



Every drop counts!

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

November 10, 2021

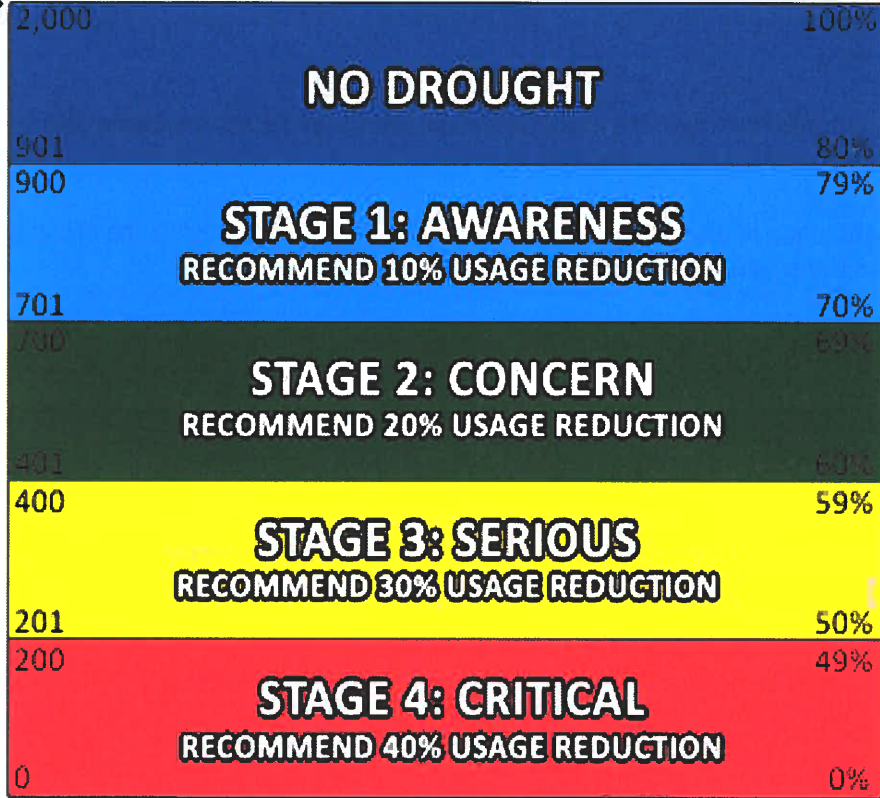
1. Drought Status
2. Educational Outreach Update
3. Monitoring Wells
4. Rainfall/Drought Conditions
5. Well Registrations
6. Non-Exempt Monthly Well Production

Edwards BFZ Aquifer—Drought Status Report

NO DROUGHT

6789.43 ac-ft
(month)
114.1 cfs

37.97 PDI
115.06 %

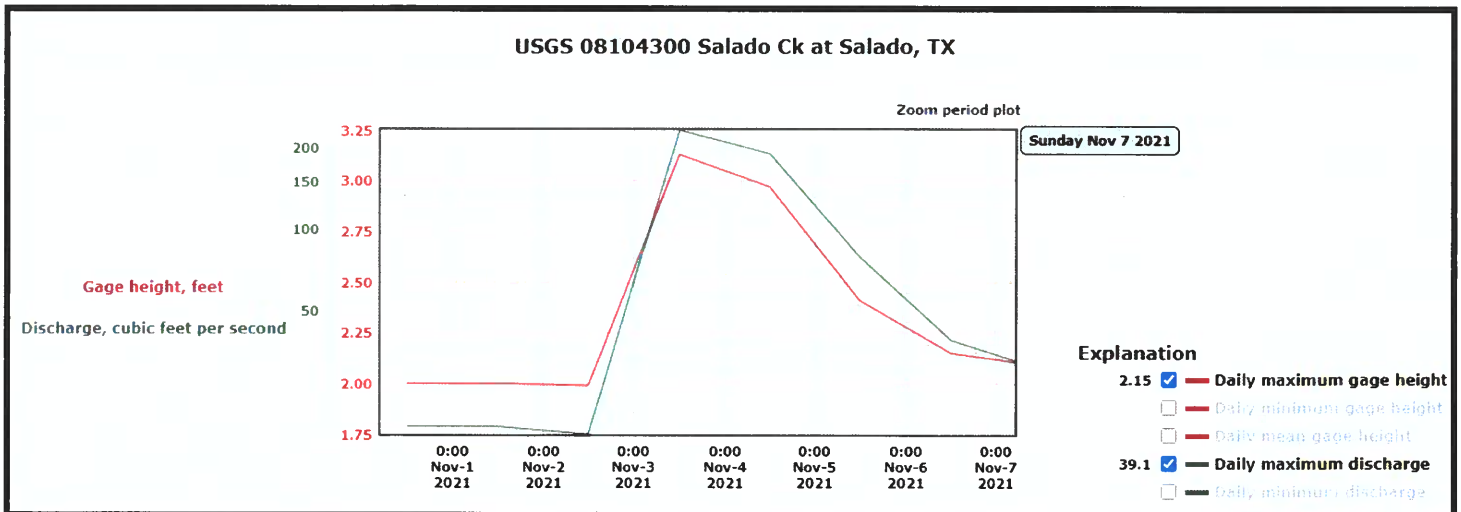


Salado Creek
Spring Discharge

Precipitation Deficit
Index (PDI)

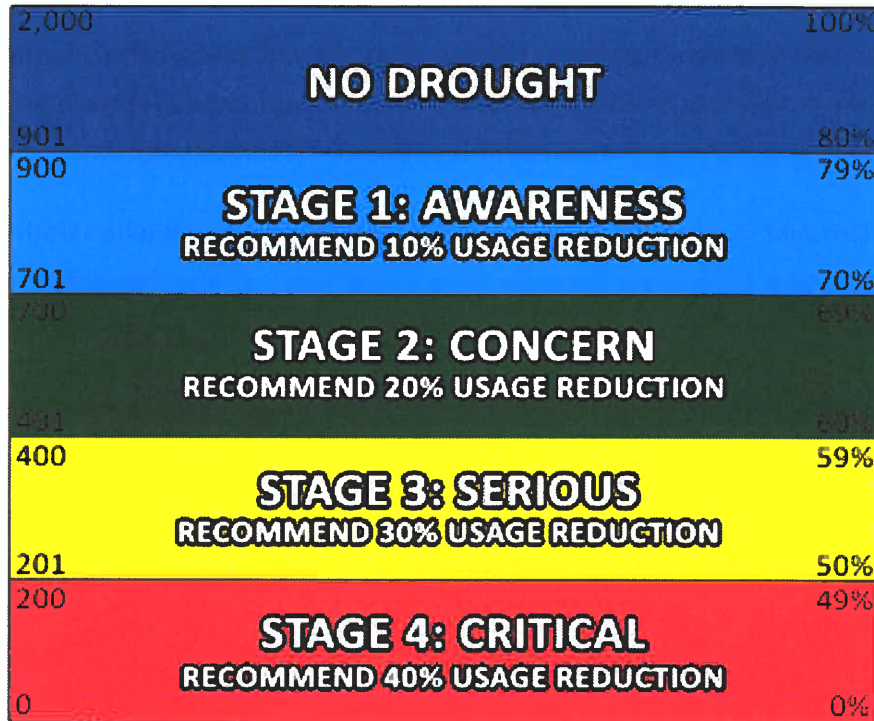
AS OF 11/07/2021

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



Trinity Aquifer—Drought Status Report

NO DROUGHT

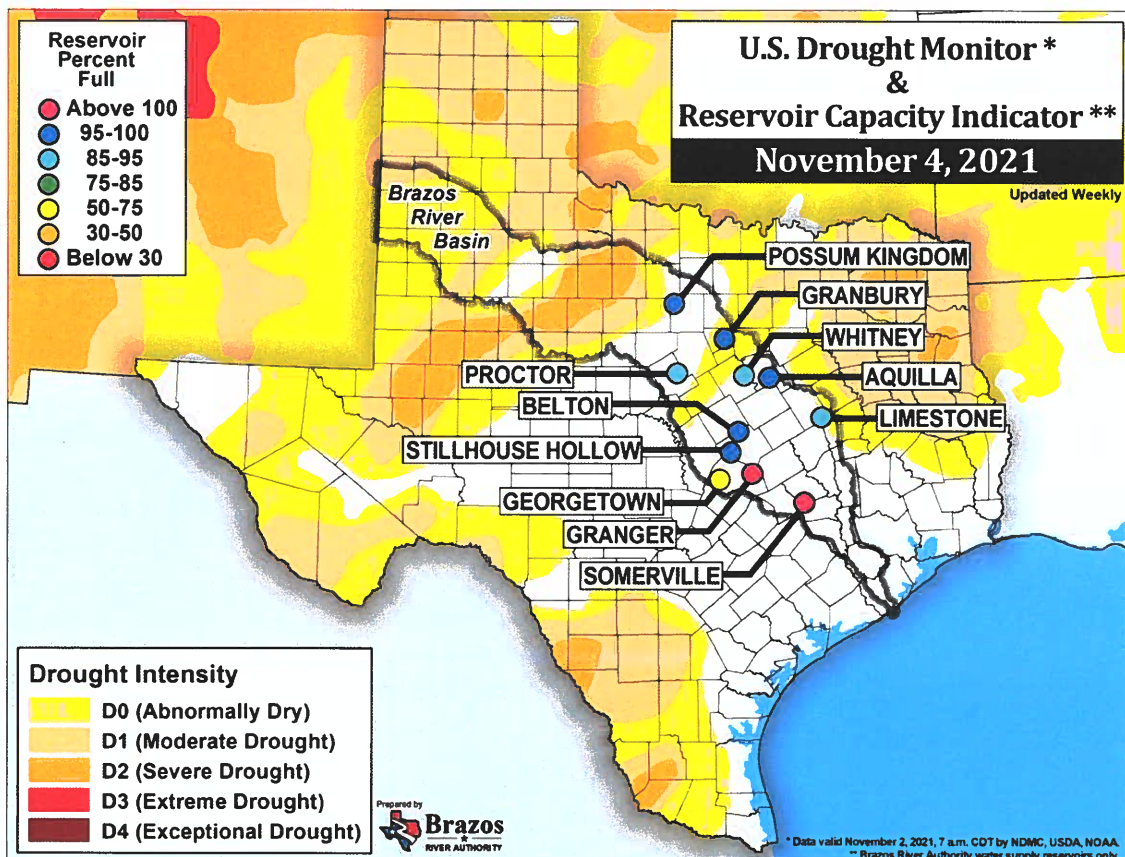


36.28 PDI
109.94 %

Precipitation Deficit Index (PDI)

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

AS OF 11/07/2021





Education Outreach Highlights 11/10/21

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 – 20th Annual Bell County Water Symposium at Bell County Expo Center – Assembly Hall.

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).

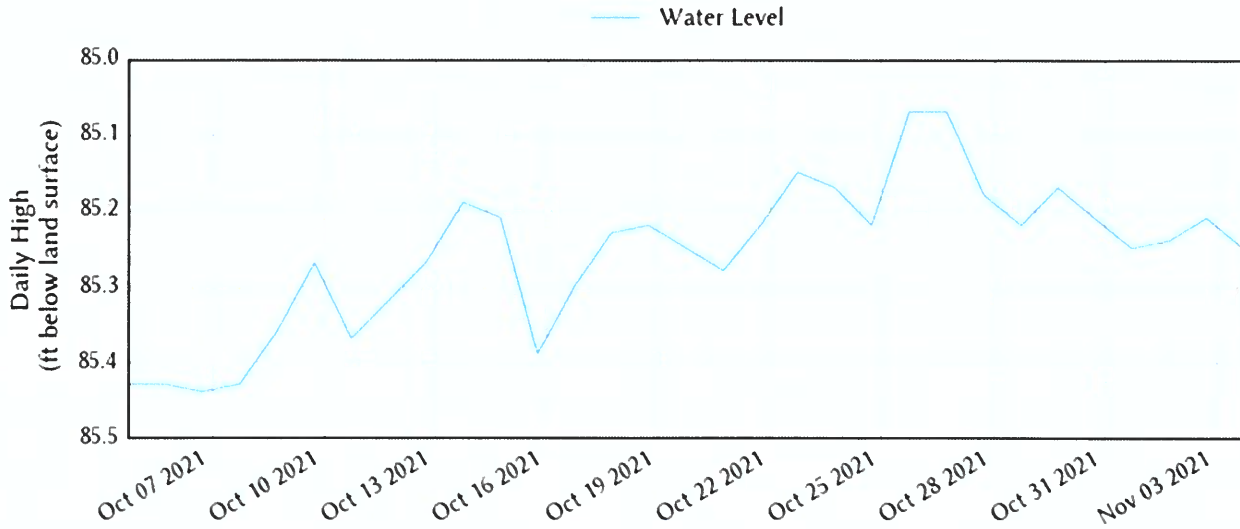
- Continually adding more information to the website to make it a valuable resource to Bell County along with utilizing more social media.

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).

