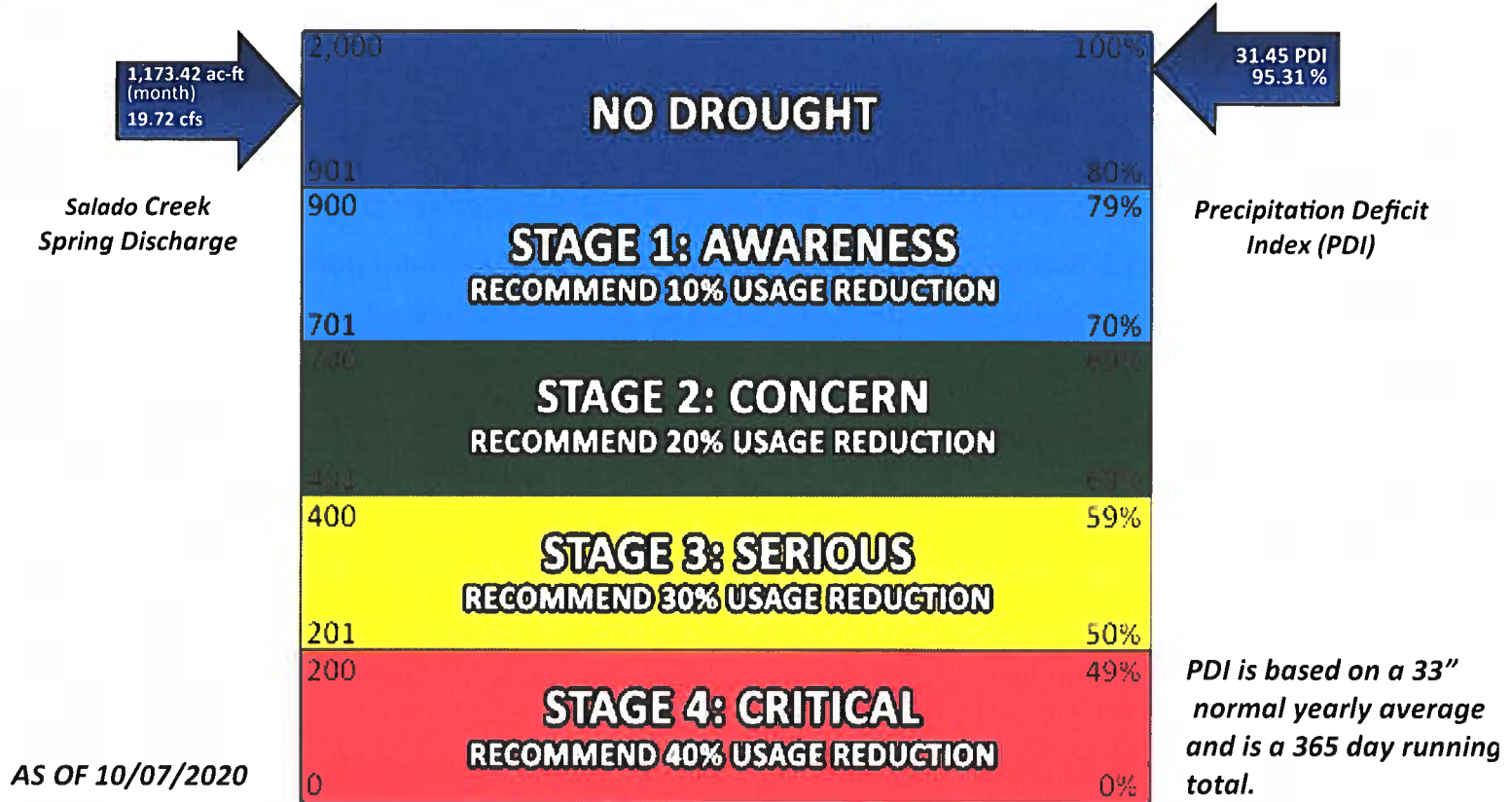
Precipitation Deficit Index (PDI)

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



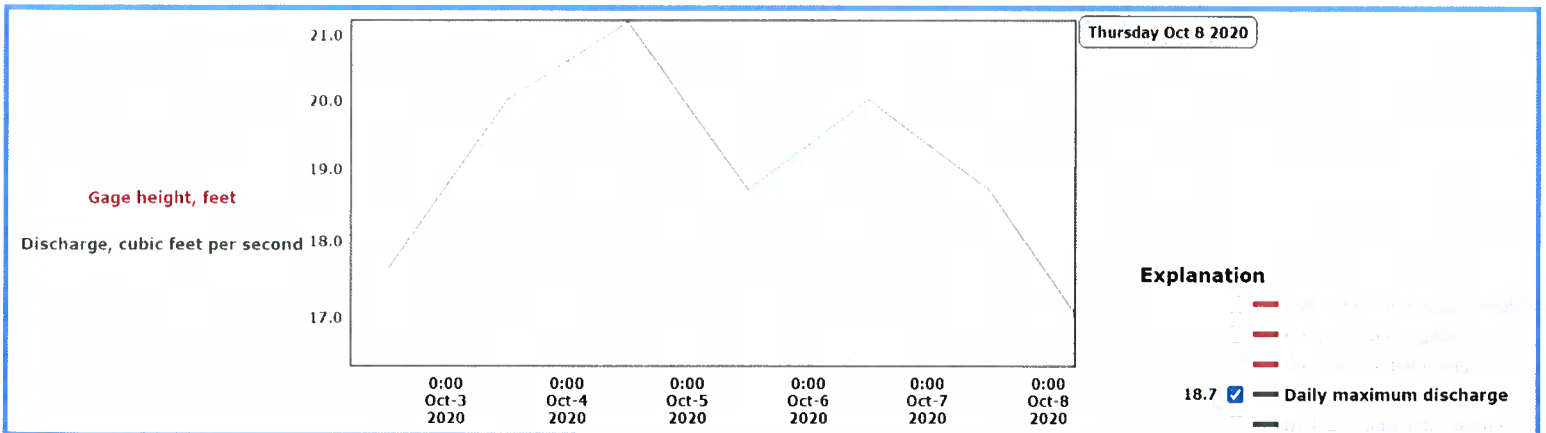
# Edwards BFZ Aquifer—Drought Status Report

## NO DROUGHT



### USGS 08104300 Salado Ck at Salado, TX

Discharge, cubic feet per second





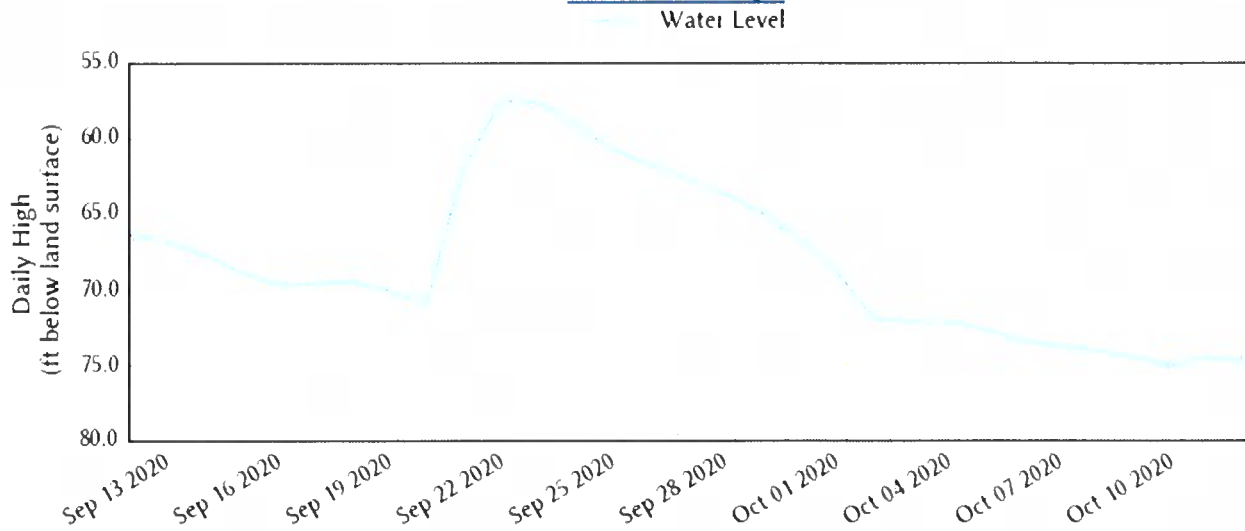
## Education Outreach Highlights 10/14/20

- 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.

