



Clearwater Underground Water Conservation District

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Clearwater Staff Reports

November 11, 2020

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

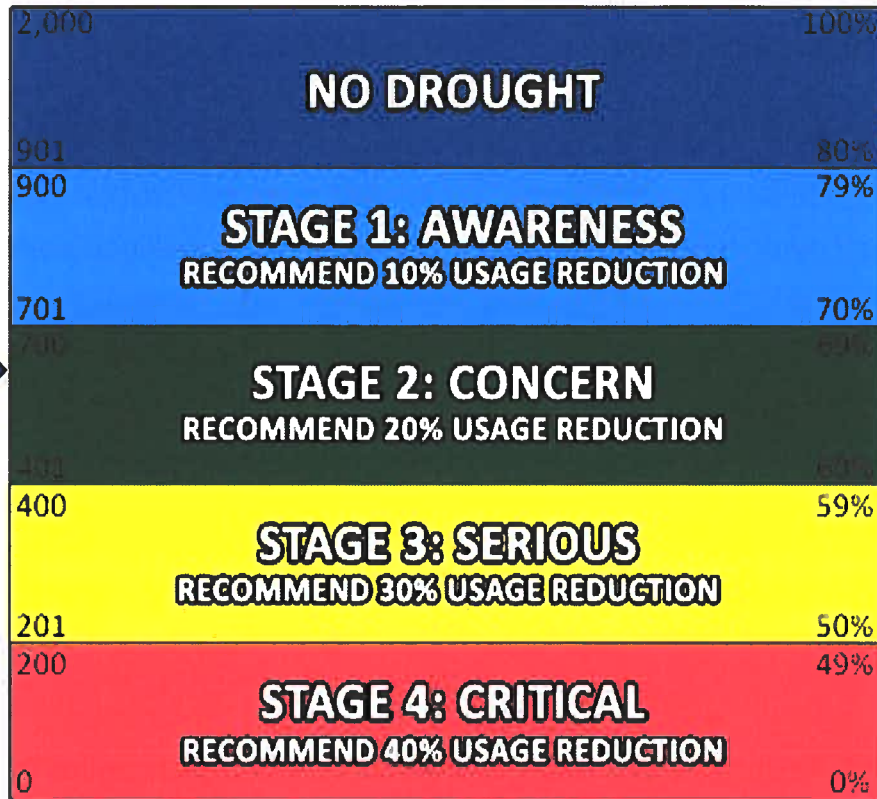
Edwards BFZ Aquifer—Drought Status Report

NO DROUGHT

Salado Creek
Spring Discharge

Precipitation Deficit
Index (PDI)

600.99 ac-ft
(month)
10.1 cfs

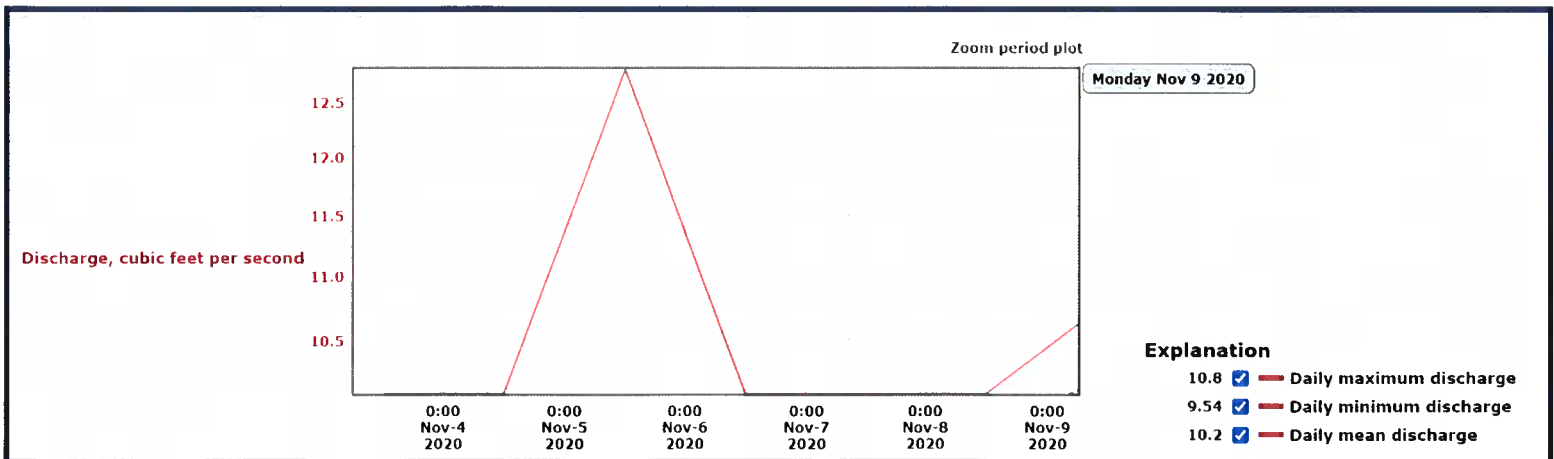


28.54 PDI
86.49 %

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

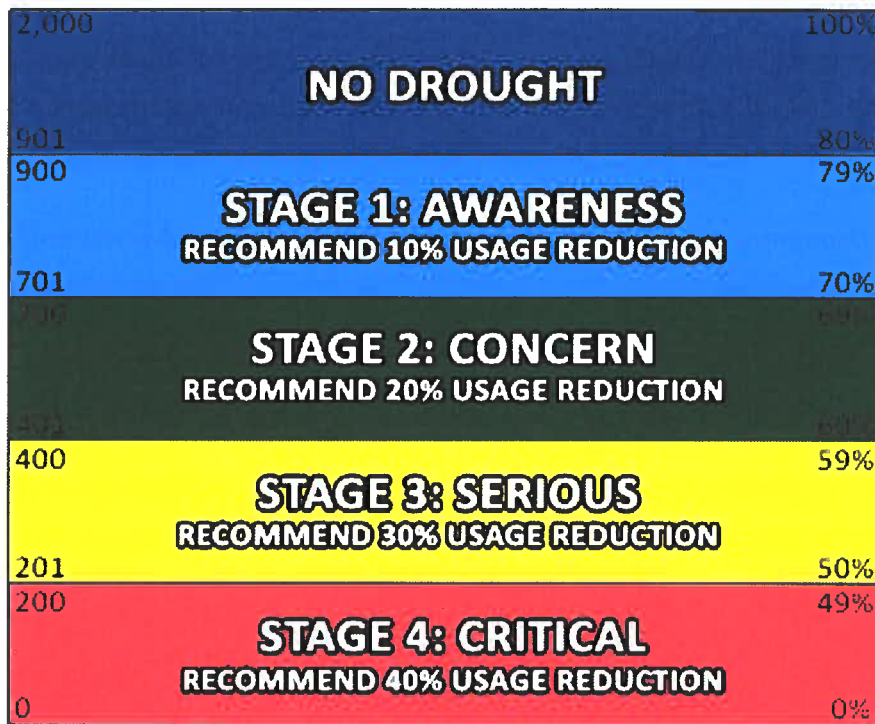
AS OF 10/07/2020

USGS 08104300 Salado Ck at Salado, TX



Trinity Aquifer—Drought Status Report

NO DROUGHT



← 30.64 PDI
92.85 %

Precipitation Deficit Index (PDI)

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

AS OF 11/09/20

Map released: Thurs. November 5, 2020

[Data as of November 5, 2020 at 1:00 PM CST](#)

Intensity:

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

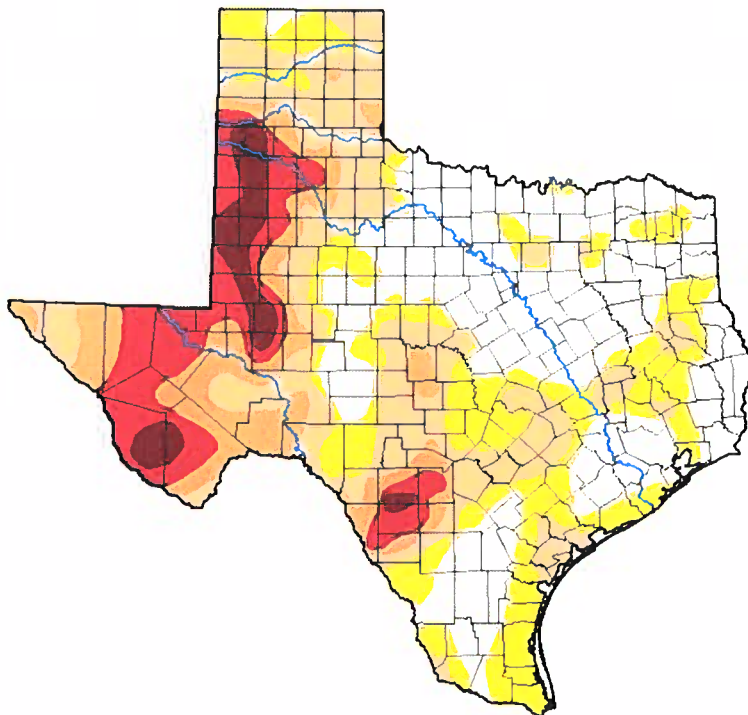
Author(s):

David Miskus, NOAA/NWS/NCEP/CPC

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying [text summary](#) for forecast statements.

Map Download

No text:





Education Outreach Highlights 11/11/20

- 1. Goal: Improve our educational outreach efforts and expand our identified audiences (4th-5th 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.

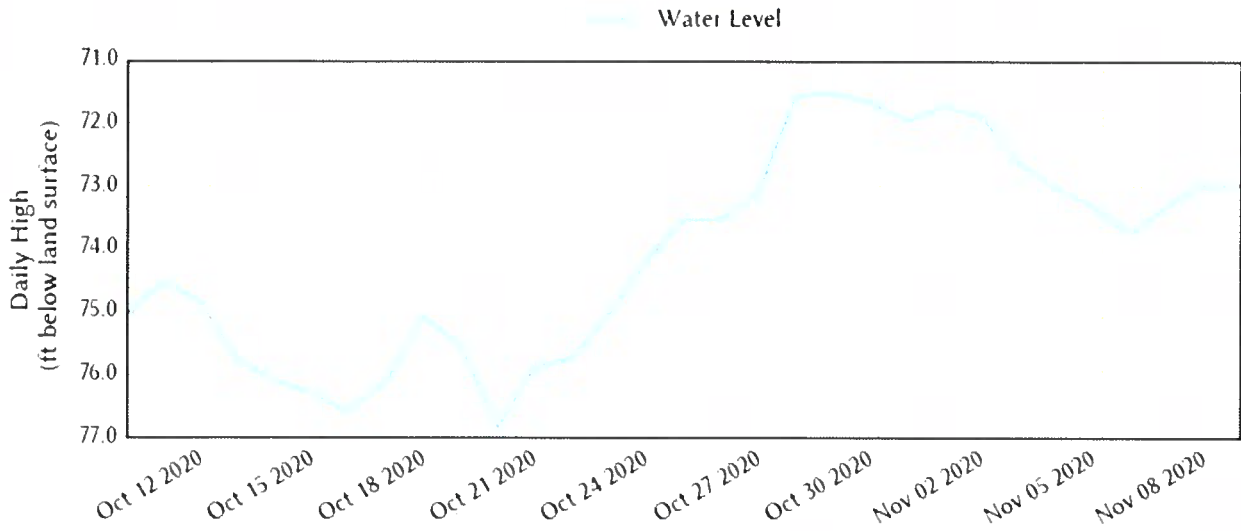
- 4. Improve Annual Reporting accuracy and timeliness per State mandated Legislation and Management Plan.** Goals and objectives in the Management Plan (A:1,2,3,4; B; C; D; E; F; g pages 22-26).

 - The 2019 Annual Report was approved at the March meeting.
 - The Annual Water Symposium has been postponed due to COVID-19.

