



Clearwater Underground Water Conservation District

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Clearwater Staff Reports

December 8, 2021

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

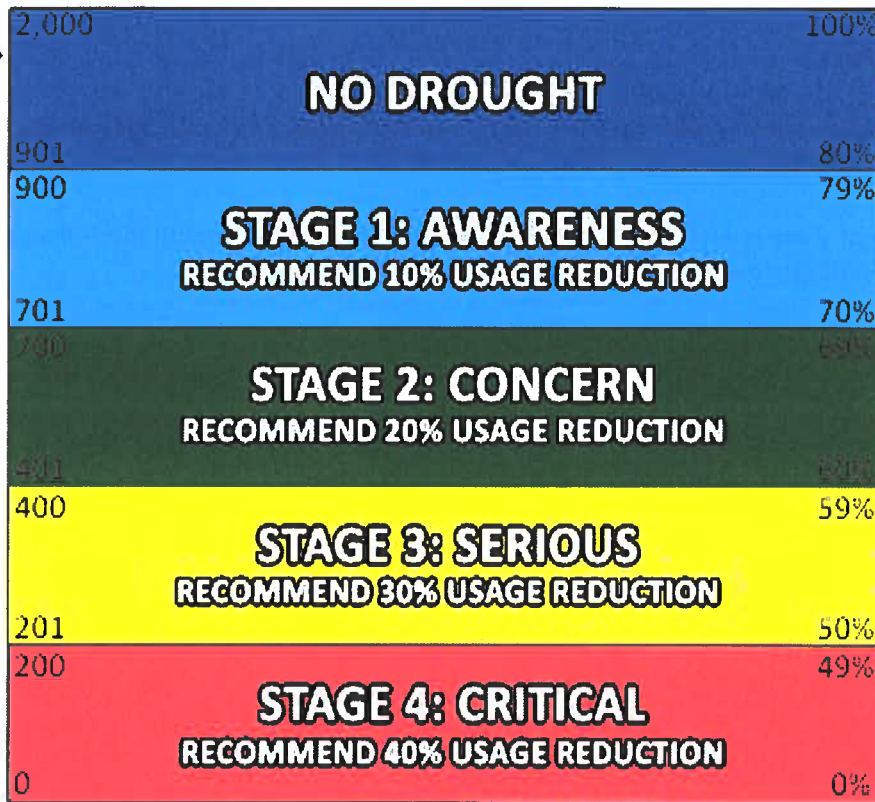
Edwards BFZ Aquifer—Drought Status Report

NO DROUGHT

1478.08 ac-ft
(month)
24.84 cfs

Salado Creek
Spring Discharge

AS OF 12/01/2021

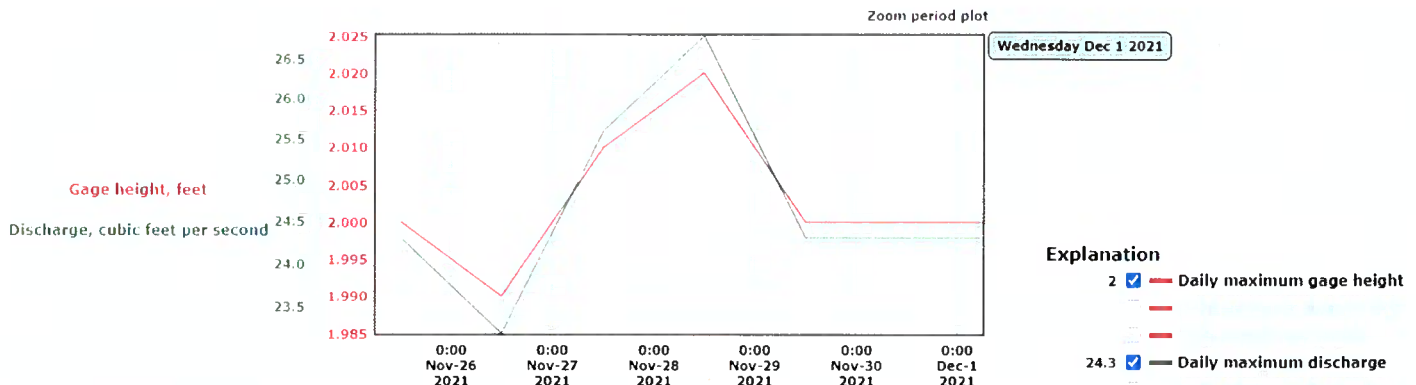


37.57 PDI
113.85%

Precipitation Deficit Index (PDI)

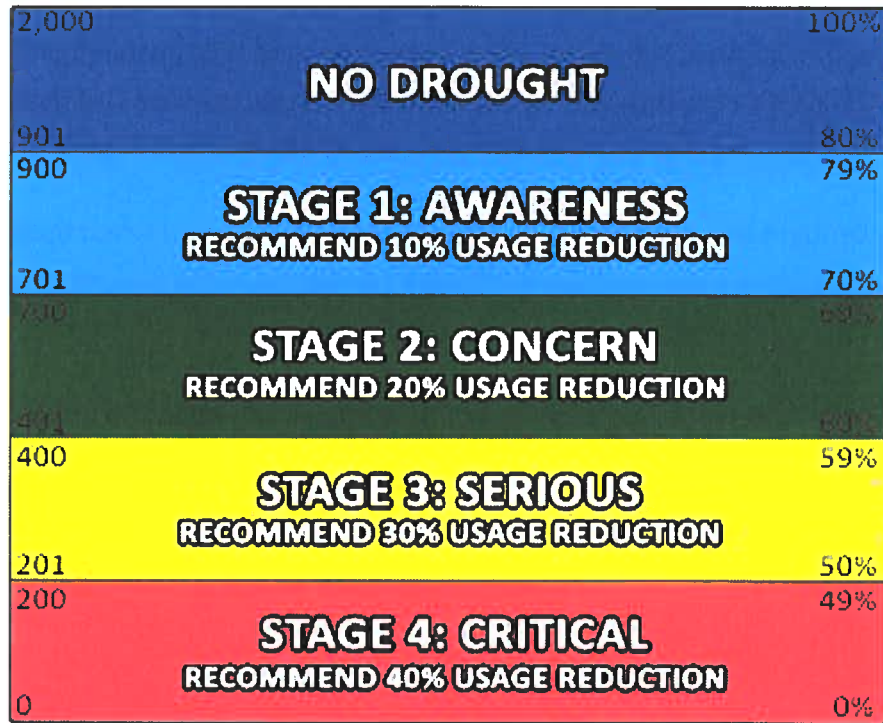
PDI is based on a 33" normal yearly average and is a 365 day running total.

USGS 08104300 Salado Ck at Salado, TX



Trinity Aquifer—Drought Status Report

NO DROUGHT

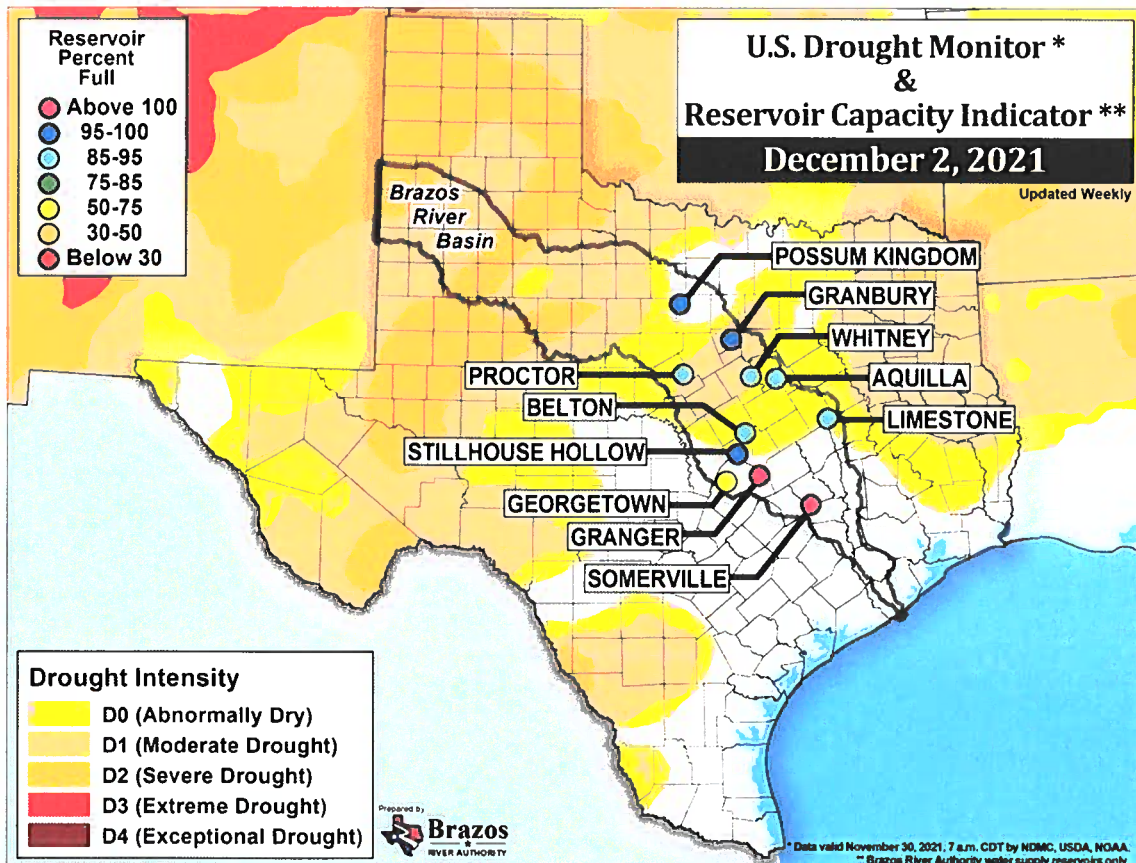


35.98 PDI
109.03 %

Precipitation Deficit Index (PDI)

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

AS OF 12/01/2021





Education Outreach Highlights 12/8/21

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).

- October 26 – Staff presented the education trailer to the Junior Master Gardener's at St. Mary's Catholic School in Temple. 26 in attendance.
- October 28 – Staff hosted a booth at Bell County Conservation Expo at Summer's Mill. 66 in attendance.
- November 17 – Staff hosted the 20th Annual Bell County Water Symposium at Bell County Expo Center – Assembly Hall. 181 were in attendance.

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).

- Working with LRE Water to develop the new platform for Database Management.
- Continue working with HALFF to maintain the current platform.
- 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.

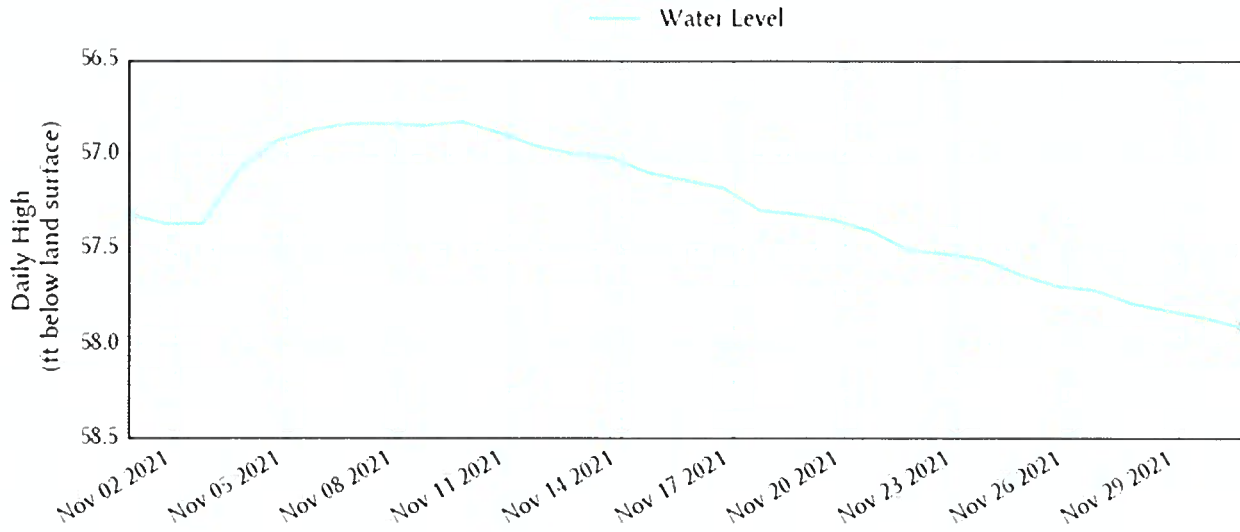
4. Improve Annual Reporting accuracy and timeliness per State mandated Legislation and Management Plan. Goals and objectives in the Management Plan (A:1,2,3,4; B; C; D; E; F; g pages 22-26).

- Staff is preparing the 2021 Annual Report.