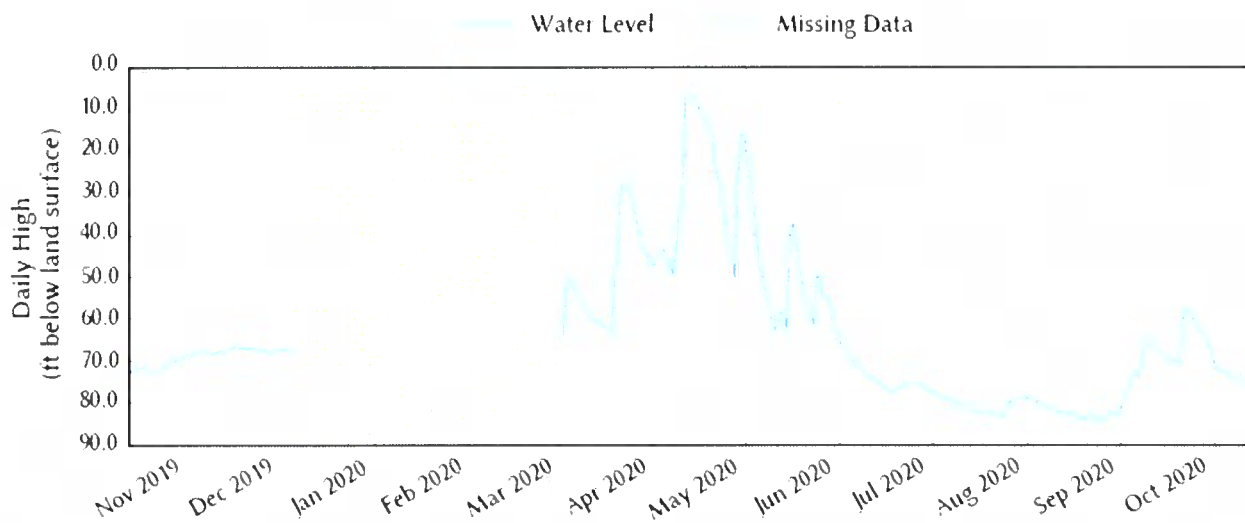
**September 2020**

**Continuous Monitoring Well # 5804628  
(Salado Cemetery)  
Edwards Aquifer**

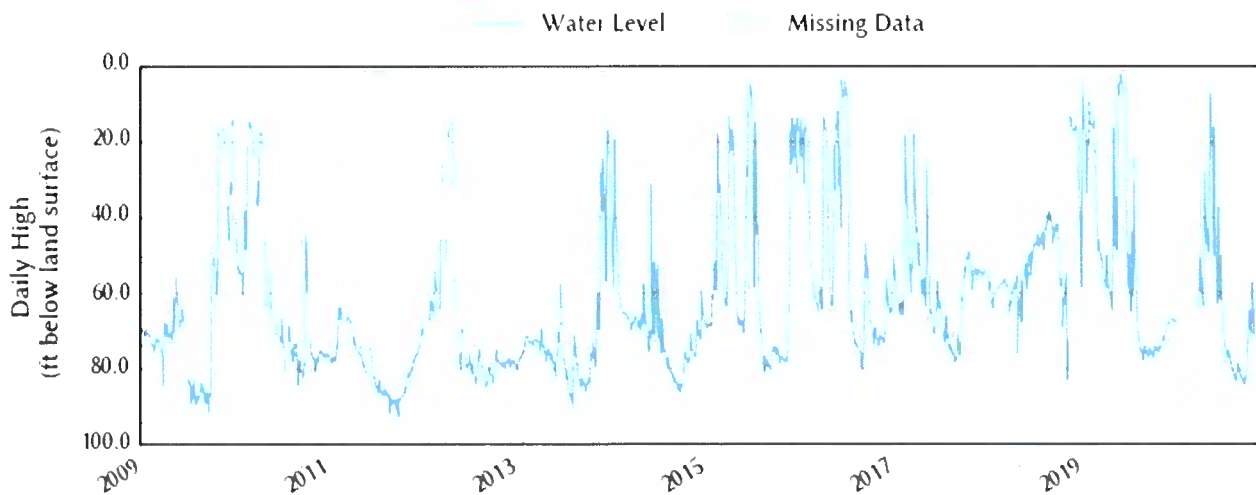
**Last 30 Days**



**1 Year**



**Period Of Record**

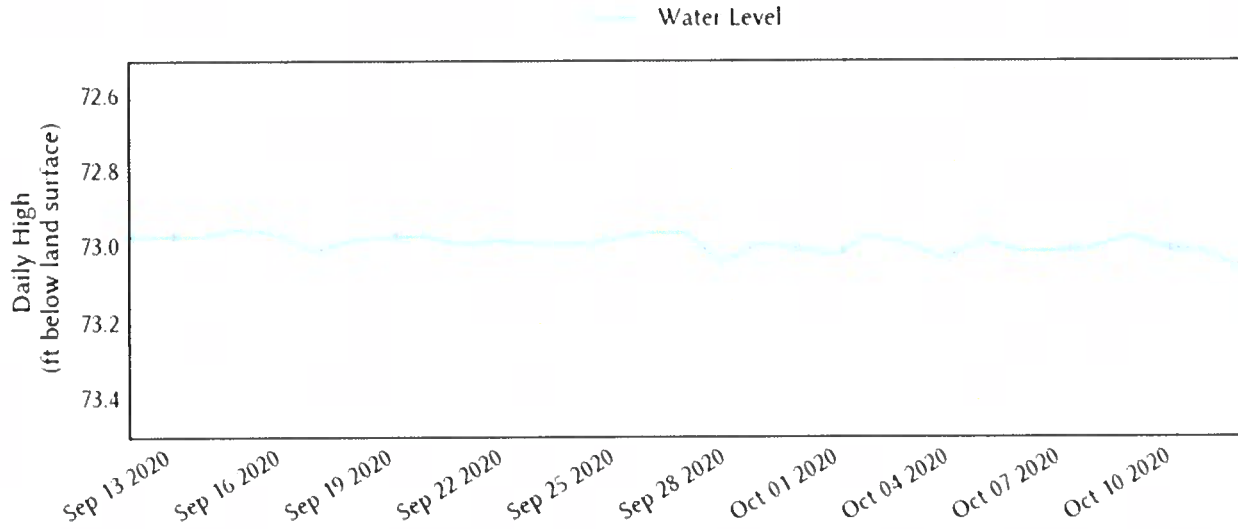




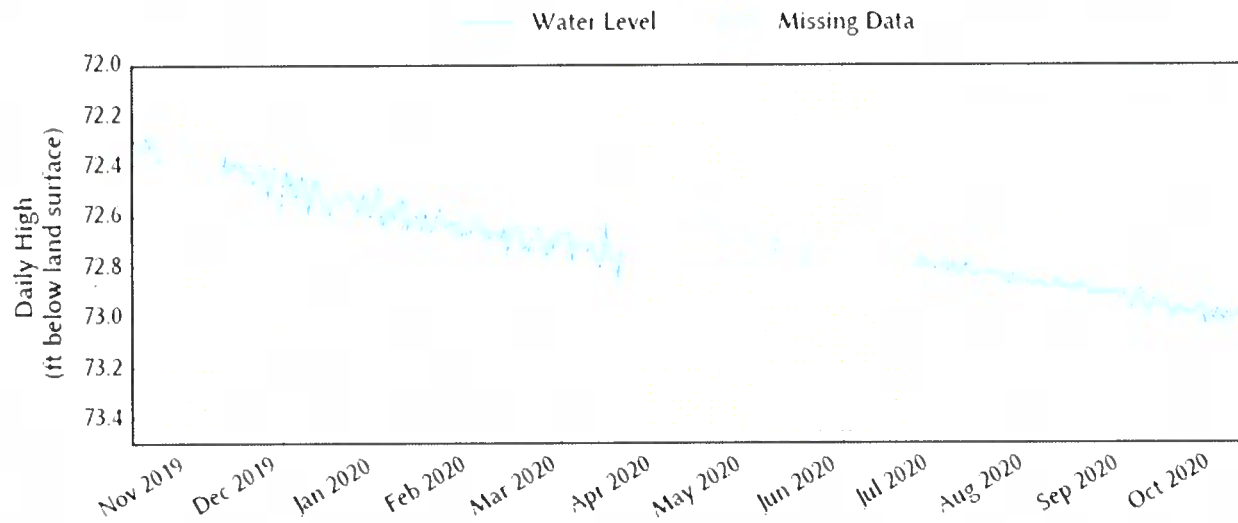
September 2020

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

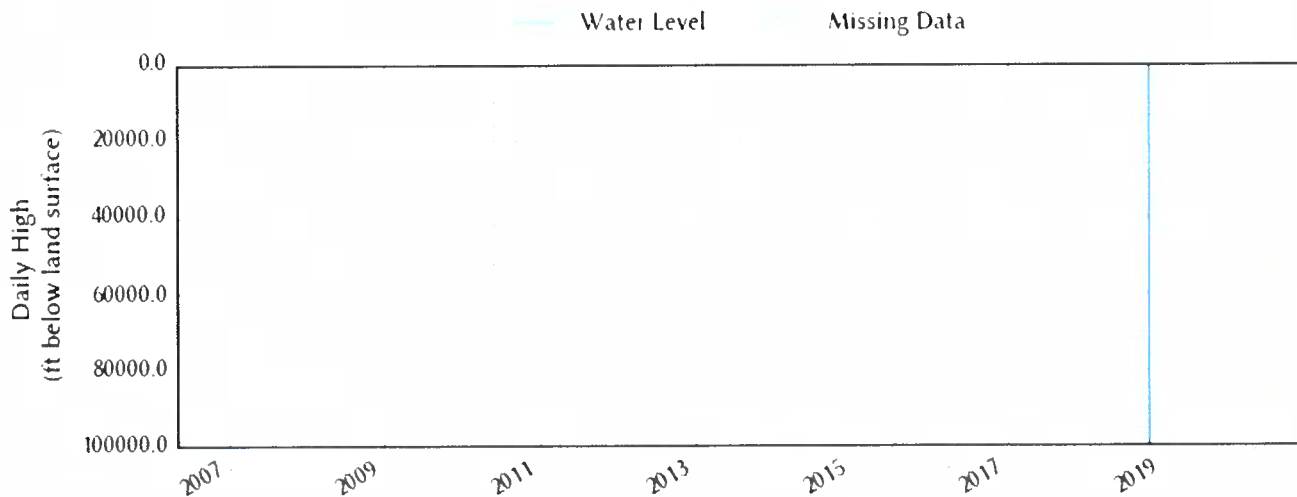
Last 30 Days



1 Year



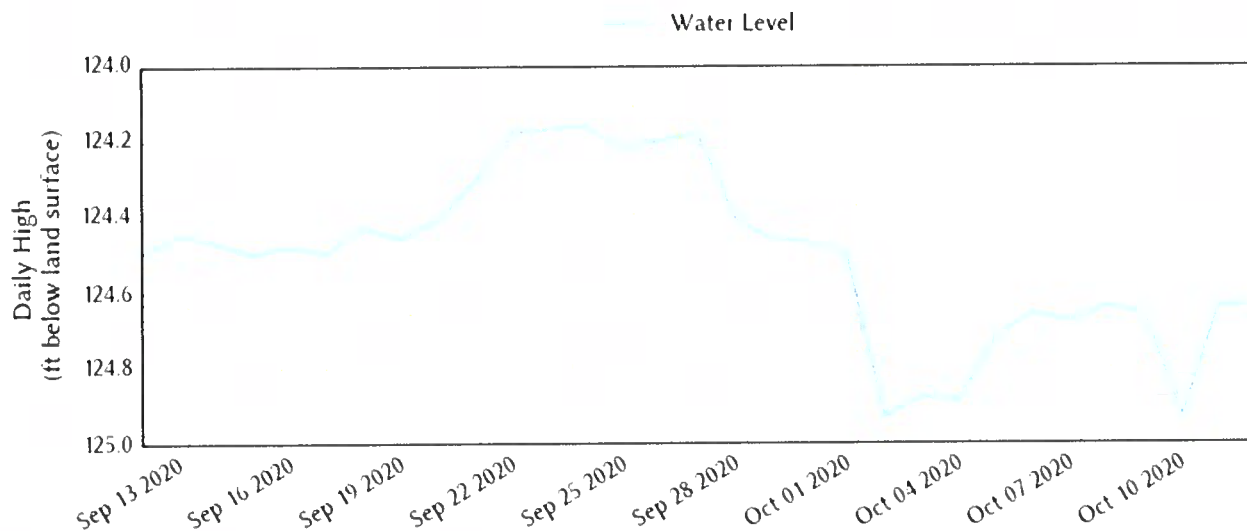
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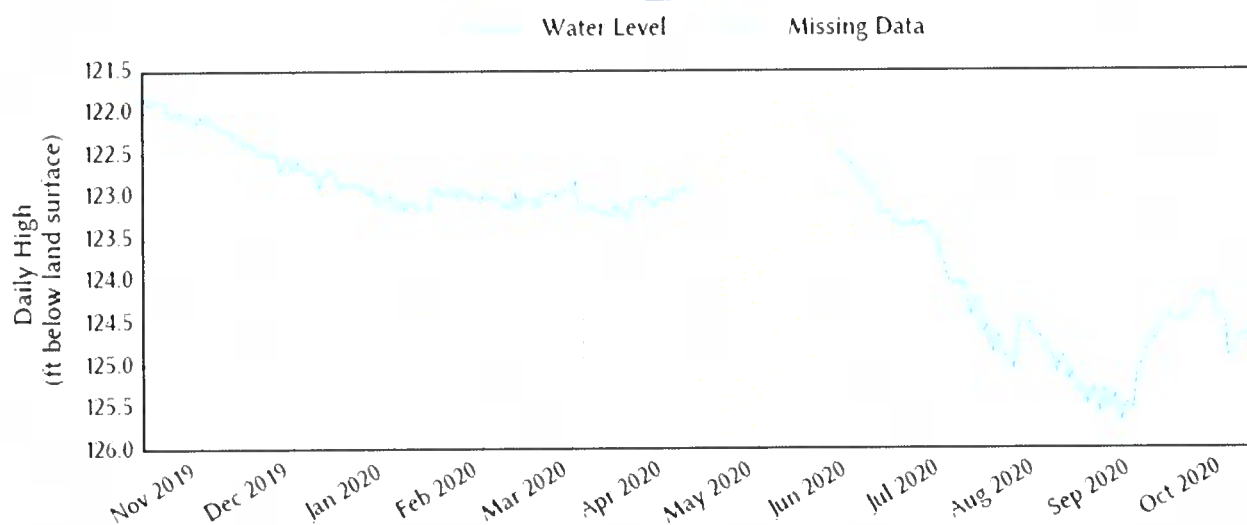
September 2020