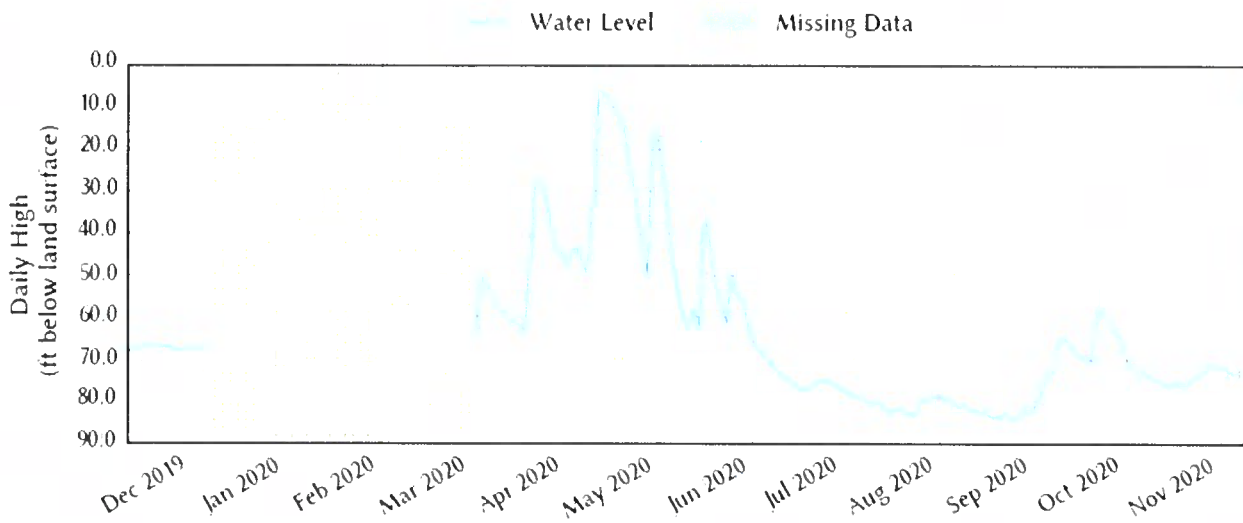
October 2020

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

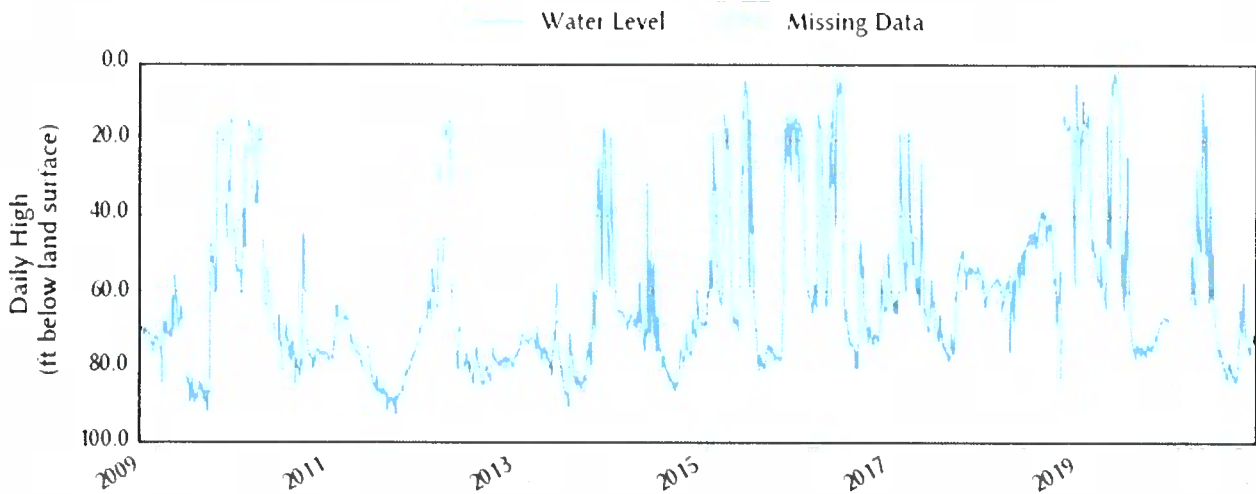
Last 30 Days



1 Year



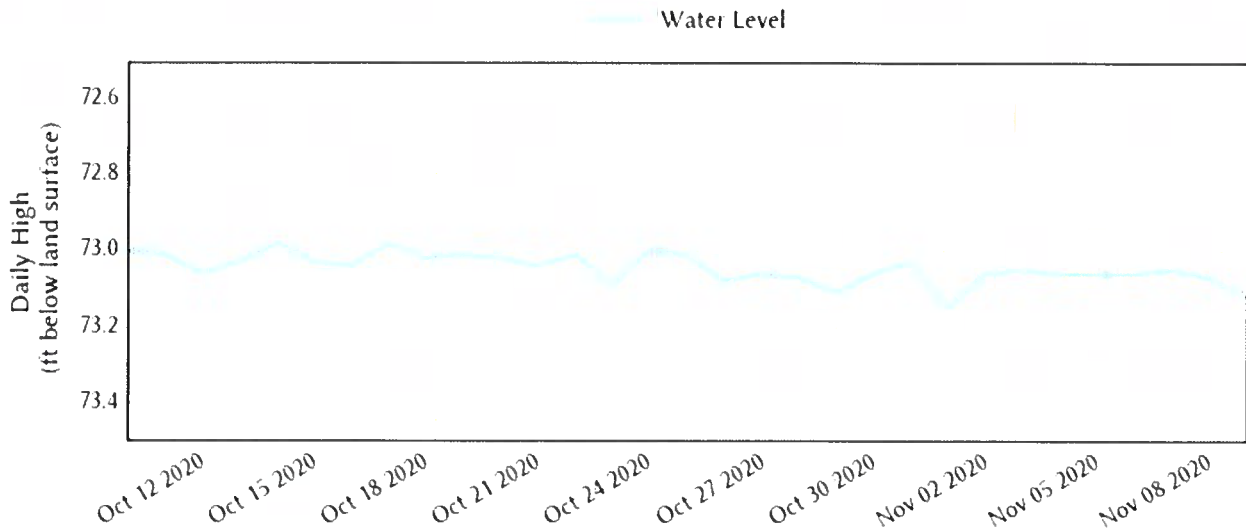
Period Of Record



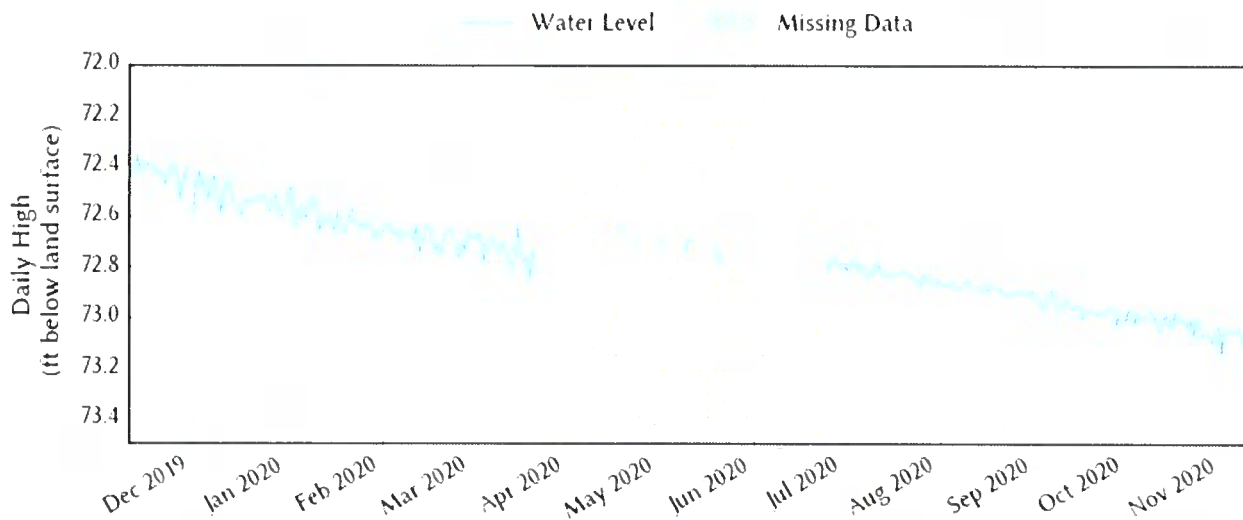
October 2020

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

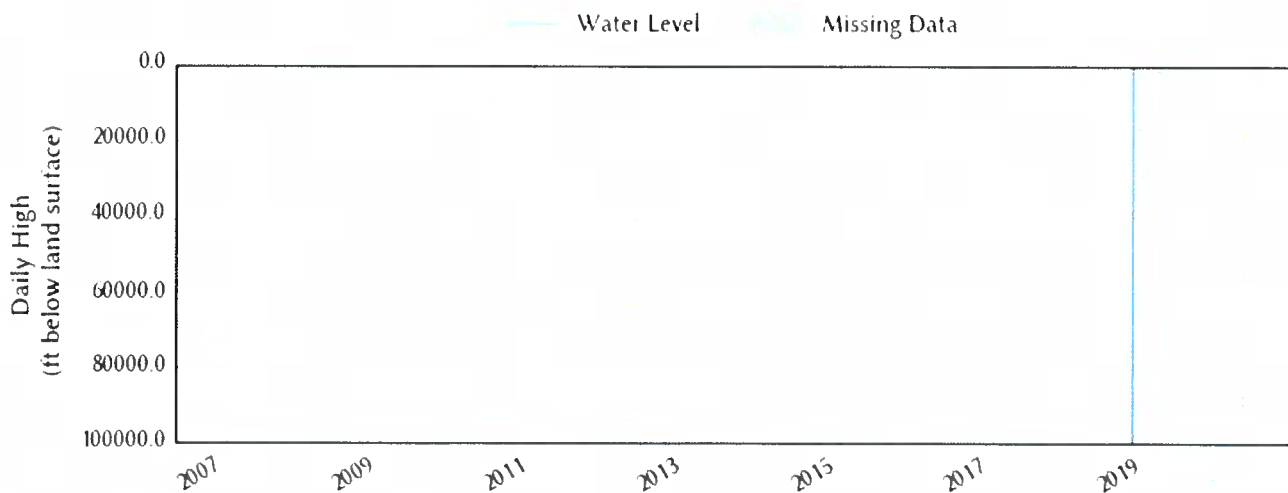
Last 30 Days



1 Year



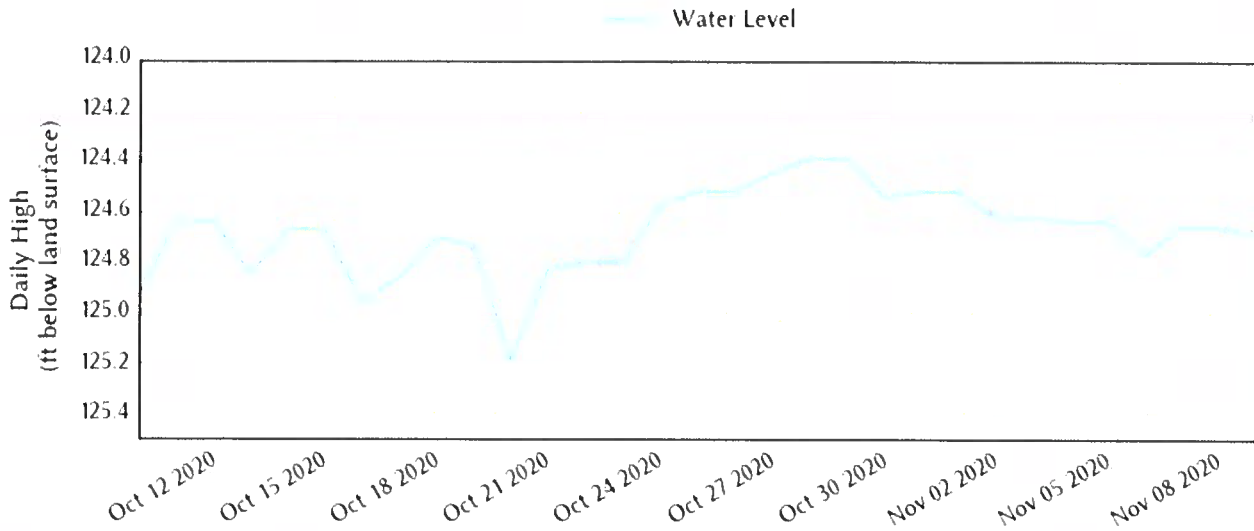
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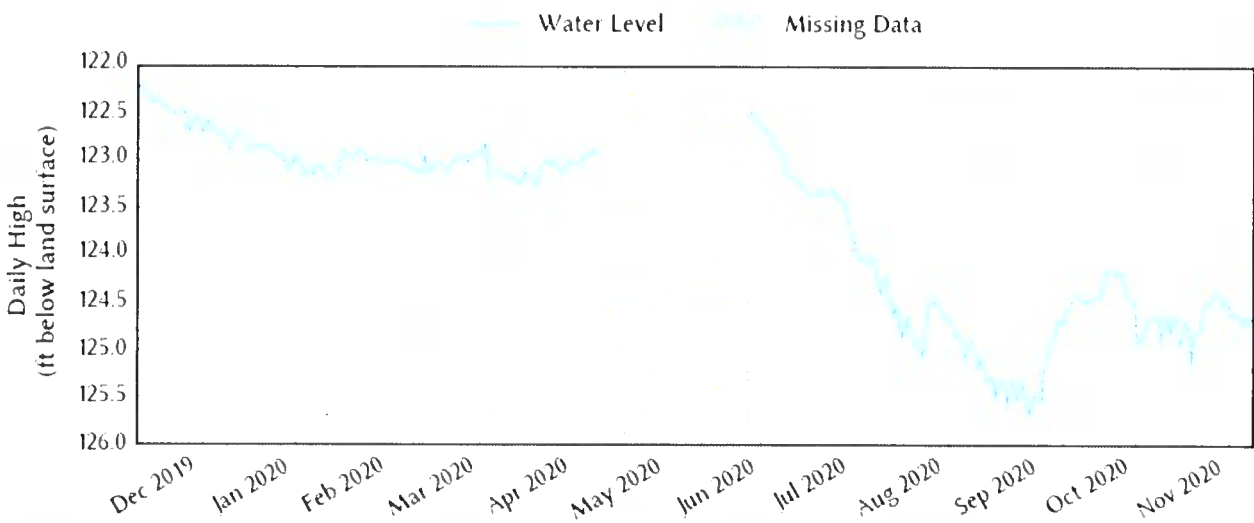
October 2020