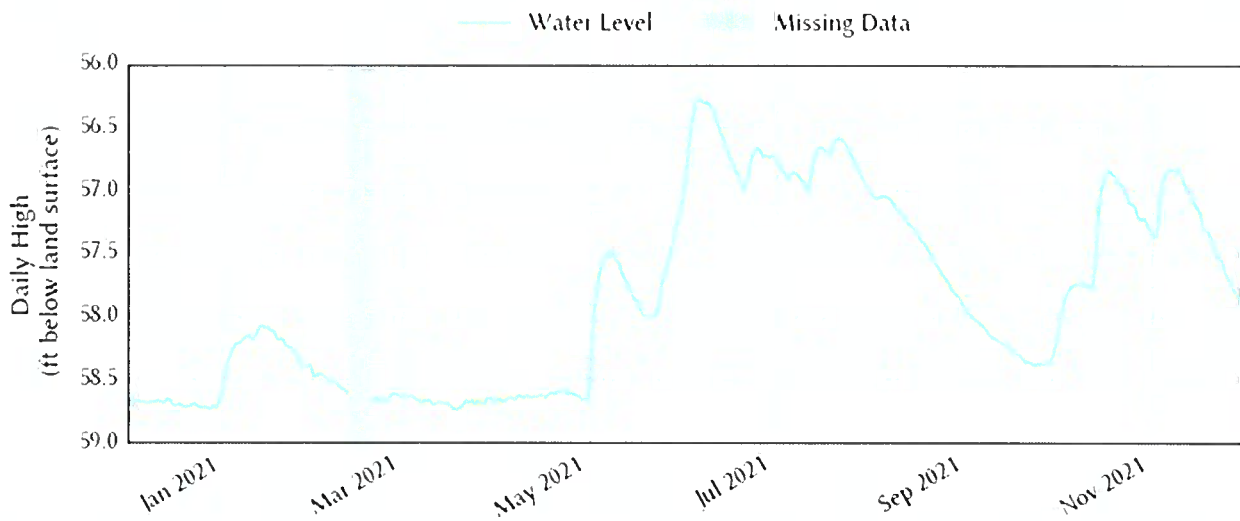
December 2021

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

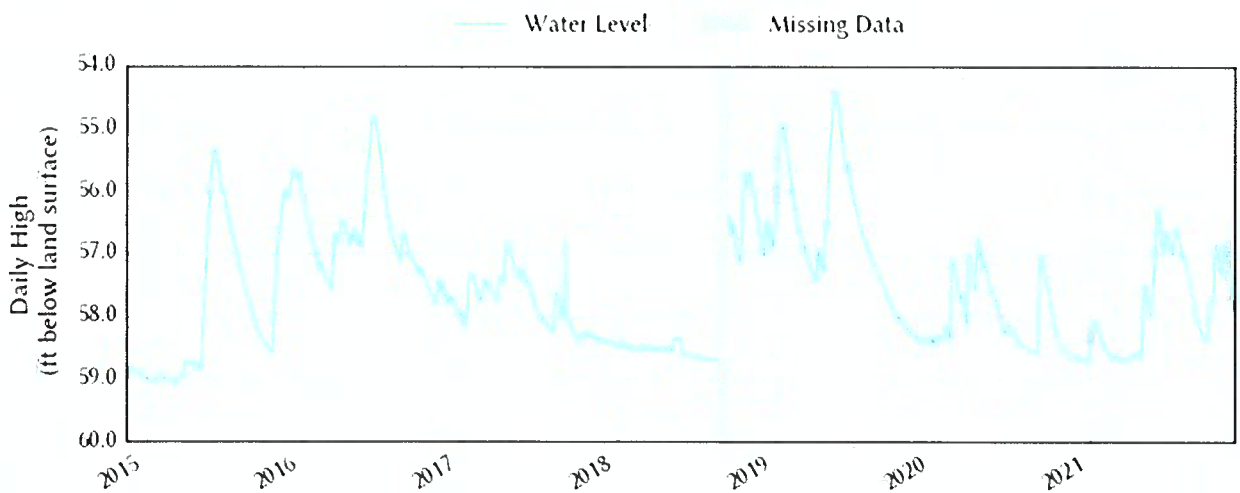
Last 30 Days



1 Year



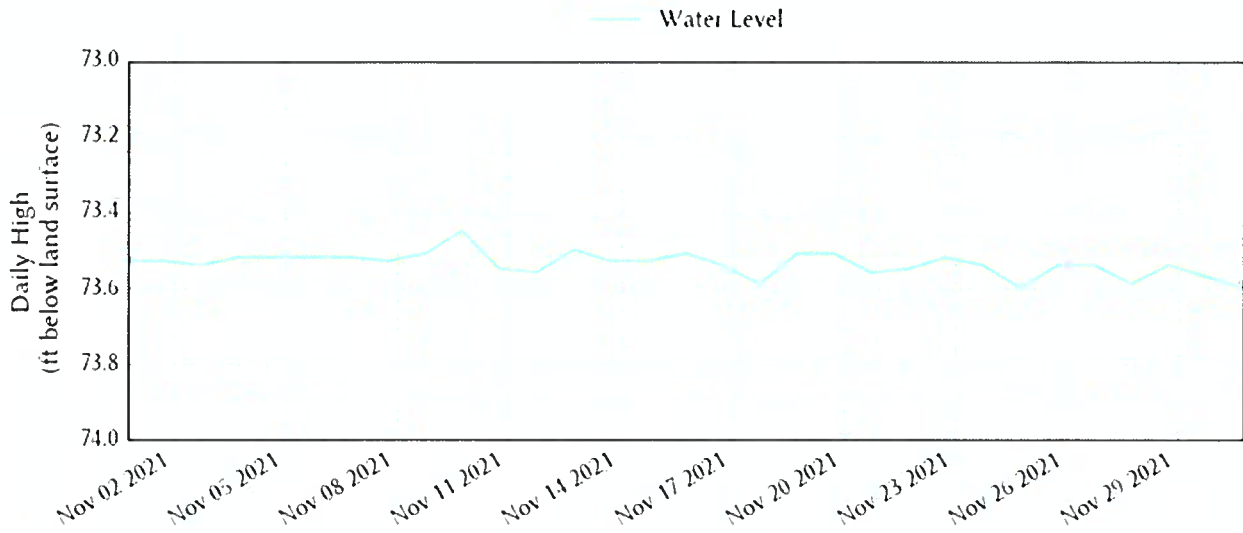
Period Of Record



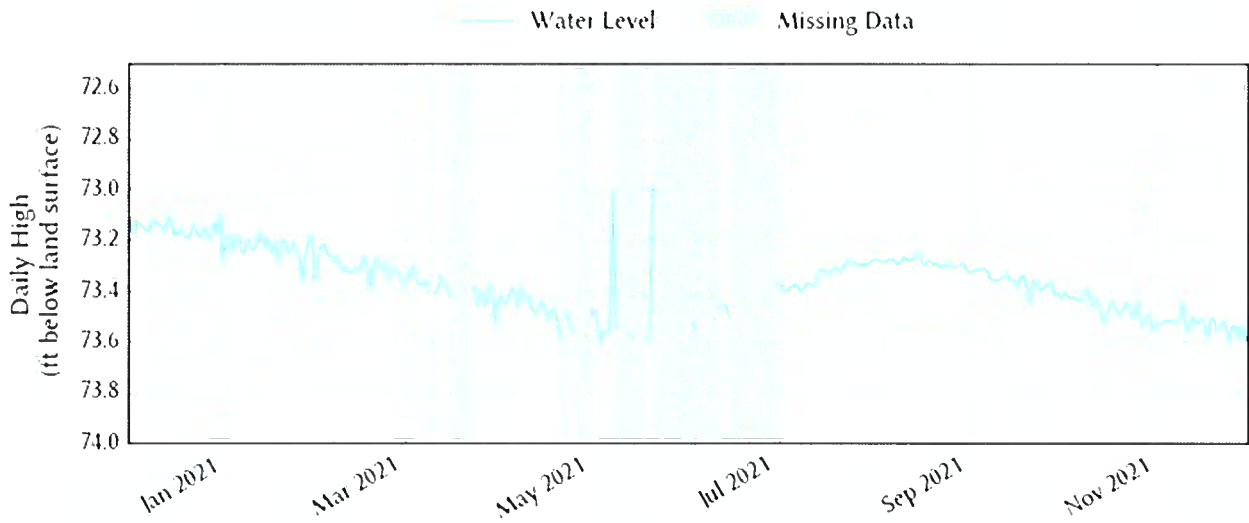
December 2021

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

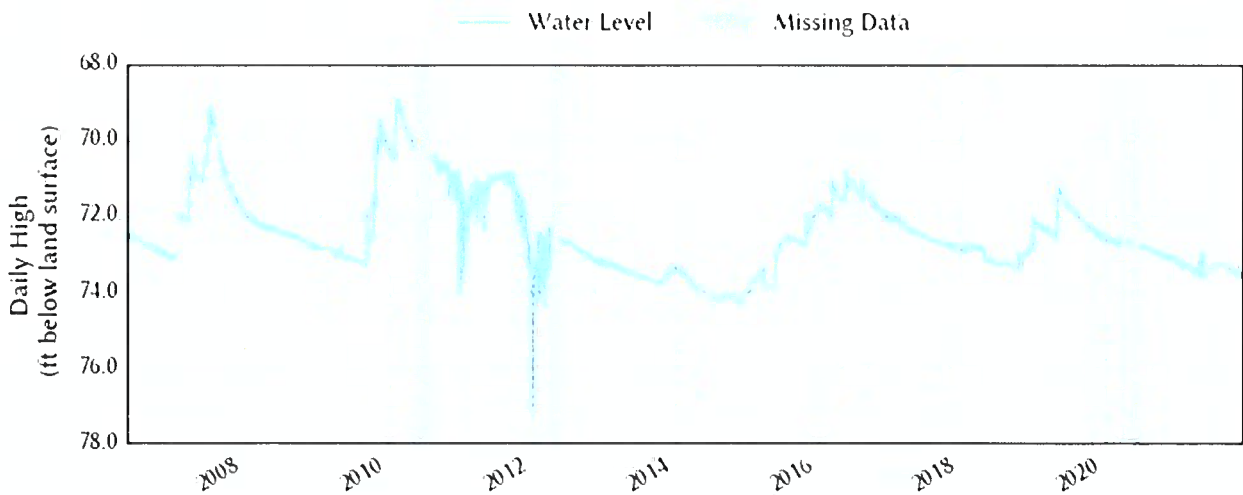
Last 30 Days



1 Year