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

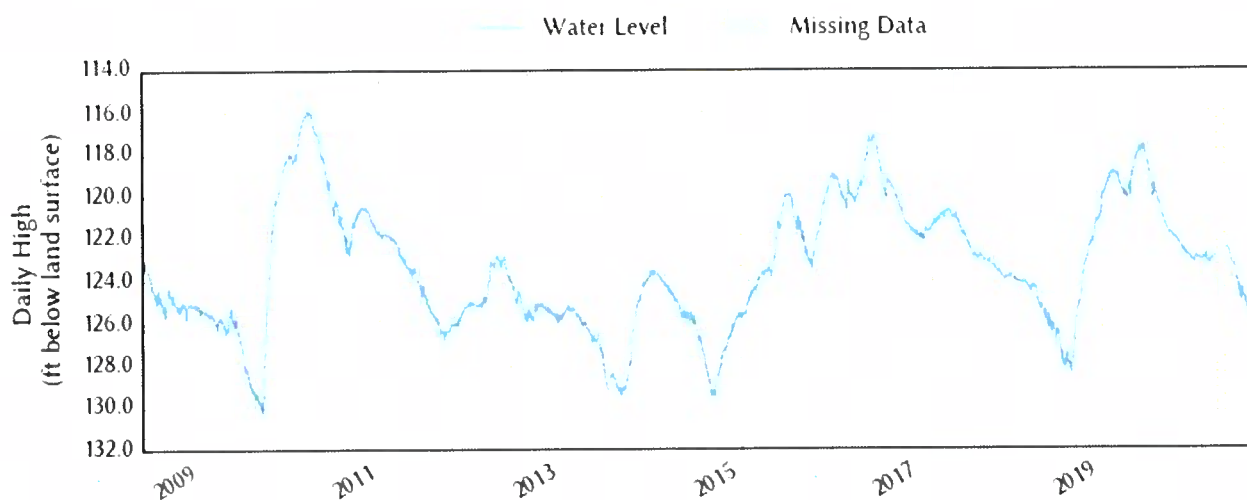
Last 30 Days



1 Year



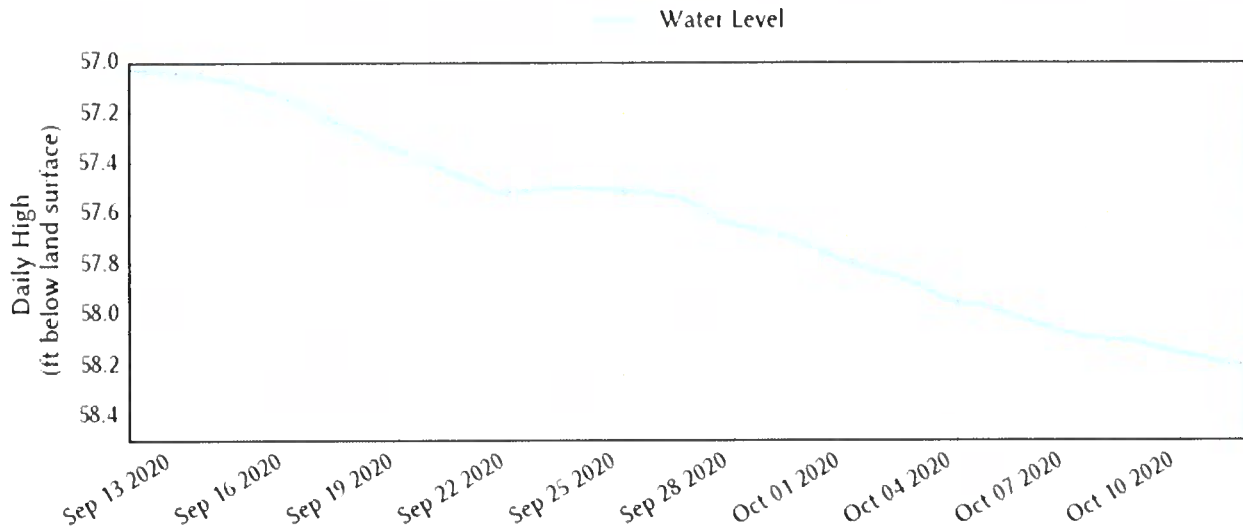
Period Of Record



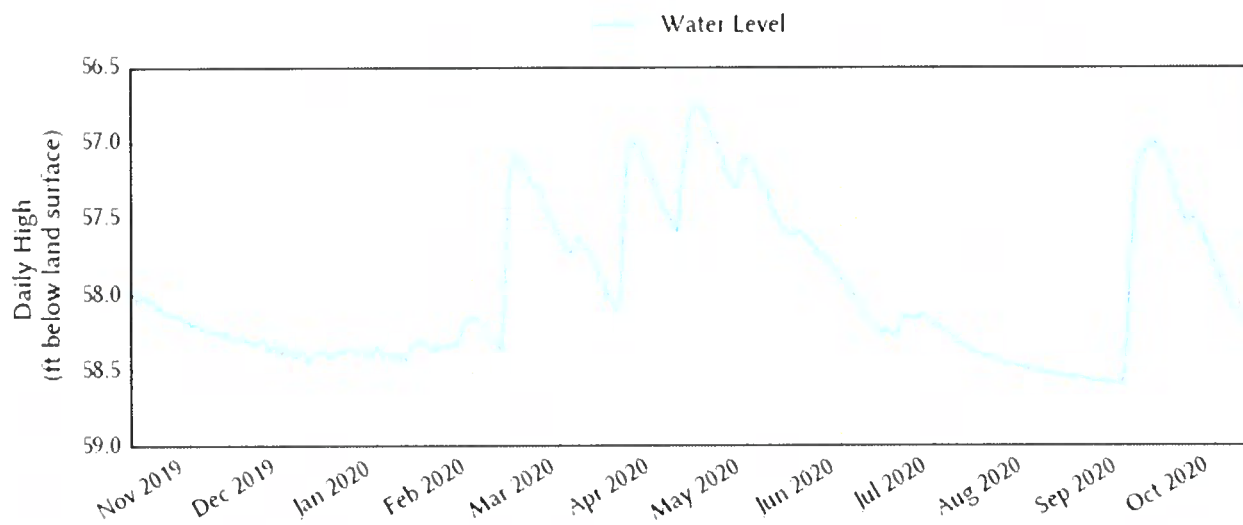
**September 2020**

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

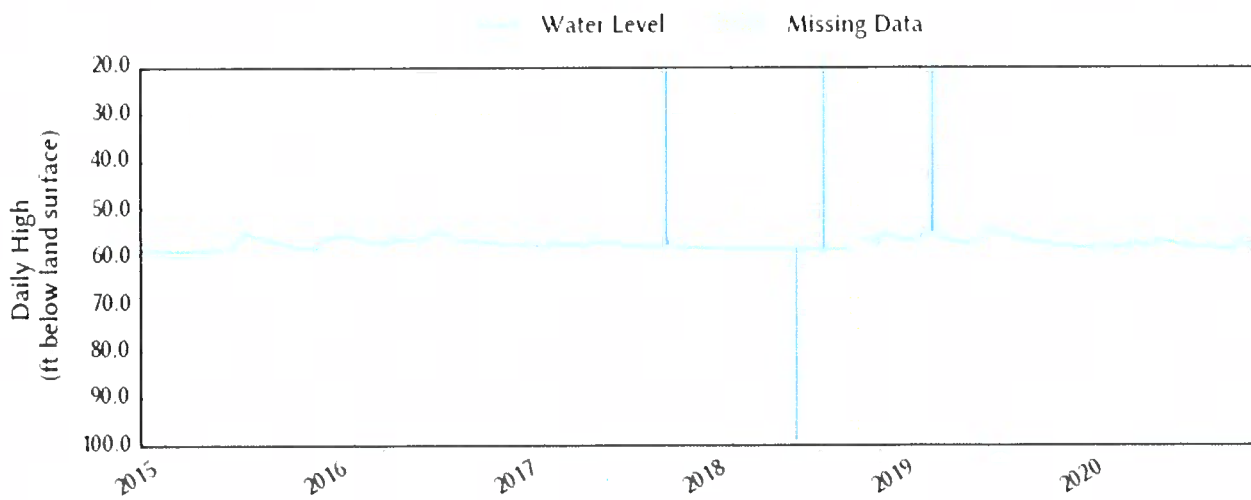
**Last 30 Days**



**1 Year**



**Period Of Record**

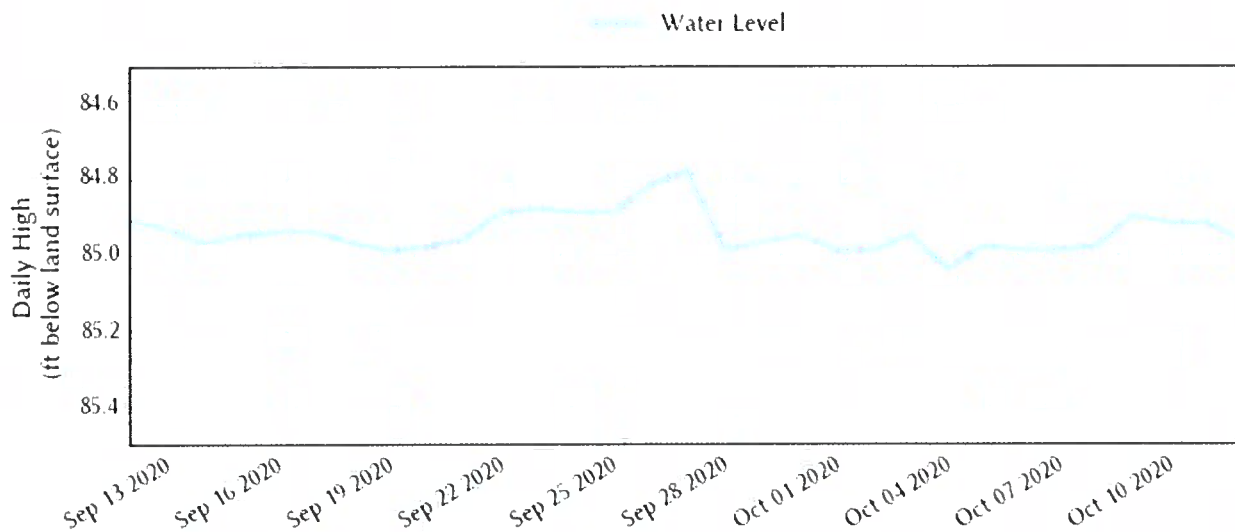




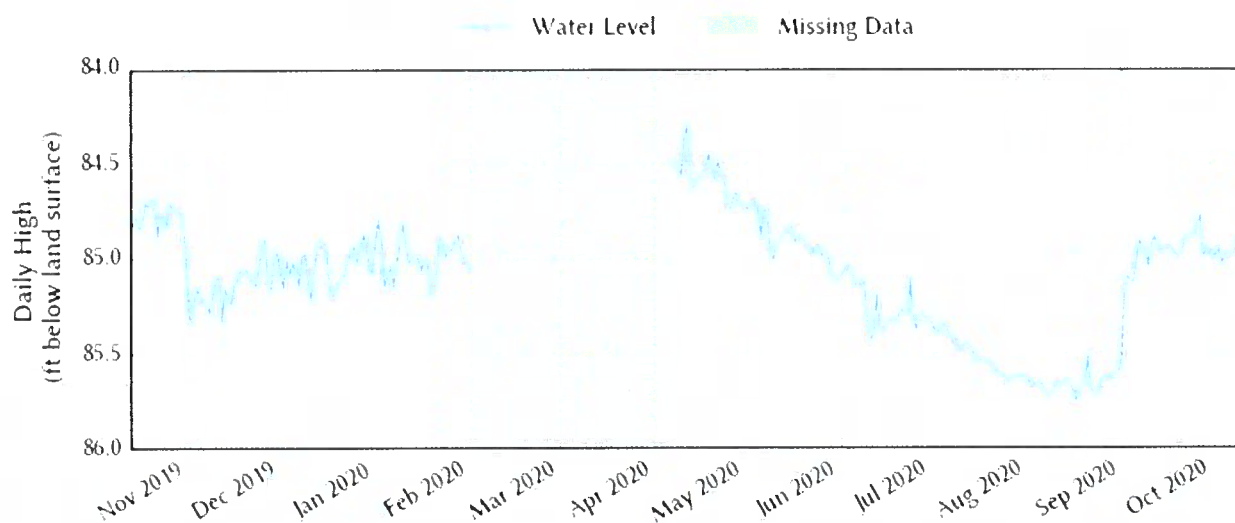
**September 2020**

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