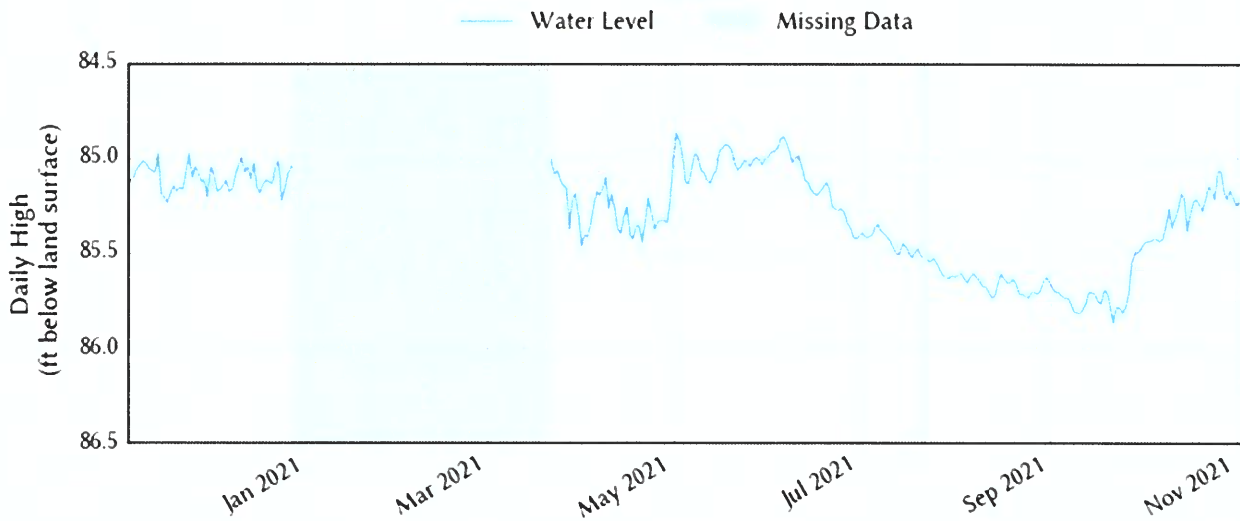
- Staff is preparing for the 2021 Bell County Water Symposium.
- 2020 Annual Report was approved by the Board on April 14, 2021.

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

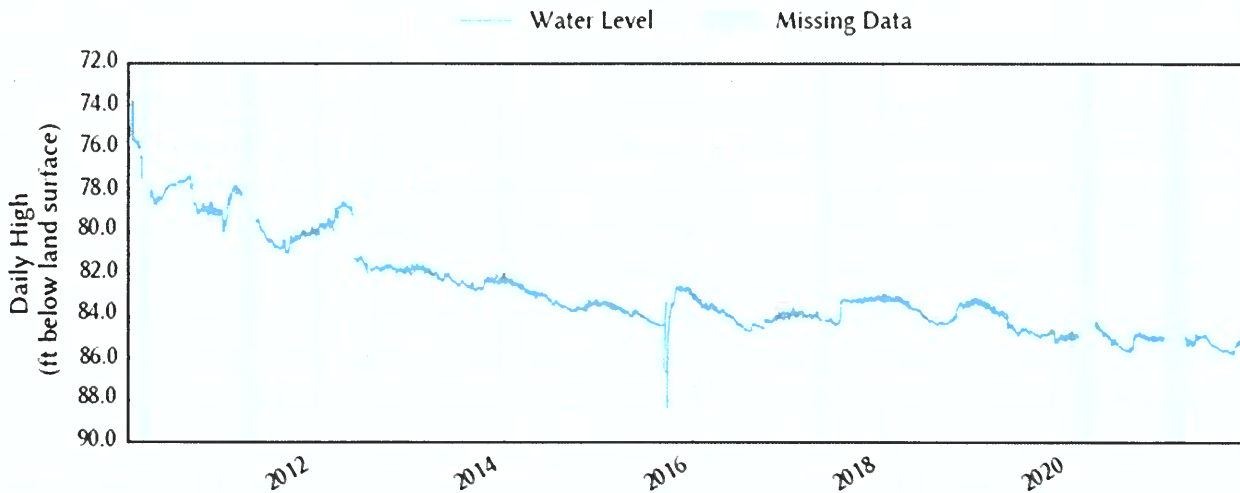
Last 30 Days



1 Year



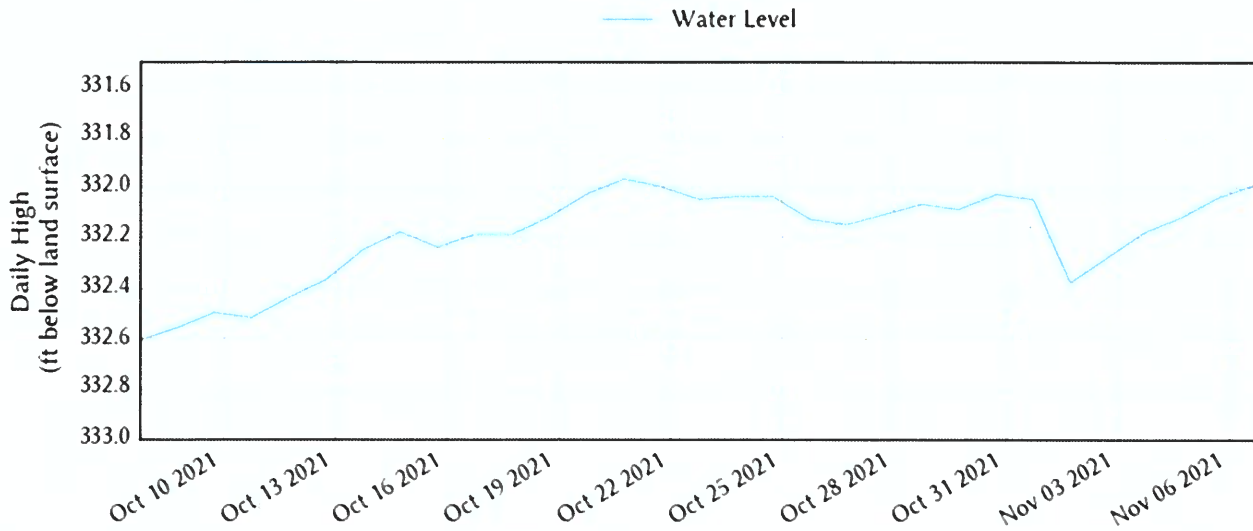
Period Of Record



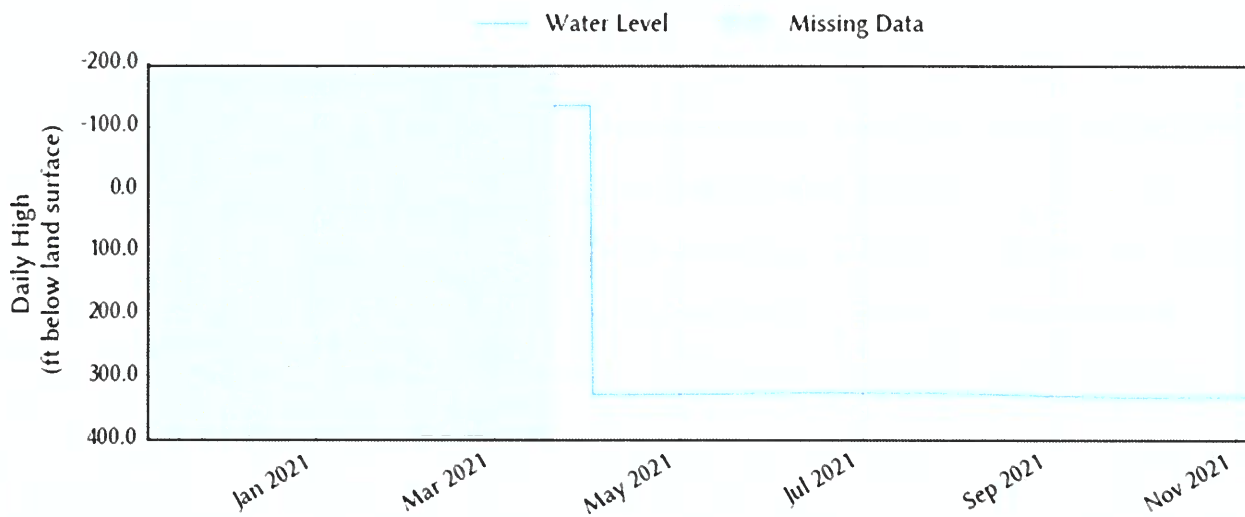
November 2021

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

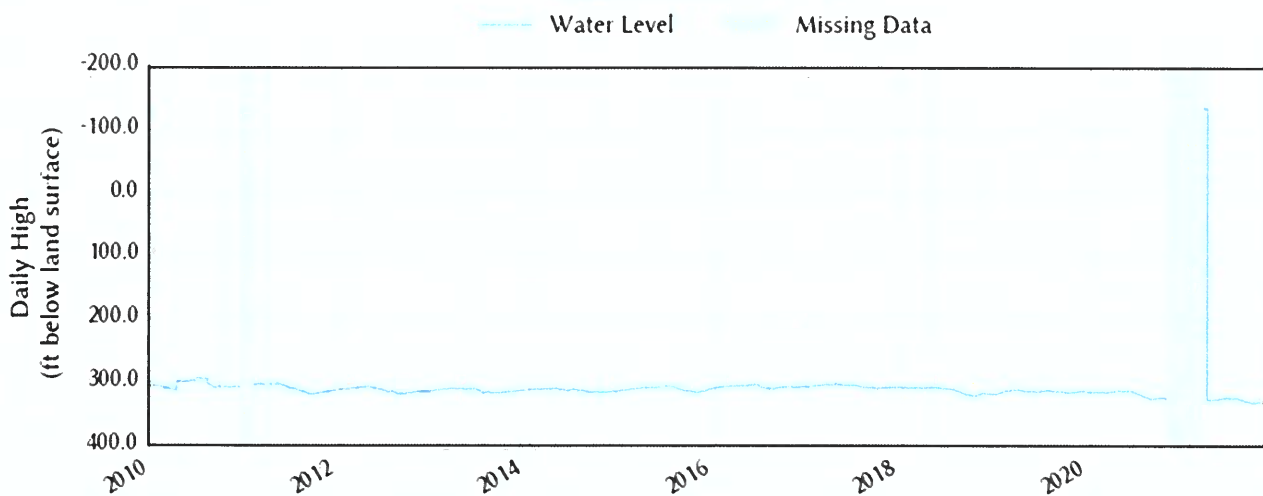
Last 30 Days



1 Year



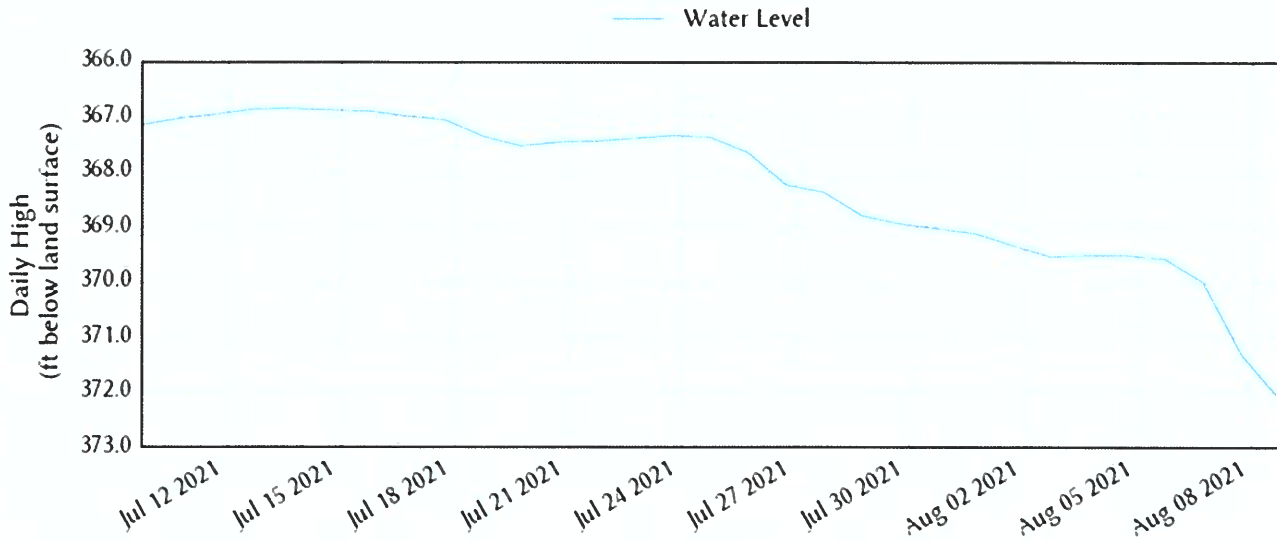
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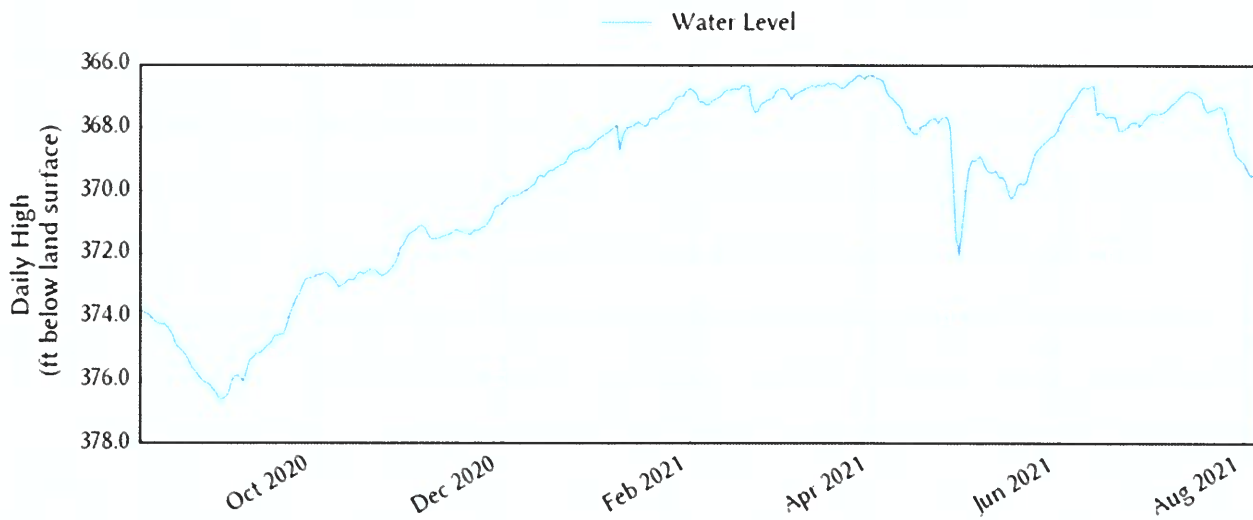
November 2021