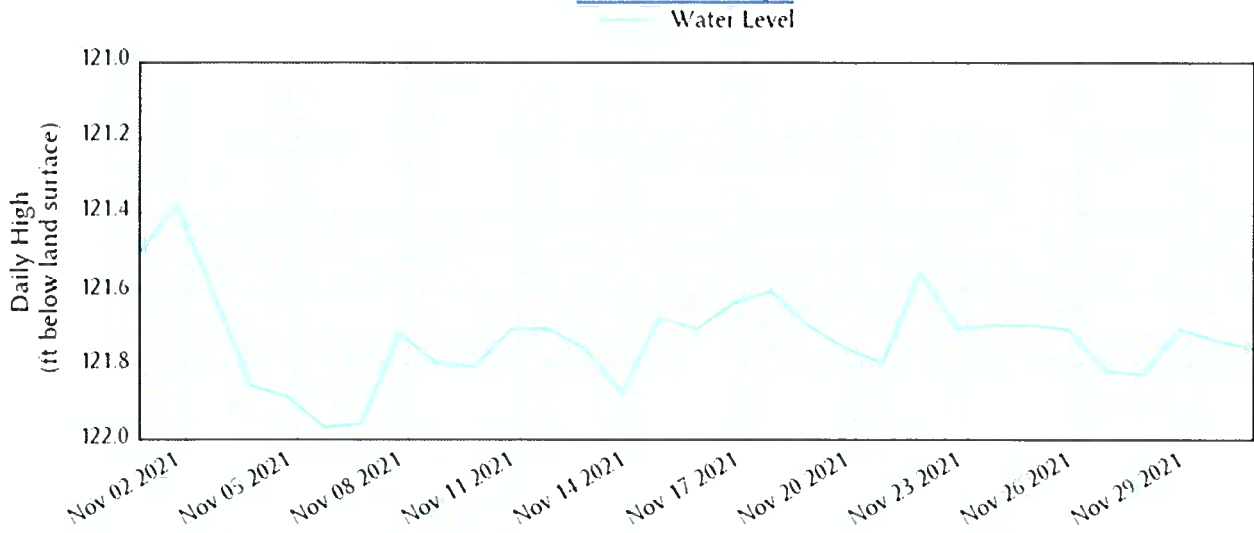
Period Of Record



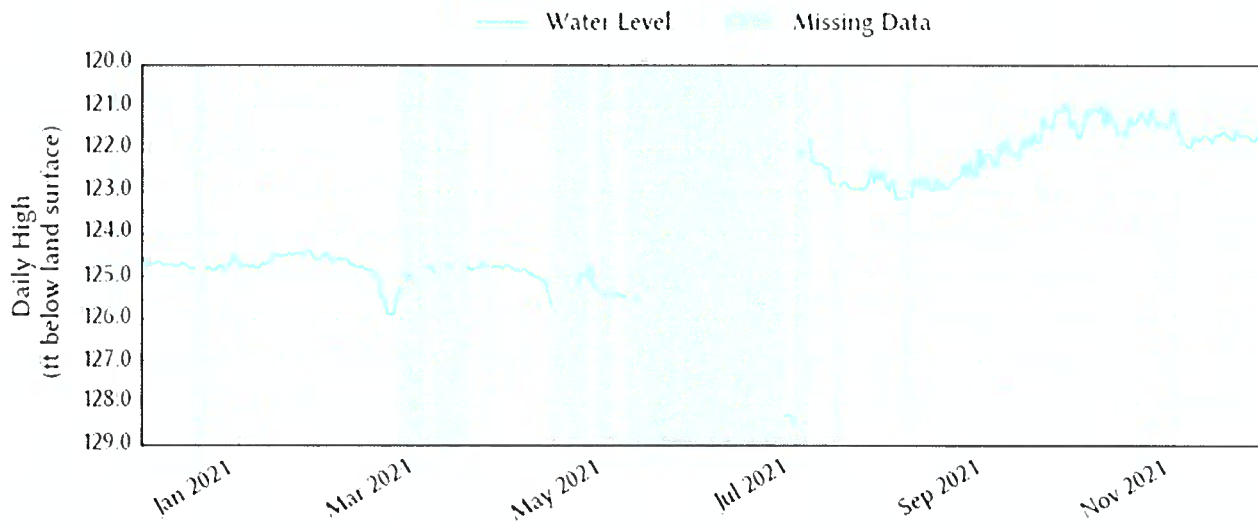
December 2021

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

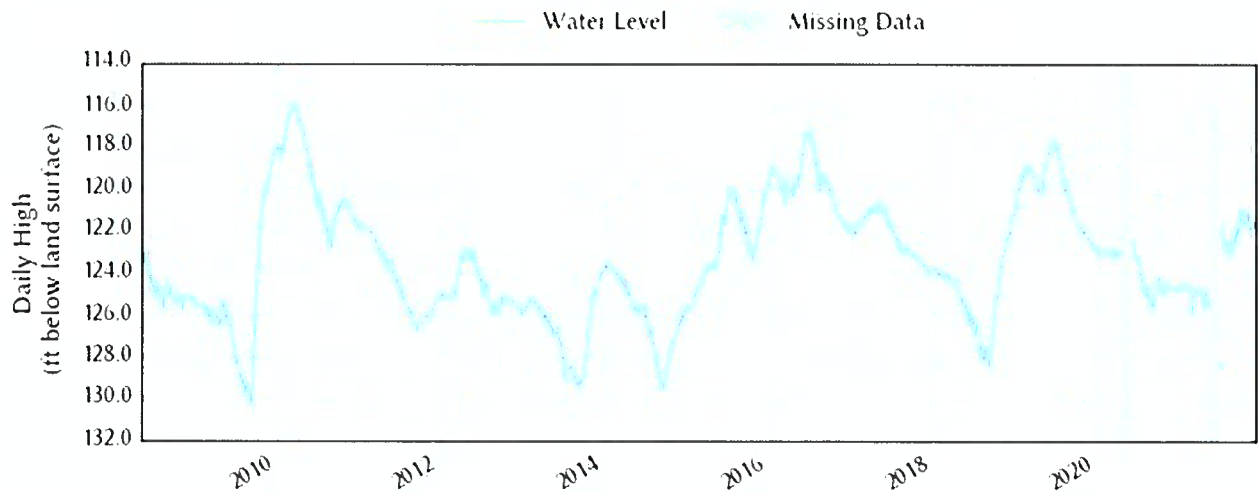
Last 30 Days



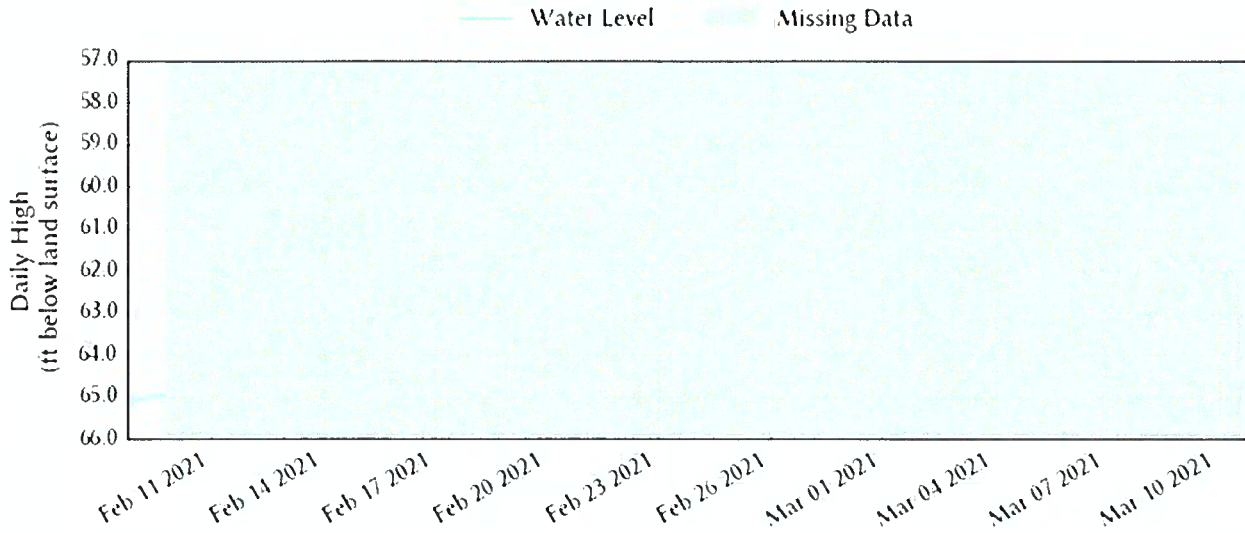
1 Year



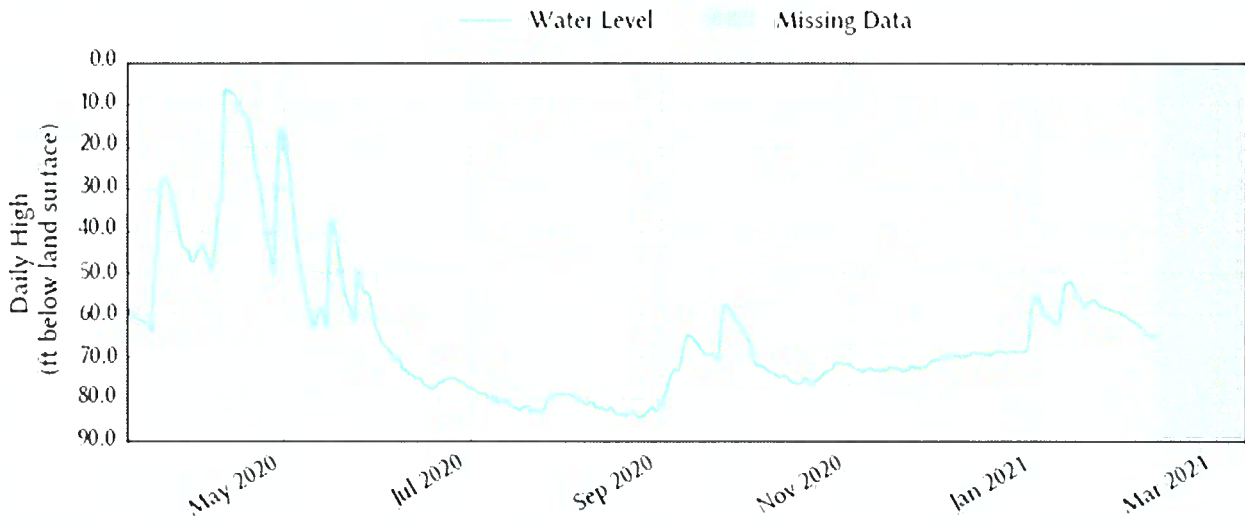
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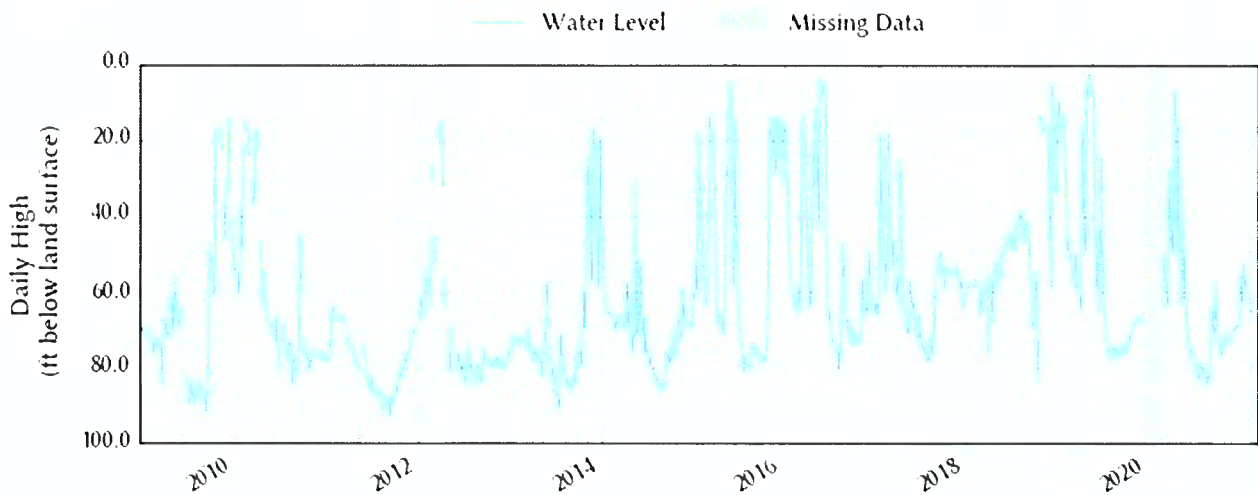
Last 30 Days