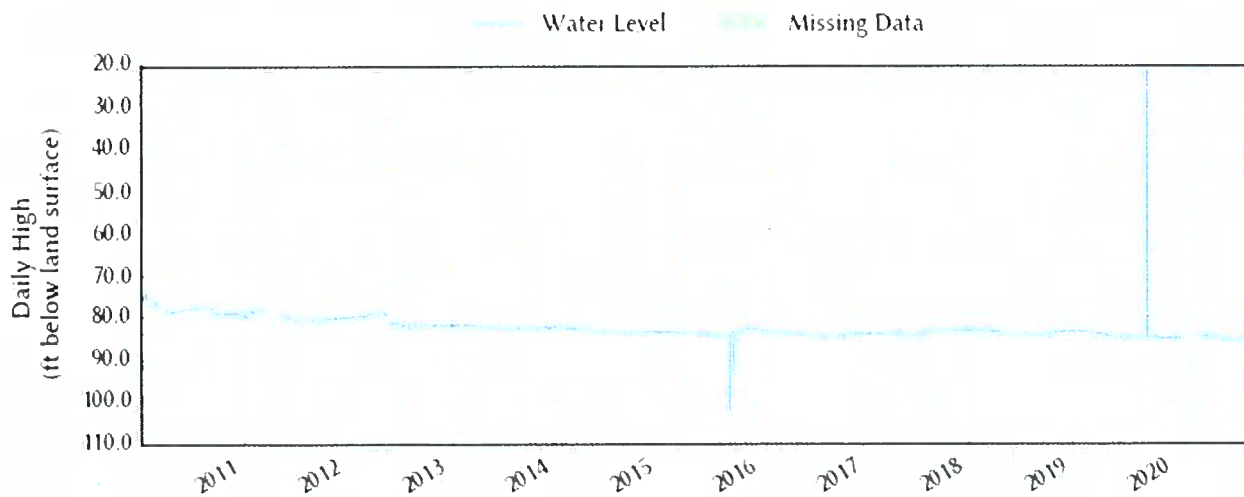
**Last 30 Days**



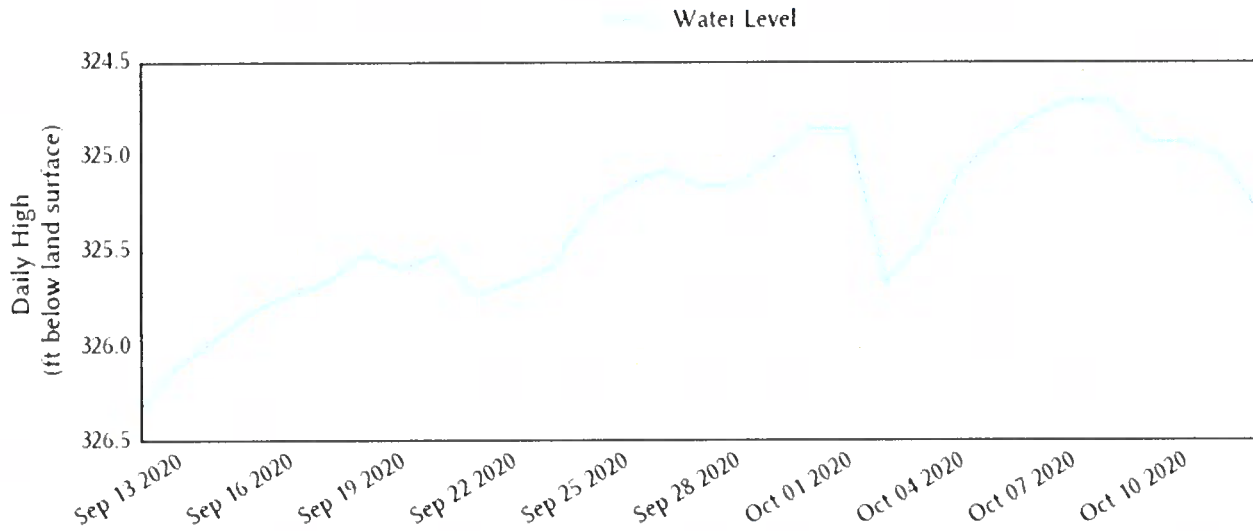
**1 Year**



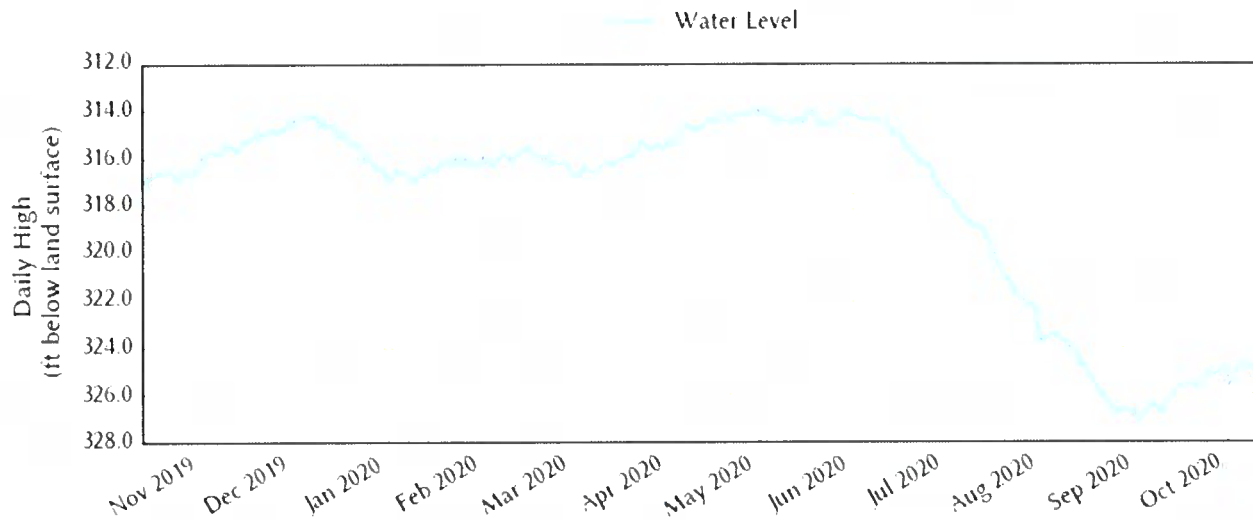
**Period Of Record**



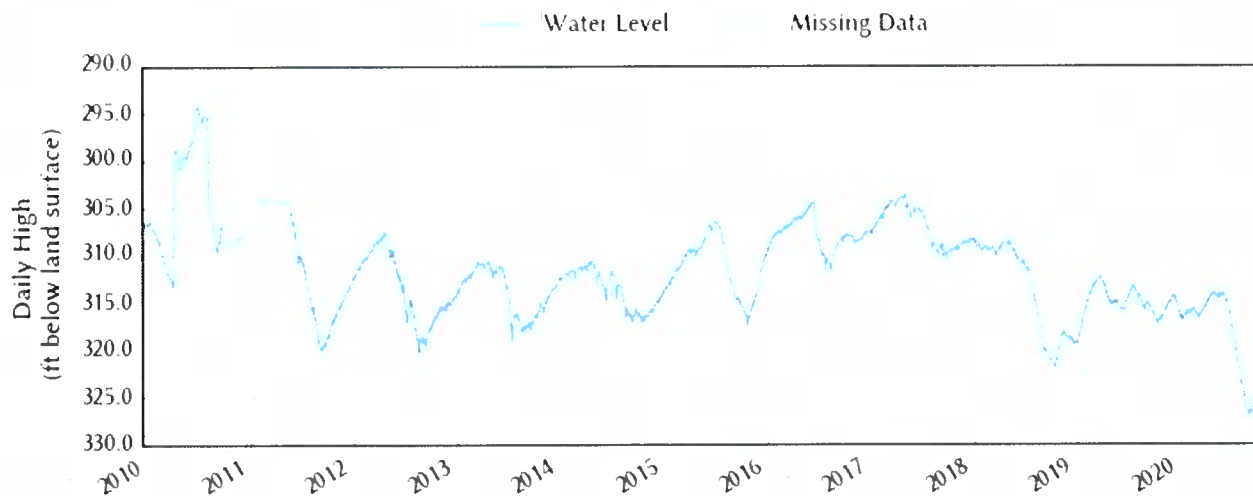
Last 30 Days



1 Year



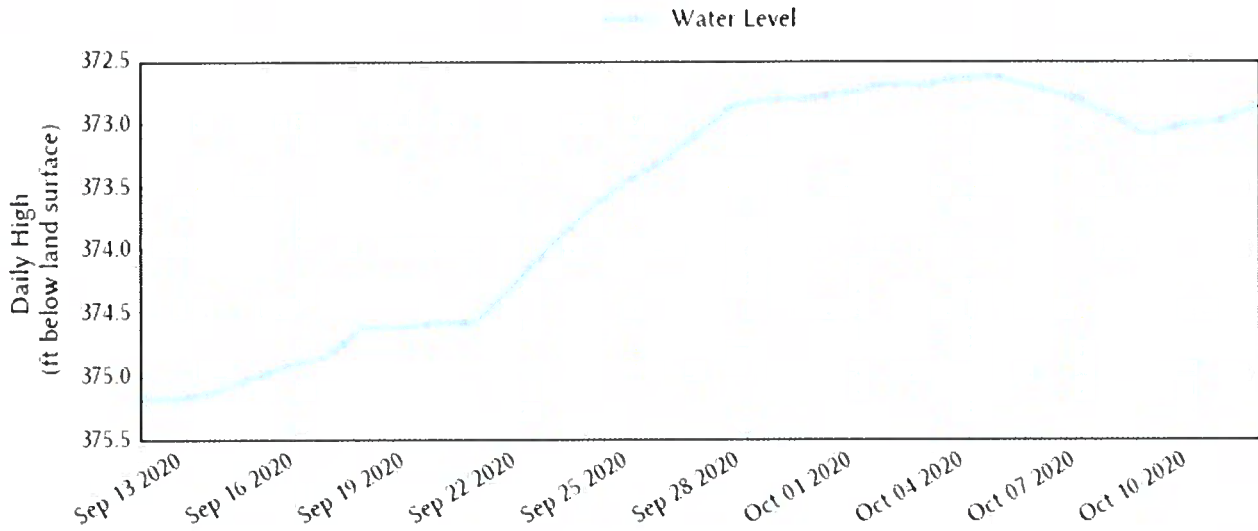
Period Of Record



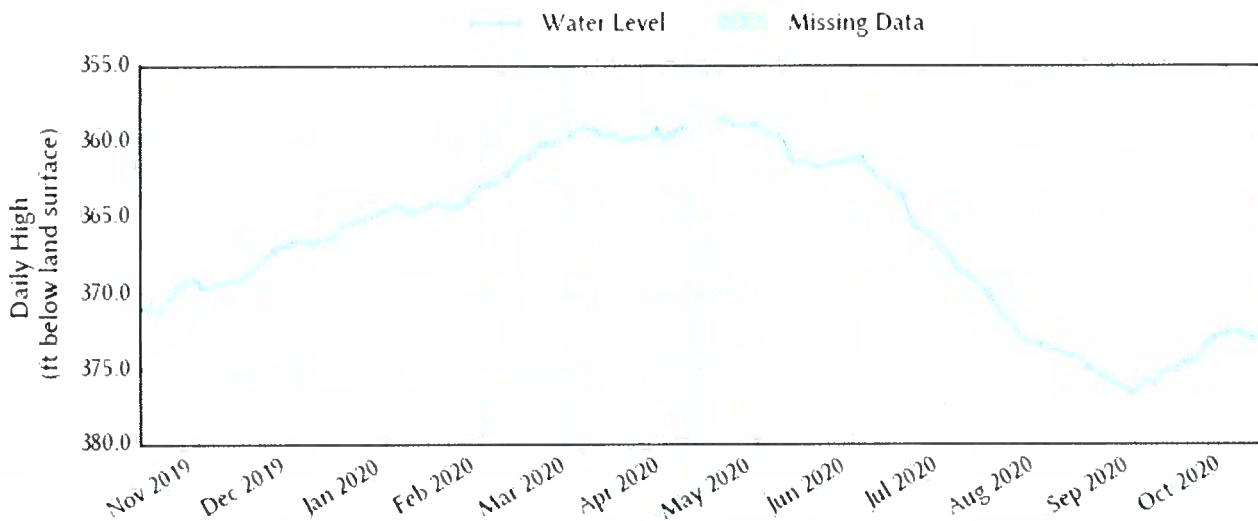
**September 2020**

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

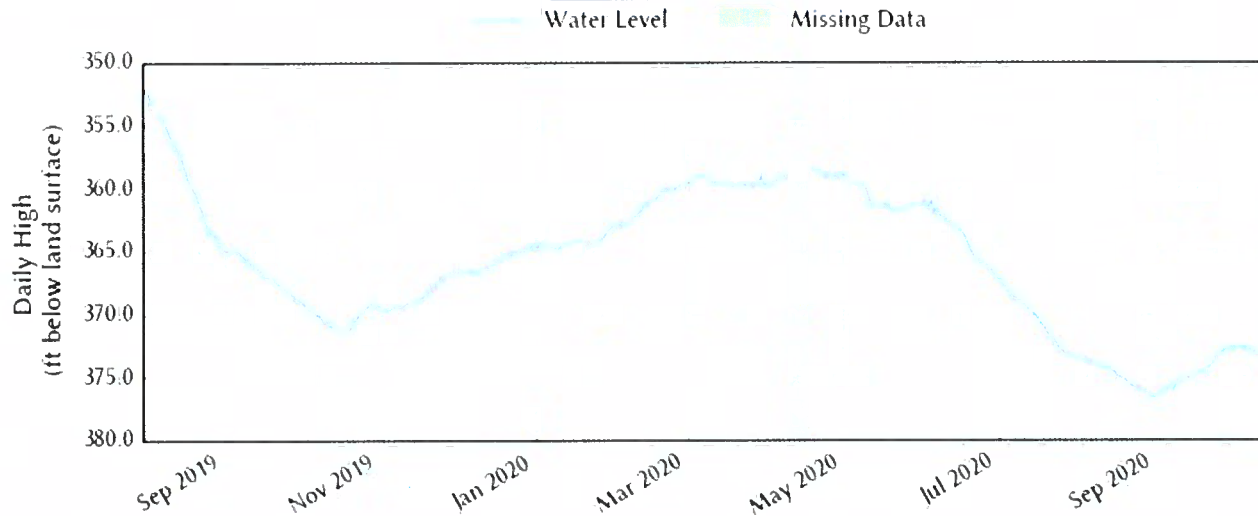
**Last 30 Days**



**1 Year**



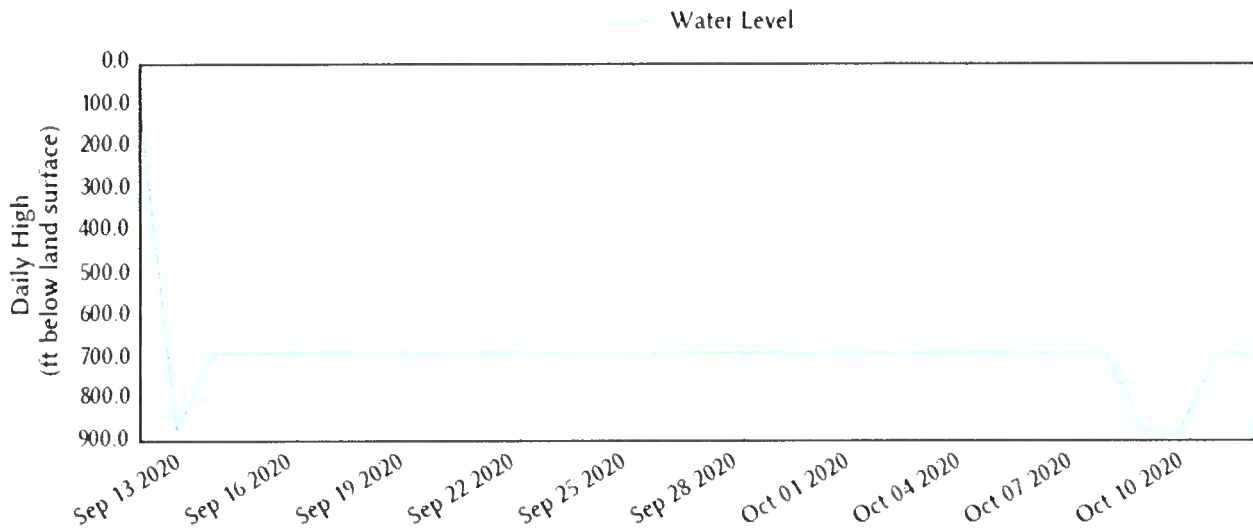