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

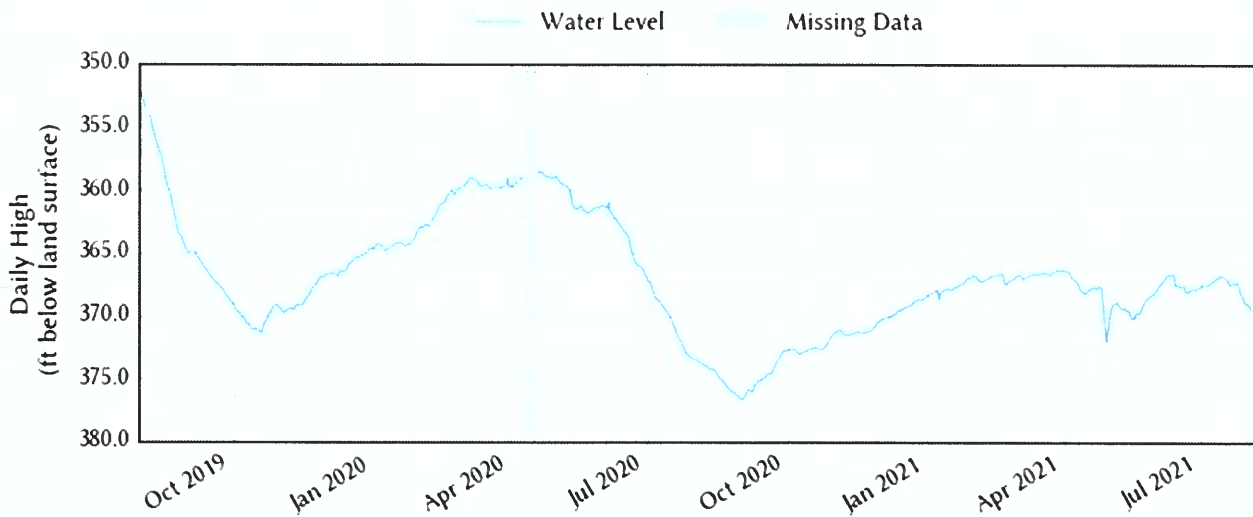
Last 30 Days



1 Year



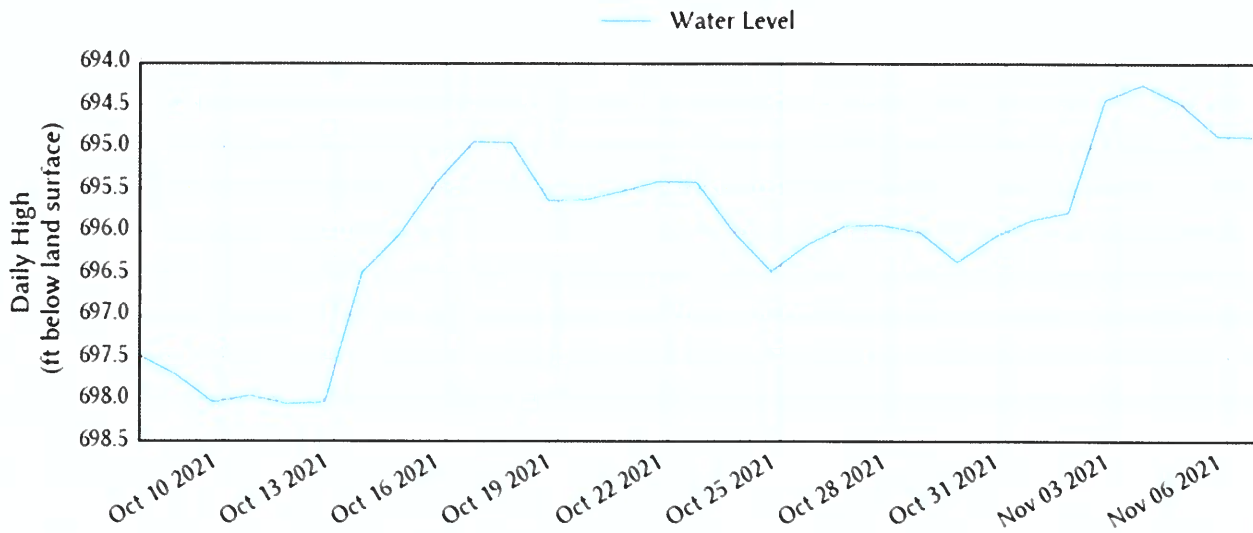
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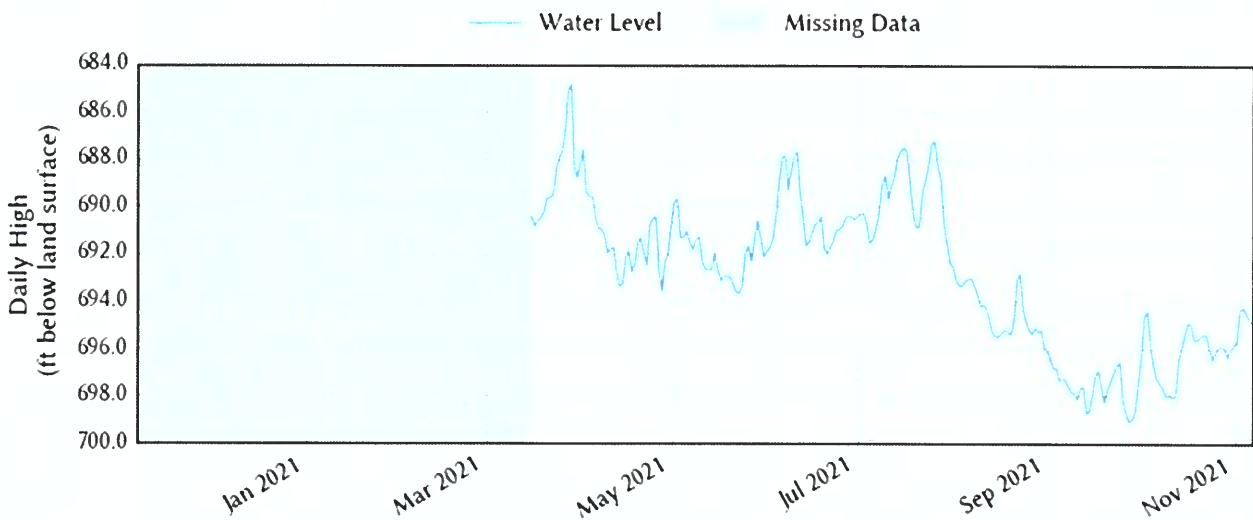
November 2021

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

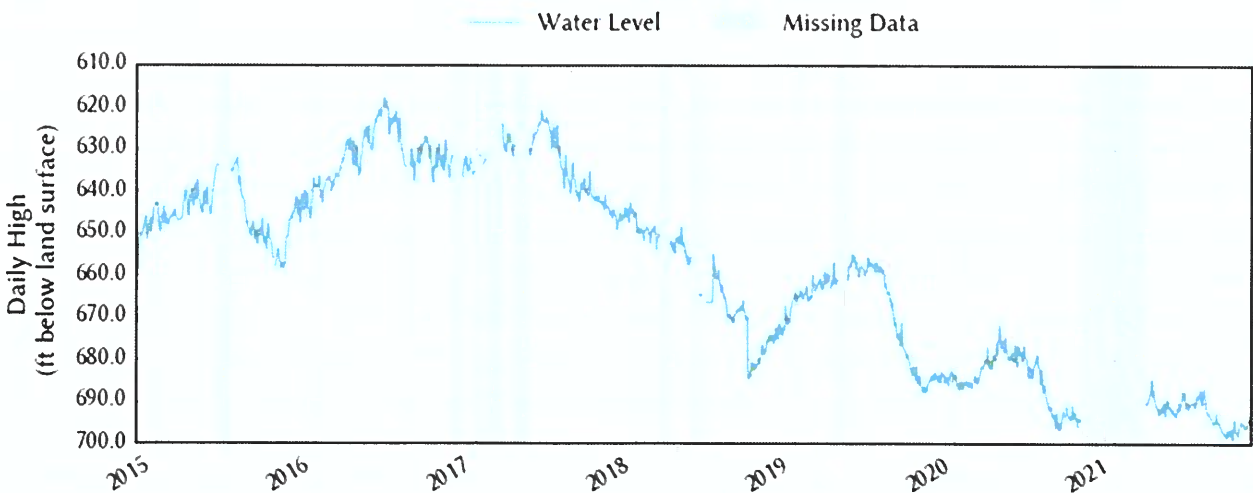
Last 30 Days



1 Year



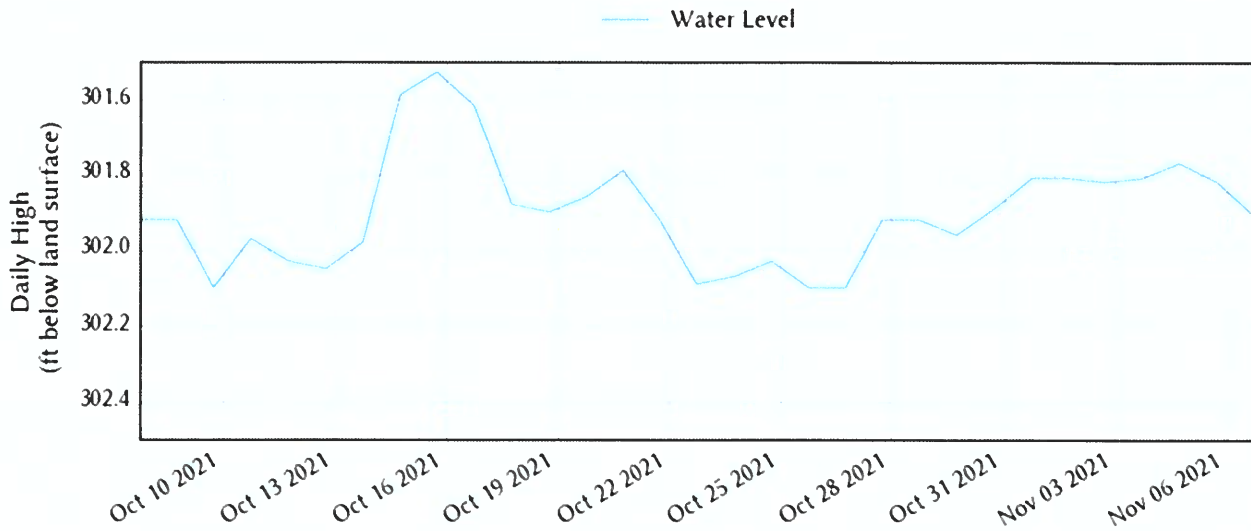
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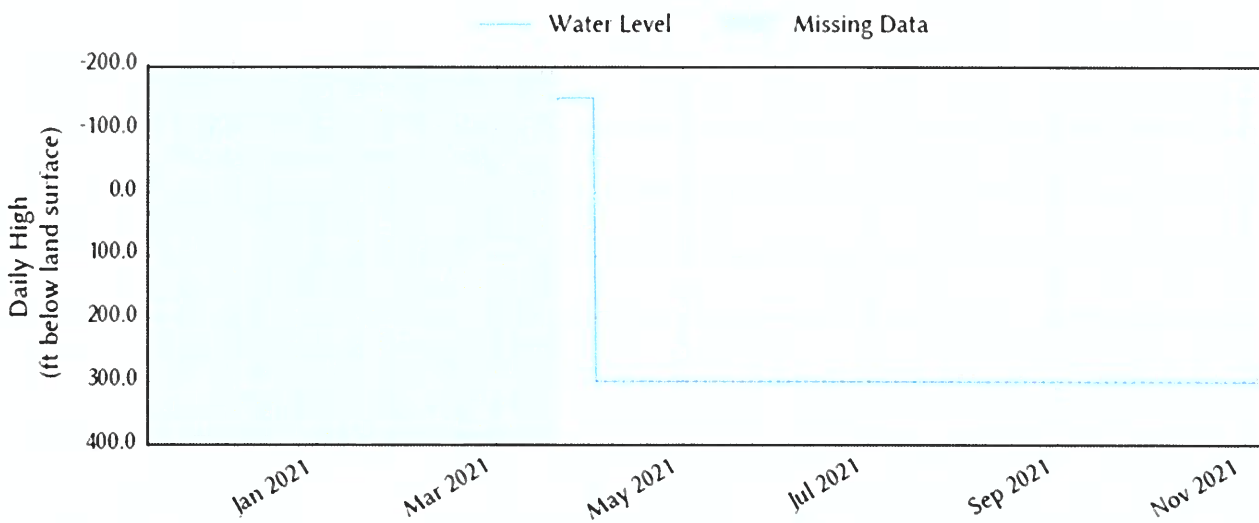
November 2021