1 Year



Period Of Record

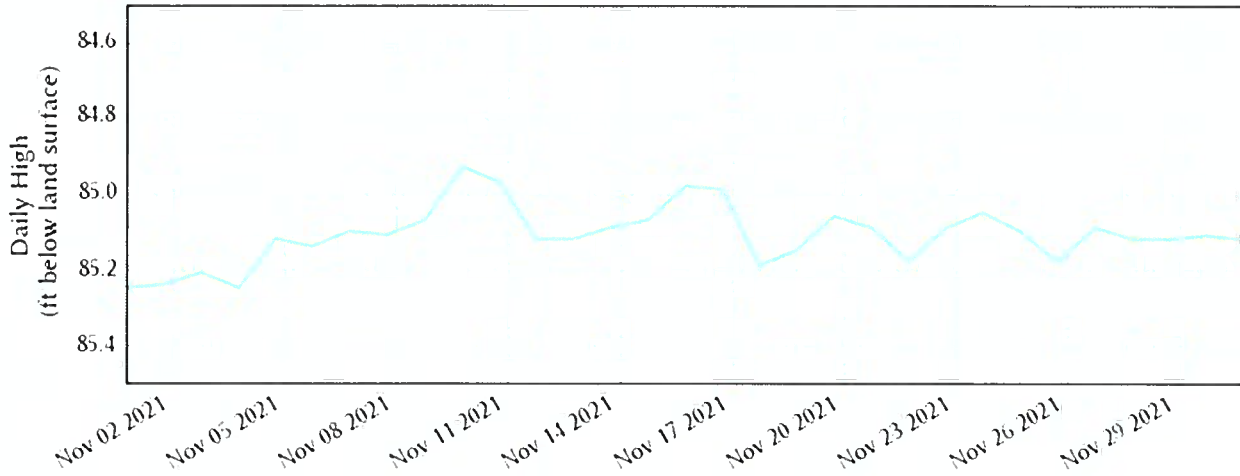


December 2021

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

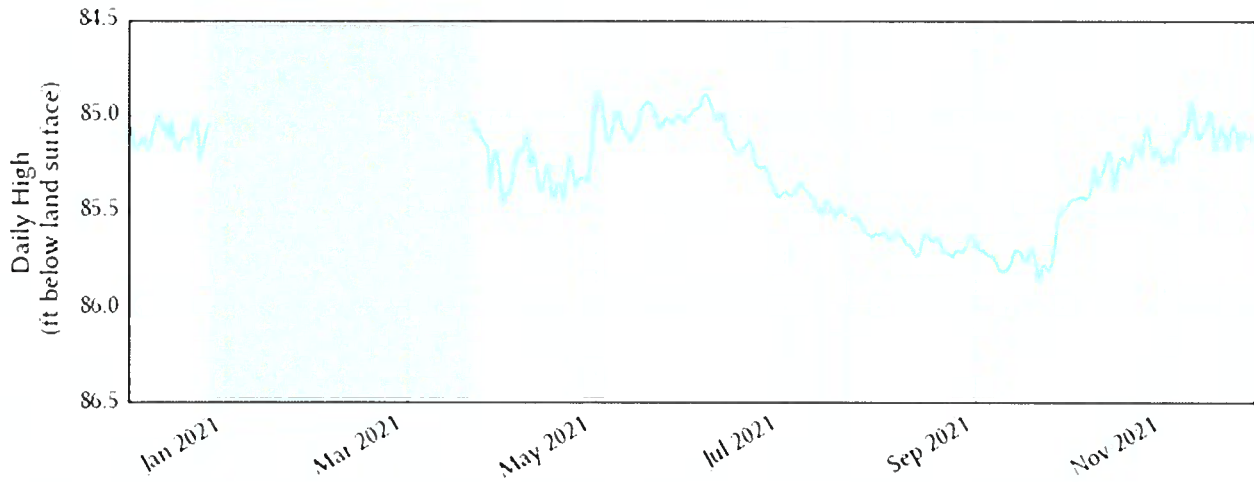
Last 30 Days

Water Level



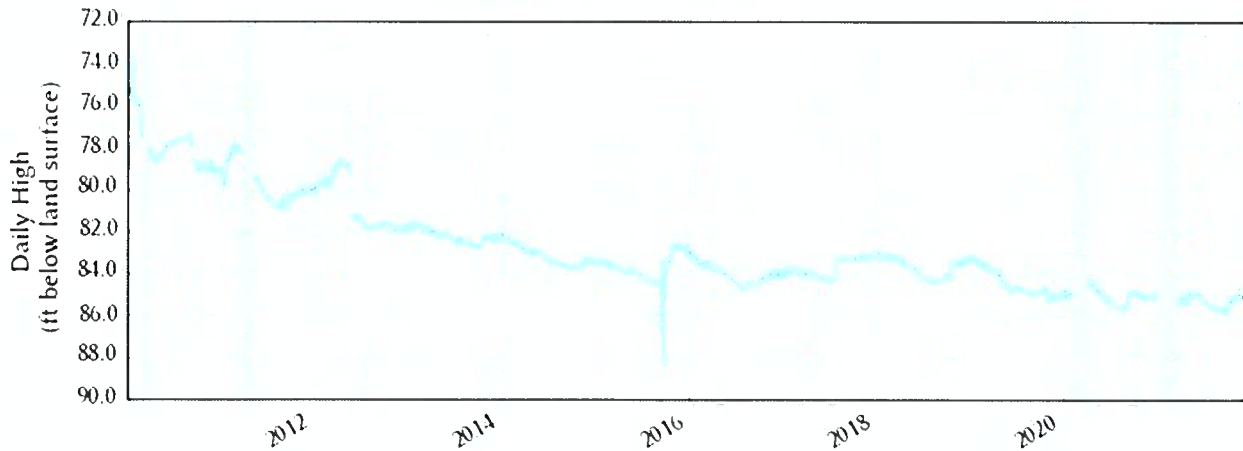
1 Year

Water Level Missing Data



Period Of Record

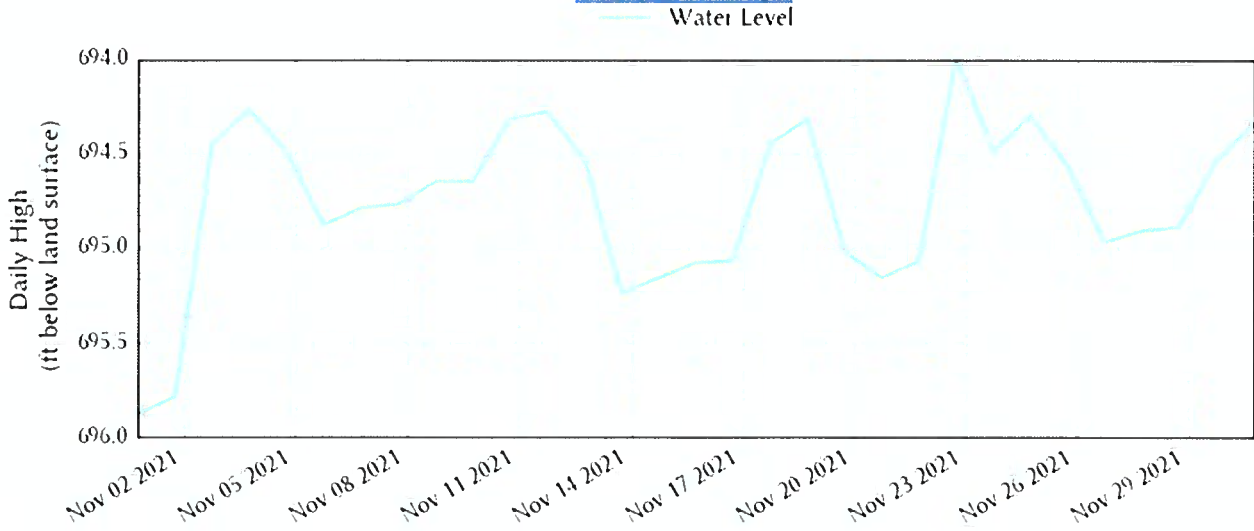
Water Level Missing Data



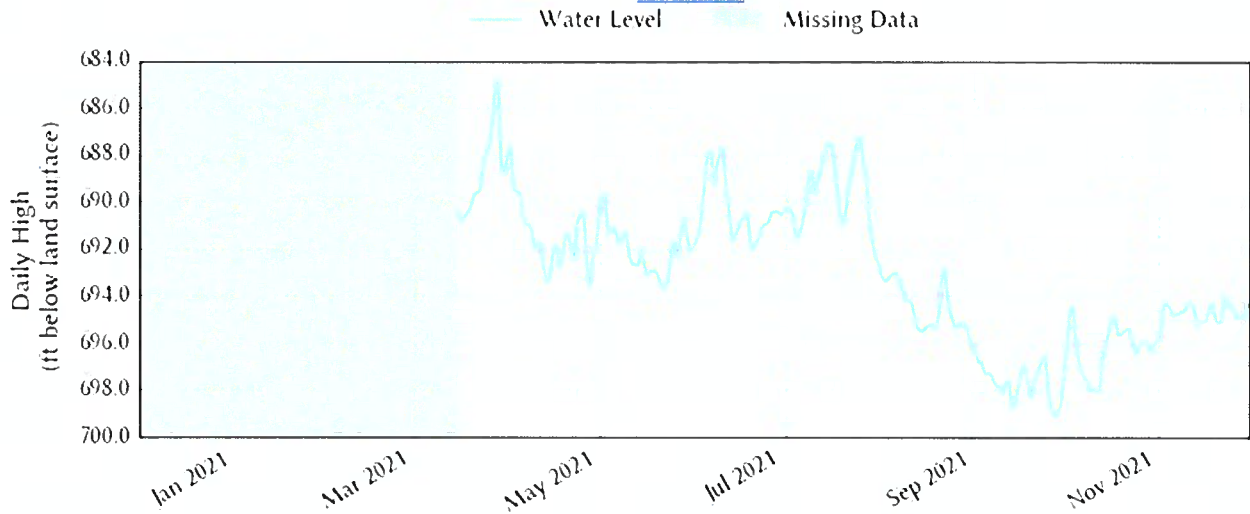
December 2021

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

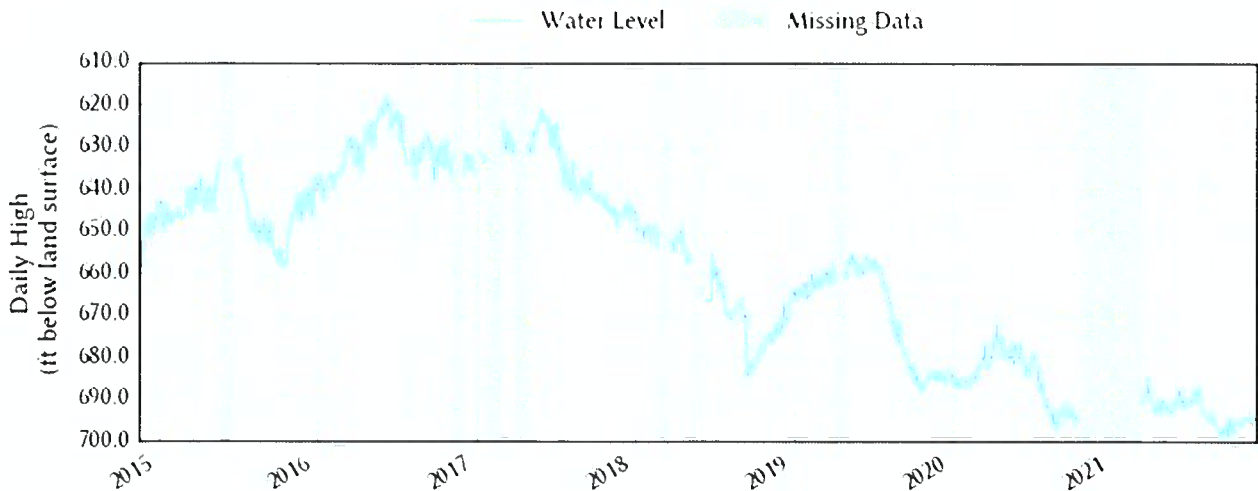
Last 30 Days



1 Year

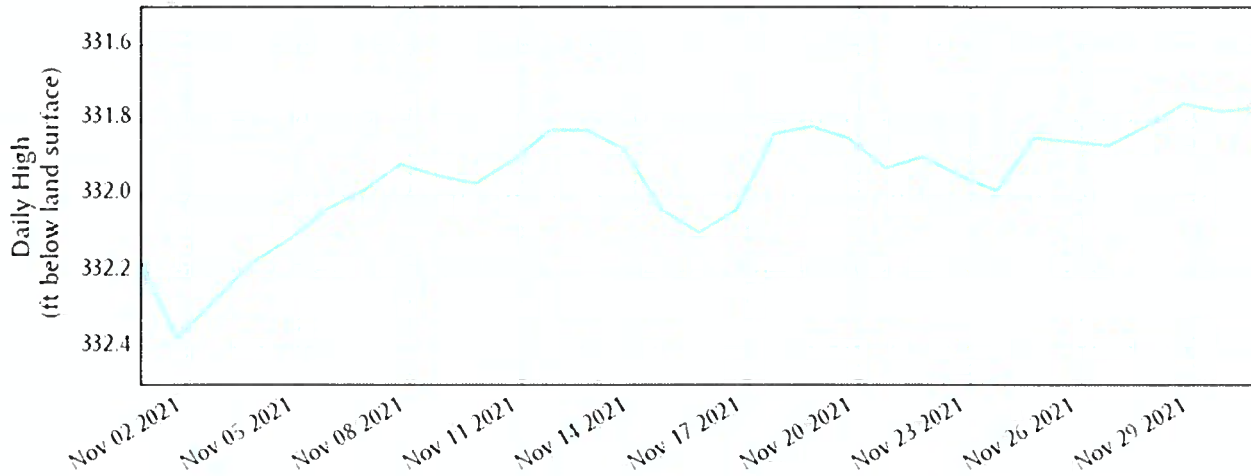


Period Of Record



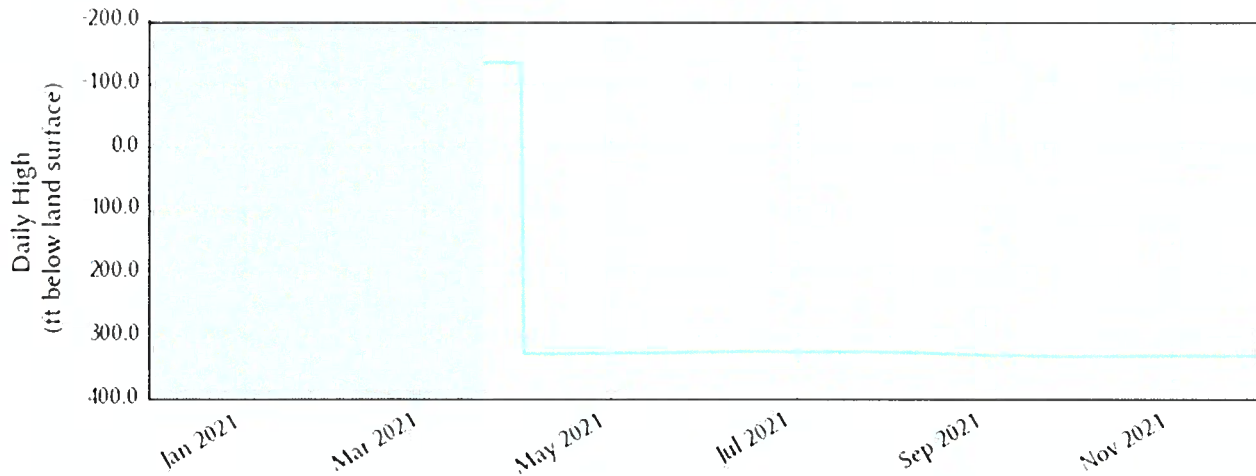
Last 30 Days

Water Level



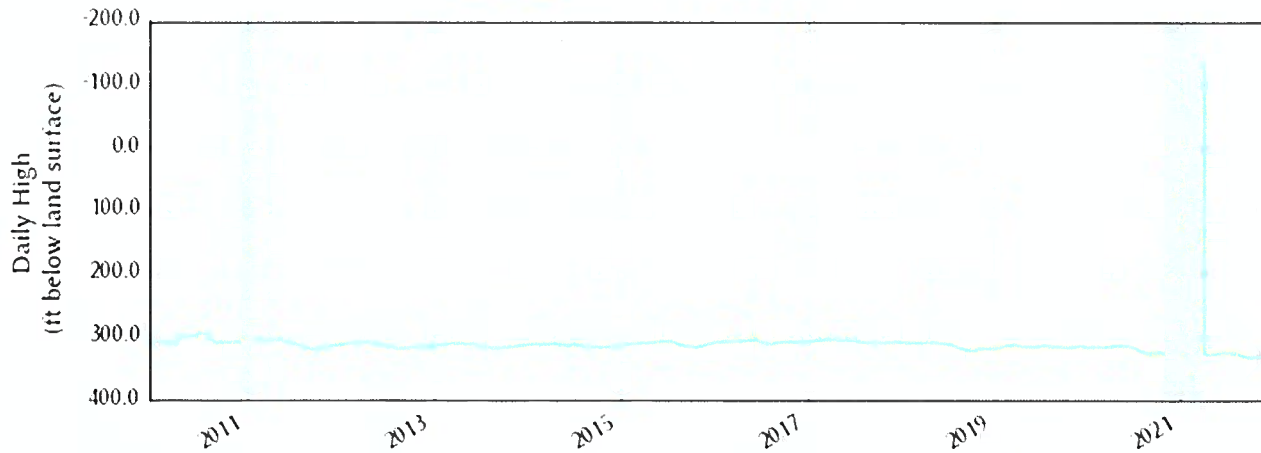
1 Year