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

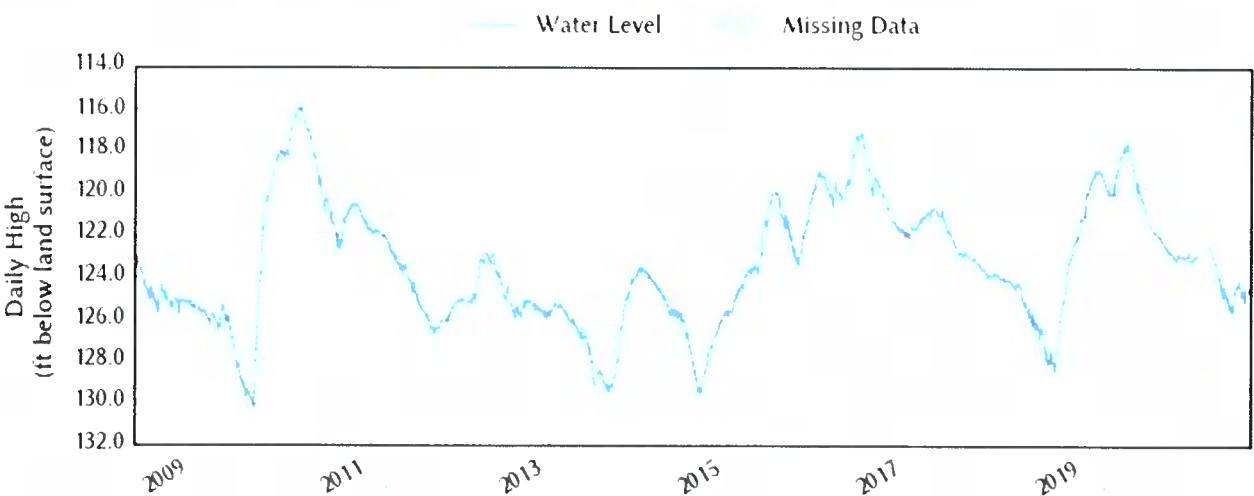
Last 30 Days



1 Year



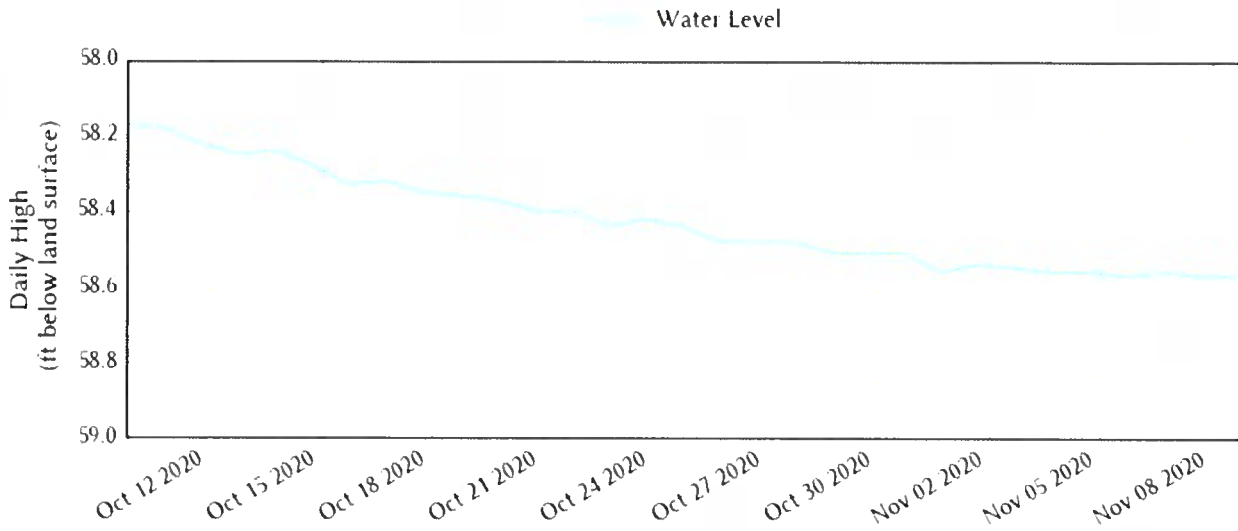
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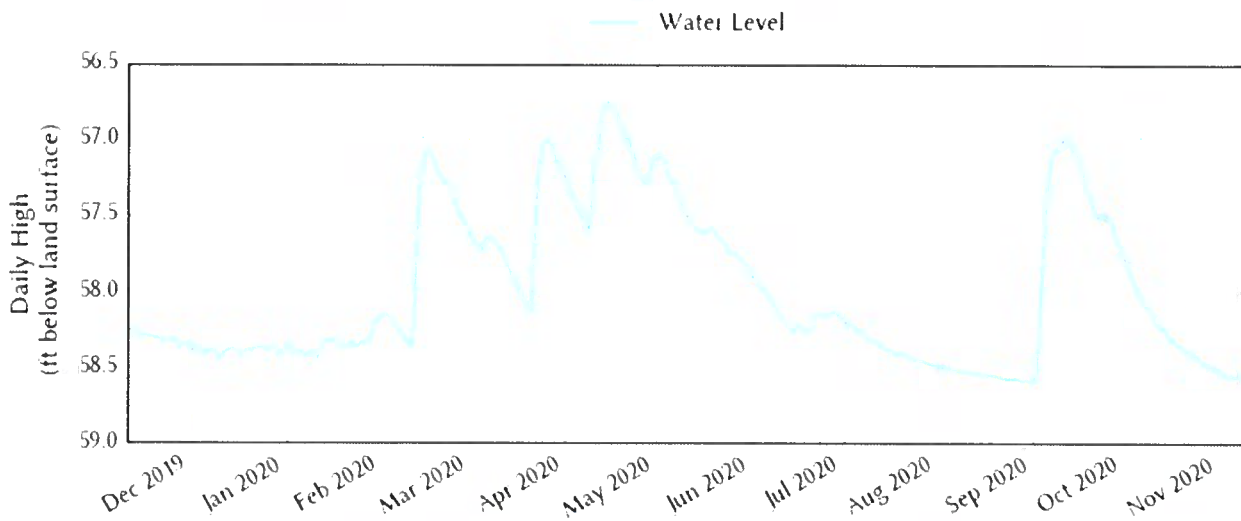
October 2020

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

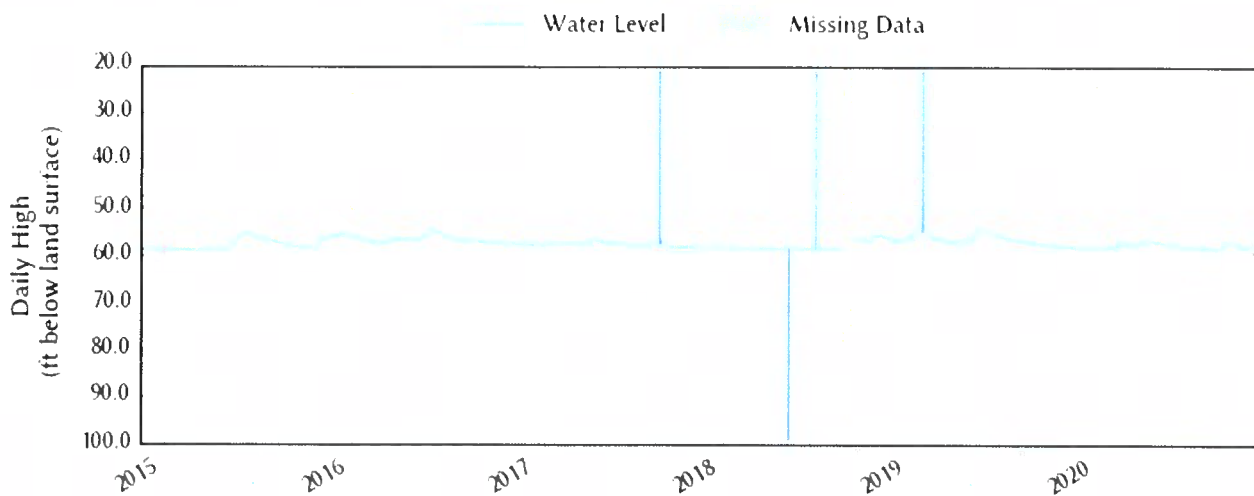
Last 30 Days



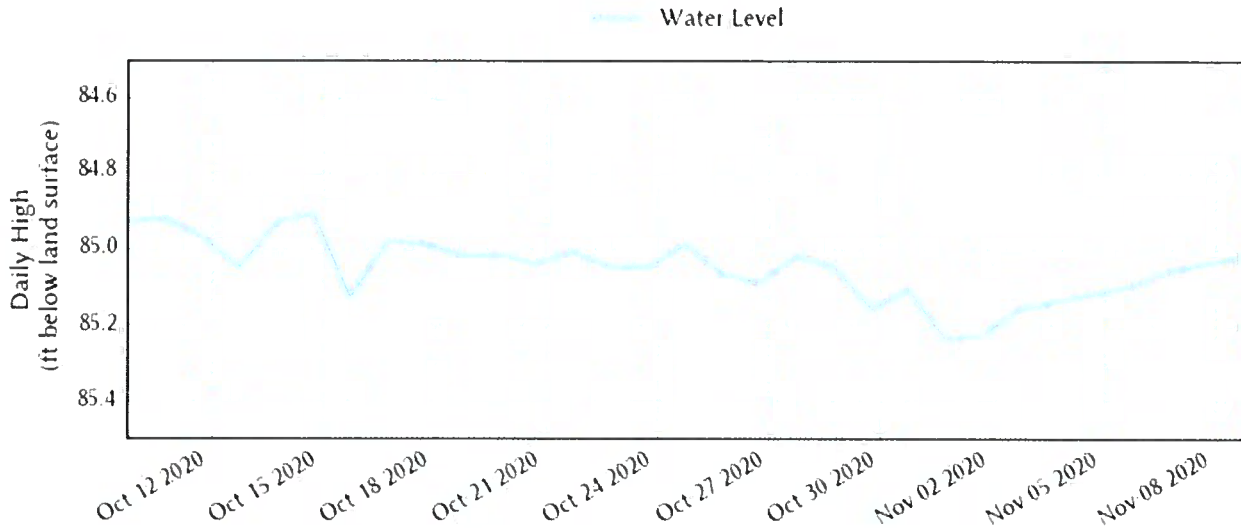
1 Year



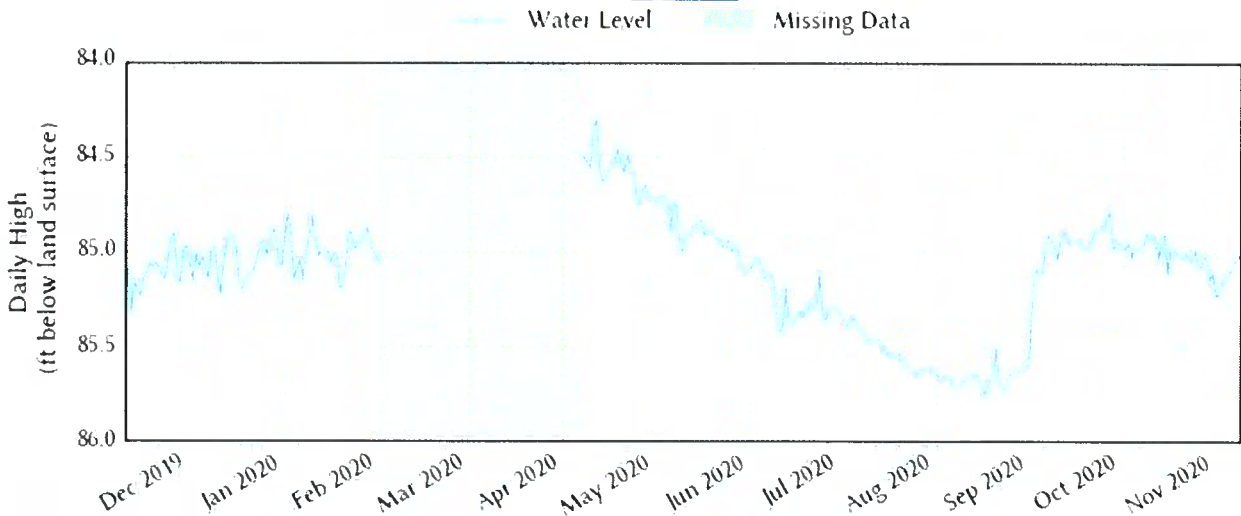
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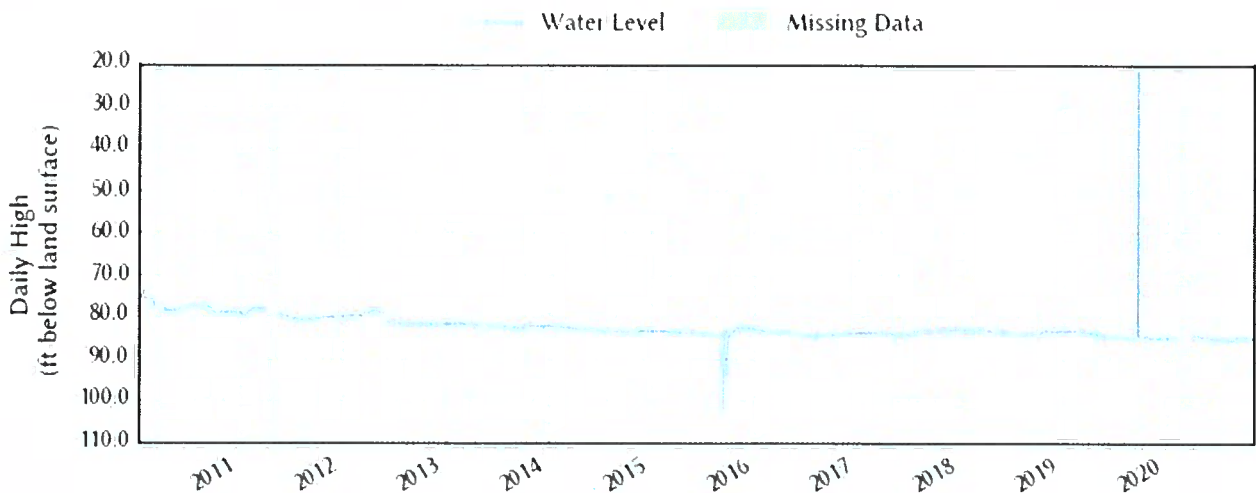
Last 30 Days



1 Year



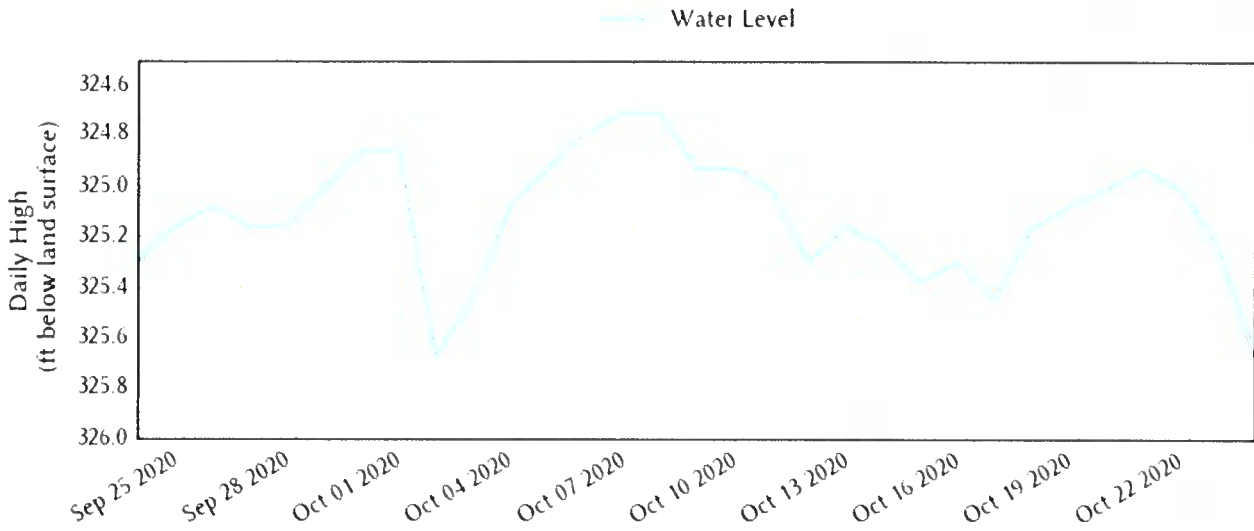
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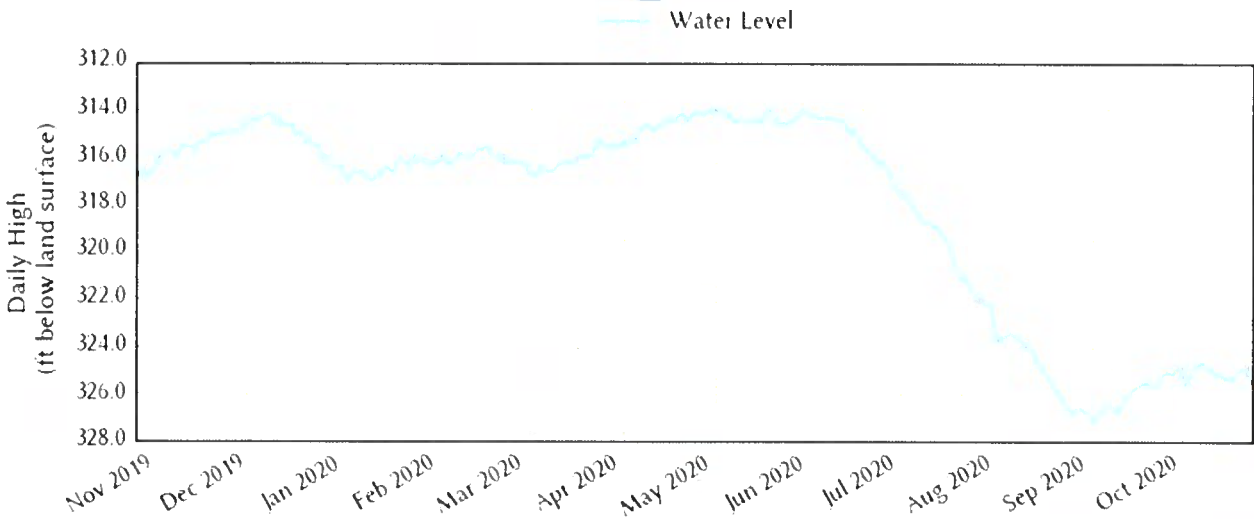
October 2020