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

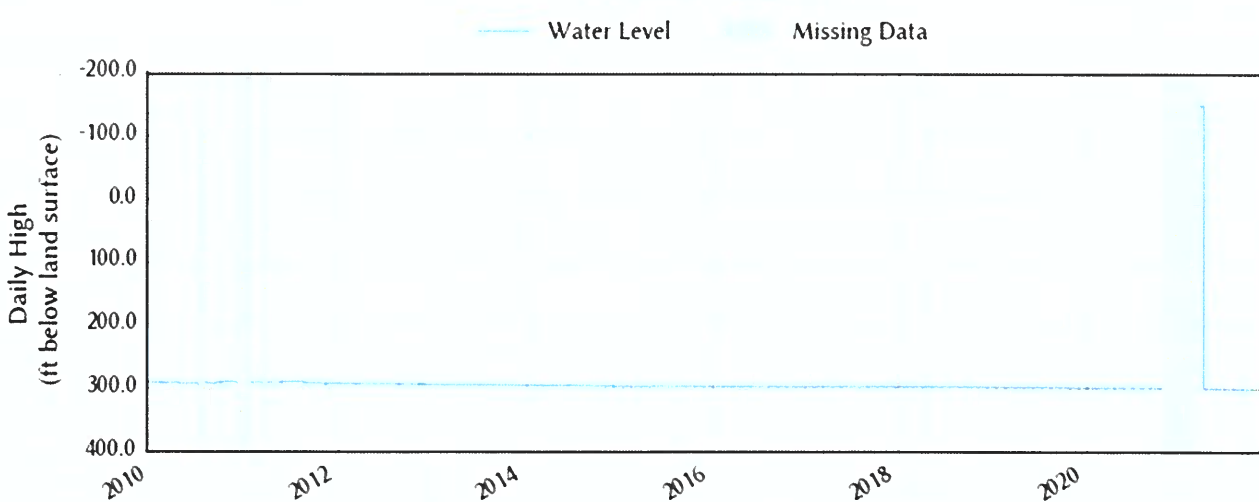
Last 30 Days



1 Year



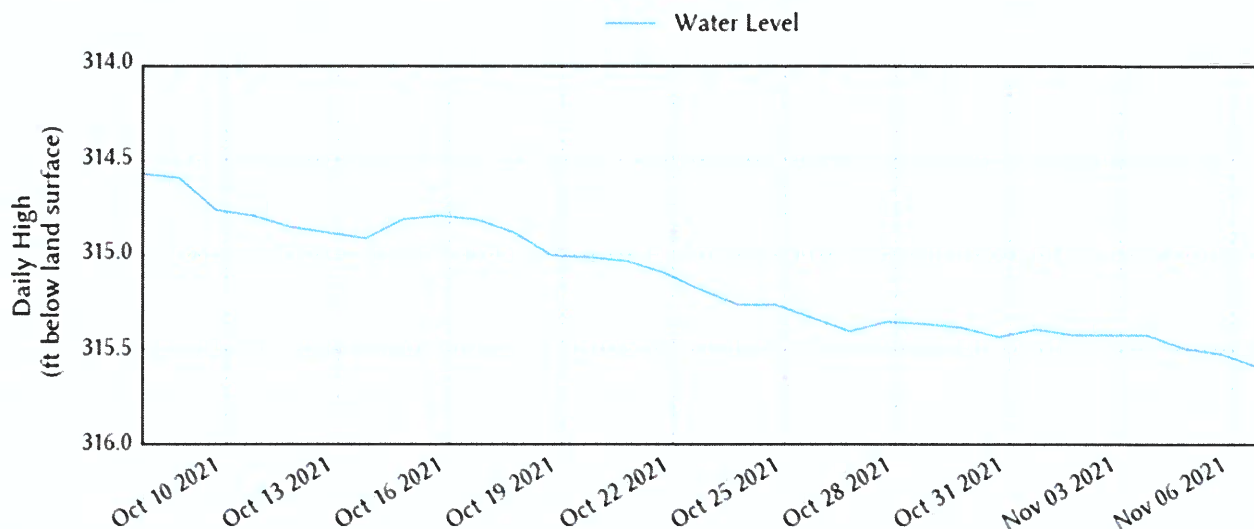
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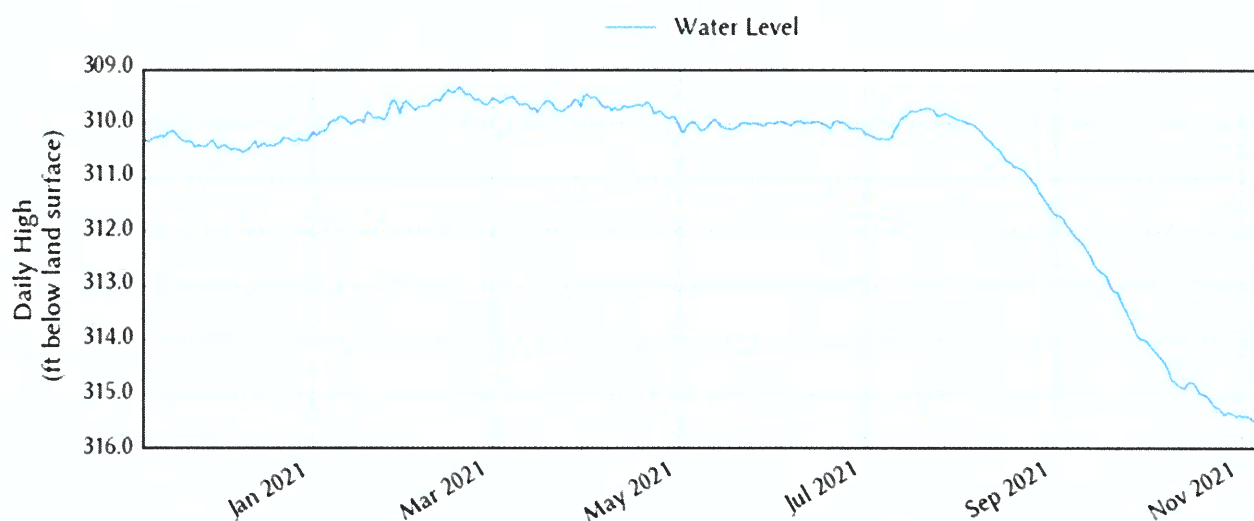
November 2021

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

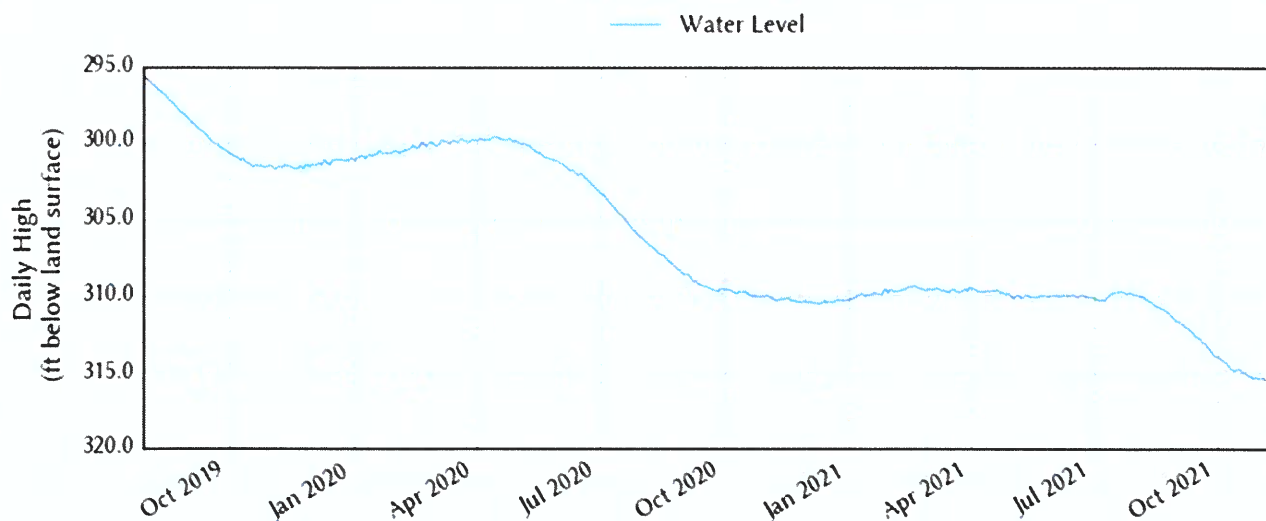
Last 30 Days



1 Year



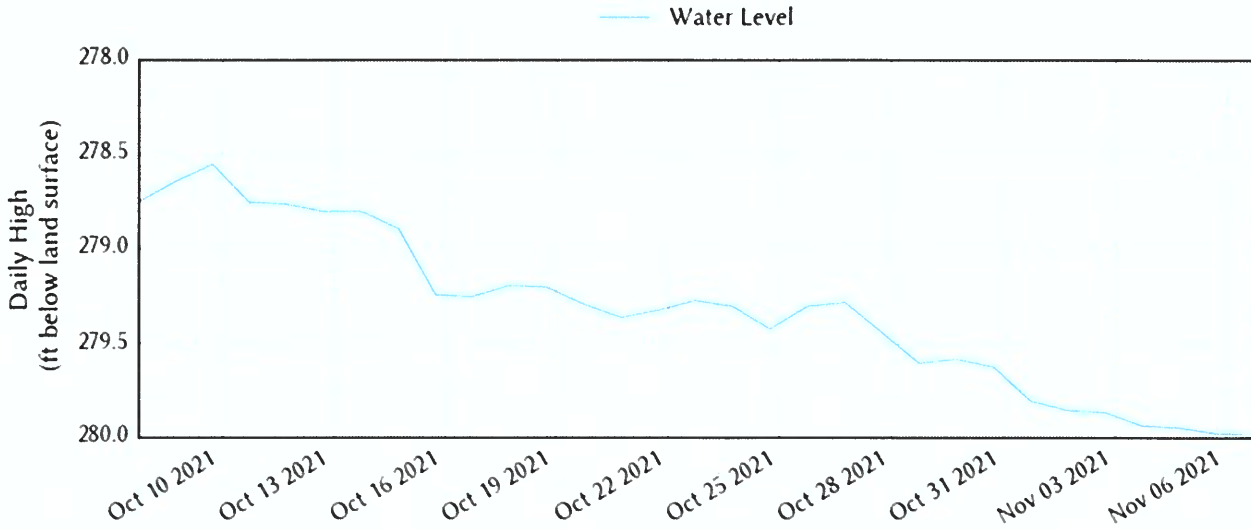
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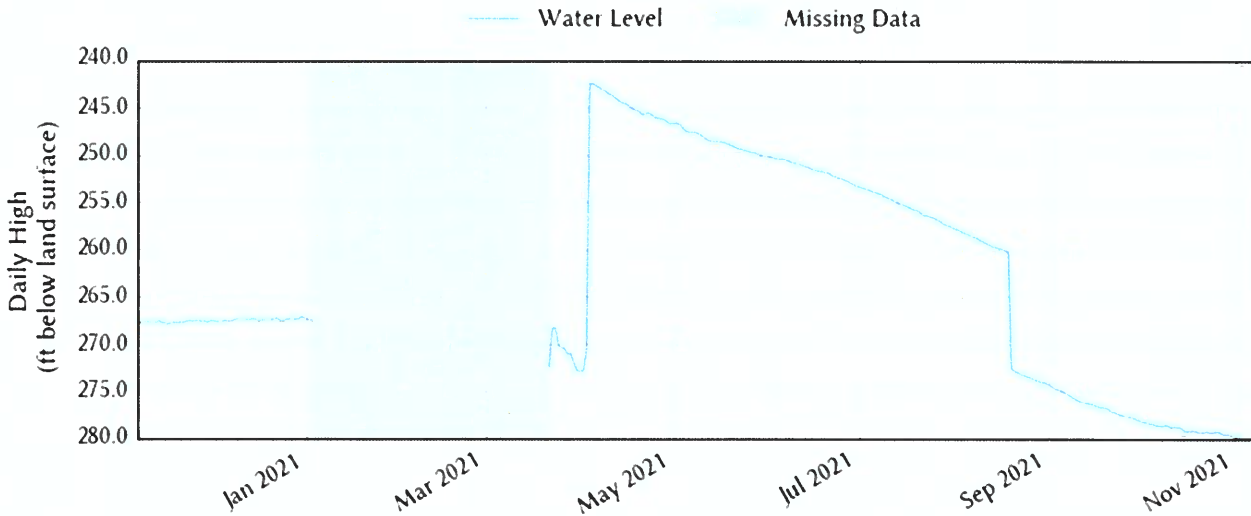
November 2021