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Period Of Record

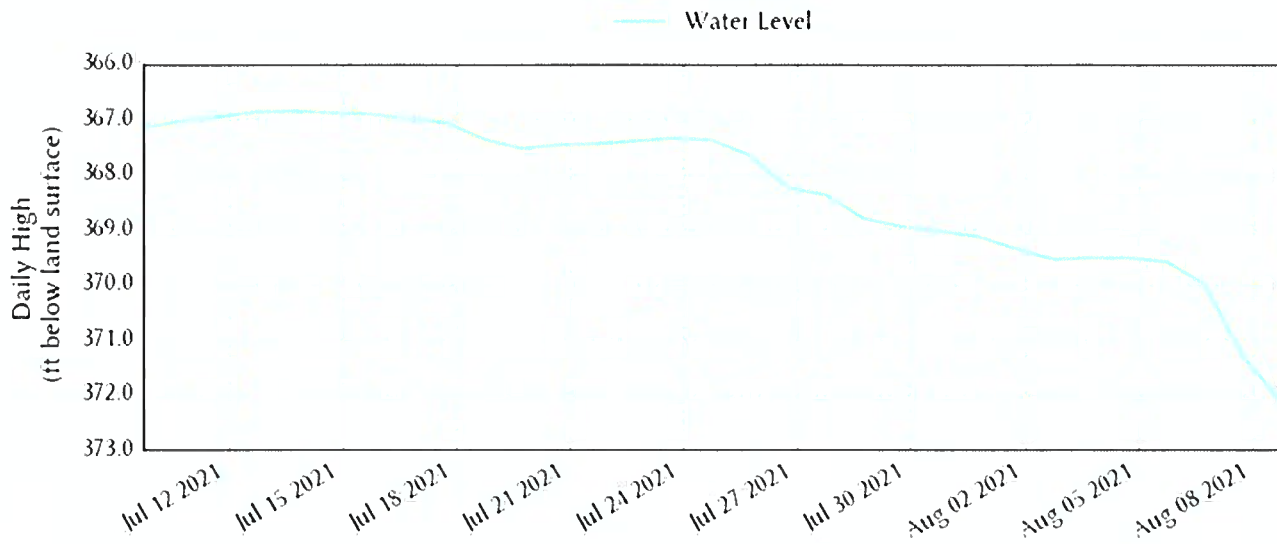
Water Level Missing Data



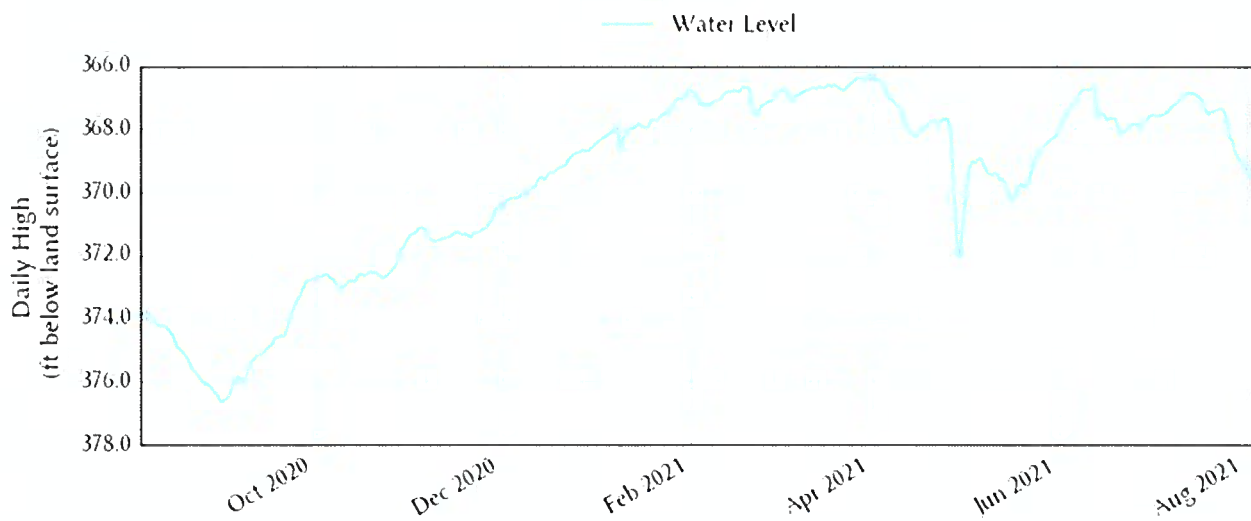
December 2021

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

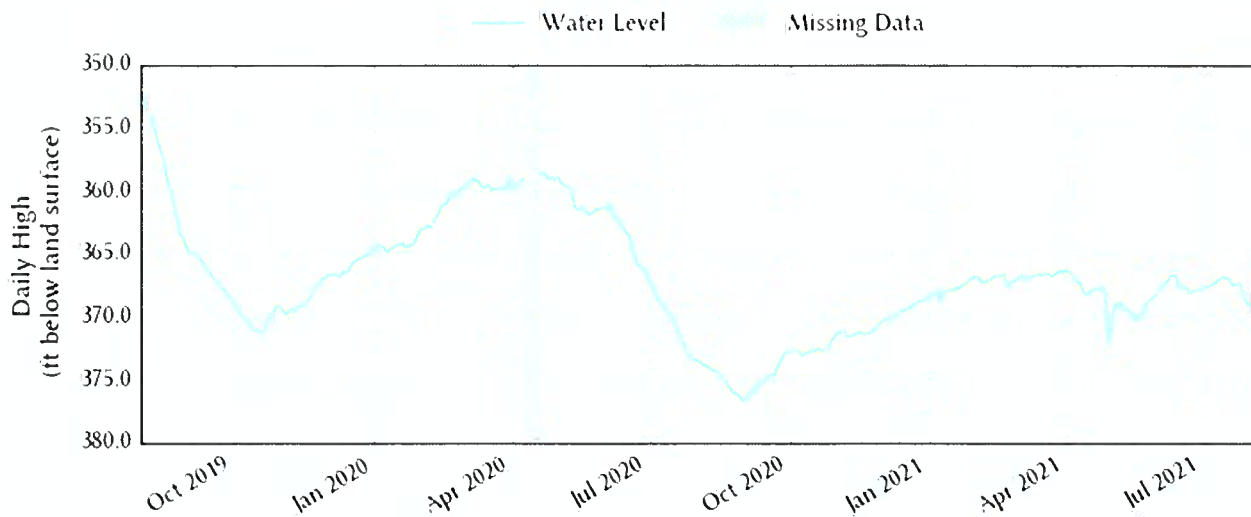
Last 30 Days



1 Year



Period Of Record

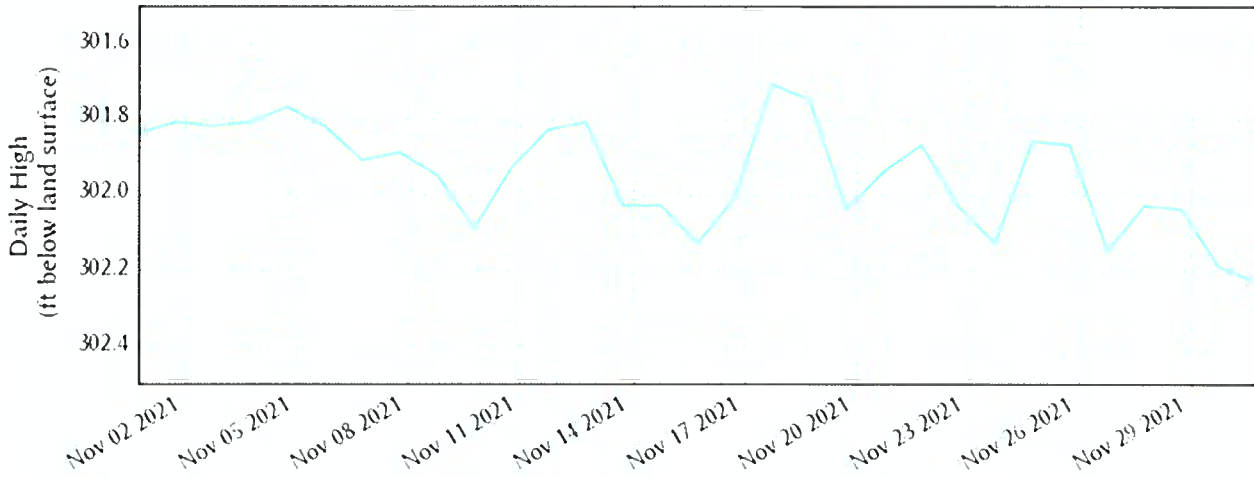


December 2021

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

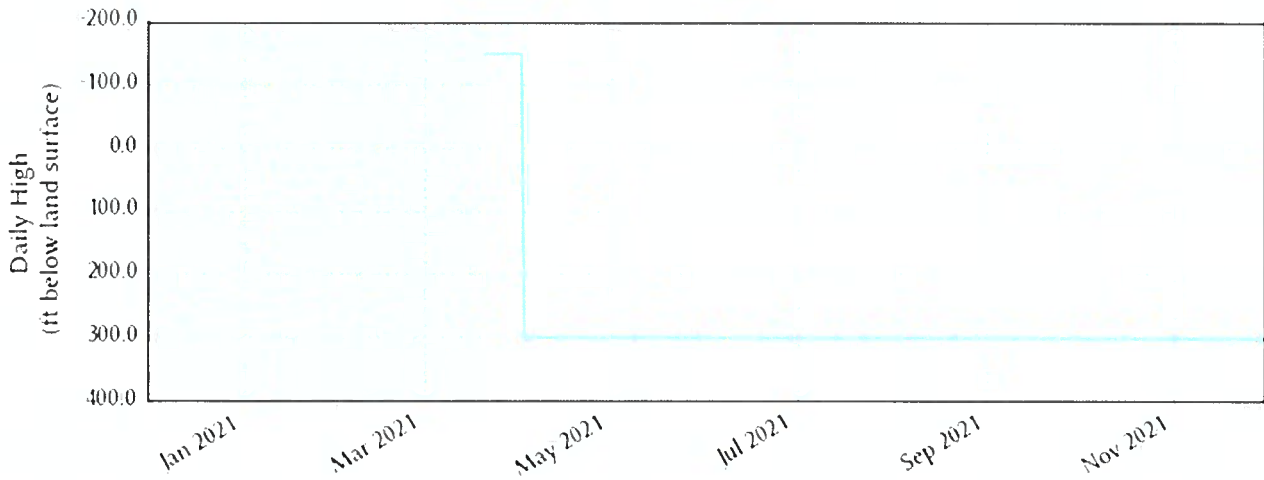
Last 30 Days

Water Level



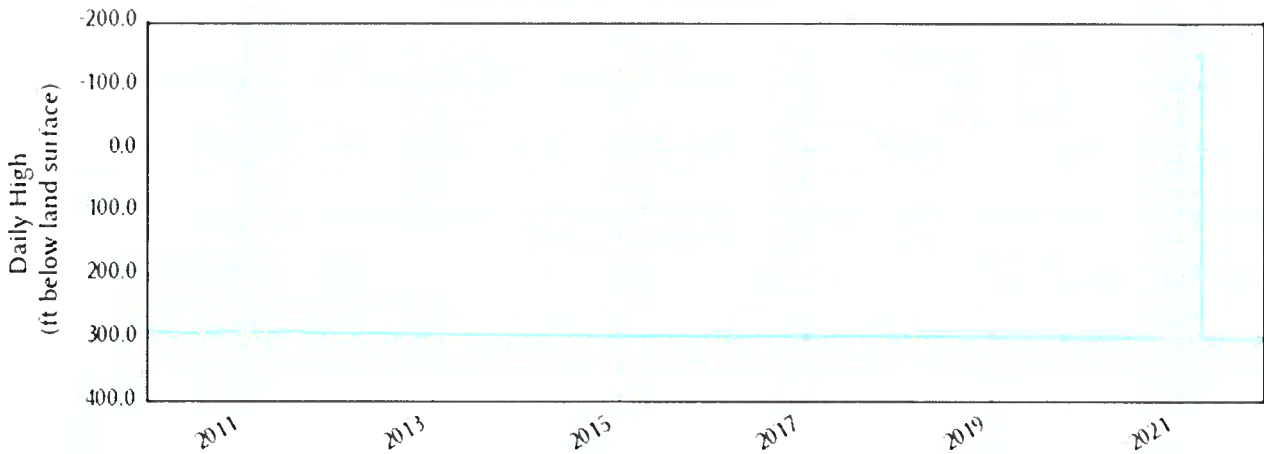
1 Year

Water Level Missing Data



Period Of Record

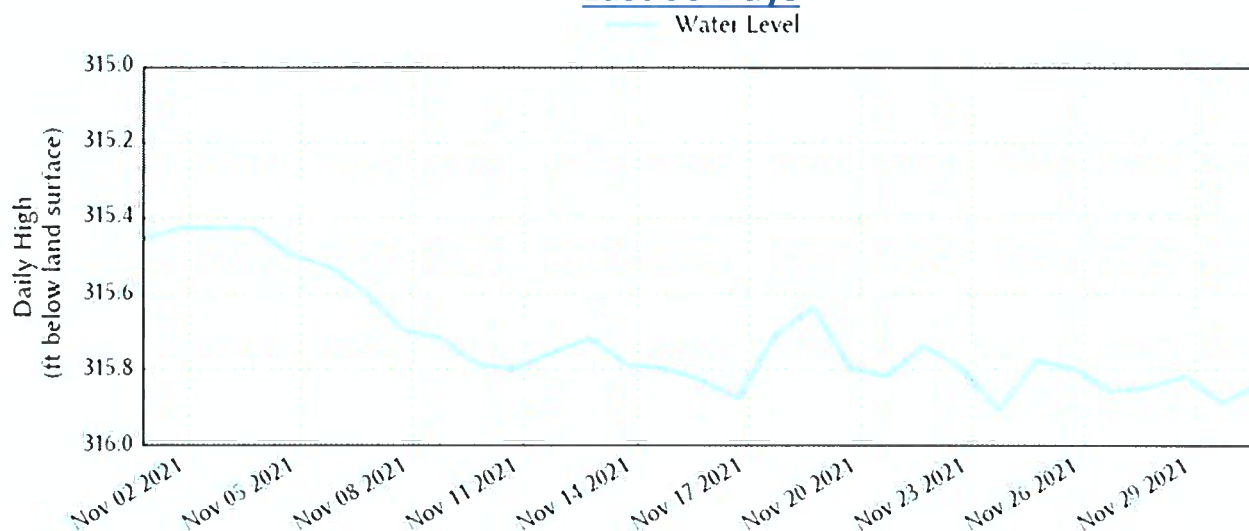
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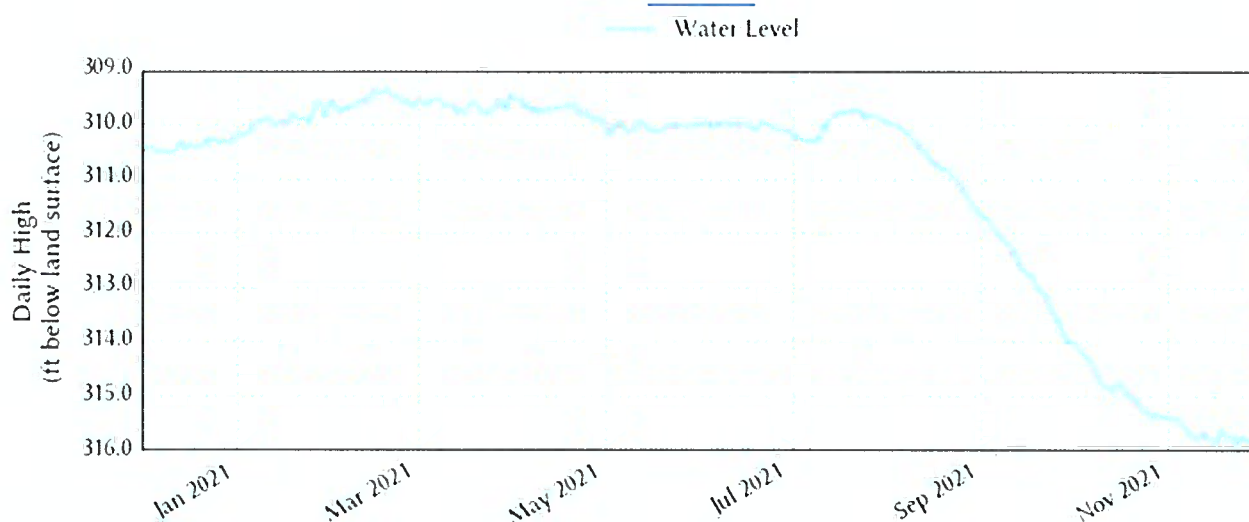
December 2021