**Period Of Record**



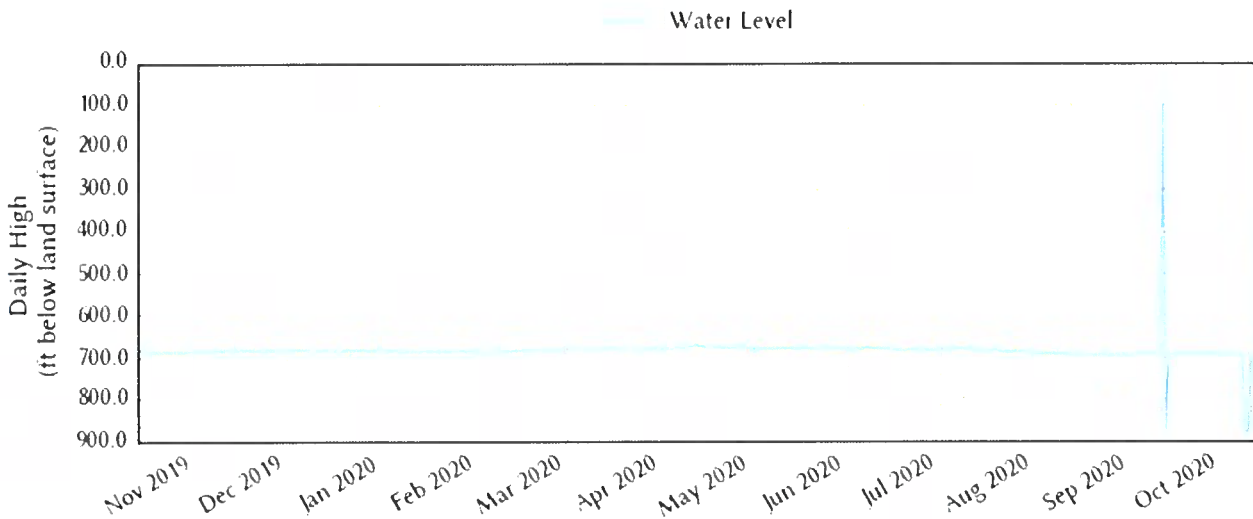
**September 2020**

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

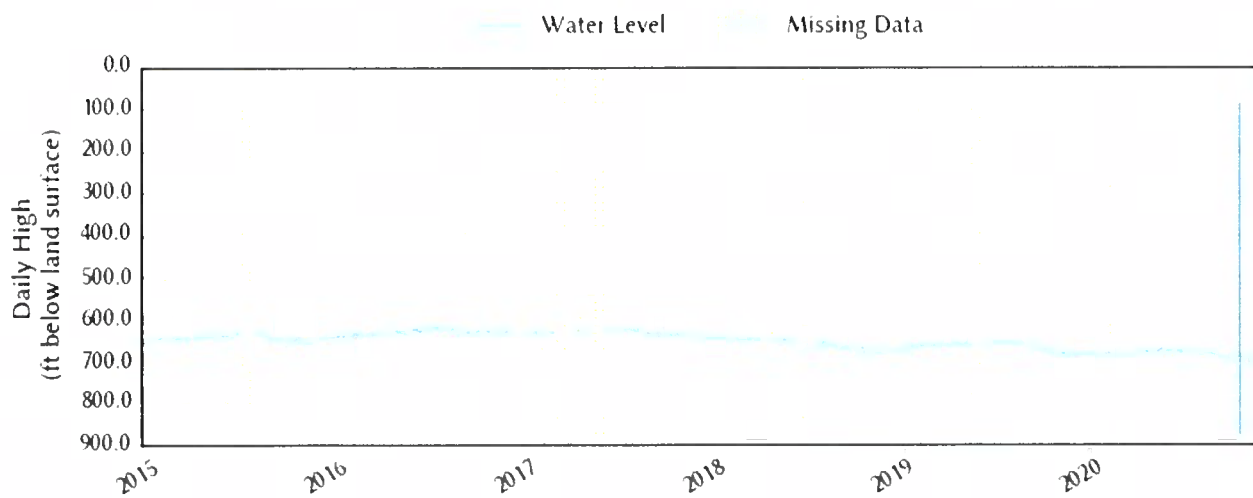
**Last 30 Days**



**1 Year**



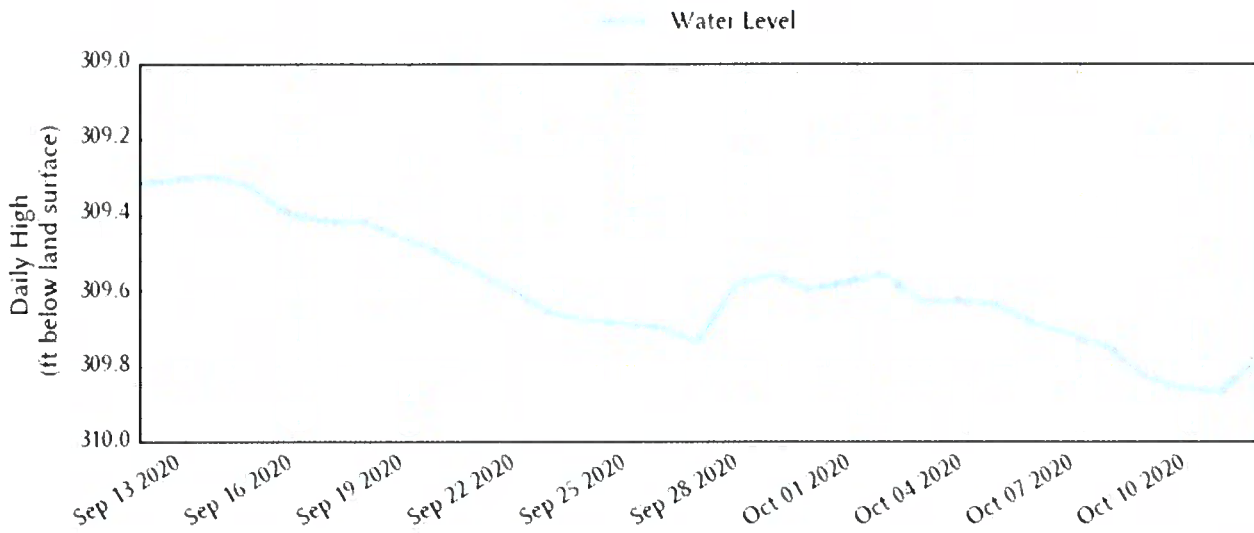
**Period Of Record**



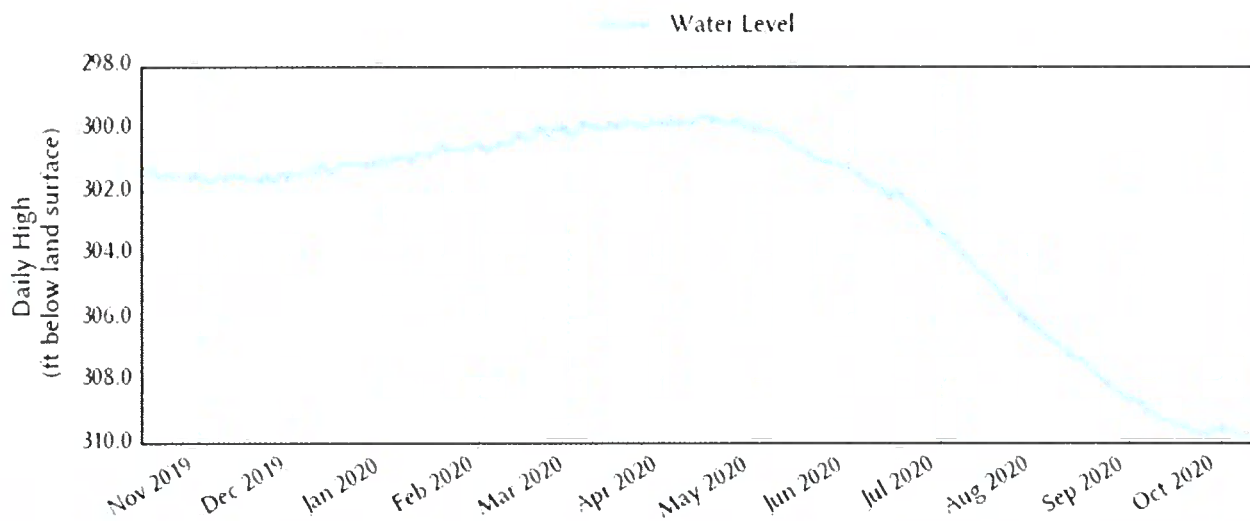
**September 2020**

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

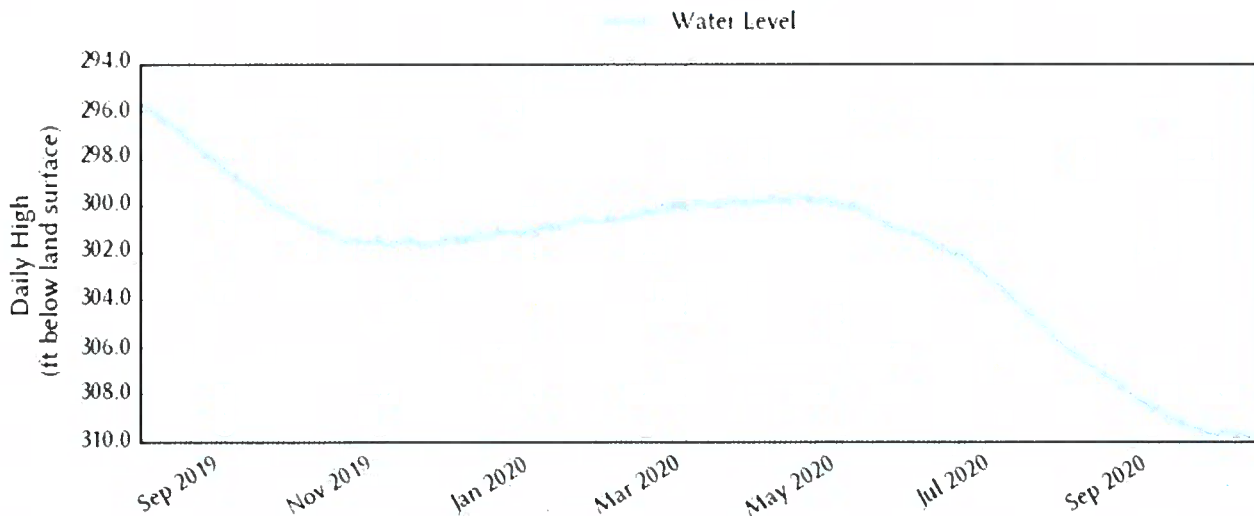
**Last 30 Days**



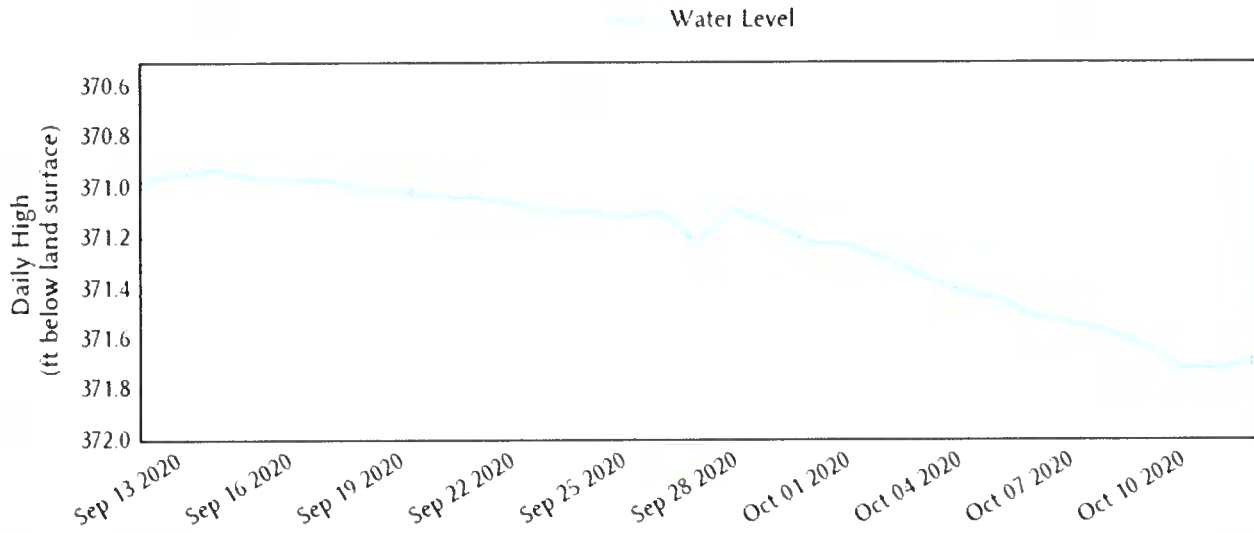
**1 Year**



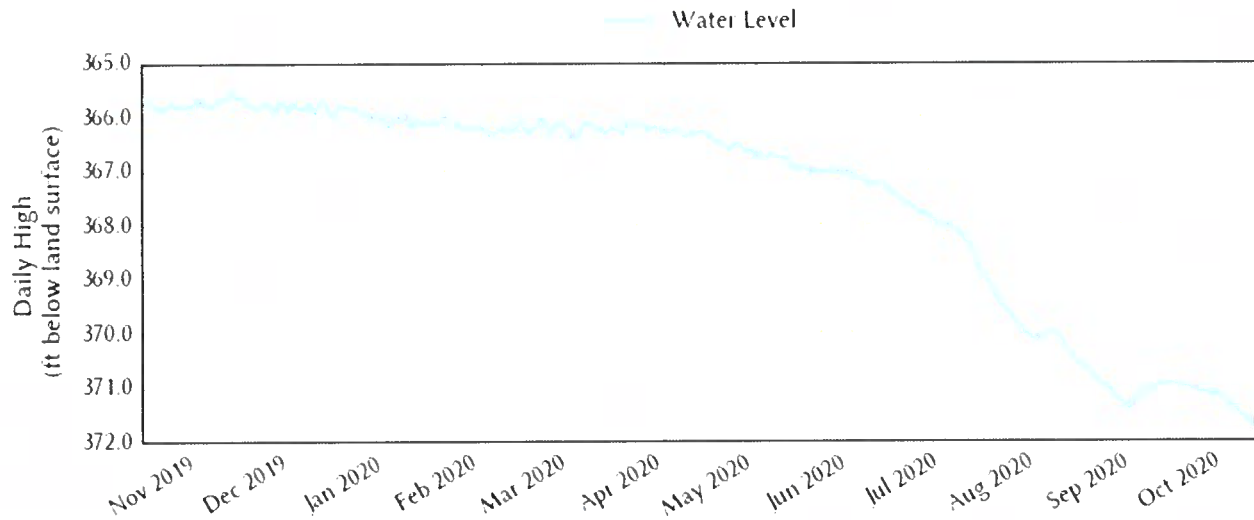