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

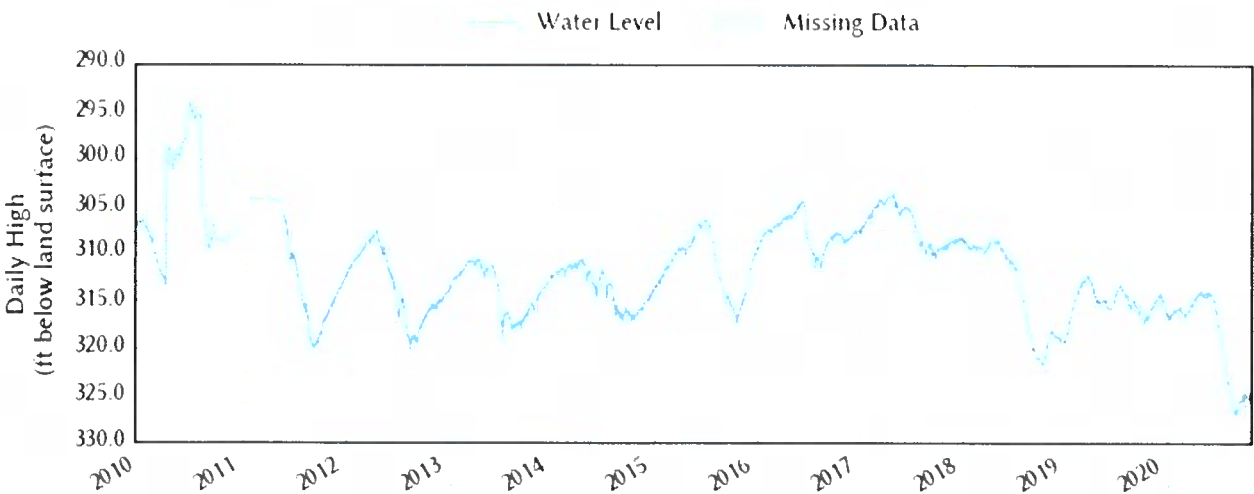
Last 30 Days



1 Year

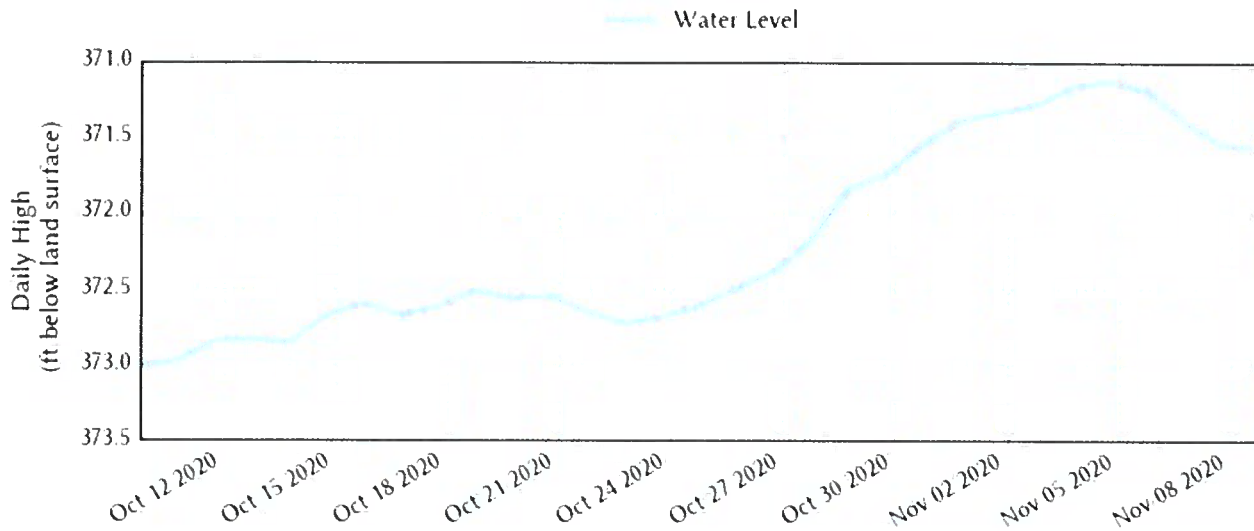


Period Of Record

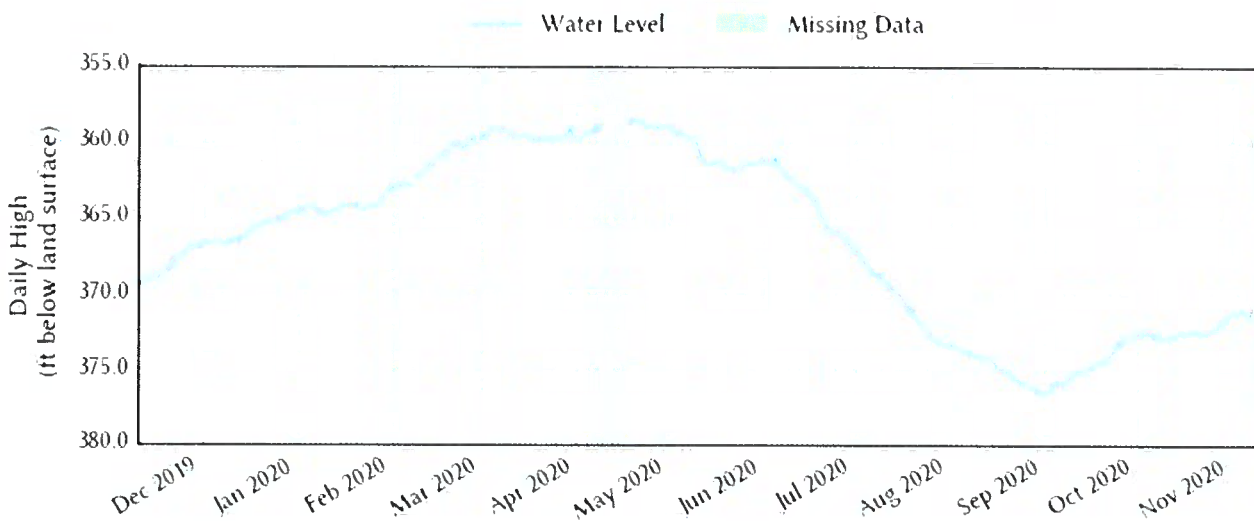


Continuous Monitoring Well # 5802304
(Killeen - River Ridge Ranch Park Well #1)
Middle Trinity Aquifer

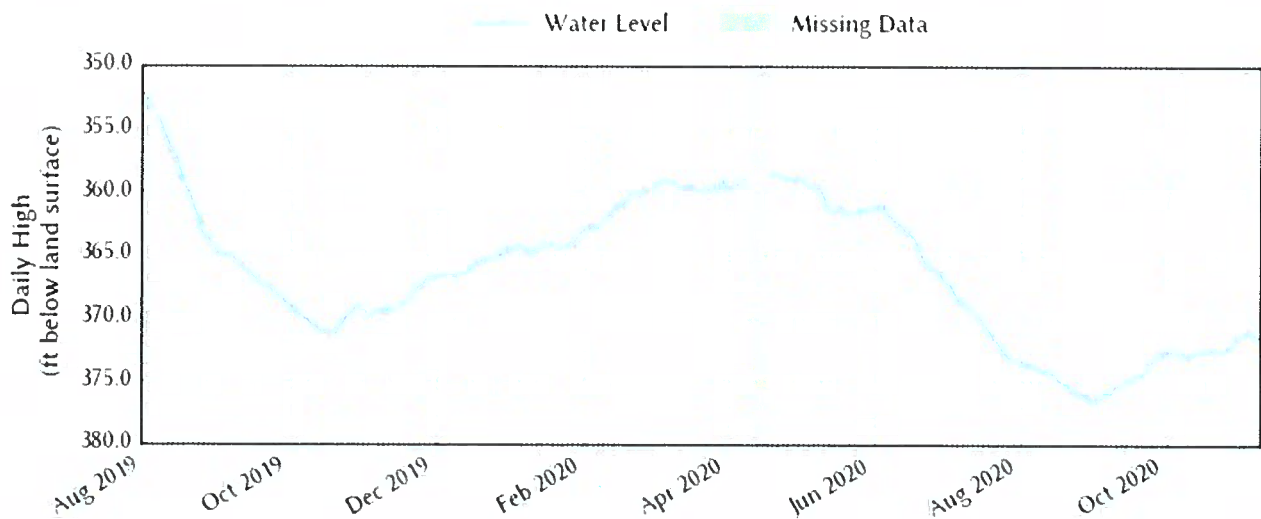
Last 30 Days



1 Year



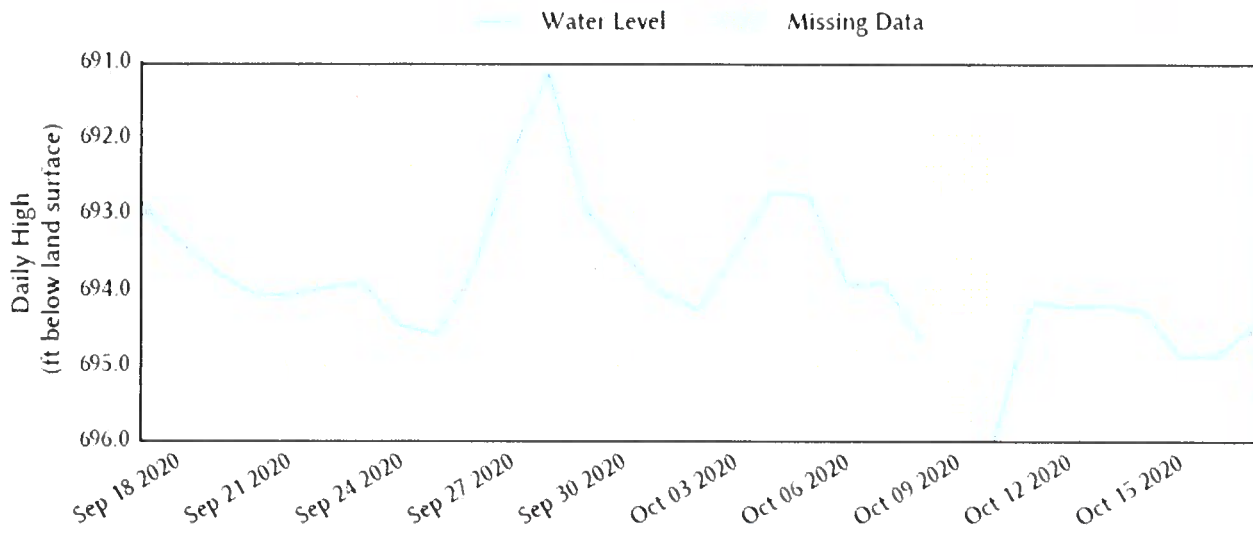
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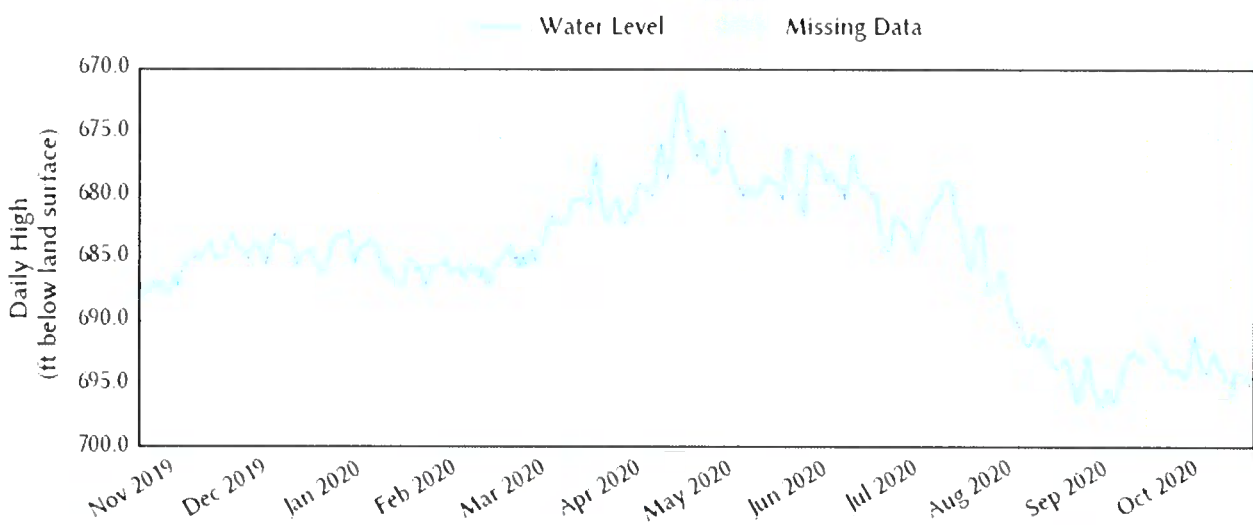
October 2020