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

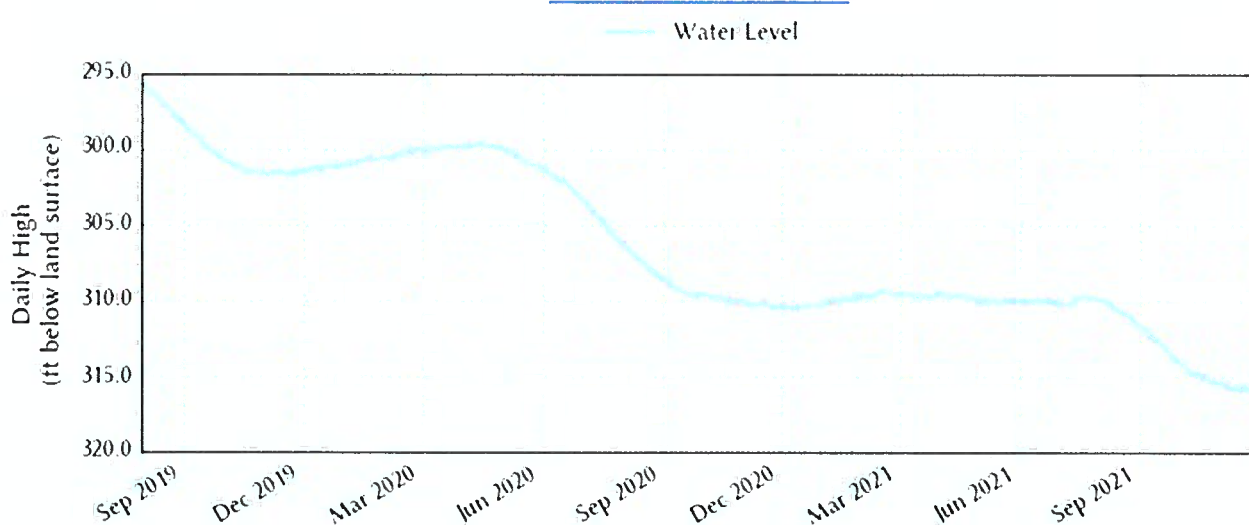
Last 30 Days



1 Year



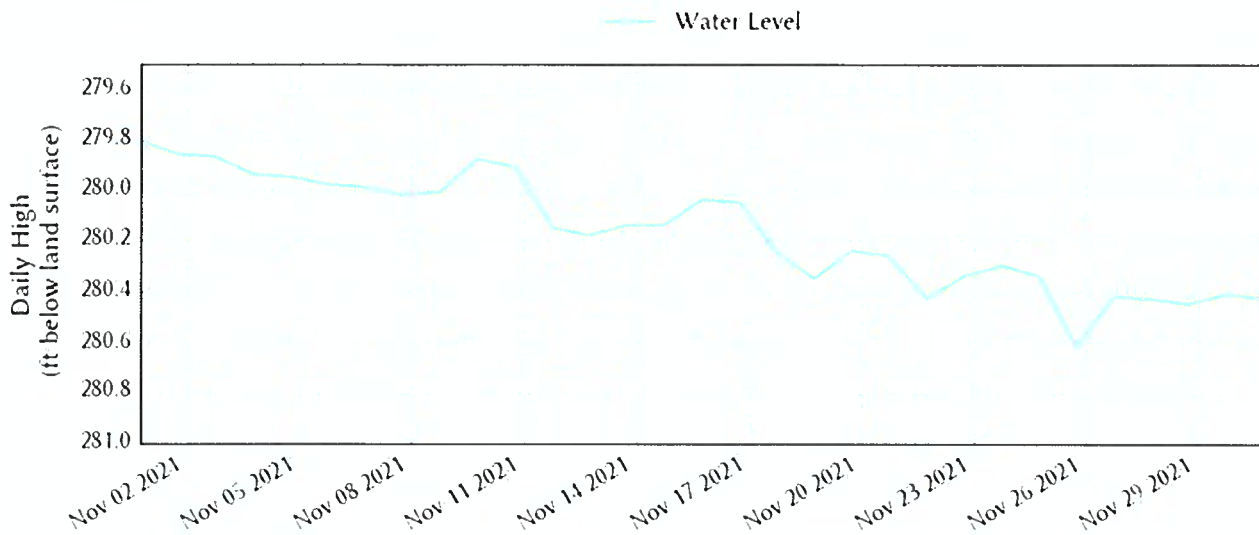
Period Of Record



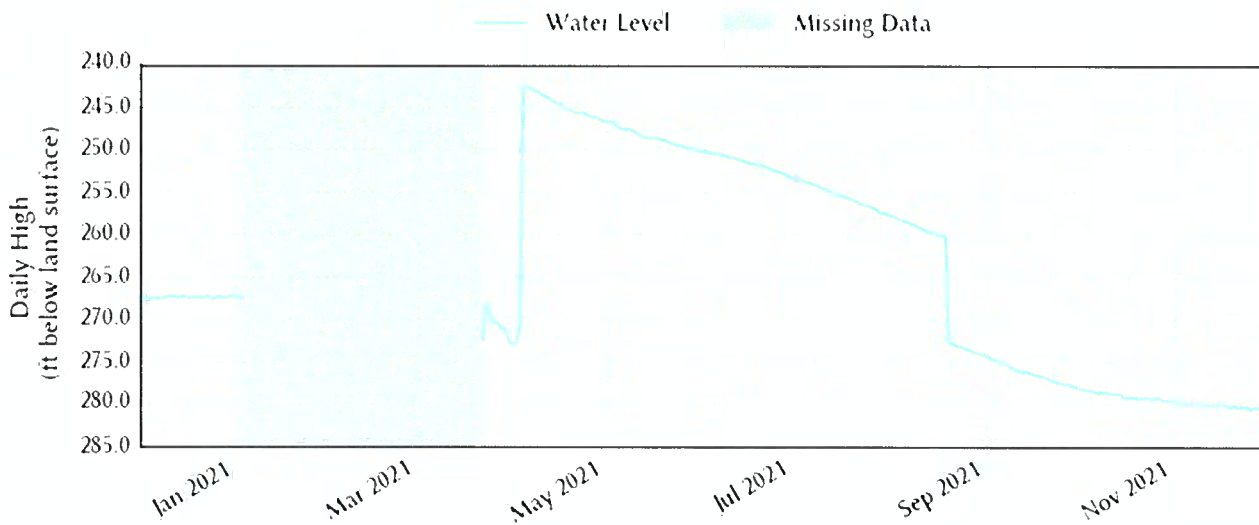
December 2021

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

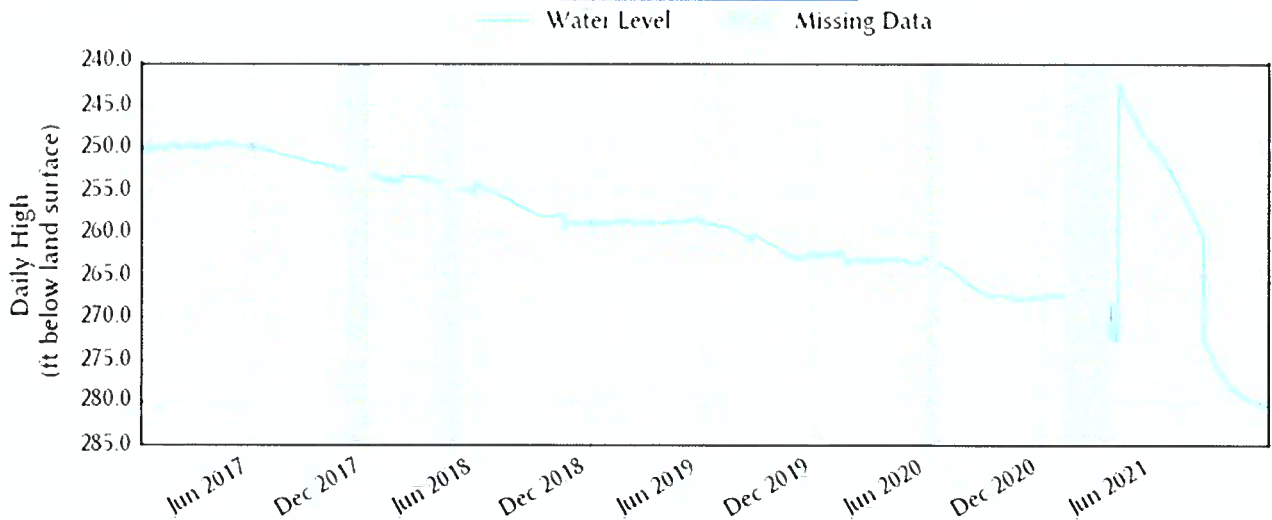
Last 30 Days



1 Year



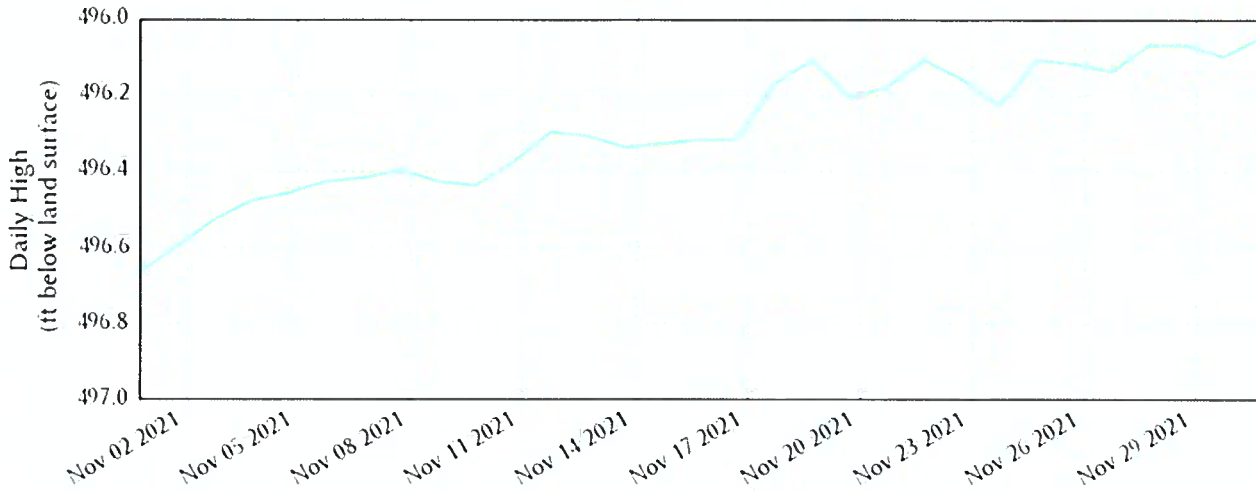
Period Of Record



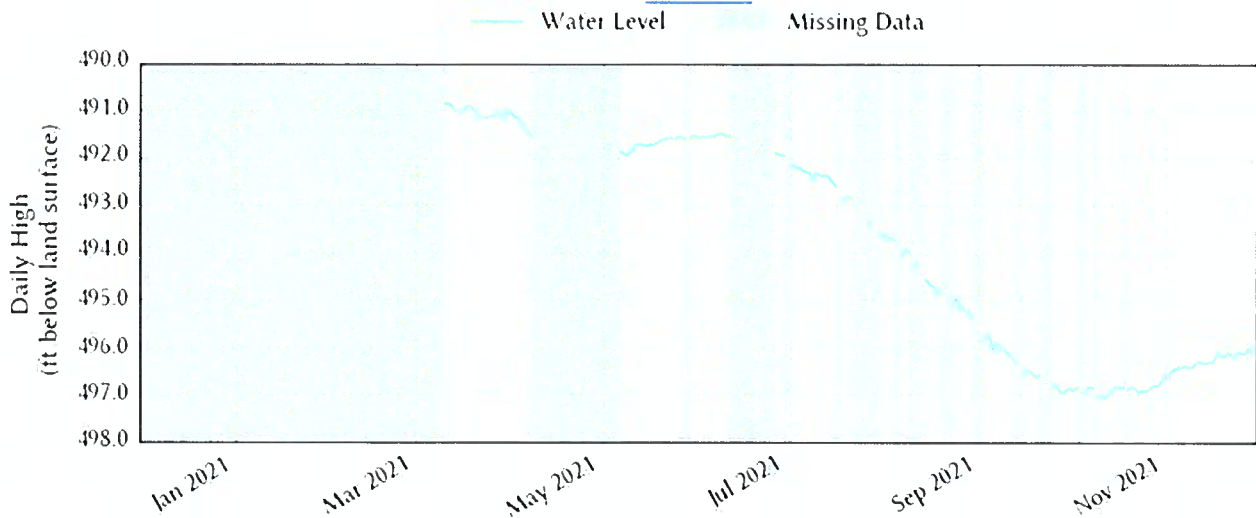
December 2021

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

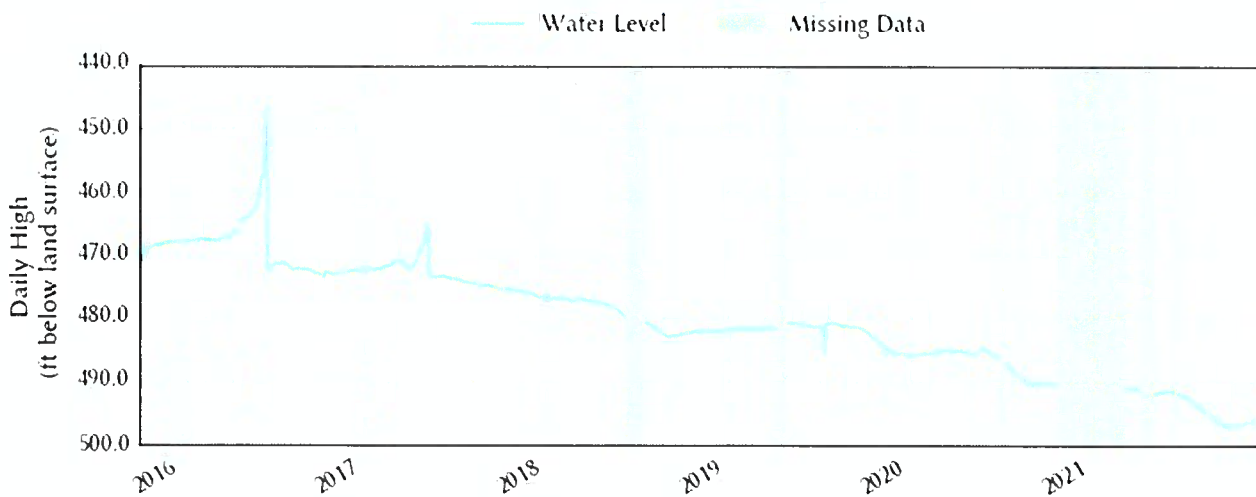
Last 30 Days
Water Level



1 Year