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

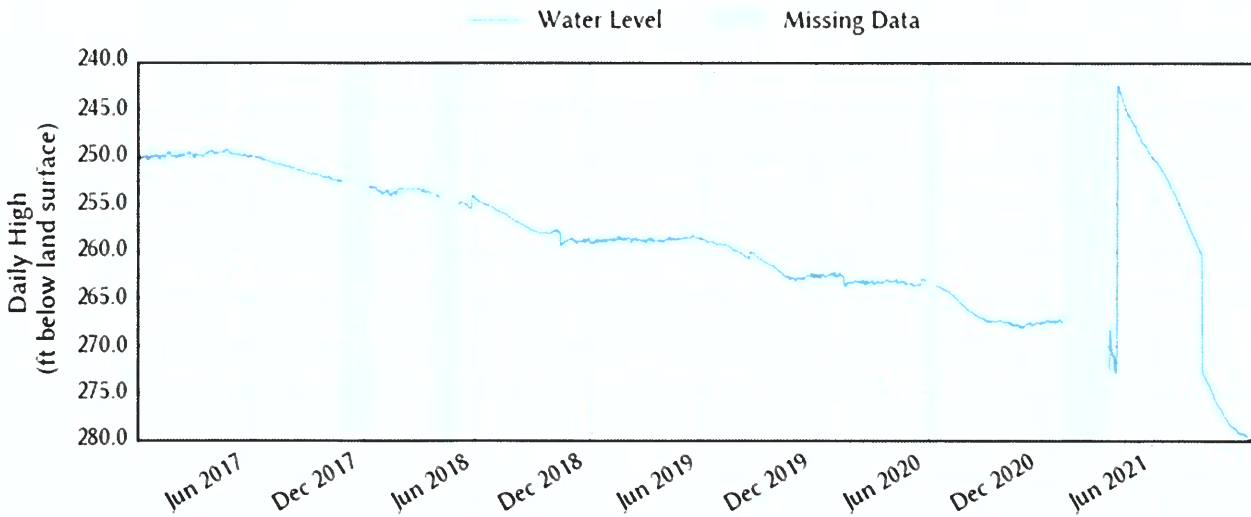
Last 30 Days



1 Year

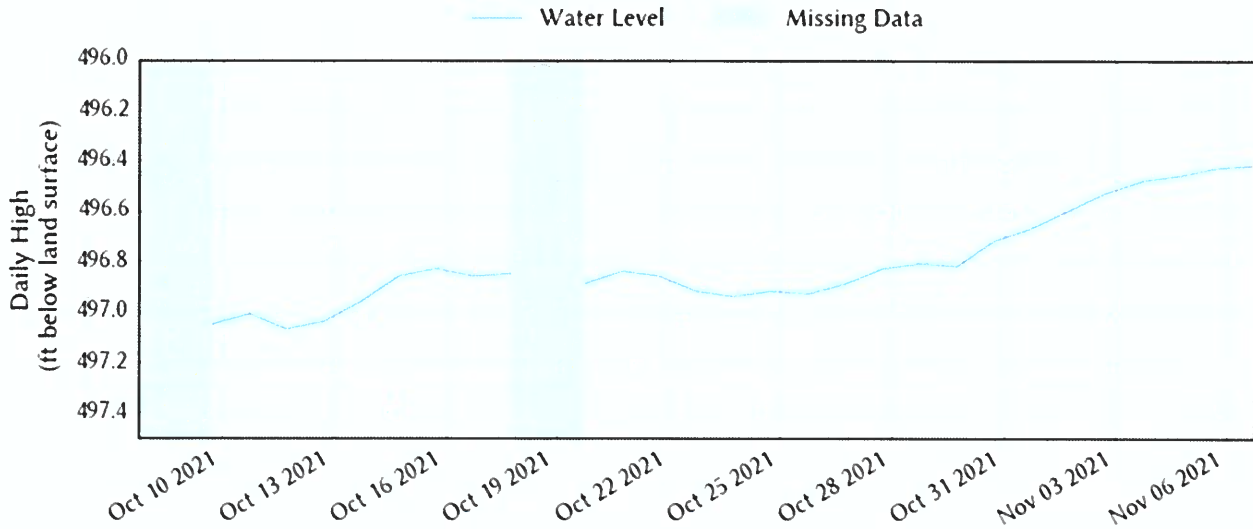


Period Of Record

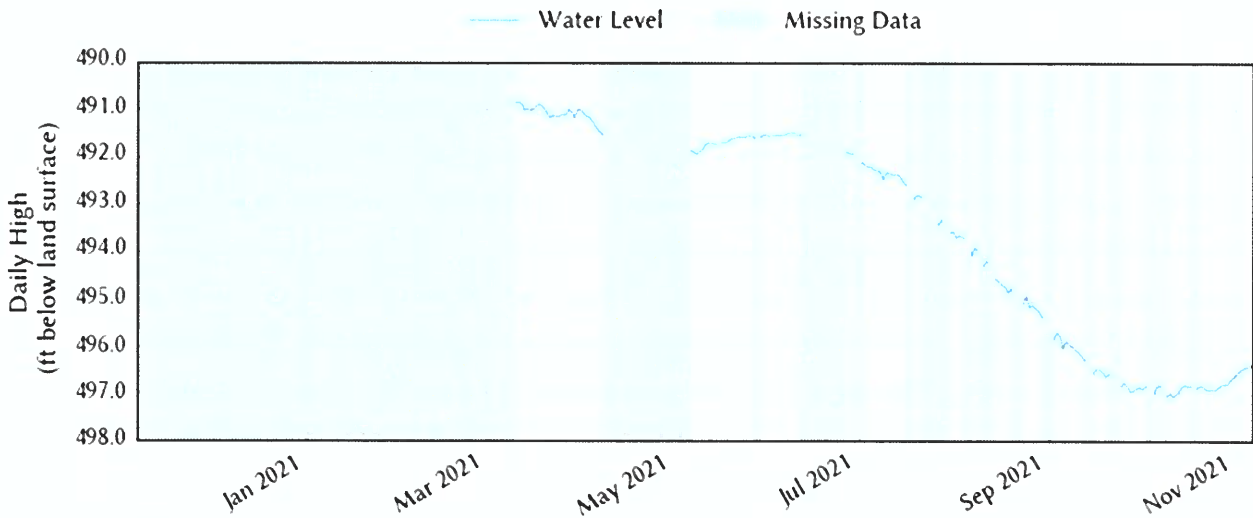


**Continuous Monitoring Well # 4054701
(Temple - Cearley Well)
Lower Trinity Aquifer**

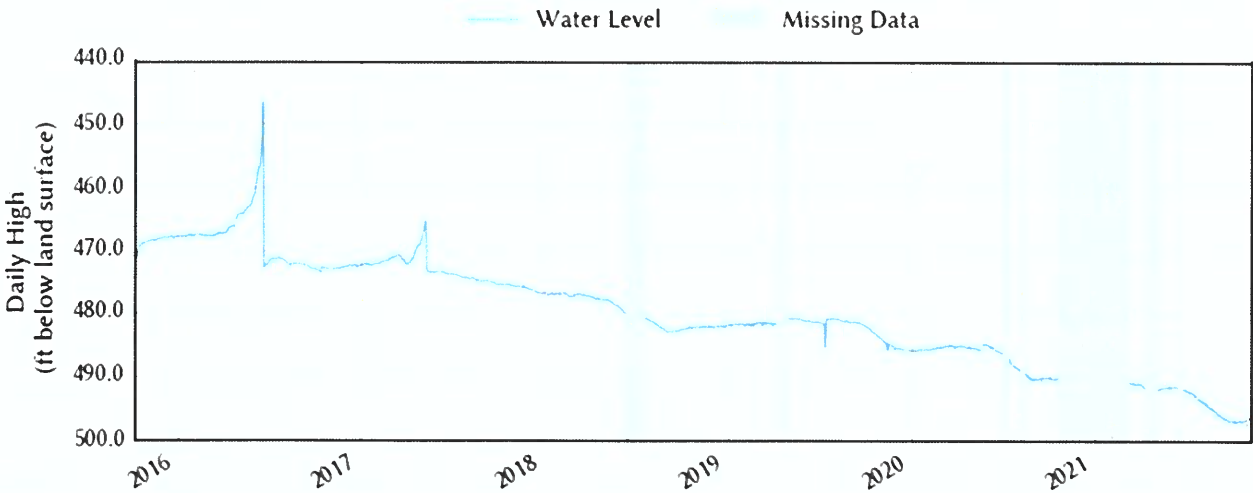