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

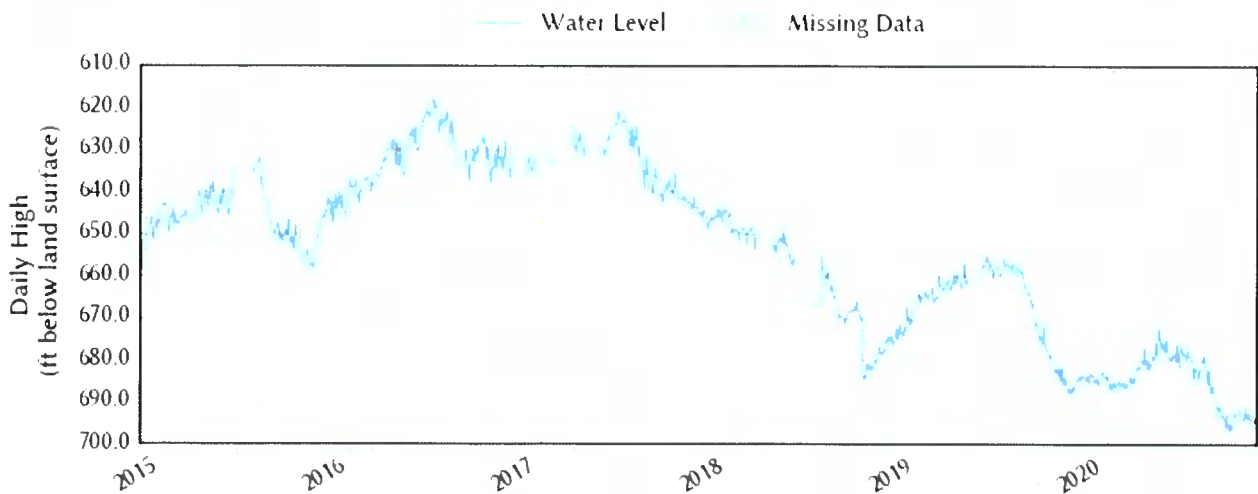
Last 30 Days



1 Year



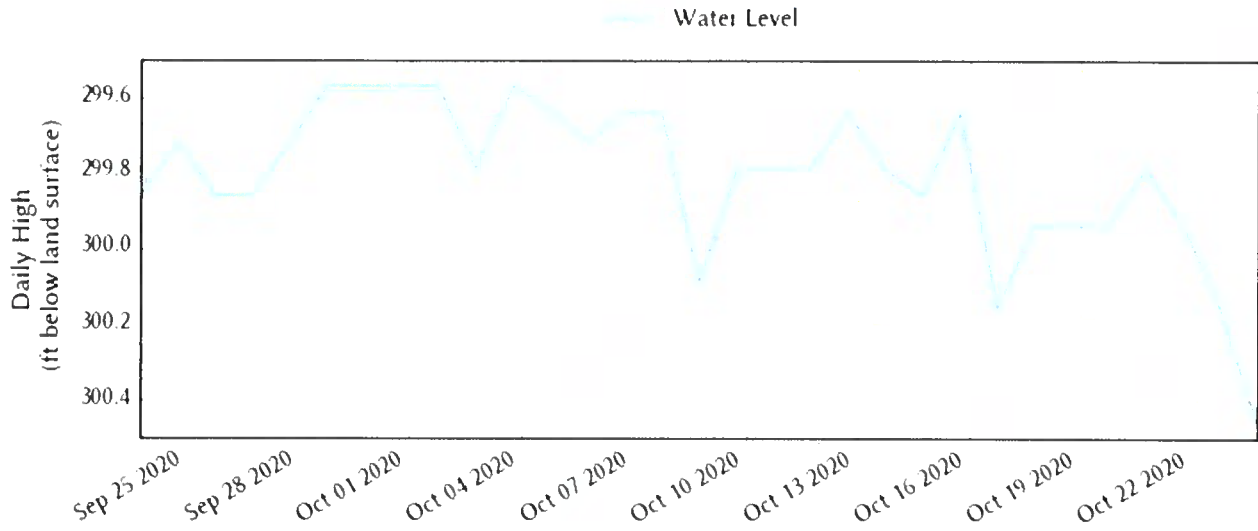
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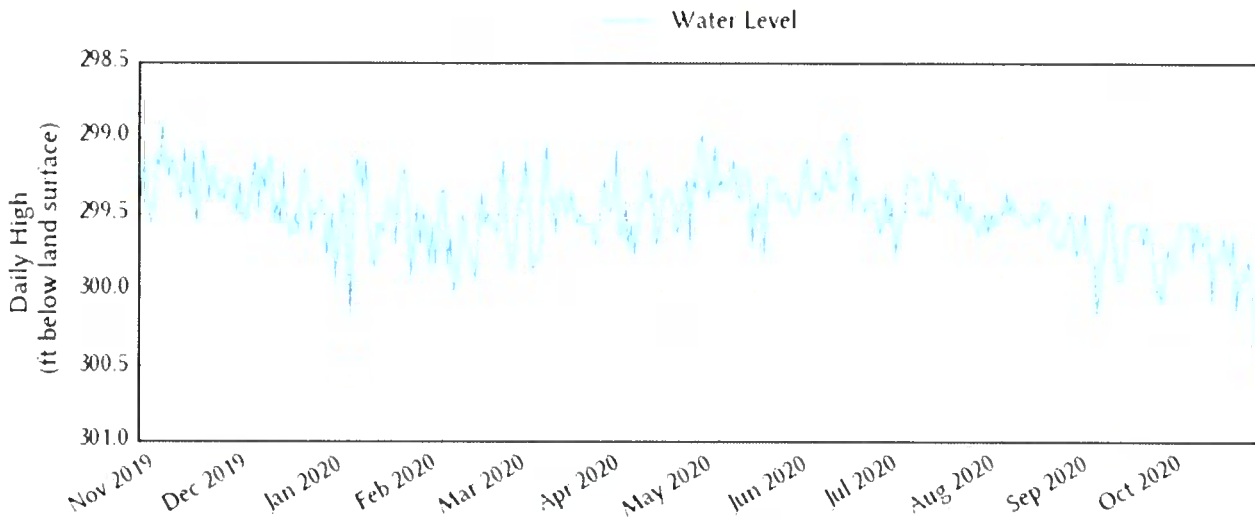
October 2020

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

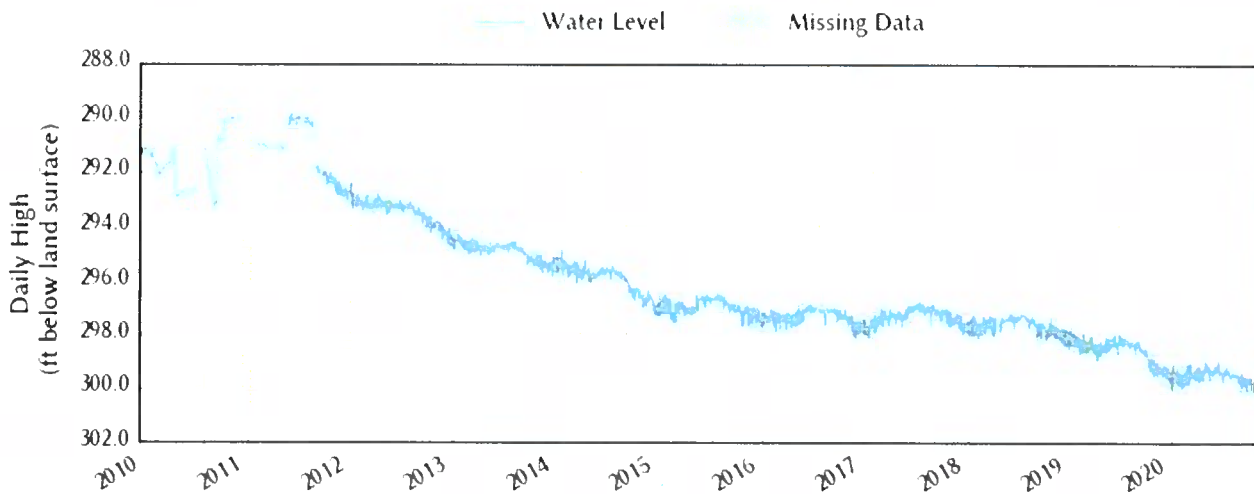
Last 30 Days



1 Year

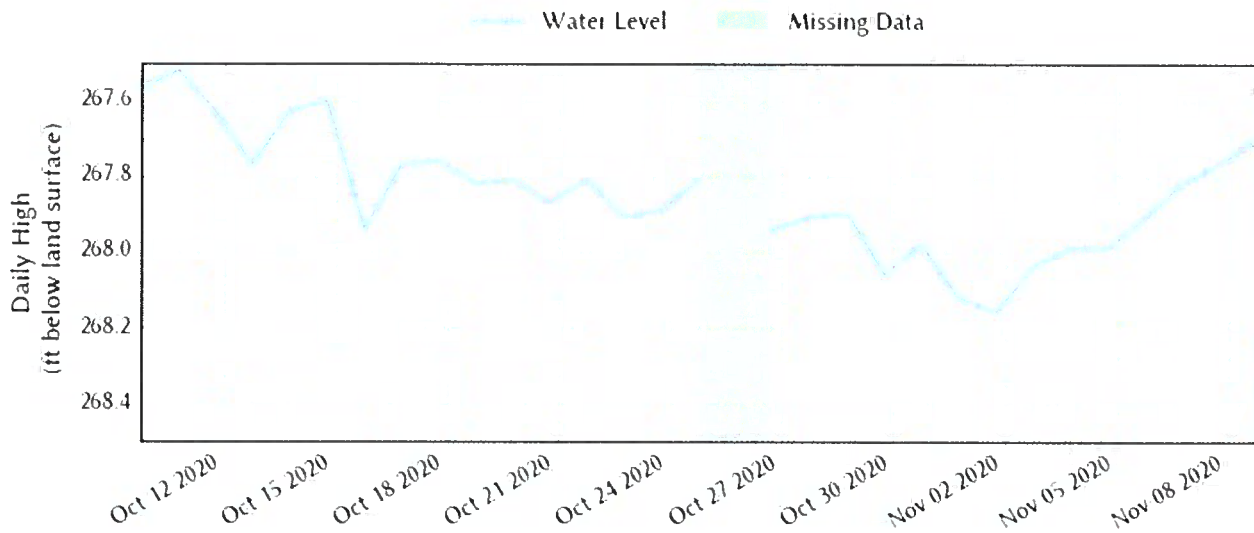


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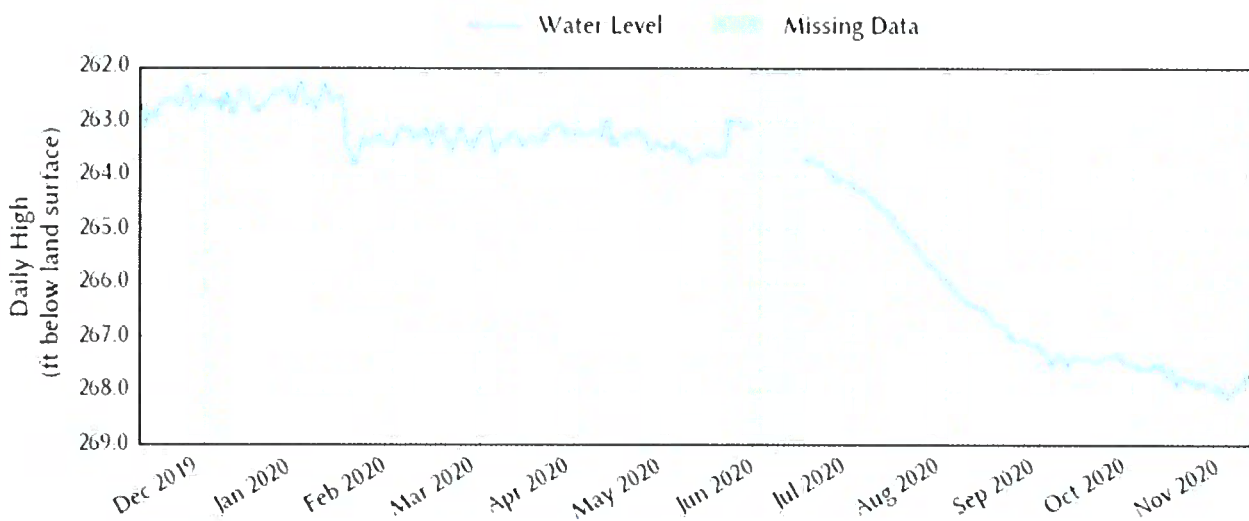


Continuous Monitoring Well # 4061509
(Temple - Pea Ridge Well)
Lower Trinity Aquifer