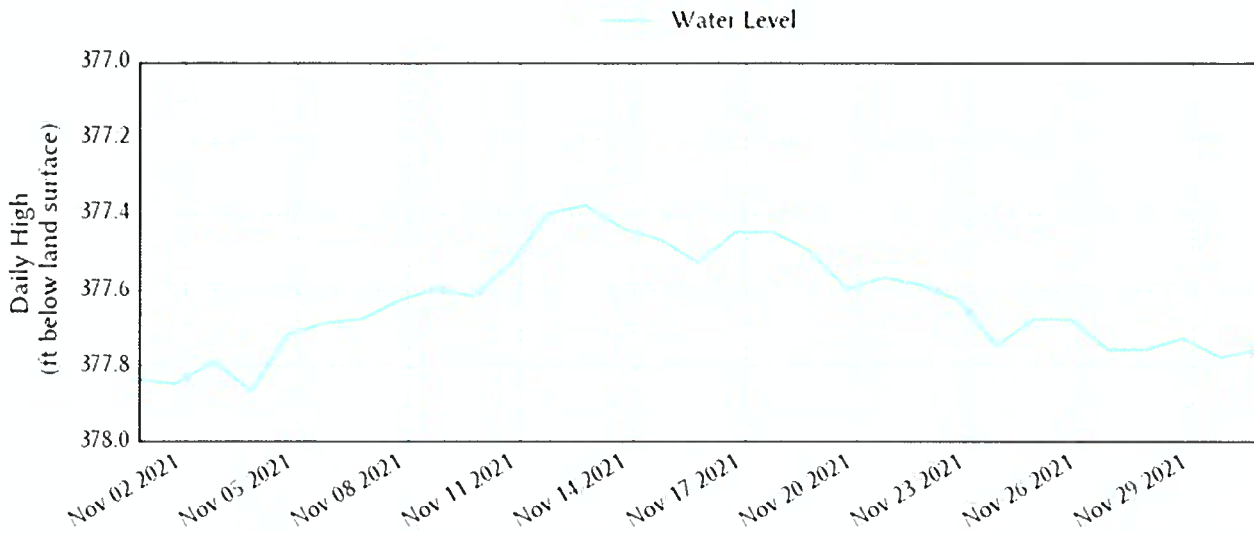


Period Of Record

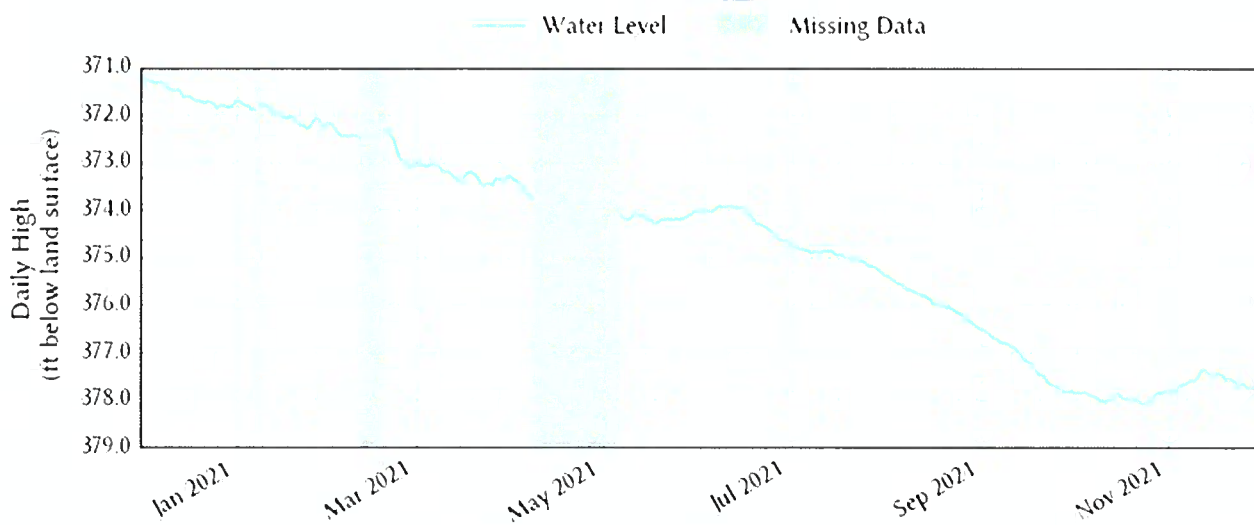


**Continuous Monitoring Well # 4062501
(Temple - Acres Well)
Lower Trinity Aquifer**

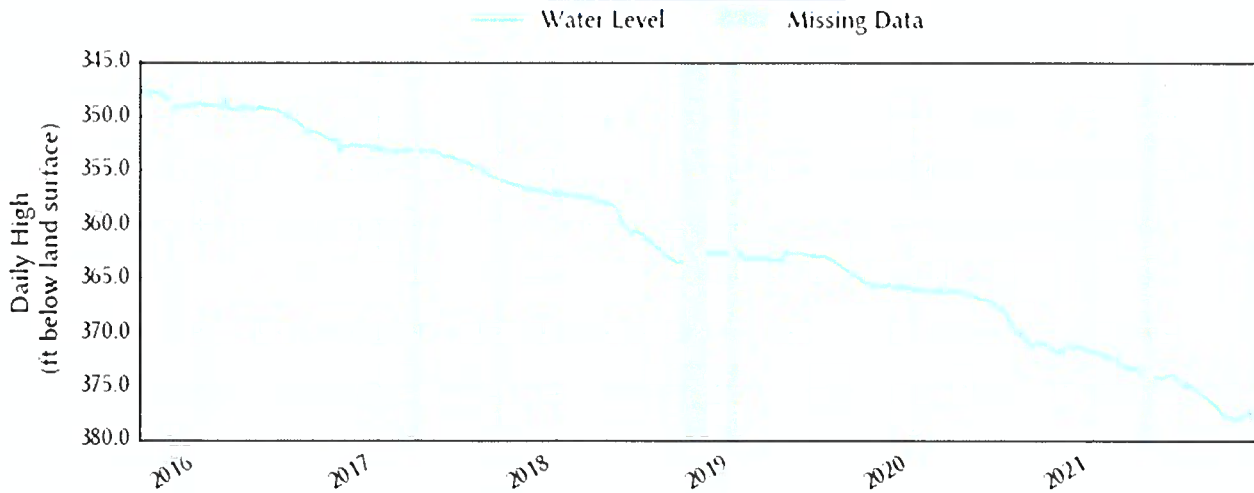
Last 30 Days



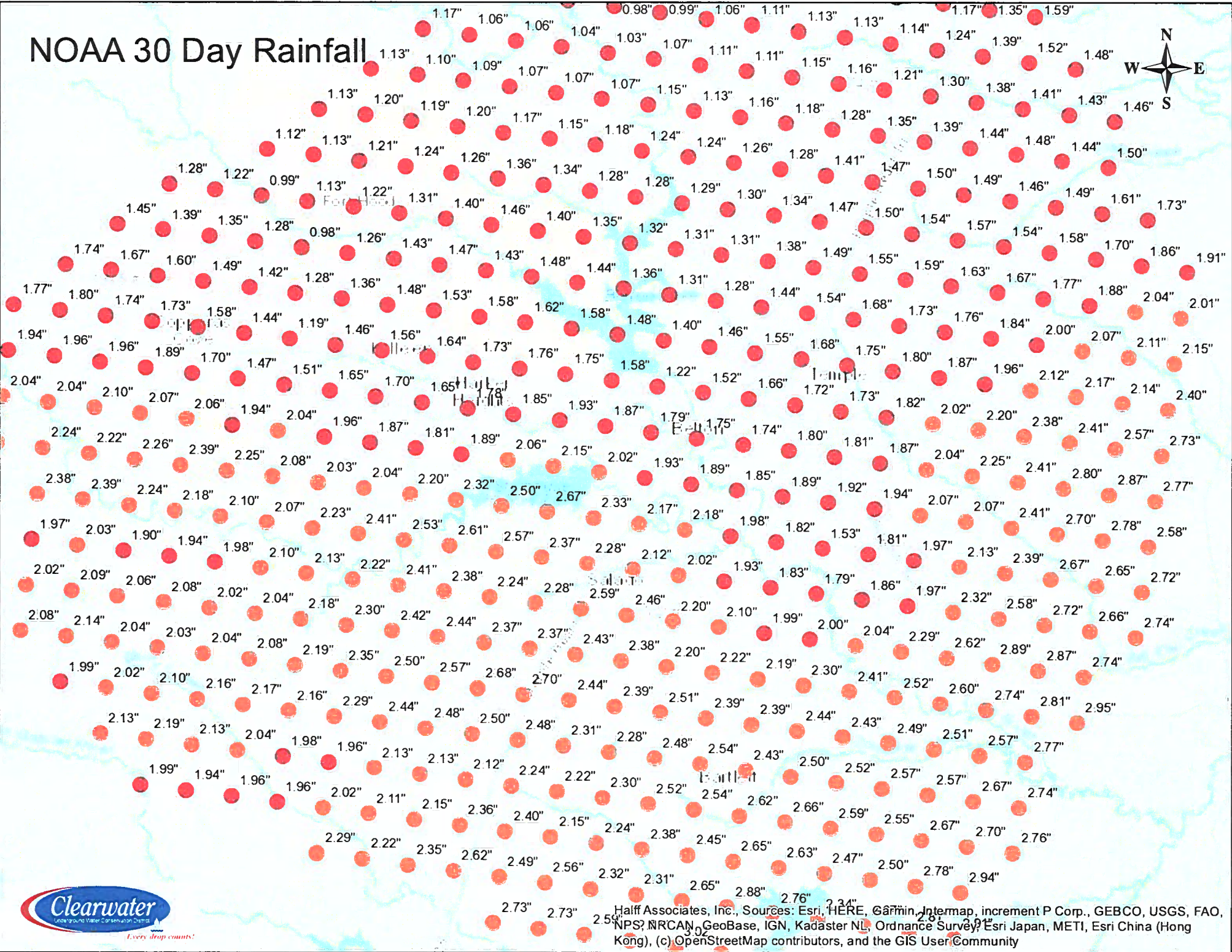
1 Year



Period Of Record

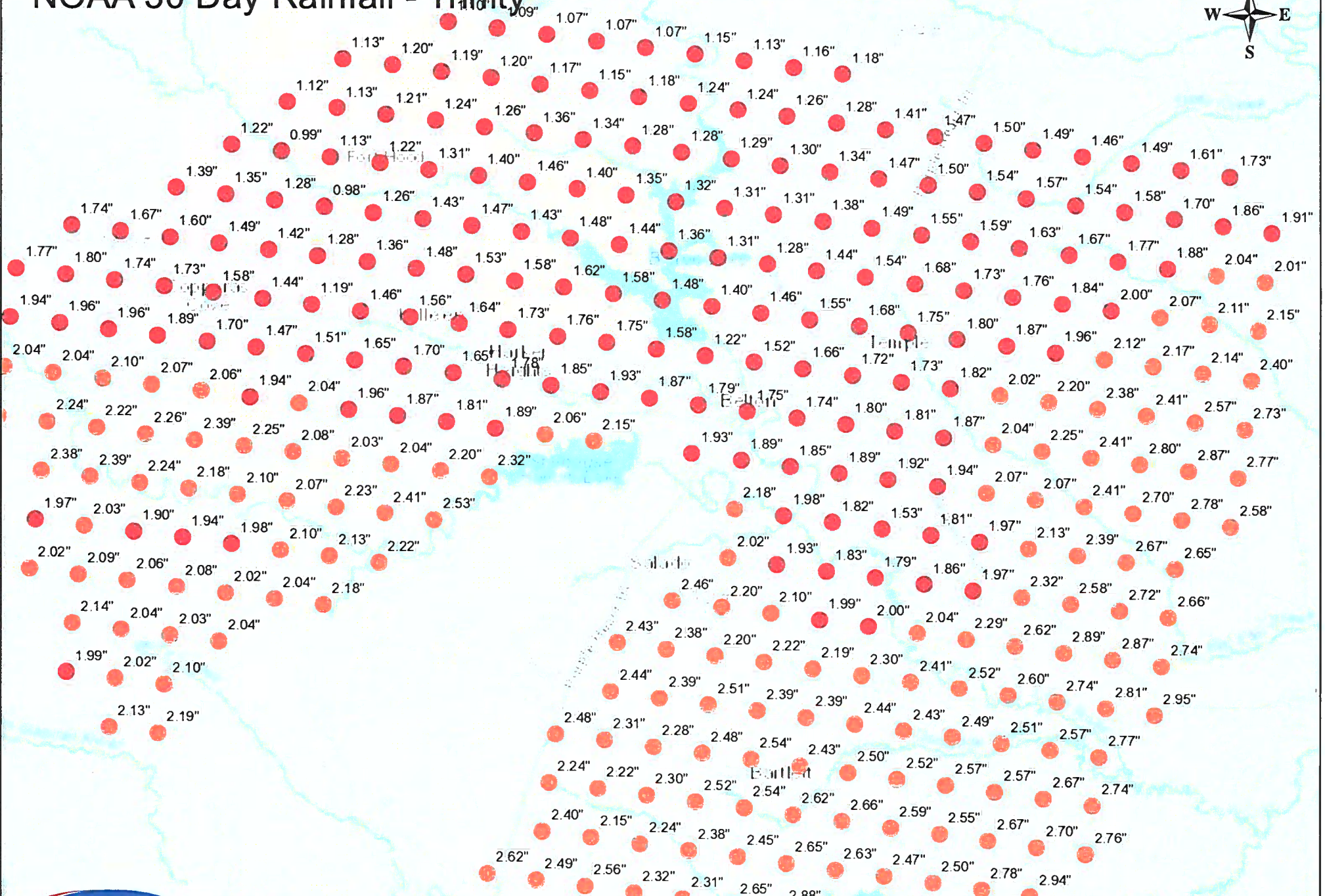


NOAA 30 Day Rainfall



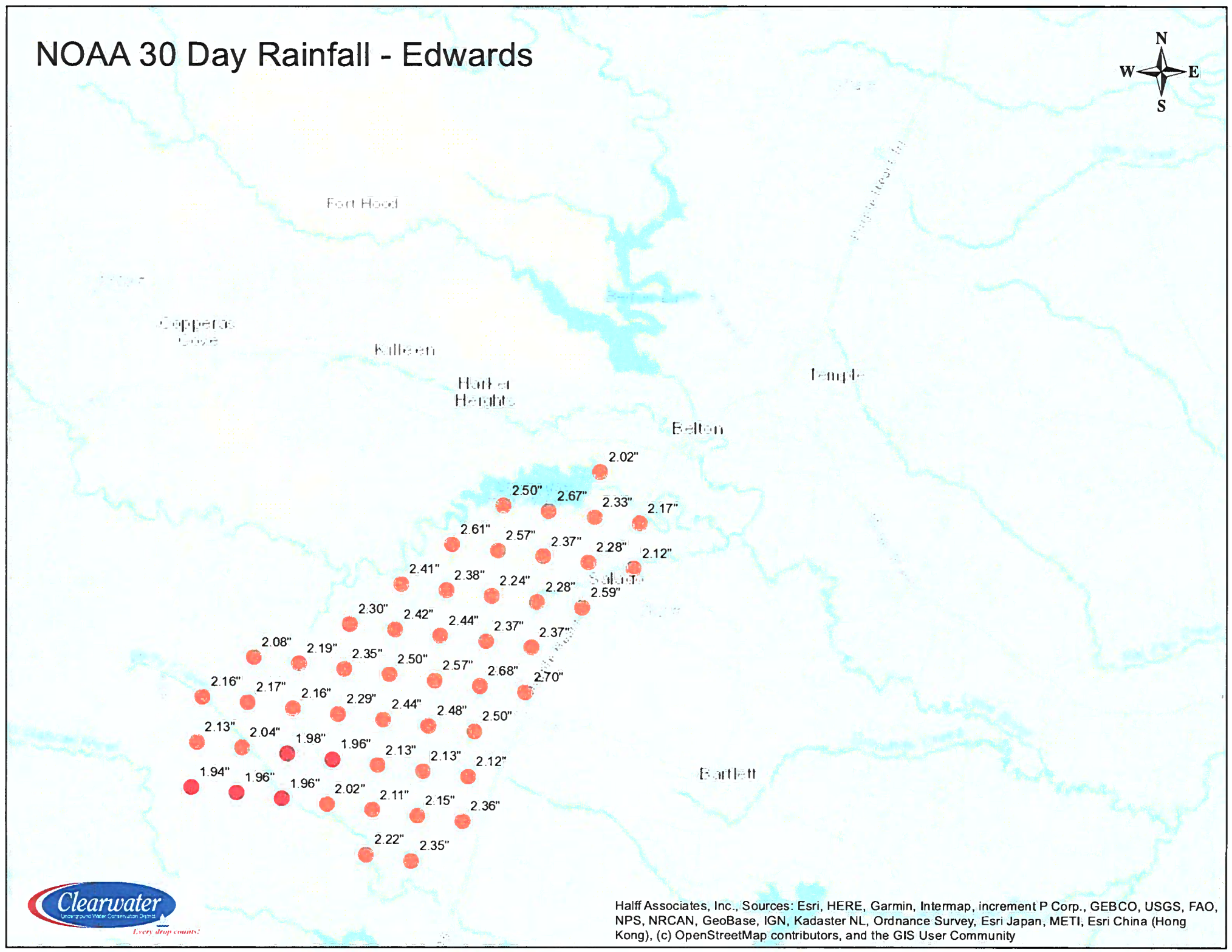
Half Associates, Inc., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

NOAA 30 Day Rainfall - Trinity



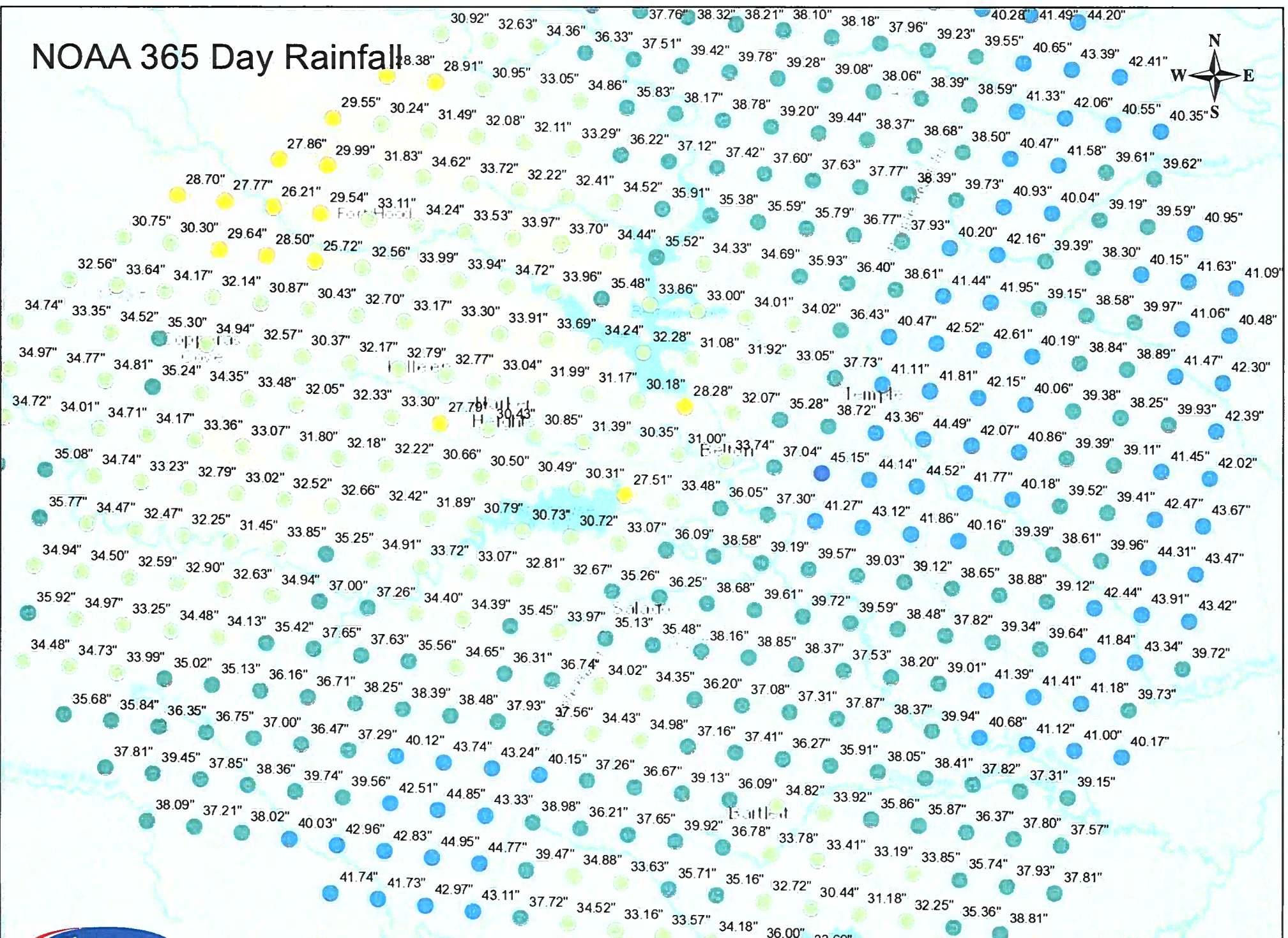
Half Associates, Inc., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