Last 30 Days



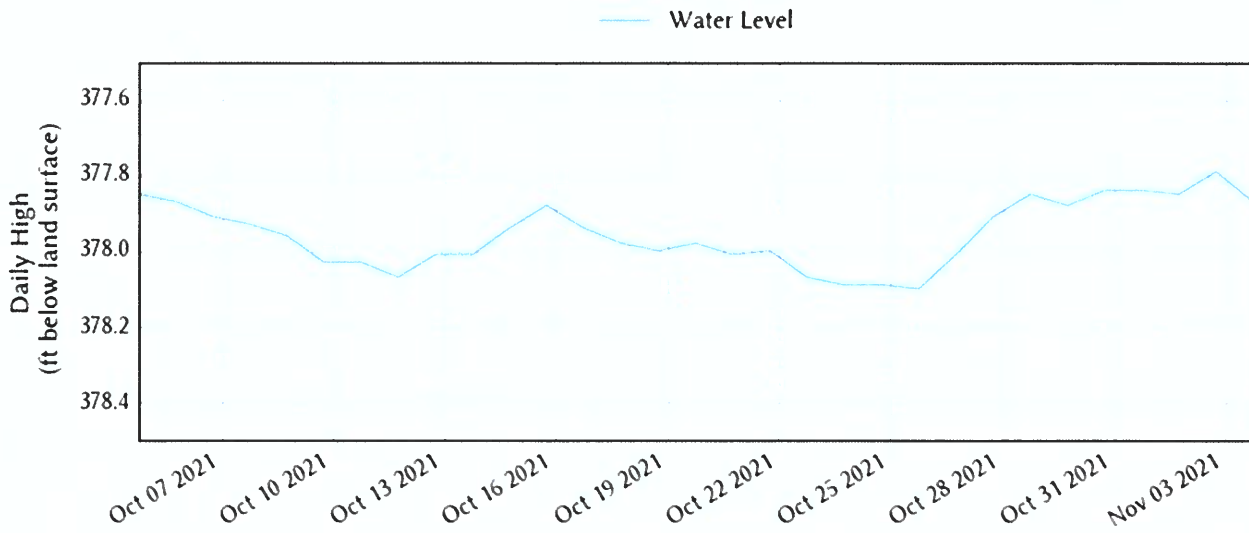
1 Year



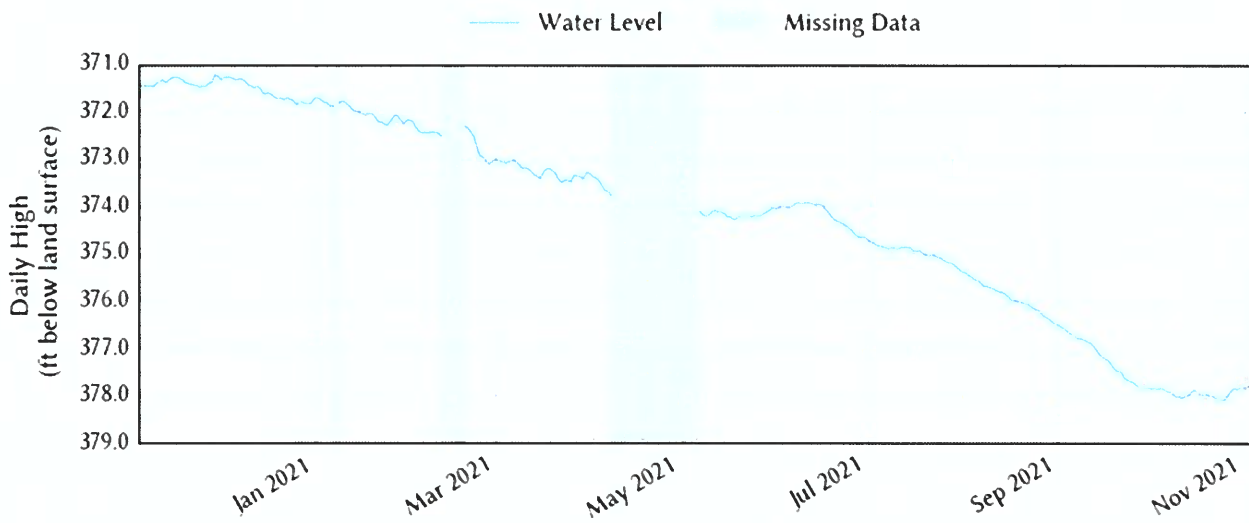
Period Of Record



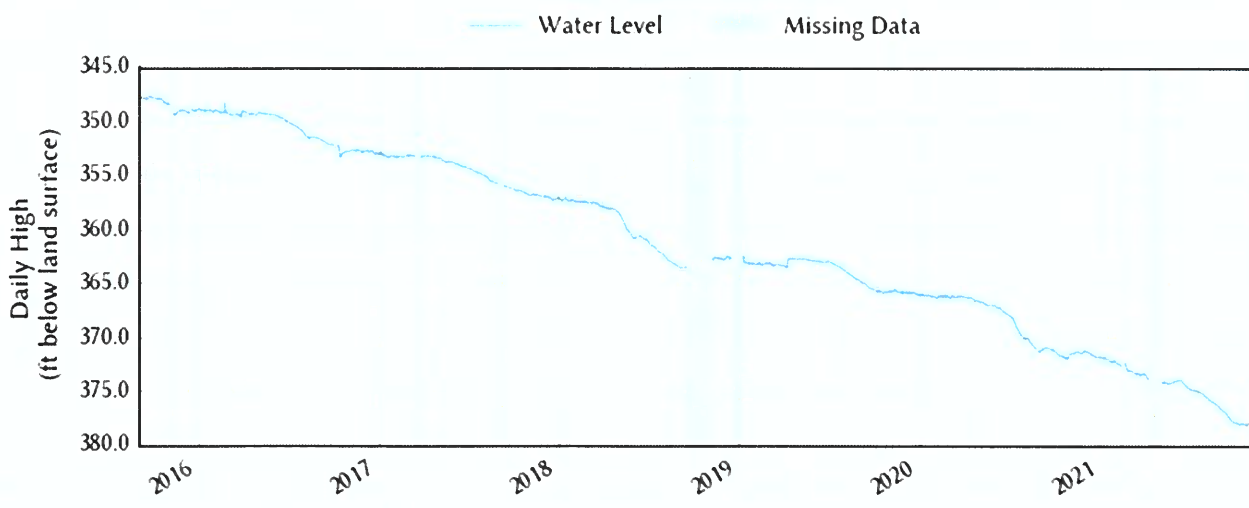
Last 30 Days



1 Year



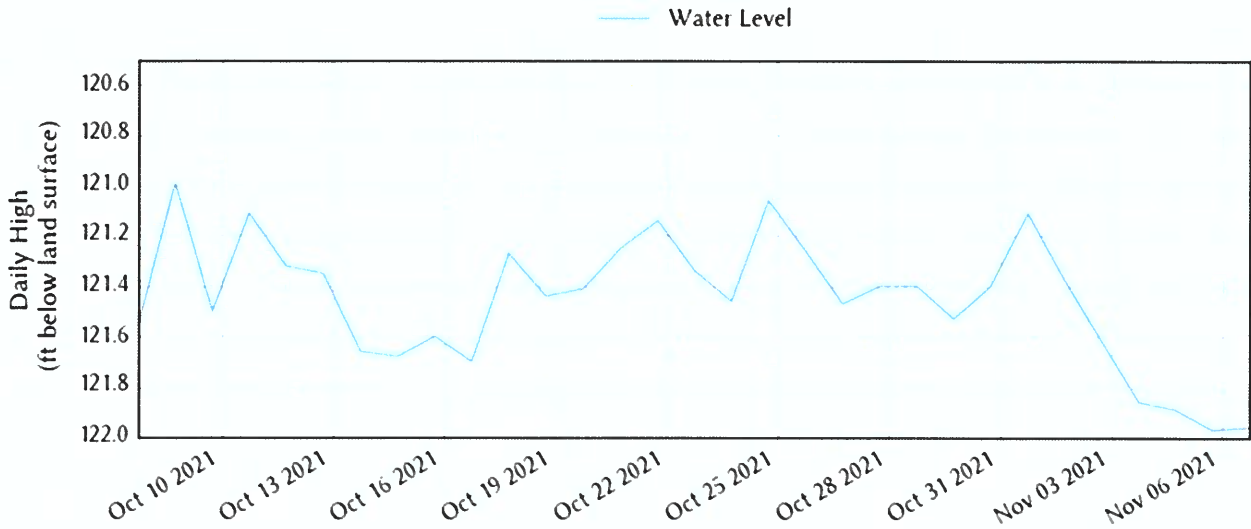
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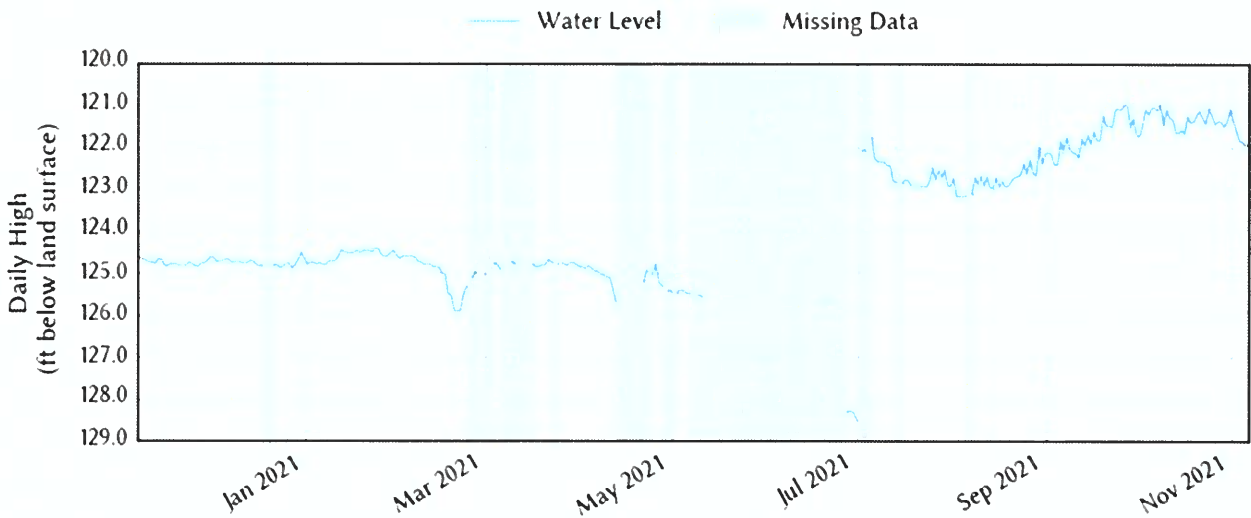
November 2021