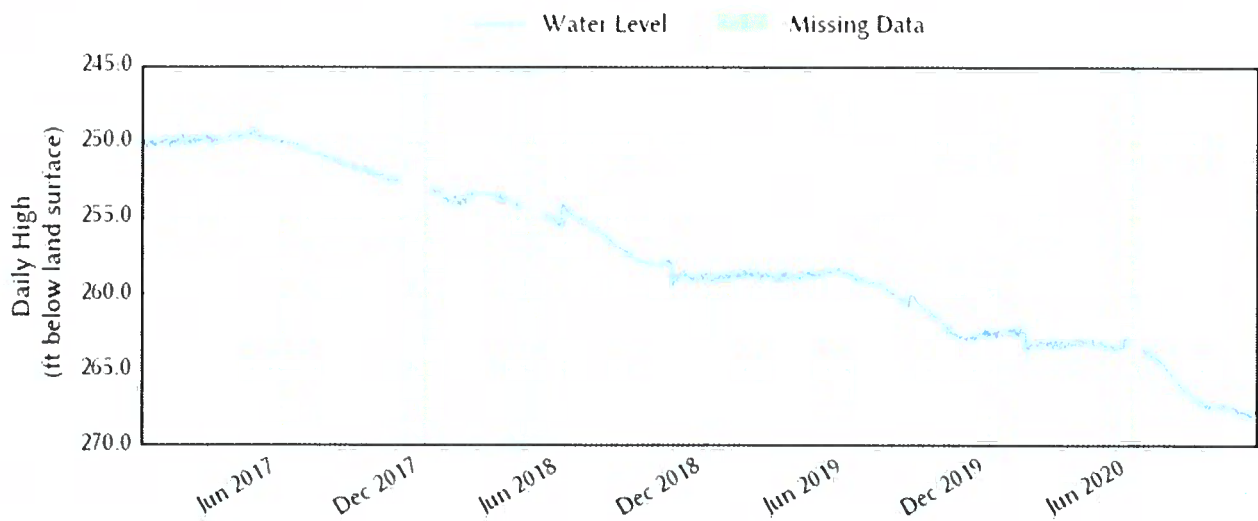
Last 30 Days



1 Year

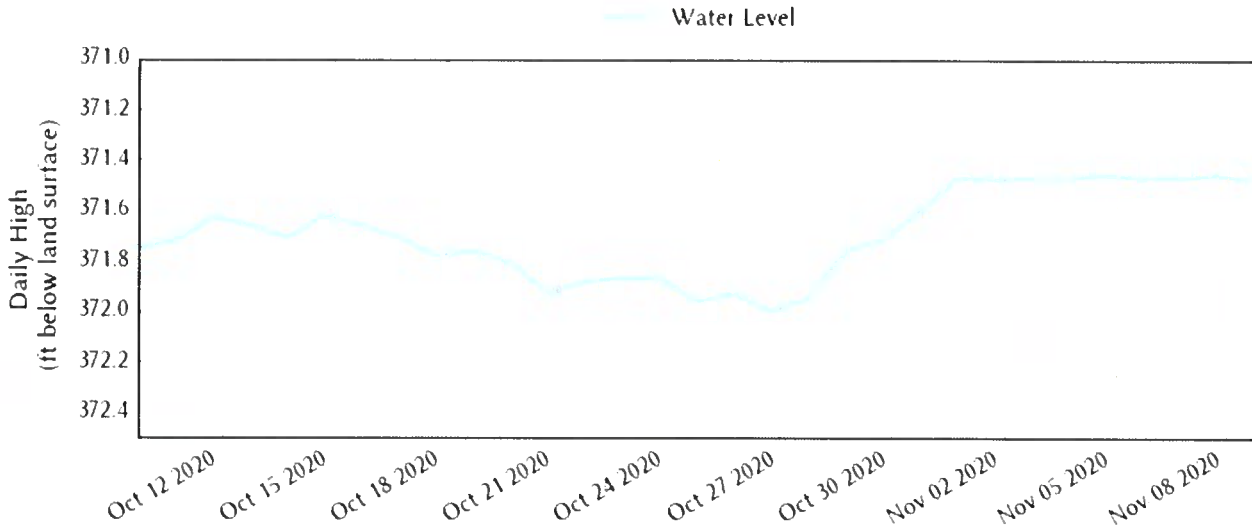


Period Of Record

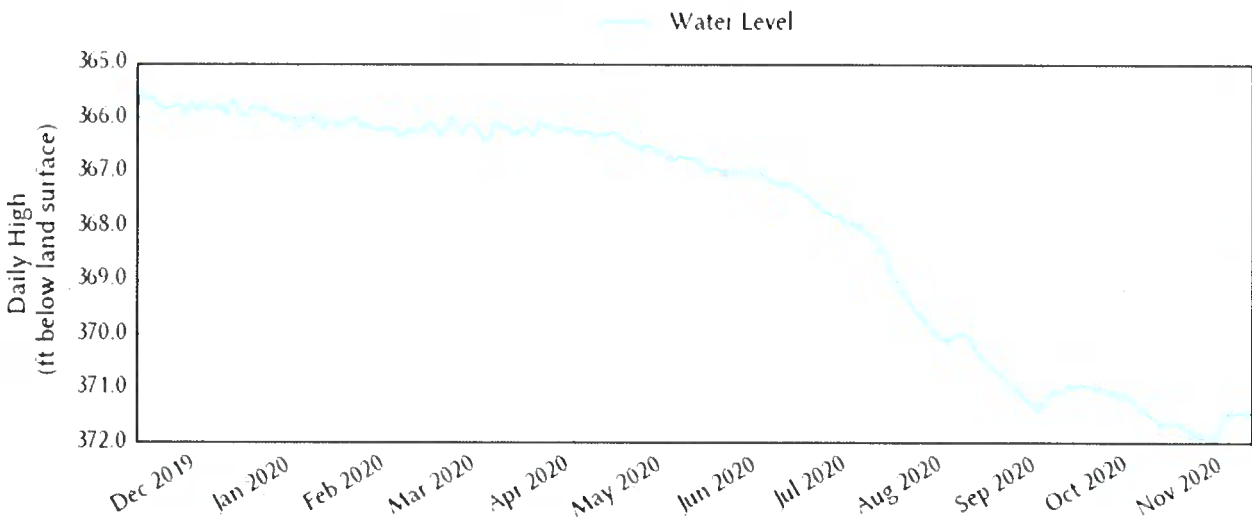


Continuous Monitoring Well # 4062501
(Temple - Acres Well)
Lower Trinity Aquifer

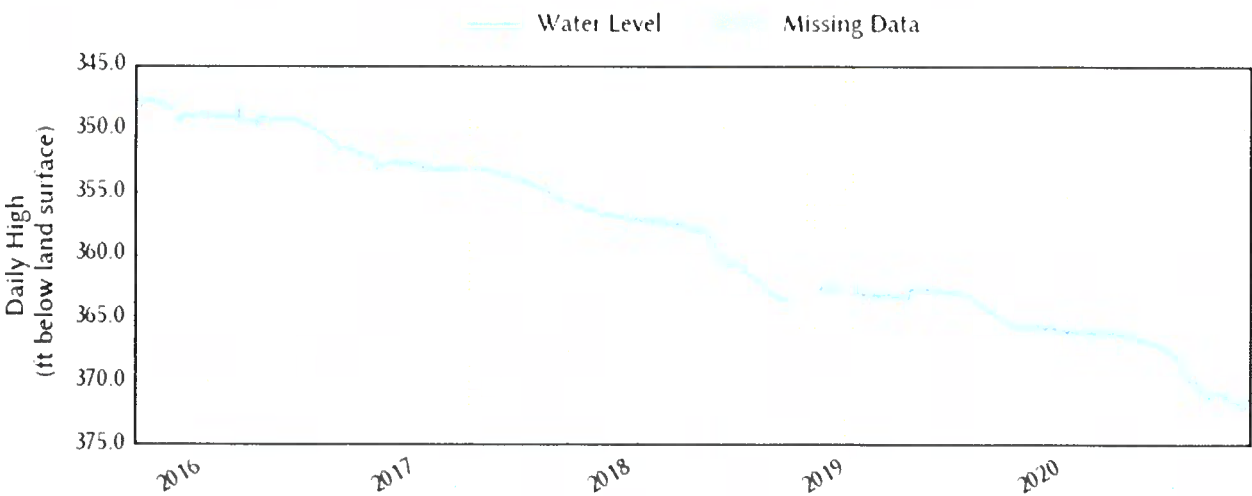
Last 30 Days



1 Year

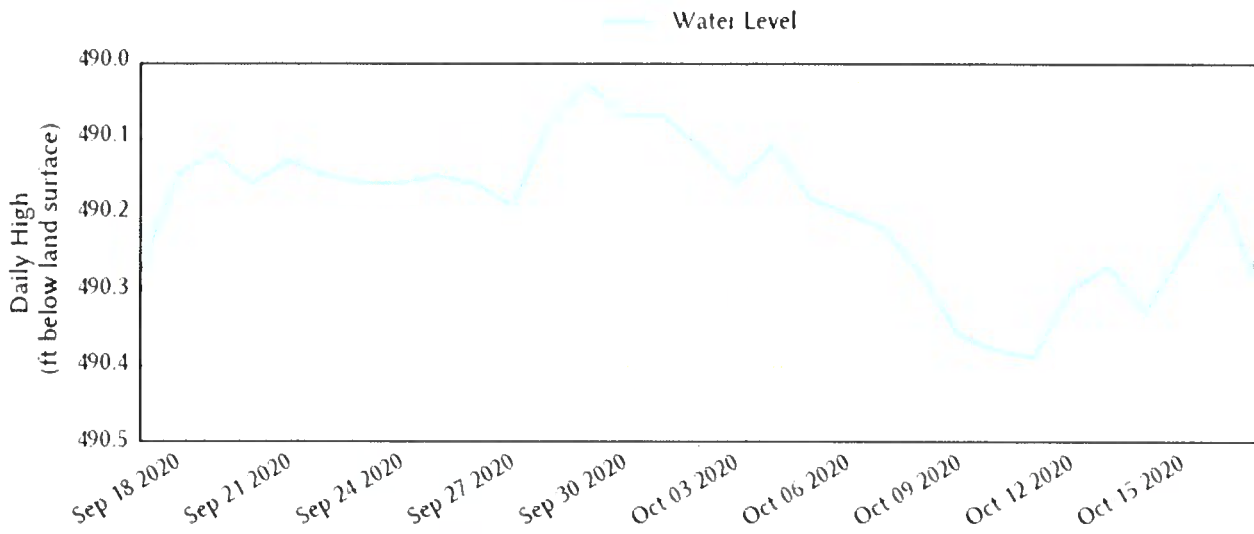


Period Of Record

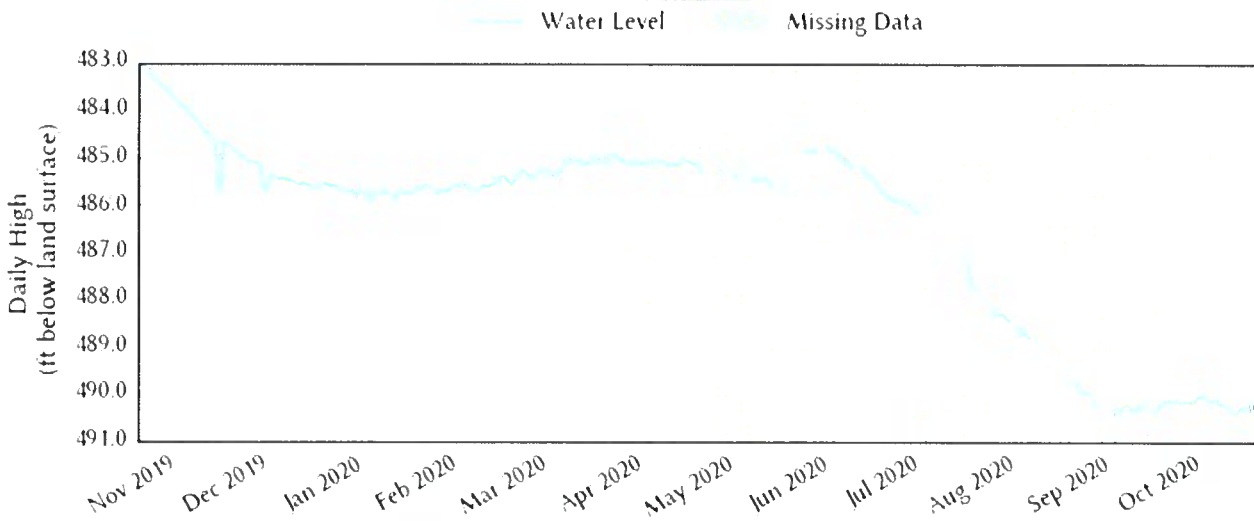


Continuous Monitoring Well # 4054701
(Temple - Cearley Well)
Lower Trinity Aquifer