**Period Of Record**



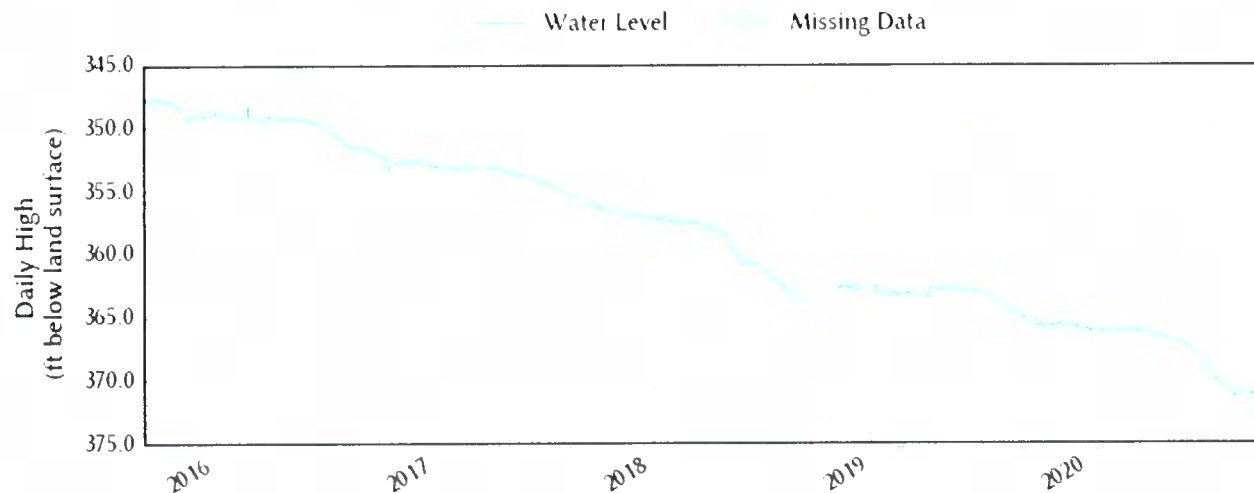
Last 30 Days



1 Year

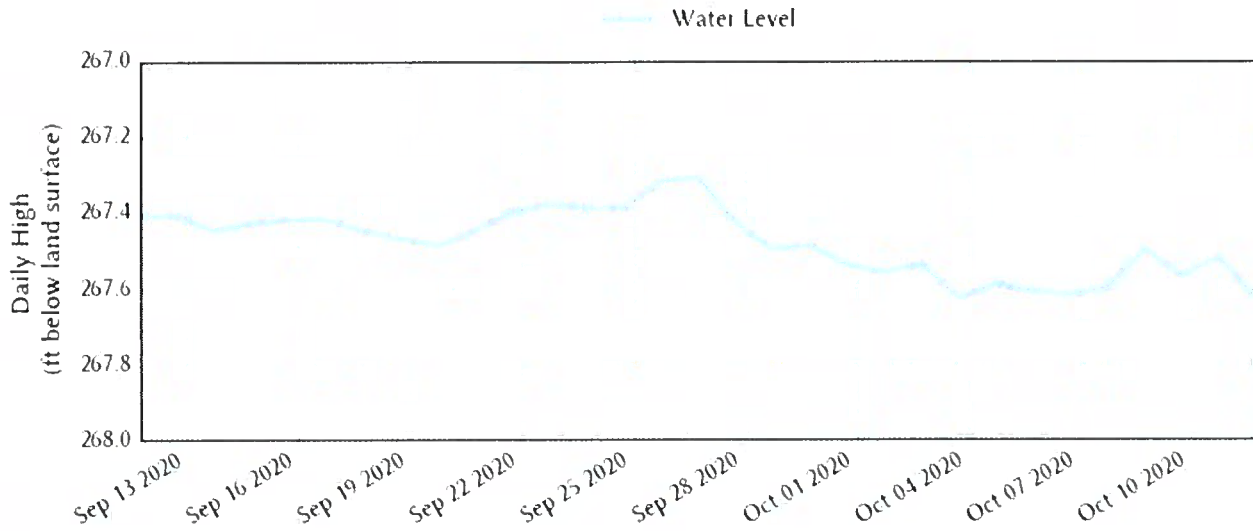


Period Of Record

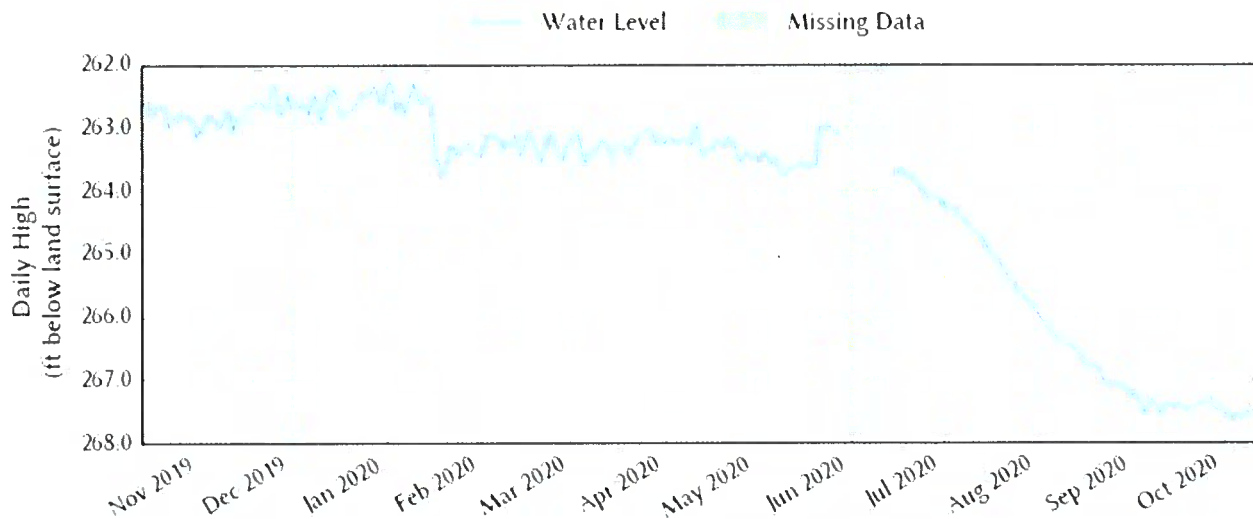




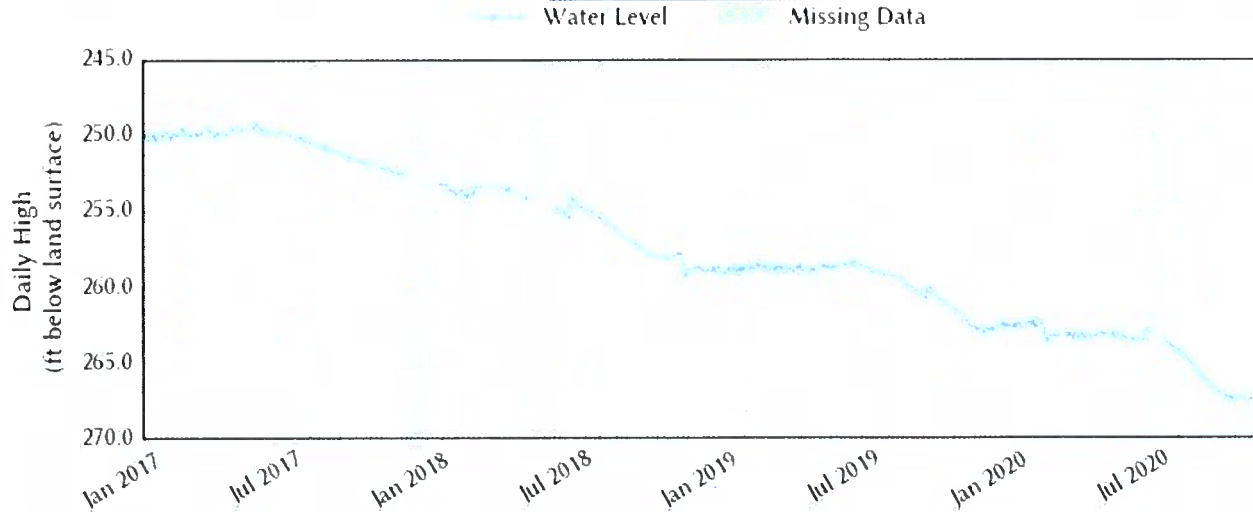
Last 30 Days



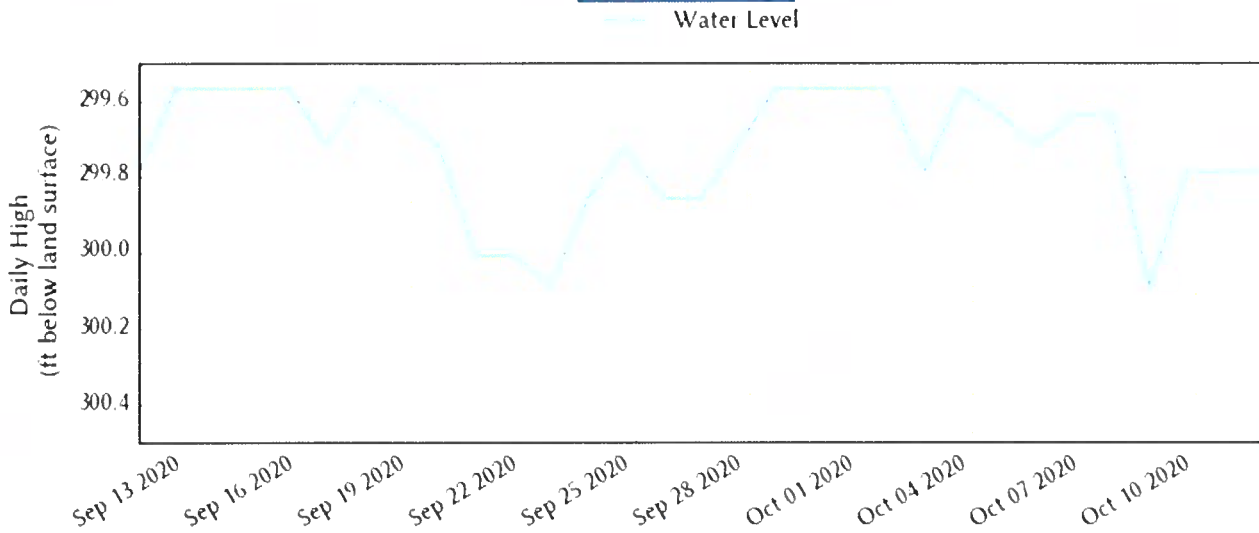
1 Year



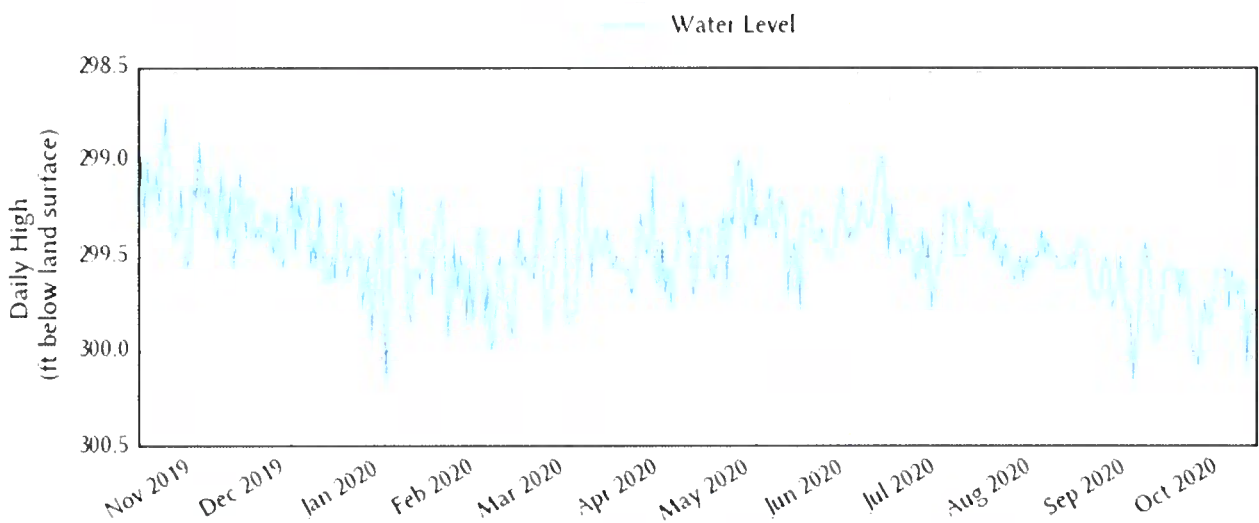
Period Of Record



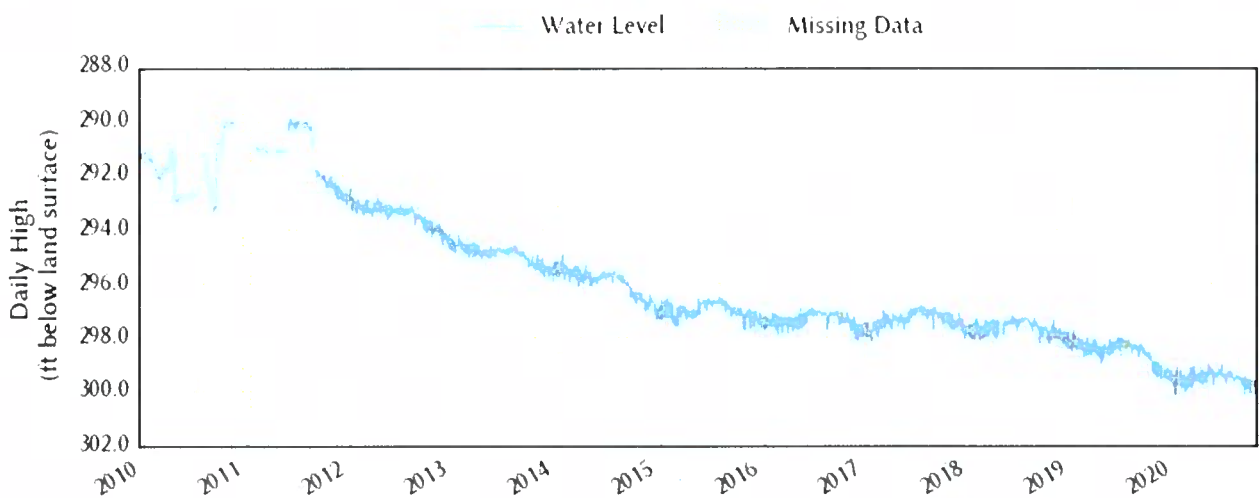
Last 30 Days



1 Year



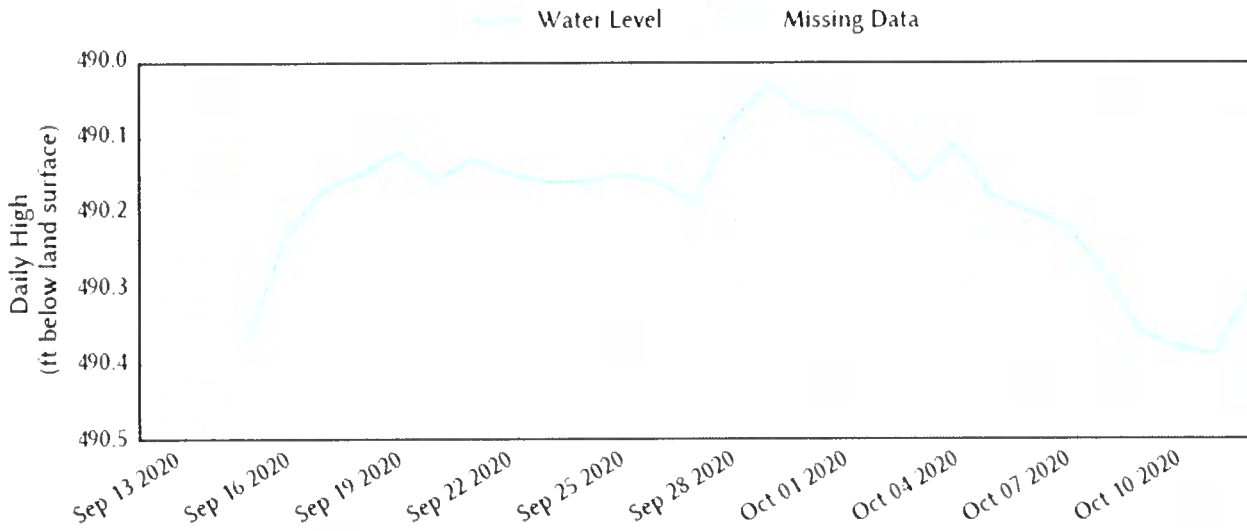
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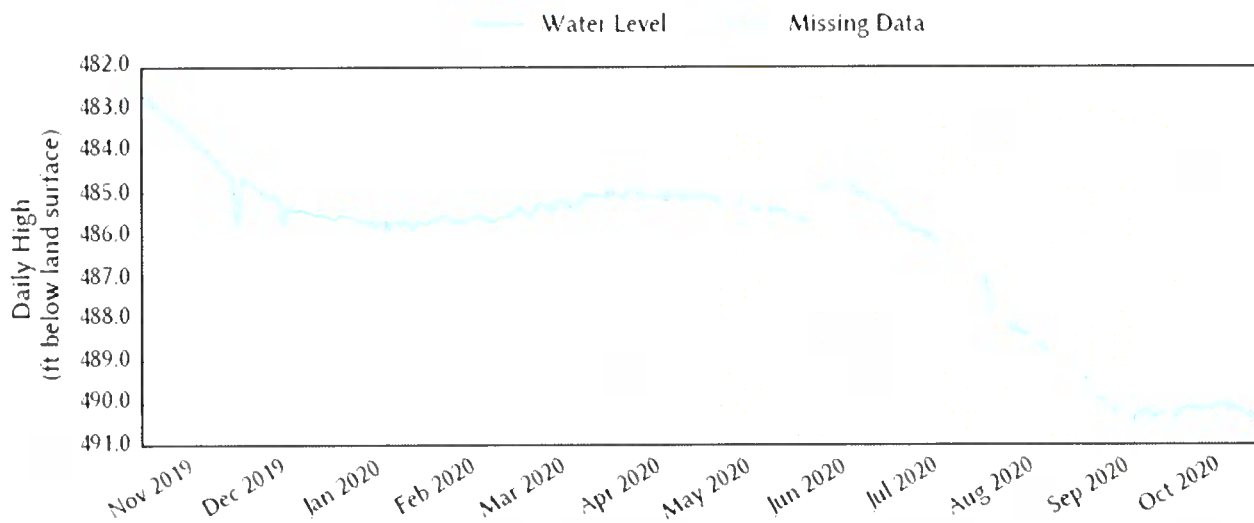
**September 2020**