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

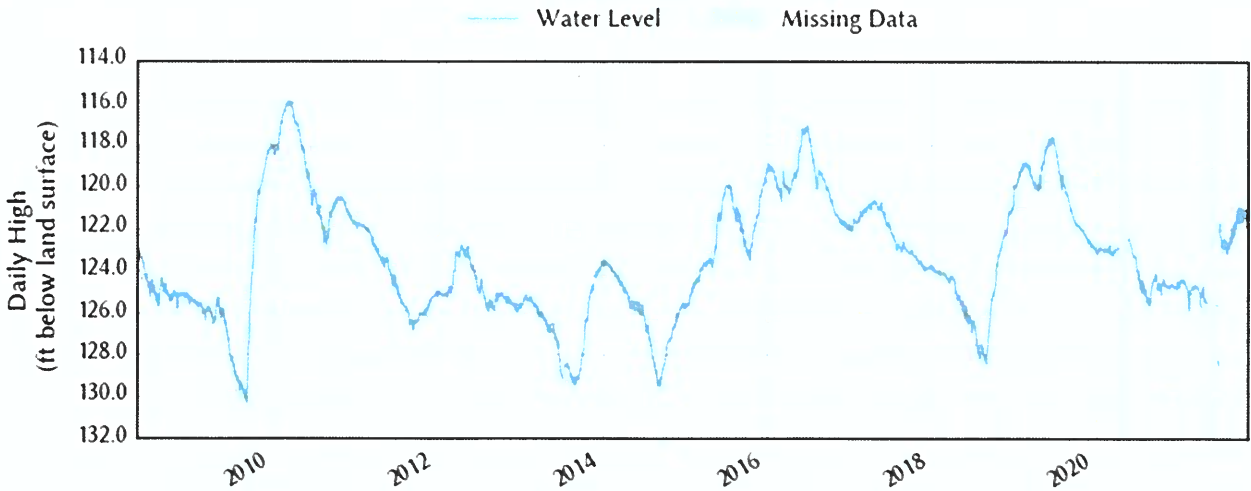
Last 30 Days



1 Year



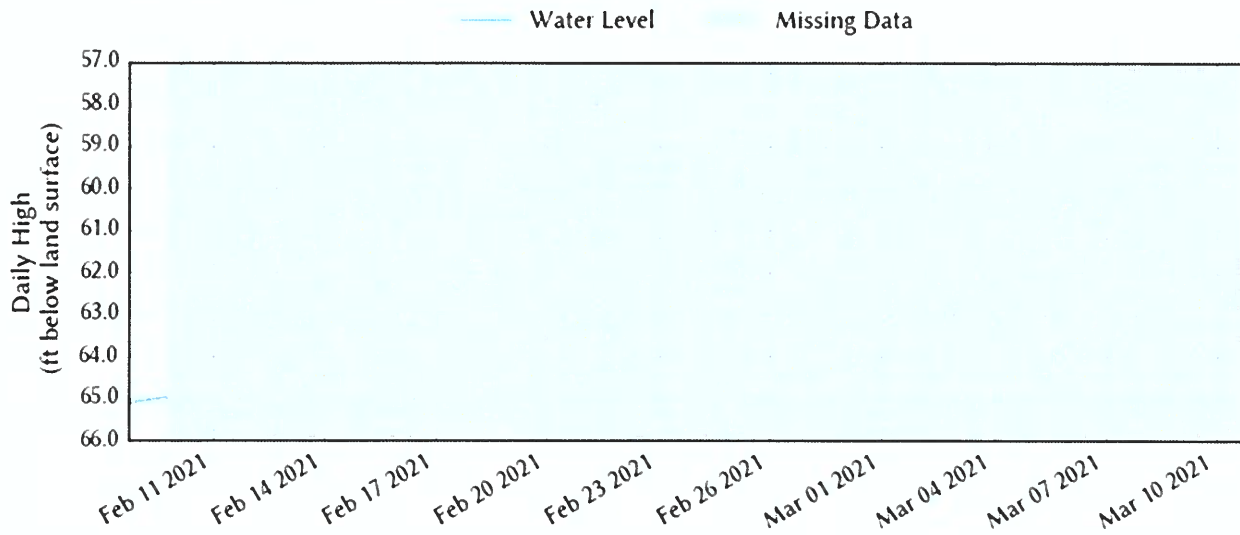
Period Of Record



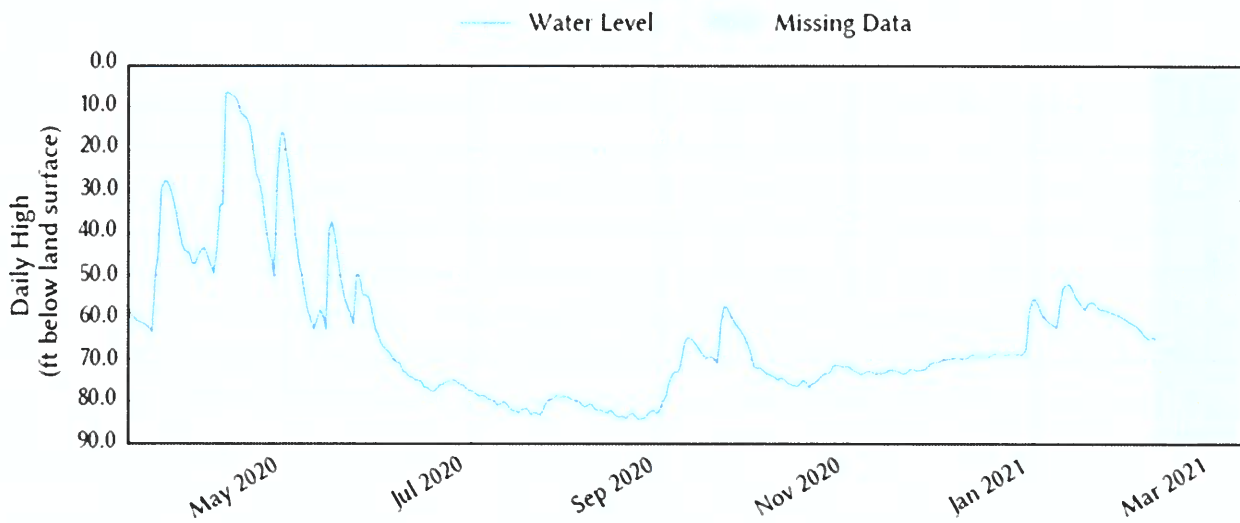
November 2021

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

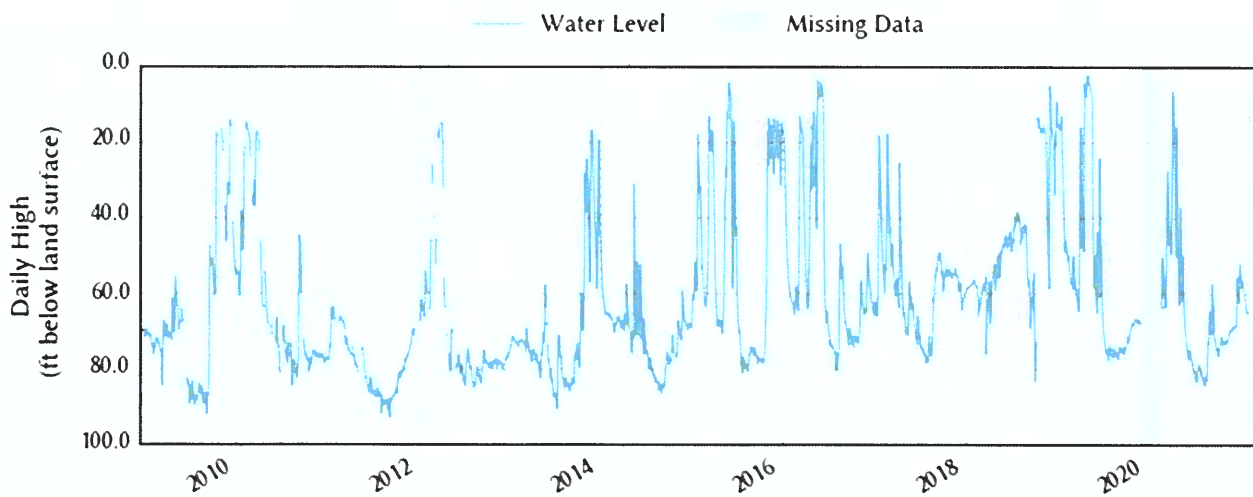
Last 30 Days



1 Year



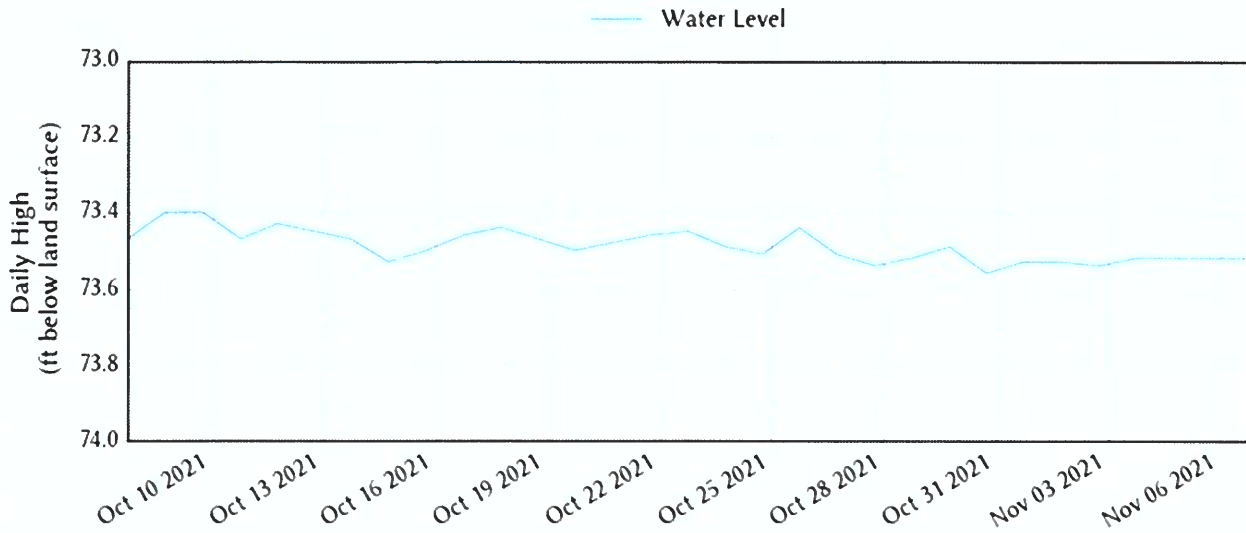
Period Of Record



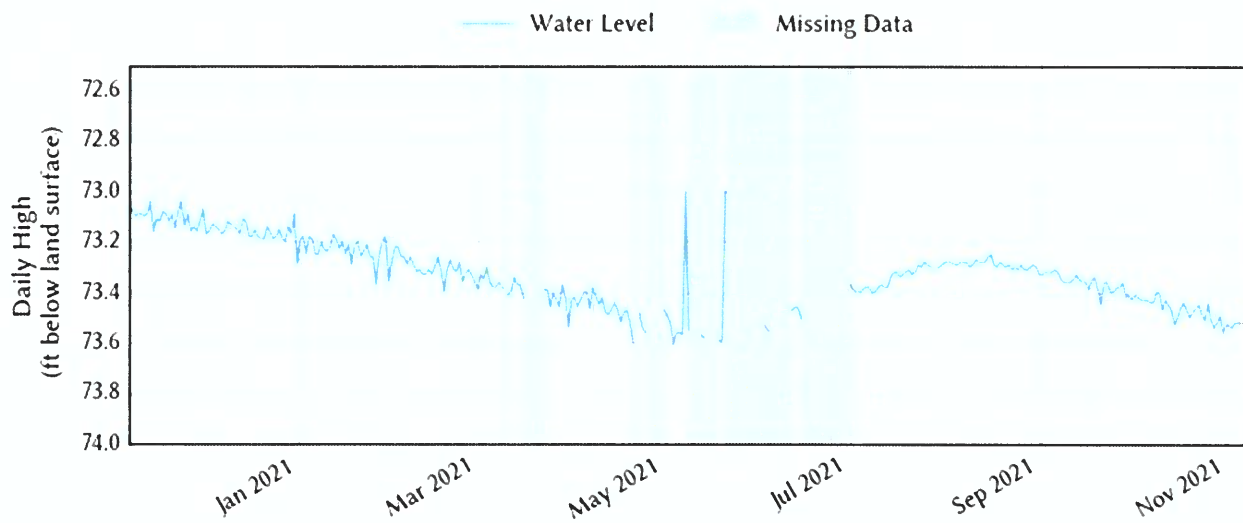
November 2021

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

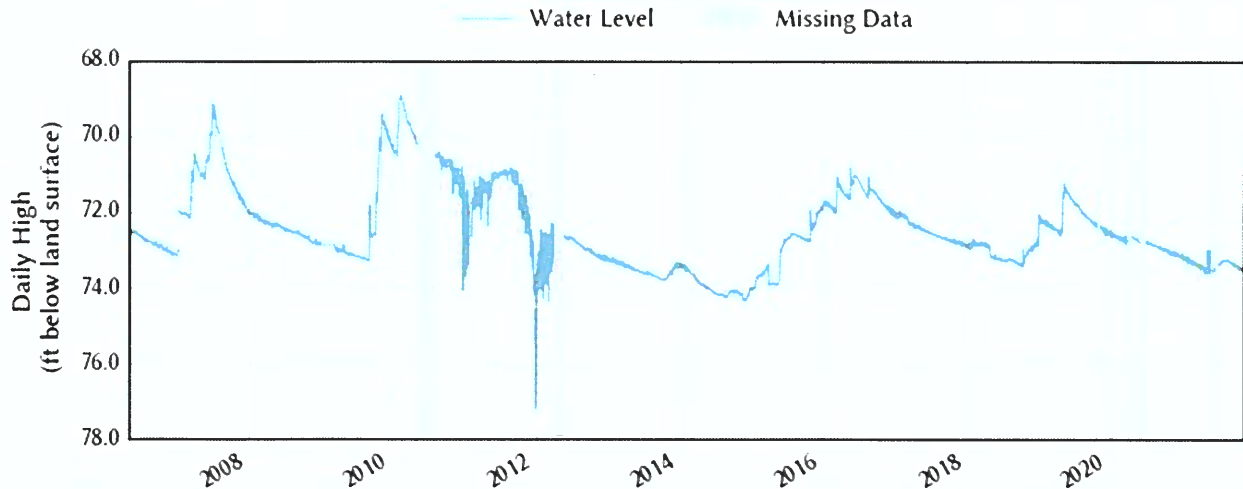
Last 30 Days