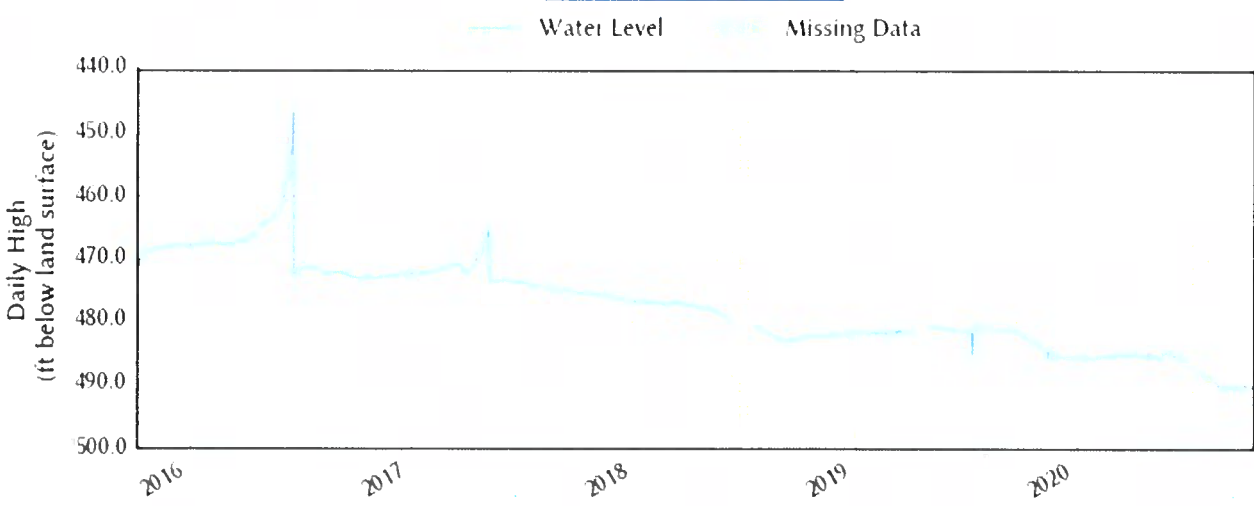
Last 30 Days



1 Year



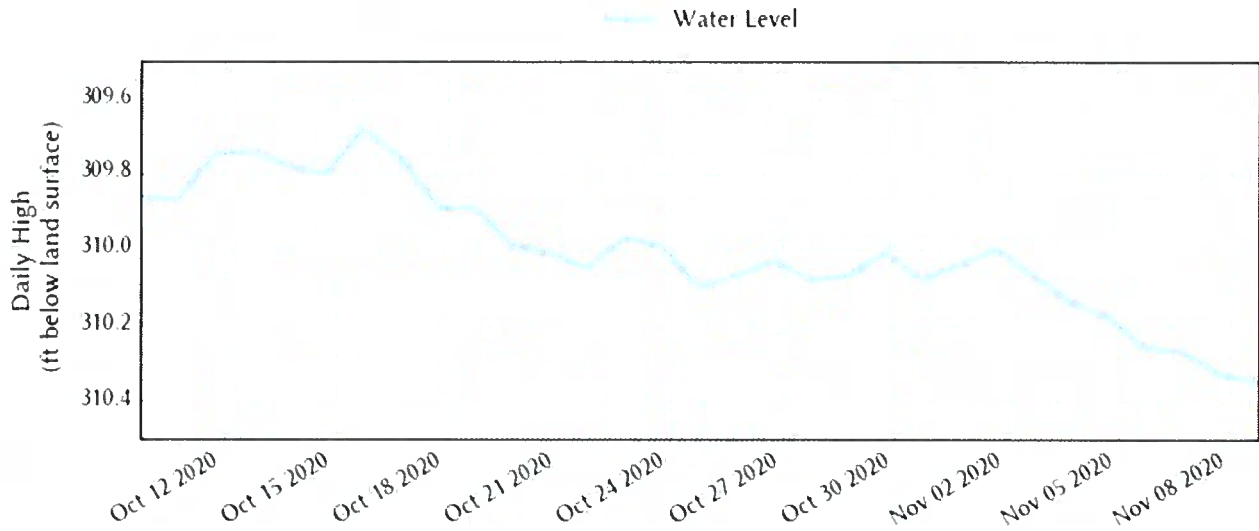
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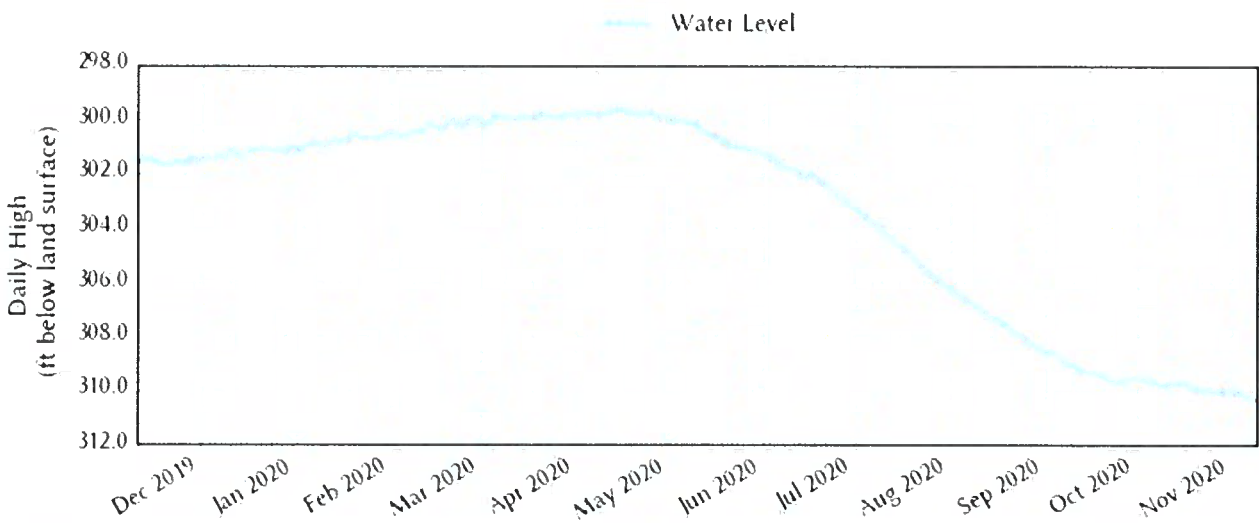
October 2020

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

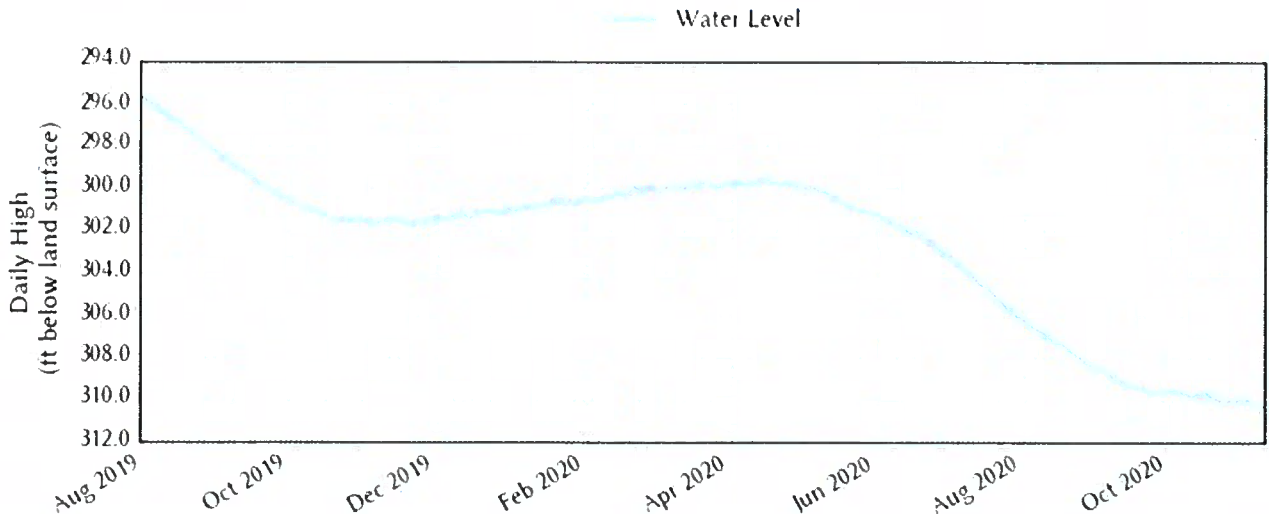
Last 30 Days



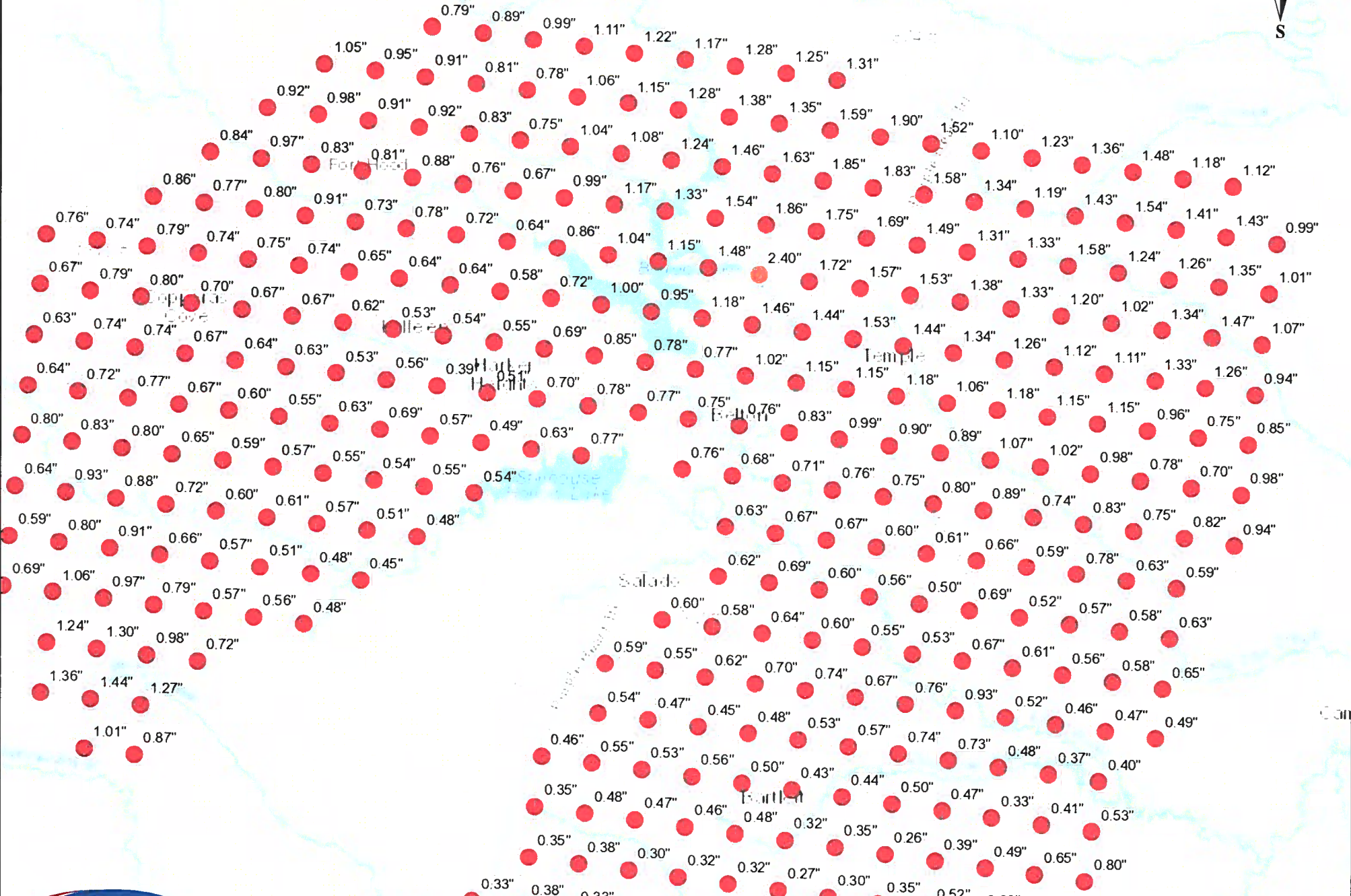
1 Year



Period Of Record

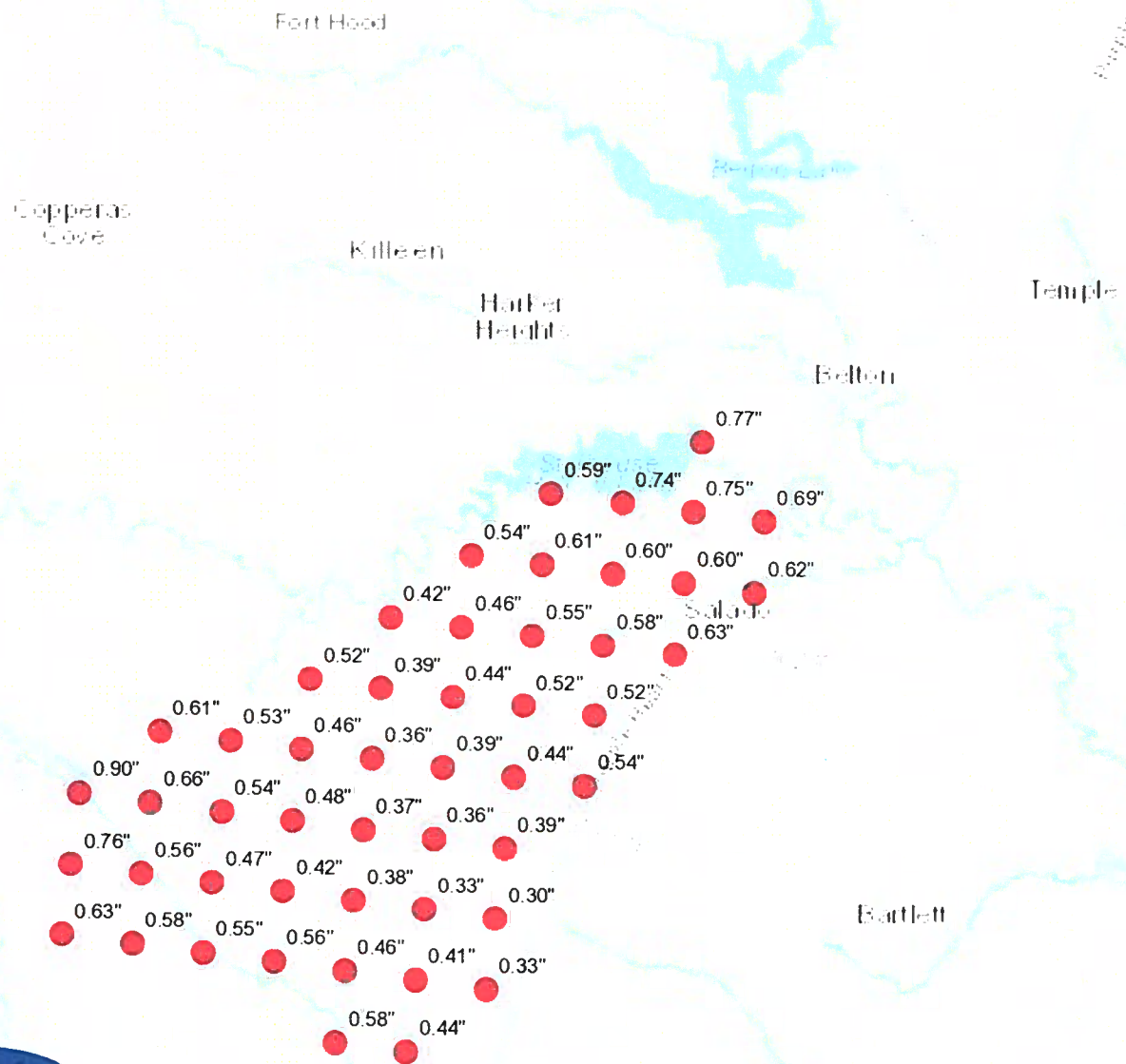


NOAA 30 Day Rainfall - Trinity



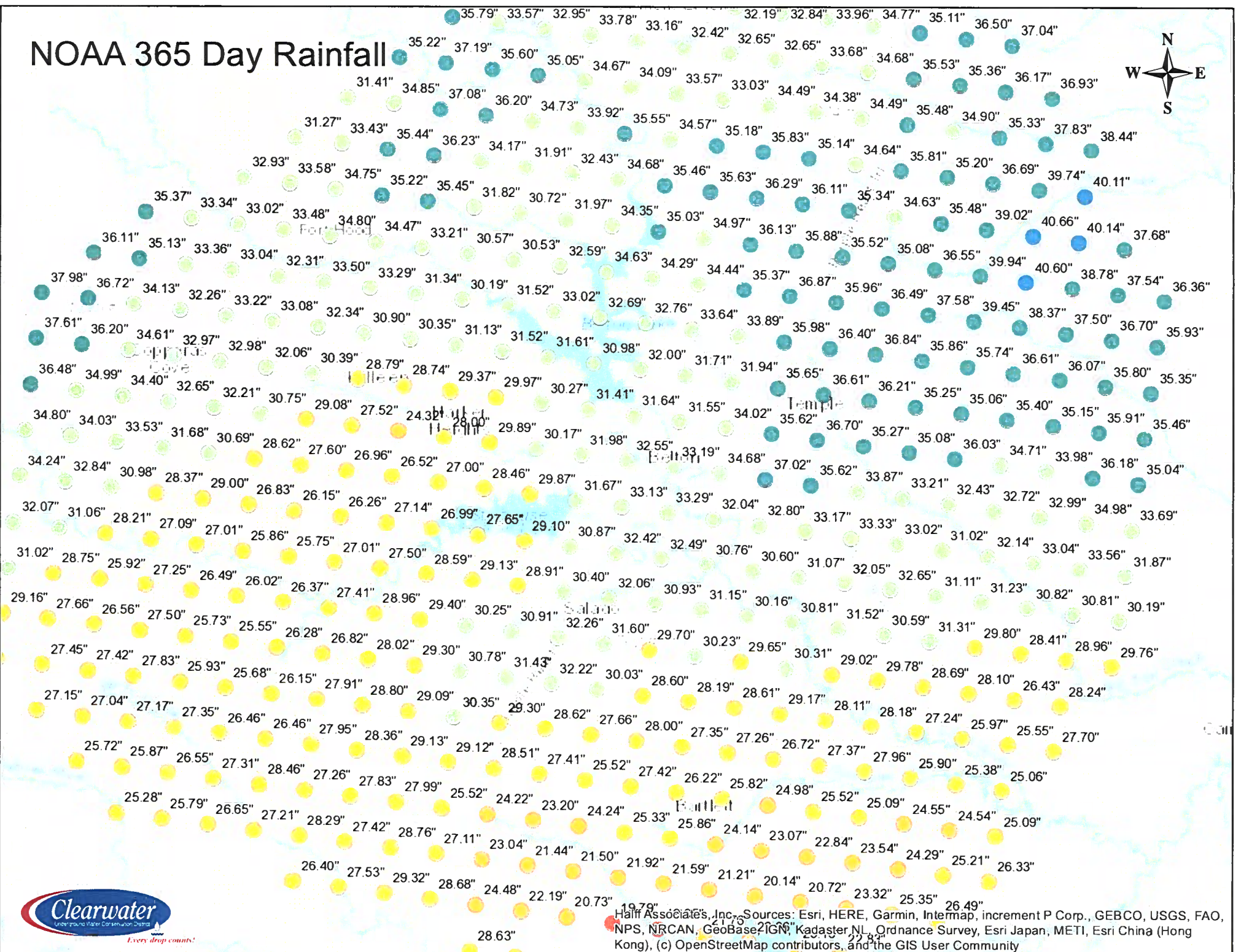
Half Associates, Inc., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