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

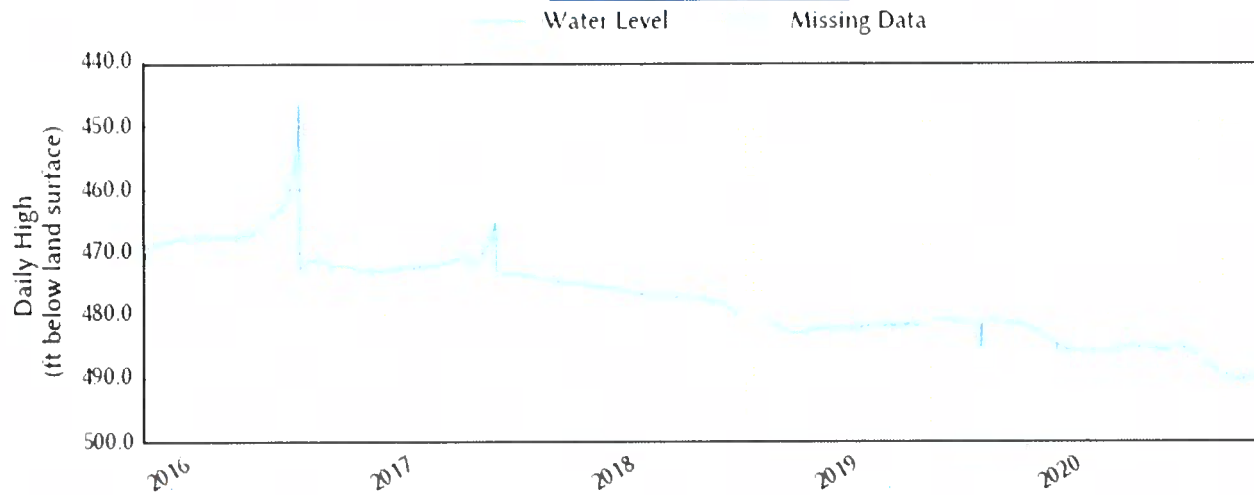
**Last 30 Days**



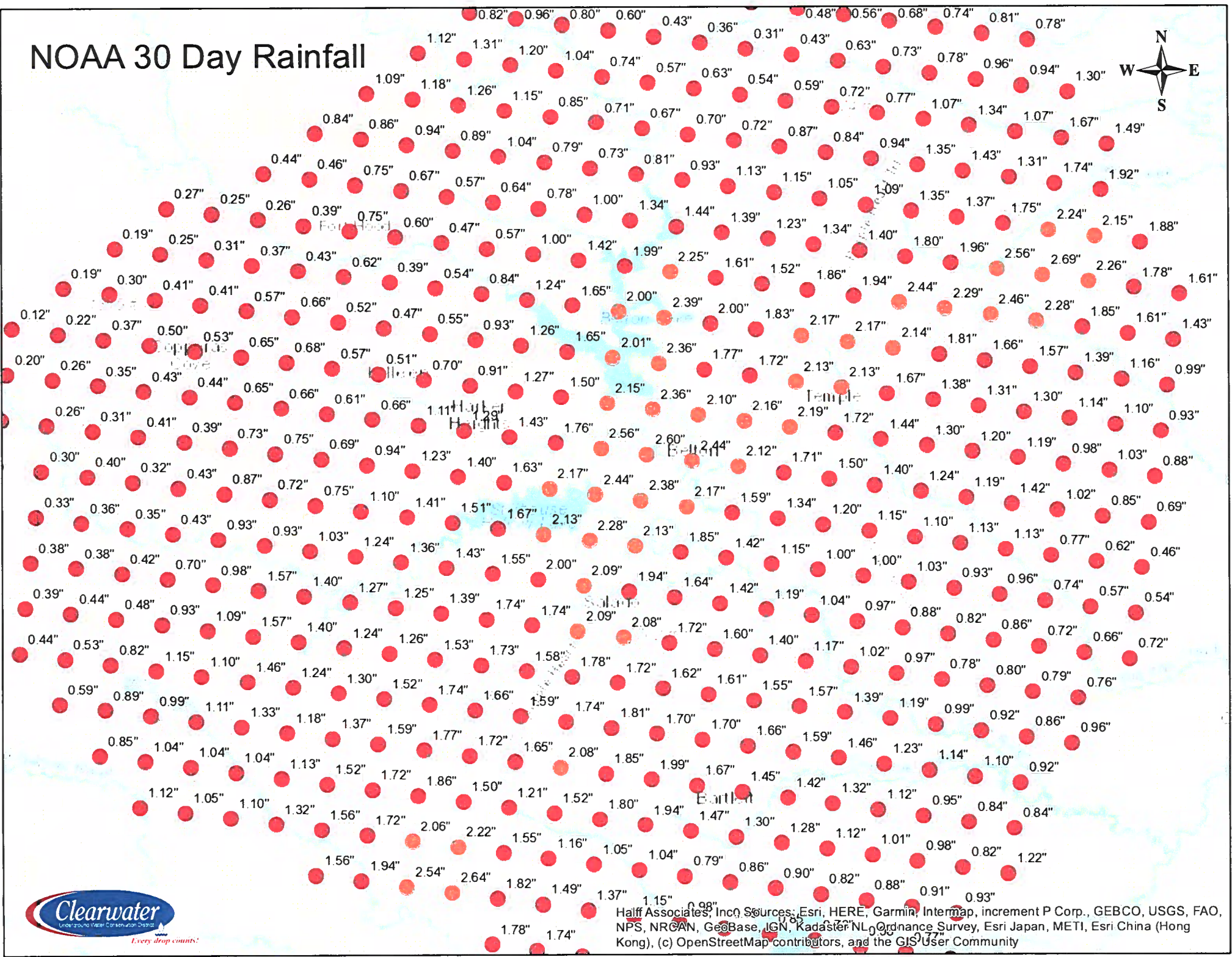
**1 Year**



**Period Of Record**



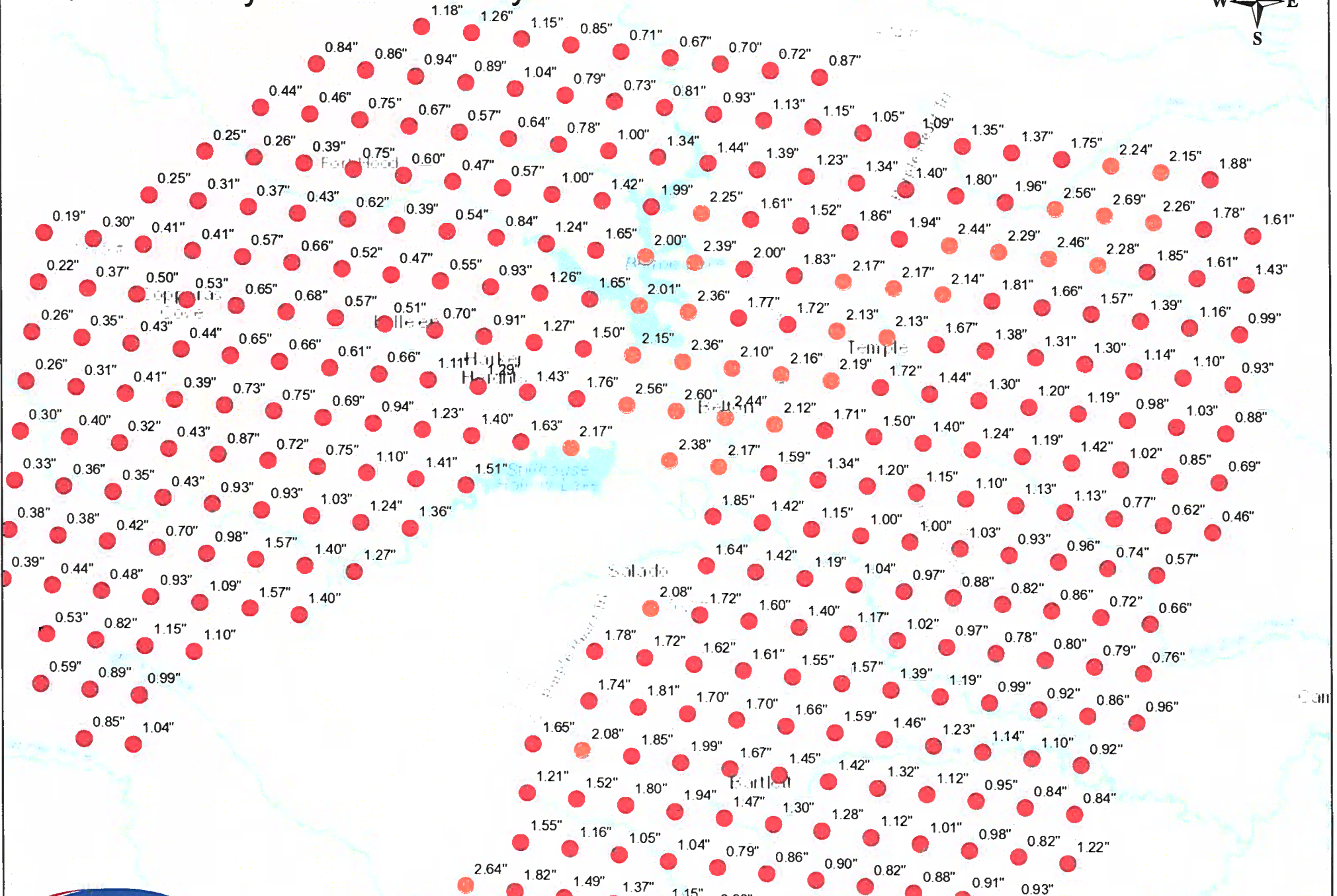
# NOAA 30 Day Rainfall



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

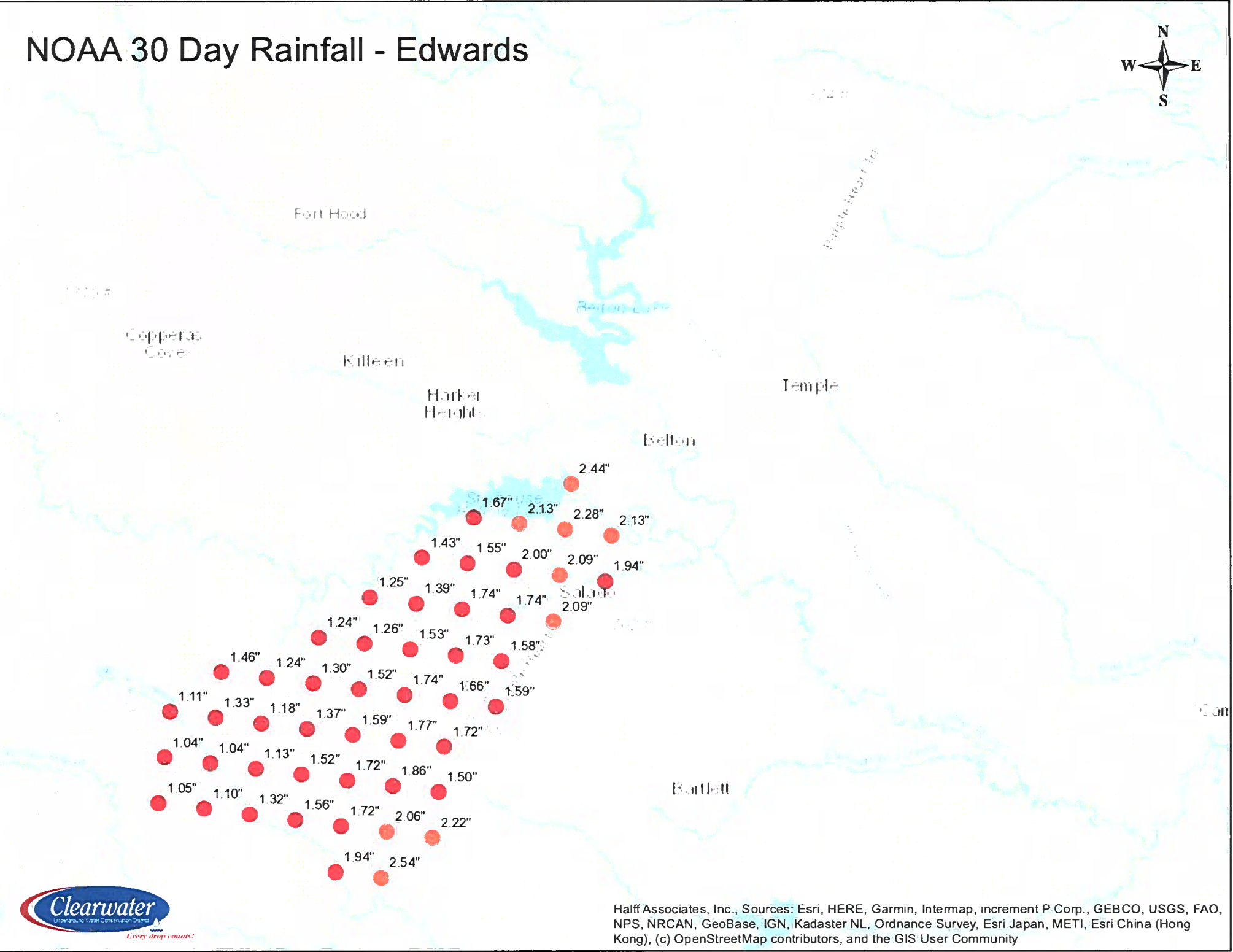


# NOAA 30 Day Rainfall - Trinity



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

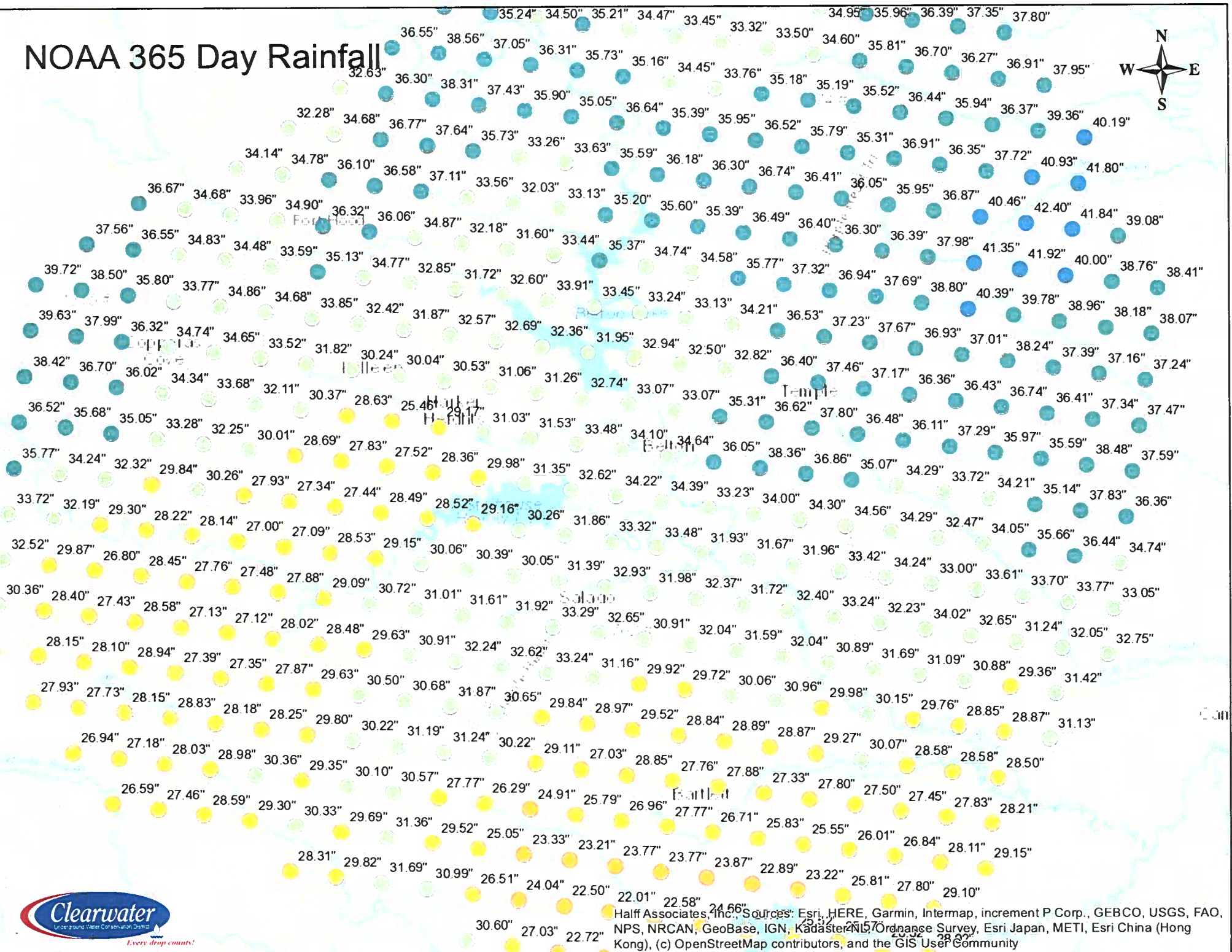
# NOAA 30 Day Rainfall - Edwards



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



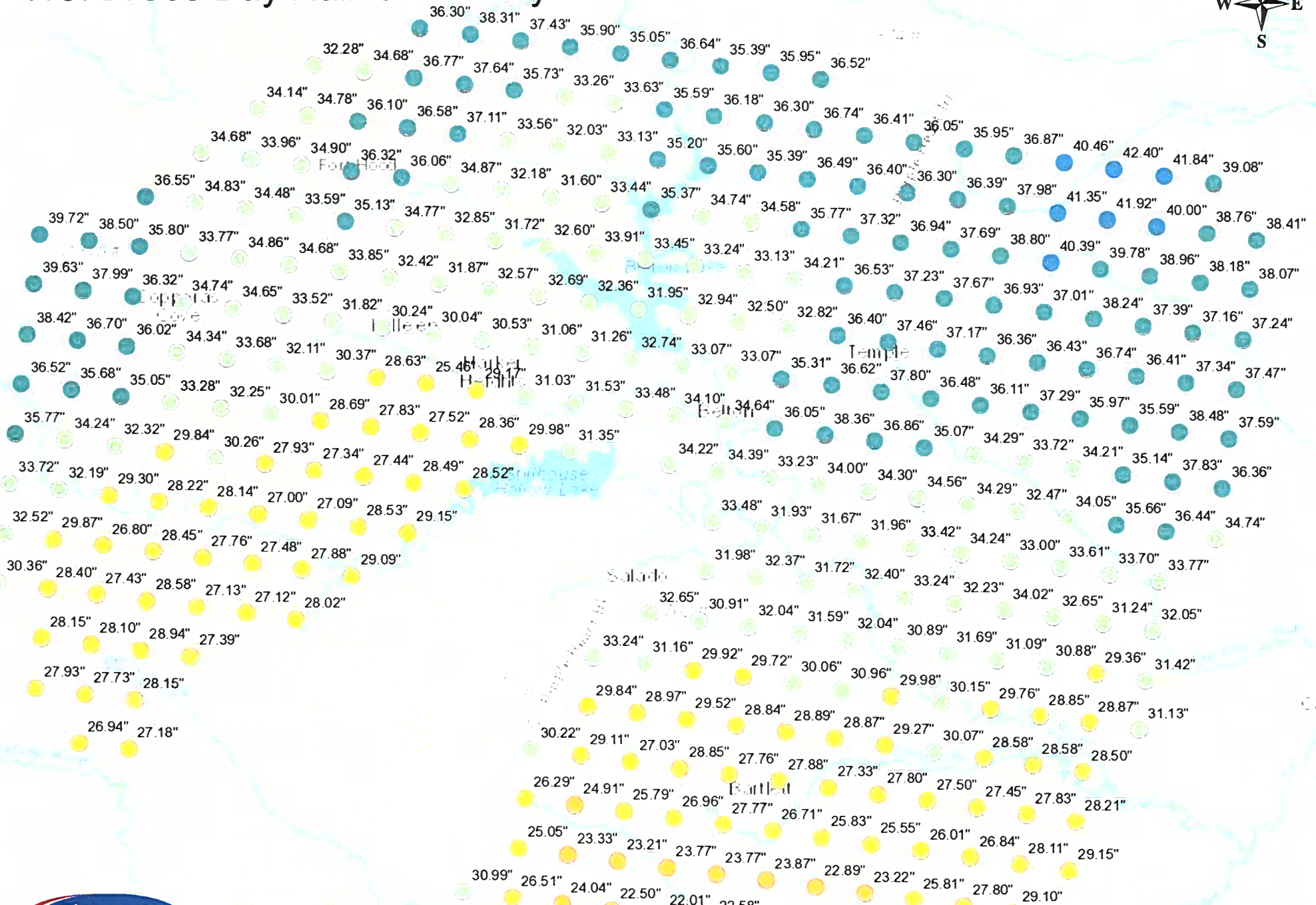
# NOAA 365 Day Rainfall



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

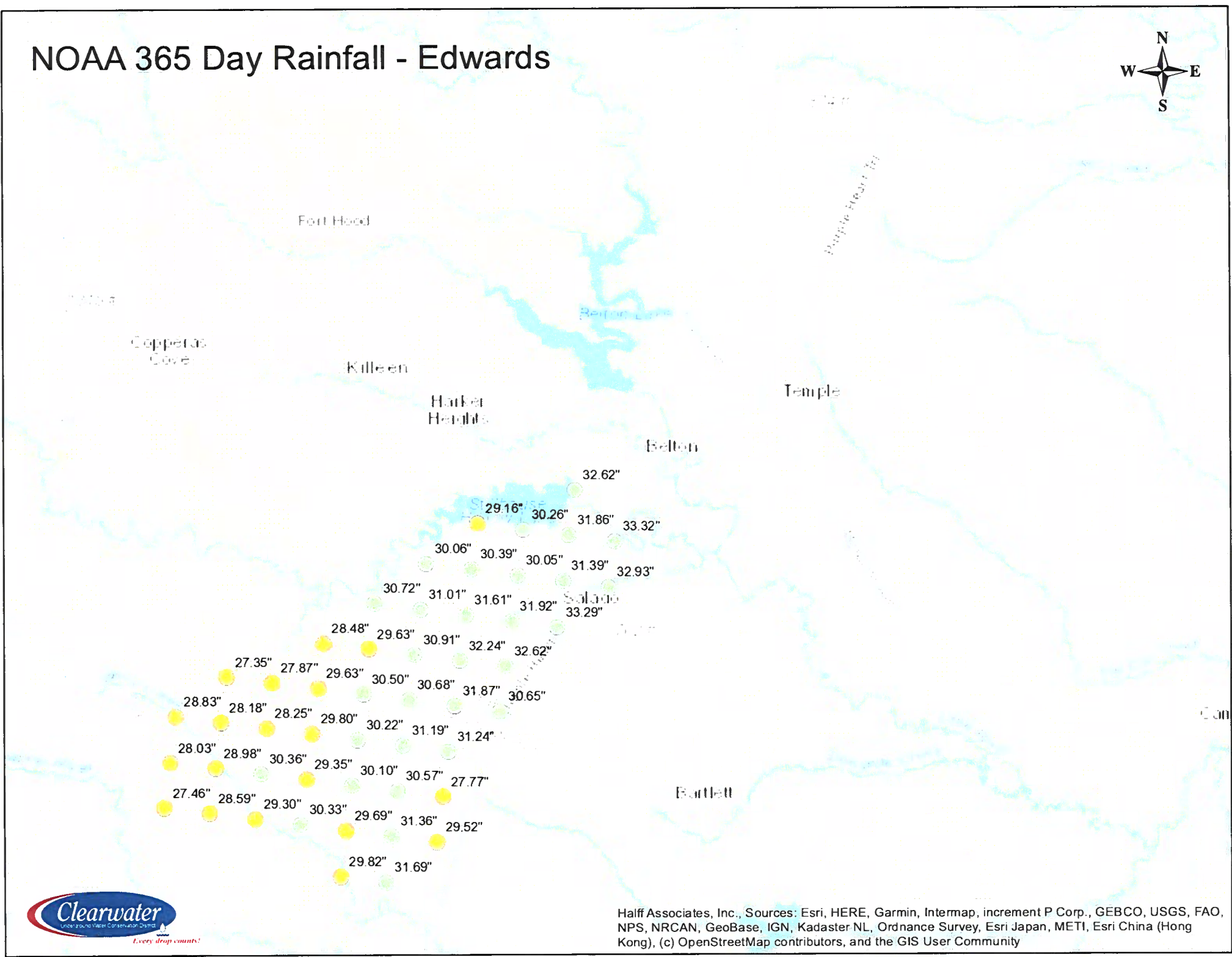


# NOAA 365 Day Rainfall - Trinity



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

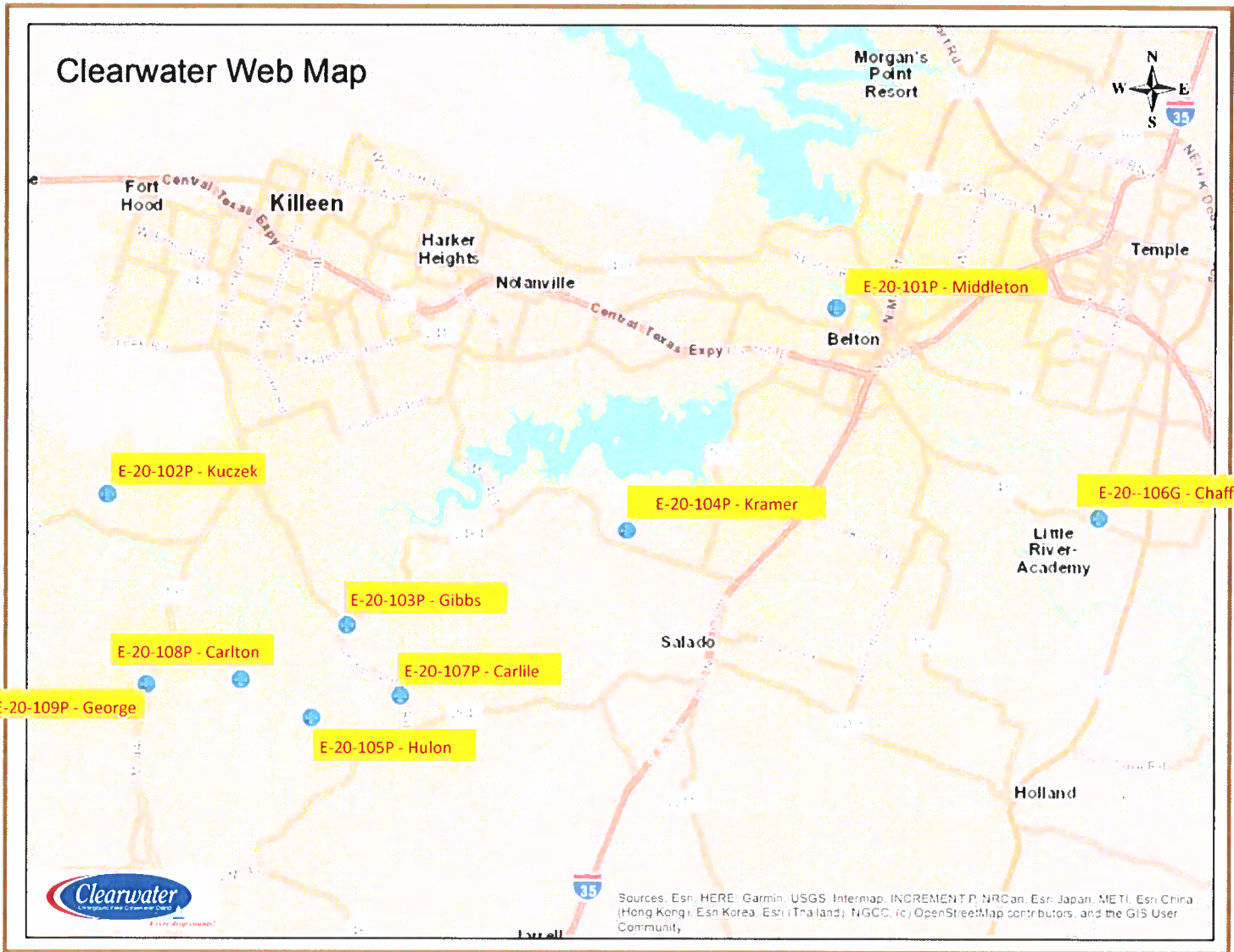
# NOAA 365 Day Rainfall - Edwards



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



# Proposed New Wells - September 2020



Well #	Owner	Address	City	Aquifer	Depth	Use	Status
E-20-101P	Mike Middleton	7600 W. FM 93	Belton	Undeclared	1000	Domestic	Proposed
E-20-102P	John & Emily Kuczek	15271 Maxdale Road	Killeen	Undeclared	600	Domestic	Proposed
E-20-103P	Bennie Gibbs	15659 Stillman Valley Rd	Killeen	Undeclared	720	Domestic	Proposed
E-20-104P	Jeff Kramer	10305 Rocking H Rd	Salado	Undeclared	150	Domestic	Proposed