NOAA 30 Day Rainfall - Edwards



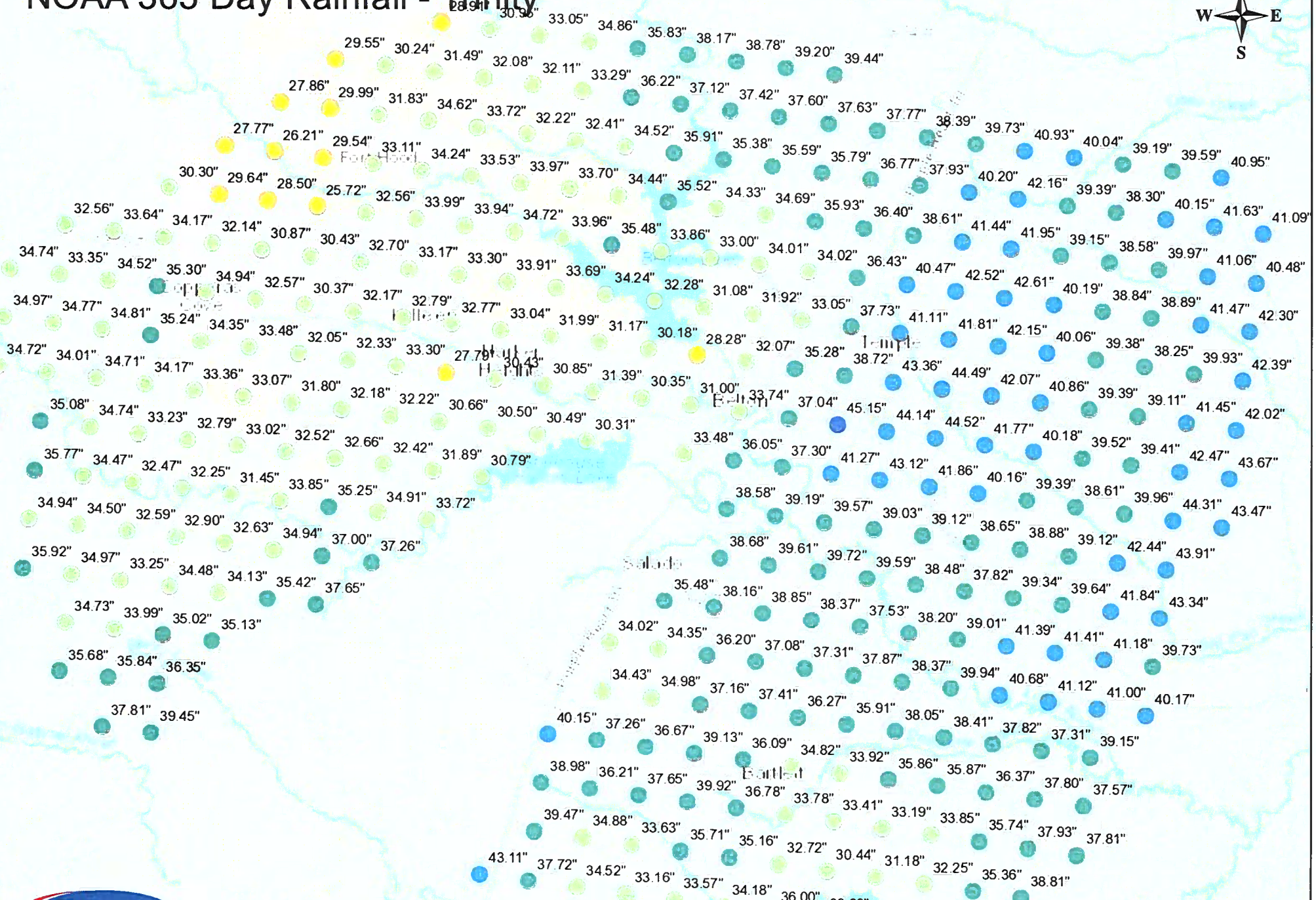
Half Associates, Inc., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

NOAA 365 Day Rainfall



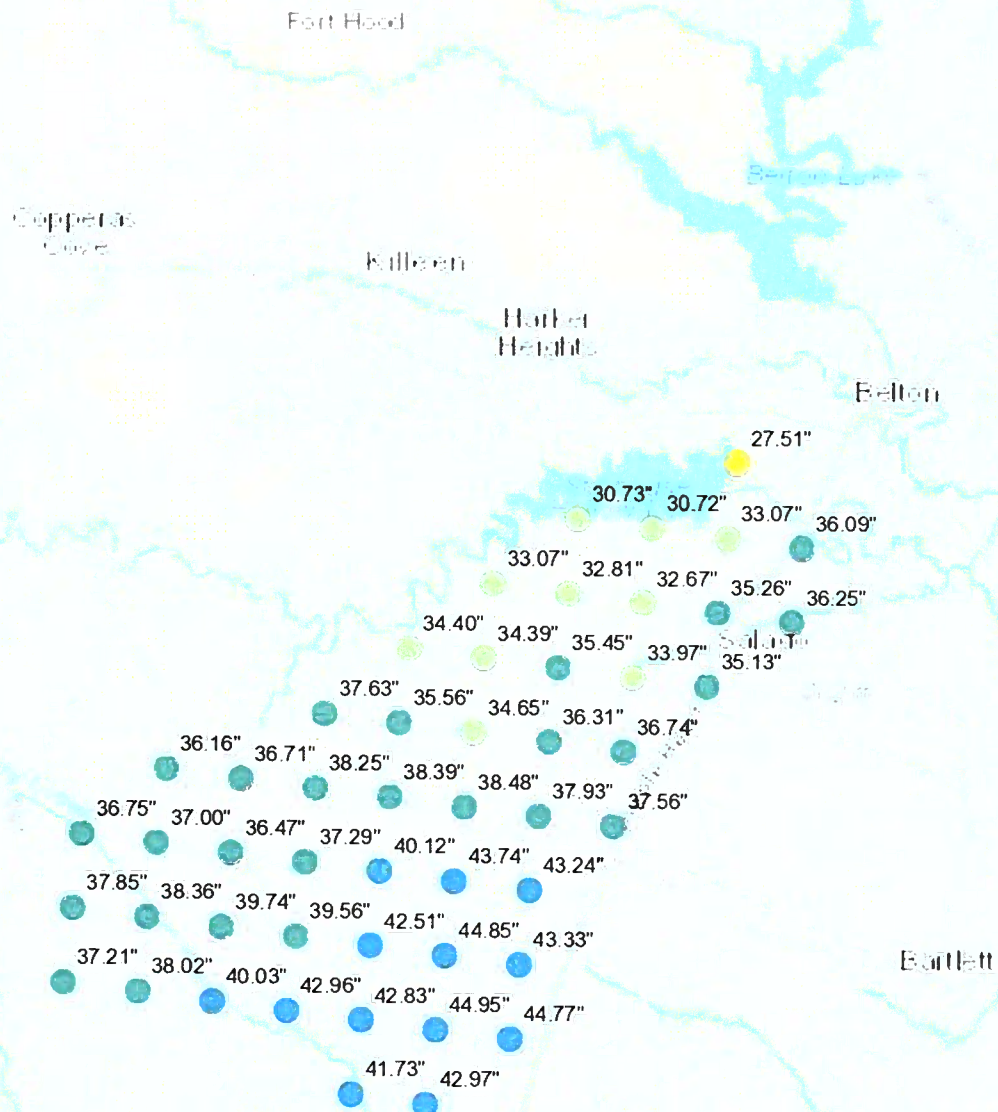
Half Associates, Inc., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

NOAA 365 Day Rainfall - Trinity



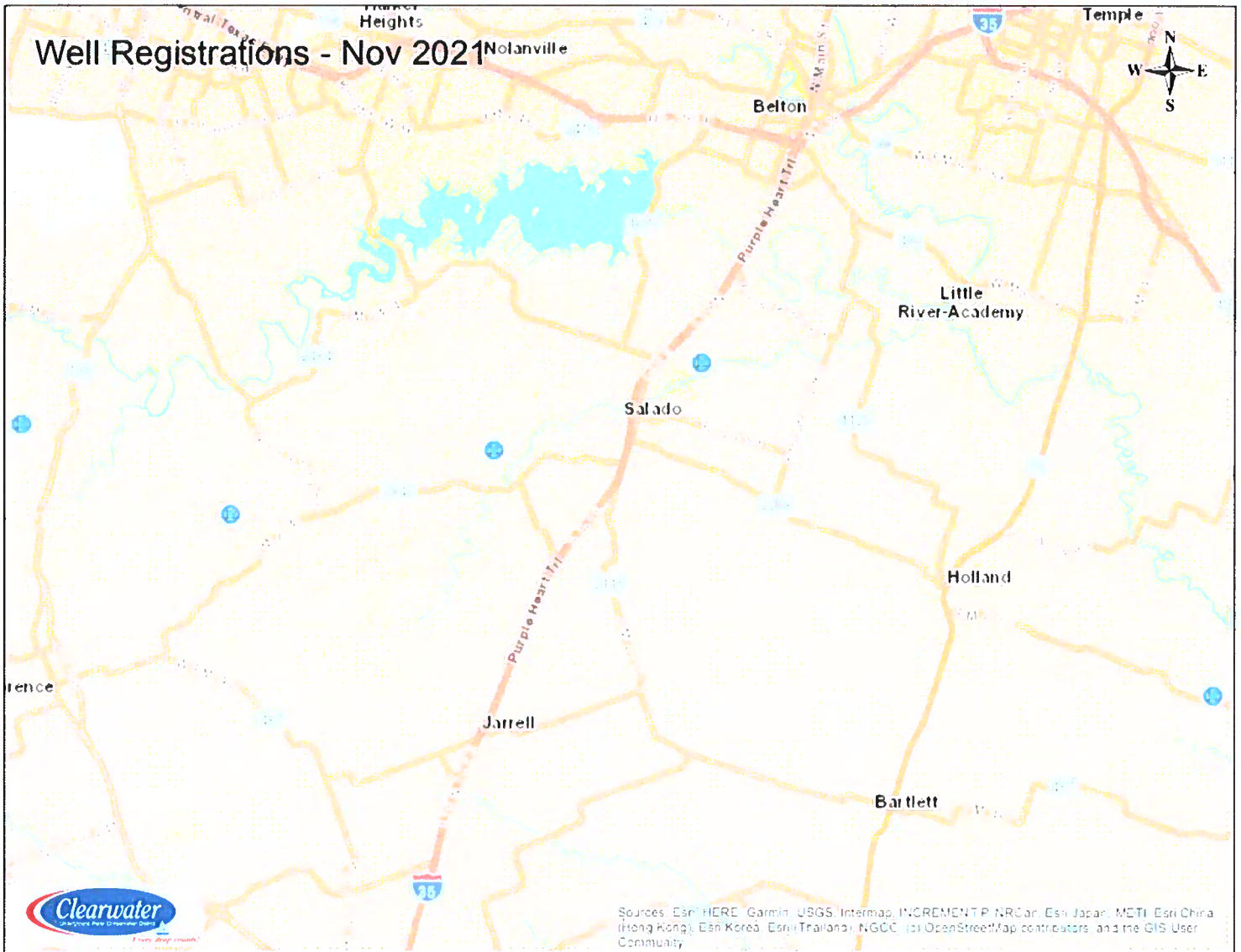
Half Associates, Inc., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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

Registered Wells - November 2021



<u>Well #</u>	<u>Owner</u>	<u>Address</u>	<u>City</u>	<u>Aquifer</u>	<u>Depth</u>	<u>Use</u>	<u>Status</u>
E-21-078P	Jim Morin	1320 Long Meadow	Salado	Undeclared	880	Domestic	Proposed
E-21-079P	Shane Butry	1479 Briggs Rd	Killeen	Lower Trinity	600	Domestic	Proposed
E-21-080P	Marty McLaughlin	16485 Wood Rd	Holland	Alluvium	60	Domestic	Proposed
E-21-081GU	Billy Dunlop	10764 Stinnet Mill Road	Salado	?	?	Domestic	Inactive
E-21-082P	Terry Slack	150 Meda Street	Grgtown	Middle Trinity	850	Domestic	Proposed

Well Registration Totals

Year	Exempt Wells		Non-Exempt Wells			Monitor Wells		Total
	Grandfathered	New	Grandfathered	Class 1	Class 2	Water	Envr	
2002 - 2020	4424	1064	105	36	61	26	121	5837
2021 - Jan	1	14	0	0	0	0	0	15
Feb	4	5	0	0	0	0	0	9
Mar	4	3	0	1	1	0	0	9
Apr	5	10	1	1	0	0	0	17
May	2	5	0	0	0	0	0	7
June	2	4	0	1	1	0	0	8
July	1	6	0	0	4	0	0	11
Aug	0	0	0	0	0	0	0	0
Sep	1	3	0	1	0	0	0	5
Oct	1	9	0	0	1	0	0	11
Nov	1	4	0	0	0	0	0	5
Dec								0
Total 2021	22	63	1	4	7	0	0	97
Totals	4446	1127	106	40	68	26	121	5934

Adjustments

Adjustment Type	Exempt Wells		Non-Exempt Wells			Monitor Wells		Total
	Grandfathered	New	Grandfathered	Class 1	Class 2	Water	Envr	
2002-Present	4446	1127	106	40	68	26	121	5934
Never Drilled	N/A	-27	N/A	-3	-4	0	-1	-35
Plugged	-203	-42	-18	-2	-1	-2	-53	-321
Totals	4243	1058	88	35	63	24	67	5578