NOAA 30 Day Rainfall - Edwards



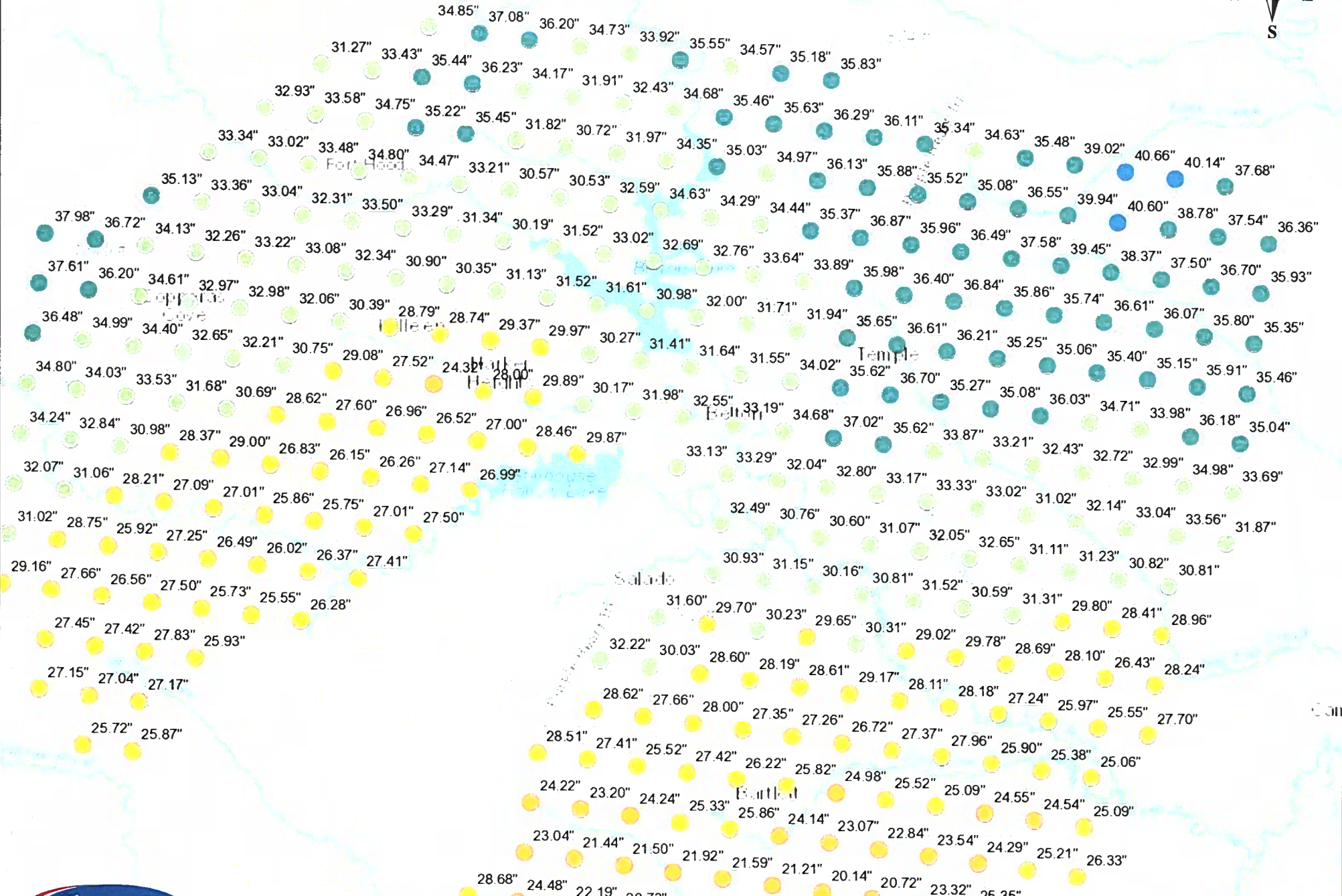
Half Associates, Inc., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

NOAA 365 Day Rainfall



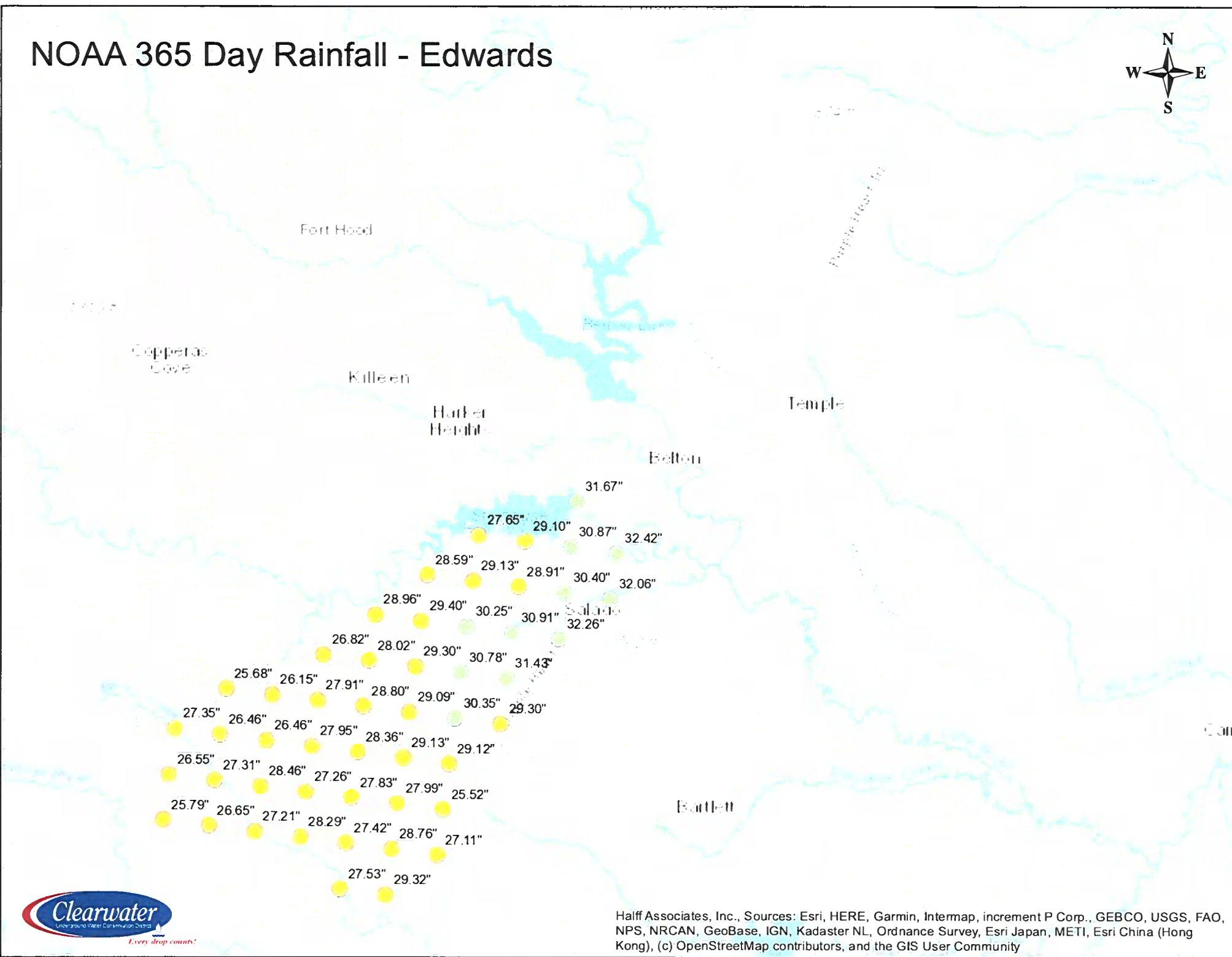
Half Associates, Inc. Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

NOAA 365 Day Rainfall - Trinity



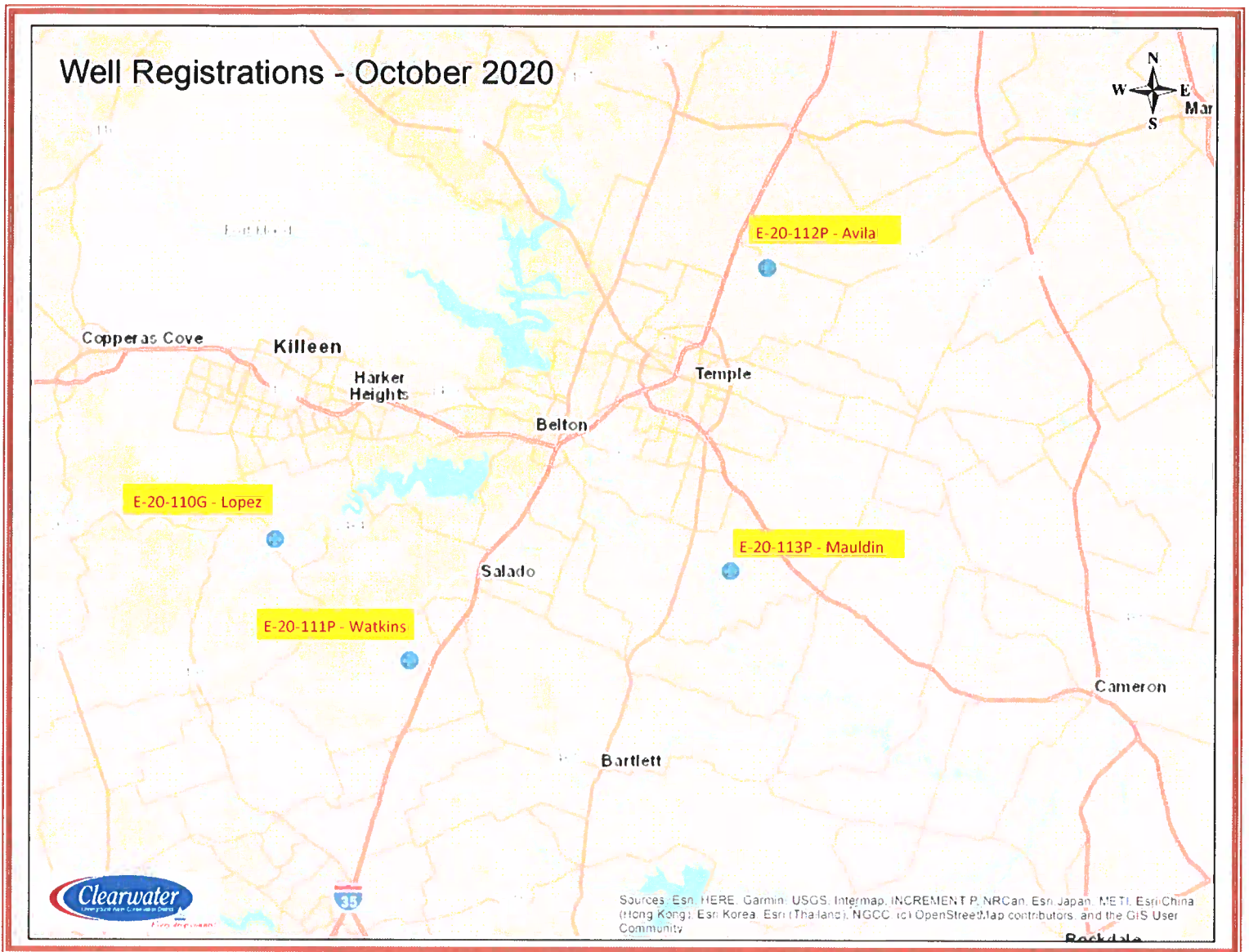
Map Associates, Inc. Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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 - October 2020



<u>Well #</u>	<u>Owner</u>	<u>Address</u>	<u>City</u>	<u>Depth</u>	<u>Aquifer</u>	<u>Use</u>	<u>Status</u>
E-20-110G	Nicole Lopez	19276 FM 2484	Killeen	700 ft	Undeclared	Domestic	Active
E-20-111P	Tim Watkins	6327 Solana Ranch Rd	Salado	850 ft	Undeclared	Domestic	Proposed
E-20-112P	Leandro Avila	10762 Bigham Rd	Troy	60 ft	Undeclared	Domestic	Proposed
E-20-113P	Britt Mauldin	PO Box 387	Ltl River	65 ft	Undeclared	Domestic	Proposed

Well Registration Totals

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	1	3	0	0	0	0	0	4
Nov								0
Dec								0
Total 2020	69	43	1	2	5	1	0	121
Totals	4421	1056	105	35	57	26	121	5821

Adjustments

Adjustment Type	Exempt Wells		Non-Exempt Wells			Monitor Wells		Total
	Grandfathered	New	Grandfathered	Class 1	Class 2	Water	Envr	
2002-Present	4421	1056	105	35	57	26	121	5821
Never Drilled	N/A	-27	N/A	-3	-4	0	-1	-35
Plugged	-203	-42	-18	-2	-1	-2	-53	-321
Totals	4218	987	87	30	52	24	67	5465