E-20-105P	Tom Hulon	7785 Riverbend Dr	Beaumont	Undeclared	1000	Domestic	Proposed
E-20-106G	Steerling Chaffer	206 N. Lamar St.	Little River	Undeclared	20	Domestic	Active
E-20-107P	Jamie Carlile	13967 Cedar Valley Rd	Salado	Undeclared	800	Domestic	Active
E-20-108P	Thomas Carlton	20492 Brooking Rd	Killeen	Undeclared	600	Domestic	Proposed
E-20-109P	Clifford & Jan George	3818 Fleeta Drive	Killeen	Undeclared	550	Domestic	Proposed

Year	Exempt Wells		Non-Exempt Wells			Monitor Wells		Total
	Grandfathered	New	Grandfathered	Class 1	Class 2	Water	Envr	
2002 - 2019	4352	1013	104	33	52	25	121	5700
2020 - Jan	4	1	0	0	0	0	0	5
Feb	0	4	0	1	1	0	0	6
Mar	0	0	0	0	4	1	0	5
Apr	60	2	0	0	0	0	0	62
May	0	10	0	0	0	0	0	10
June	1	5	0	0	0	0	0	6
July	1	5	0	1	0	0	0	7
Aug	1	5	1	0	0	0	0	7
Sept	1	8	0	0	0	0	0	9
Oct								0
Nov								0
Dec								0
<b>Total 2020</b>	<b>68</b>	<b>40</b>	<b>1</b>	<b>2</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>117</b>
<b>Totals</b>	<b>4420</b>	<b>1053</b>	<b>105</b>	<b>35</b>	<b>57</b>	<b>26</b>	<b>121</b>	<b>5817</b>

### Adjustments

Adjustment Type	Exempt Wells		Non-Exempt Wells			Monitor Wells		Total
	Grandfathered	New	Grandfathered	Class 1	Class 2	Water	Envr	
2002-Present	4420	1053	105	35	57	26	121	5817
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>4217</b>	<b>984</b>	<b>87</b>	<b>30</b>	<b>52</b>	<b>24</b>	<b>67</b>	<b>5461</b>