1 Year



Period Of Record

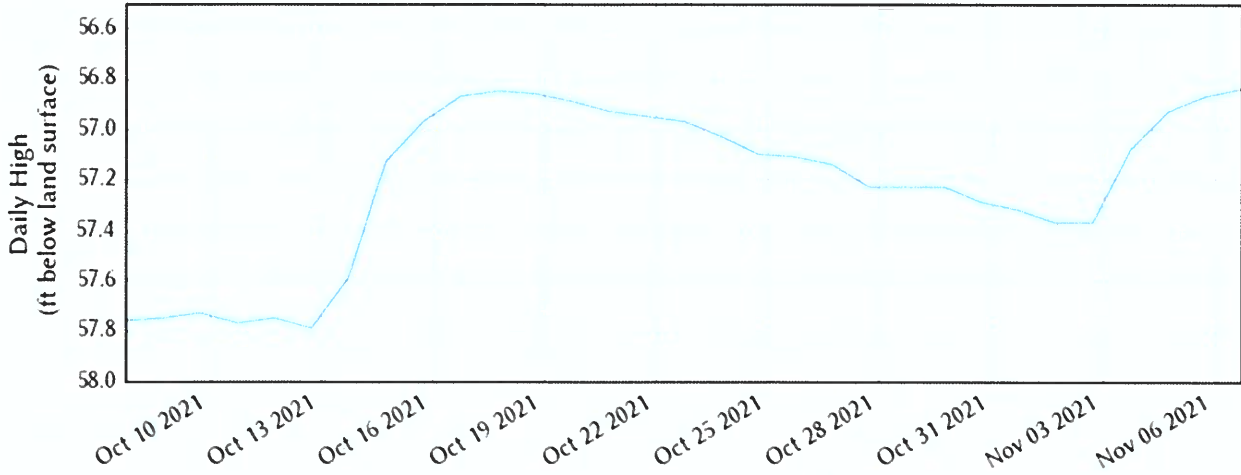


November 2021

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

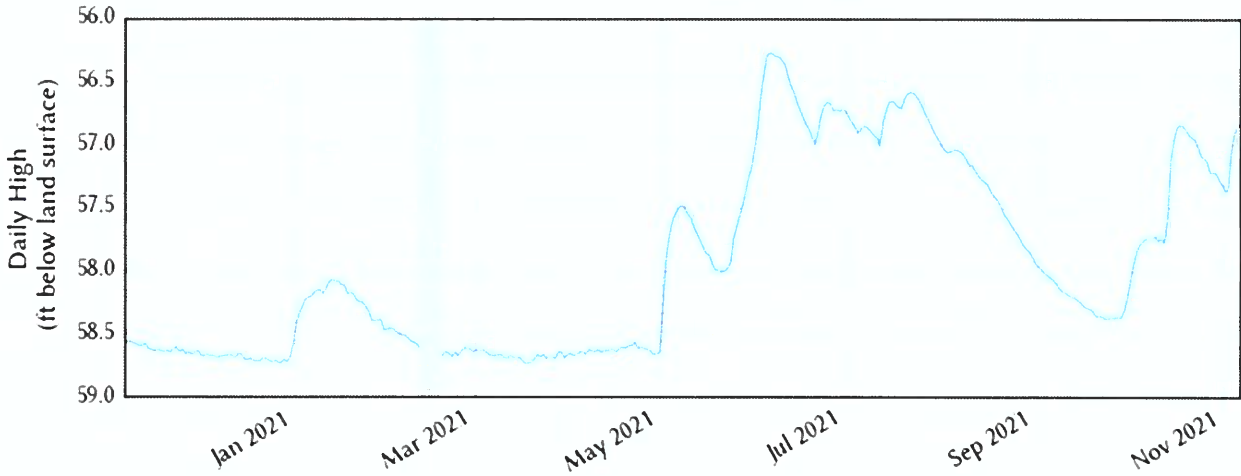
Last 30 Days

Water Level



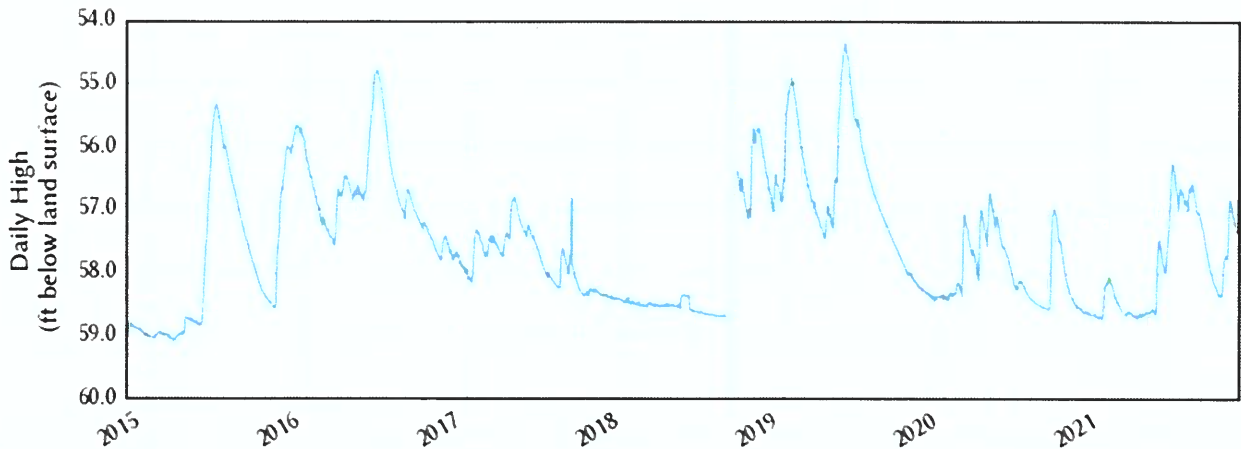
1 Year

Water Level Missing Data

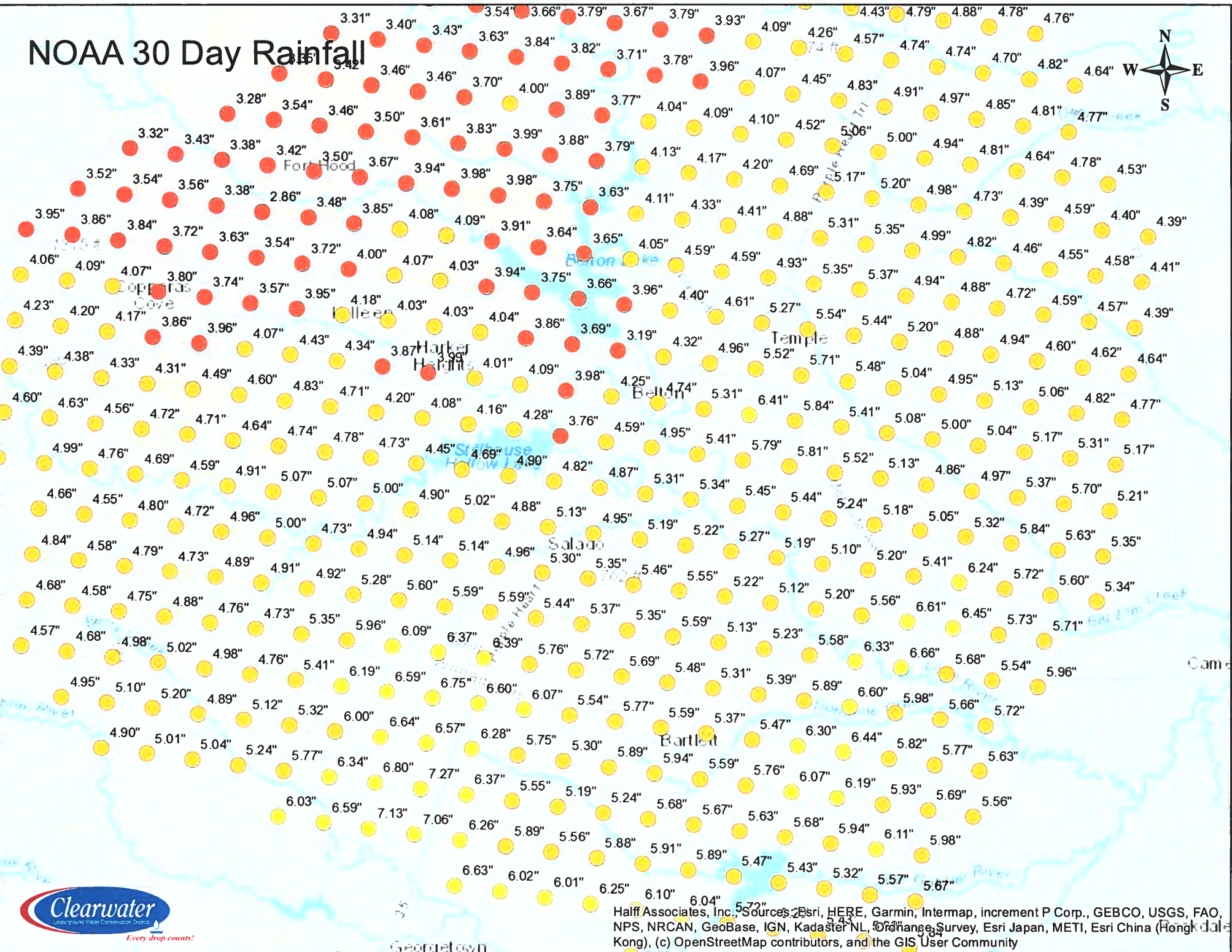


Period Of Record

Water Level Missing Data

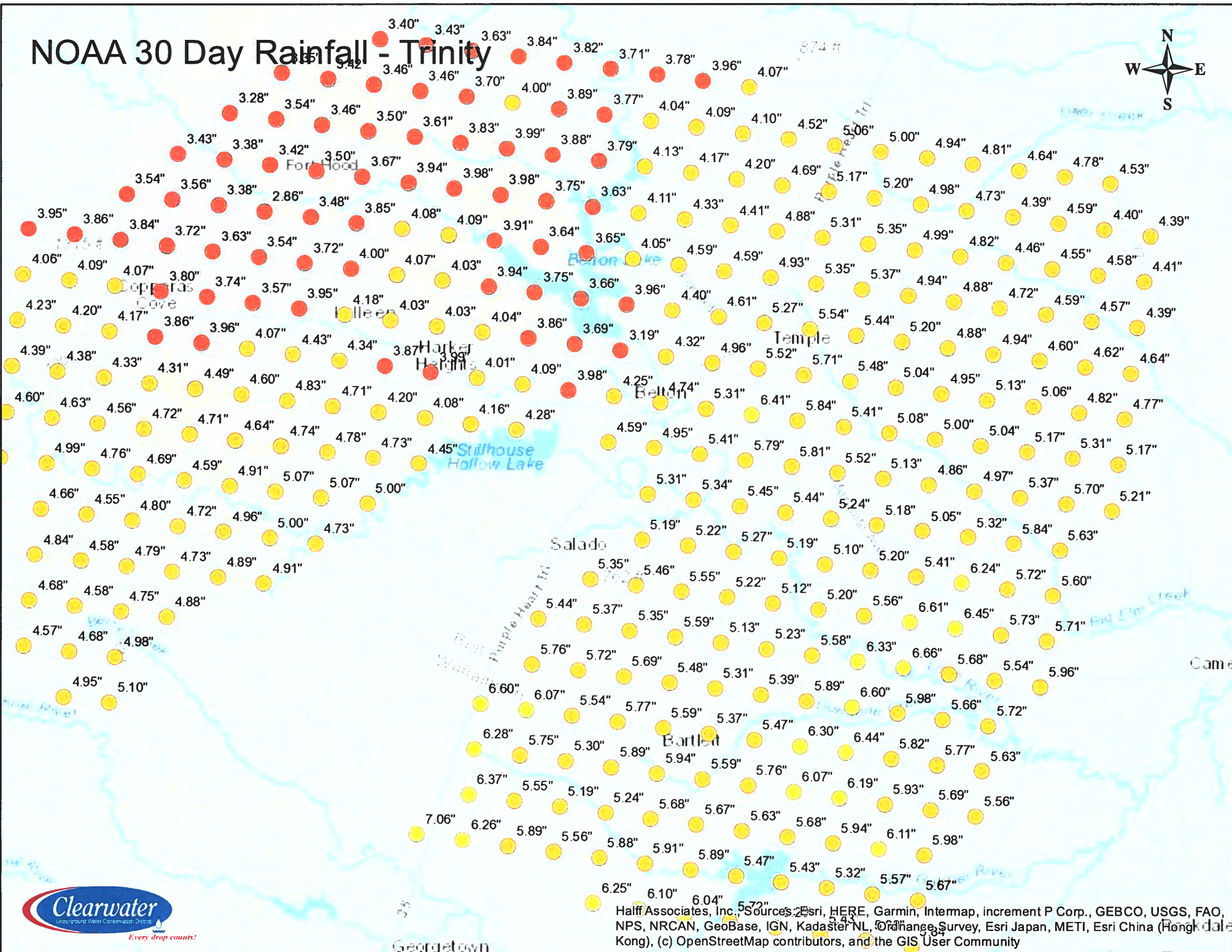


NOAA 30 Day Rainfall



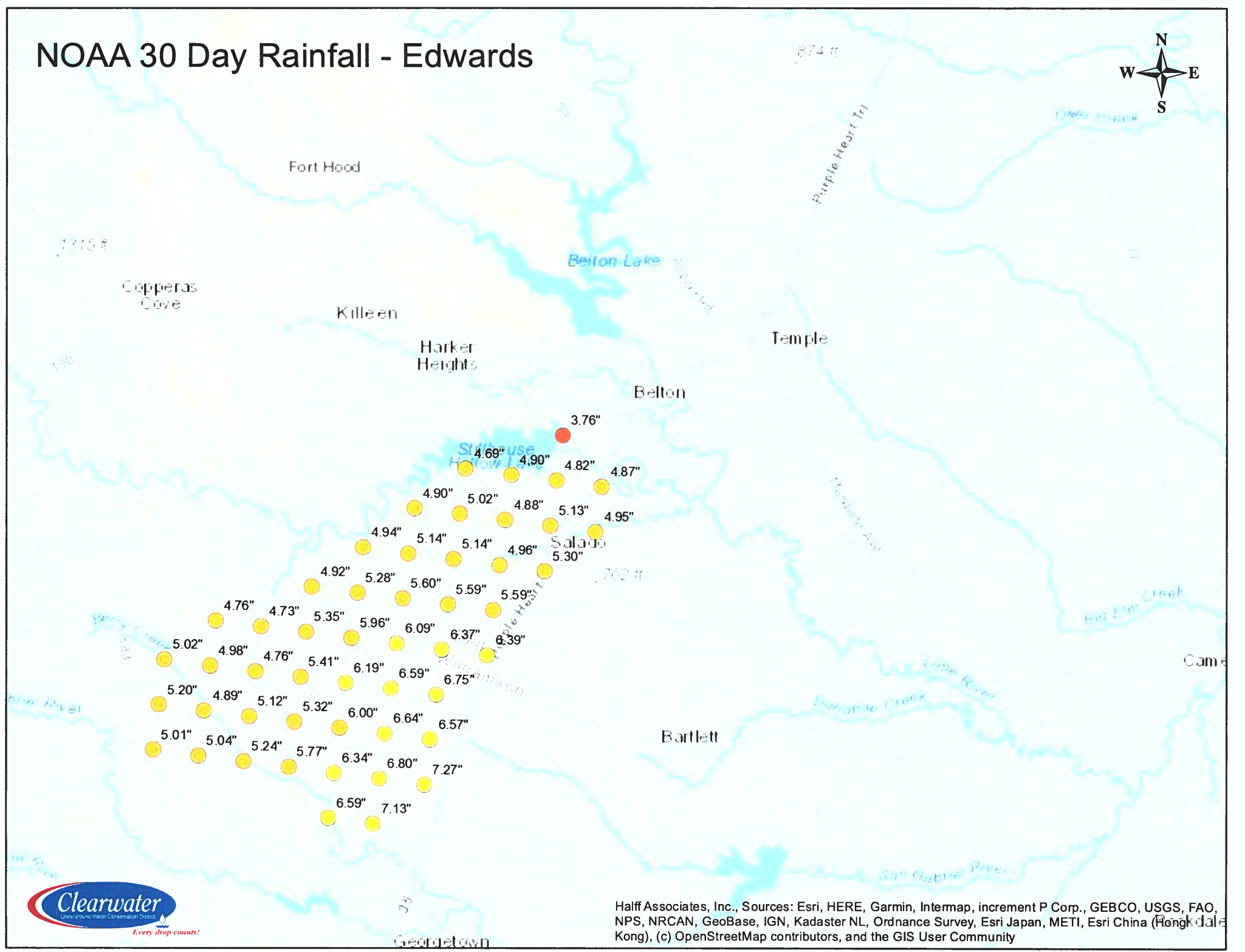
Half Associates, Inc., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

NOAA 30 Day Rainfall - Trinity



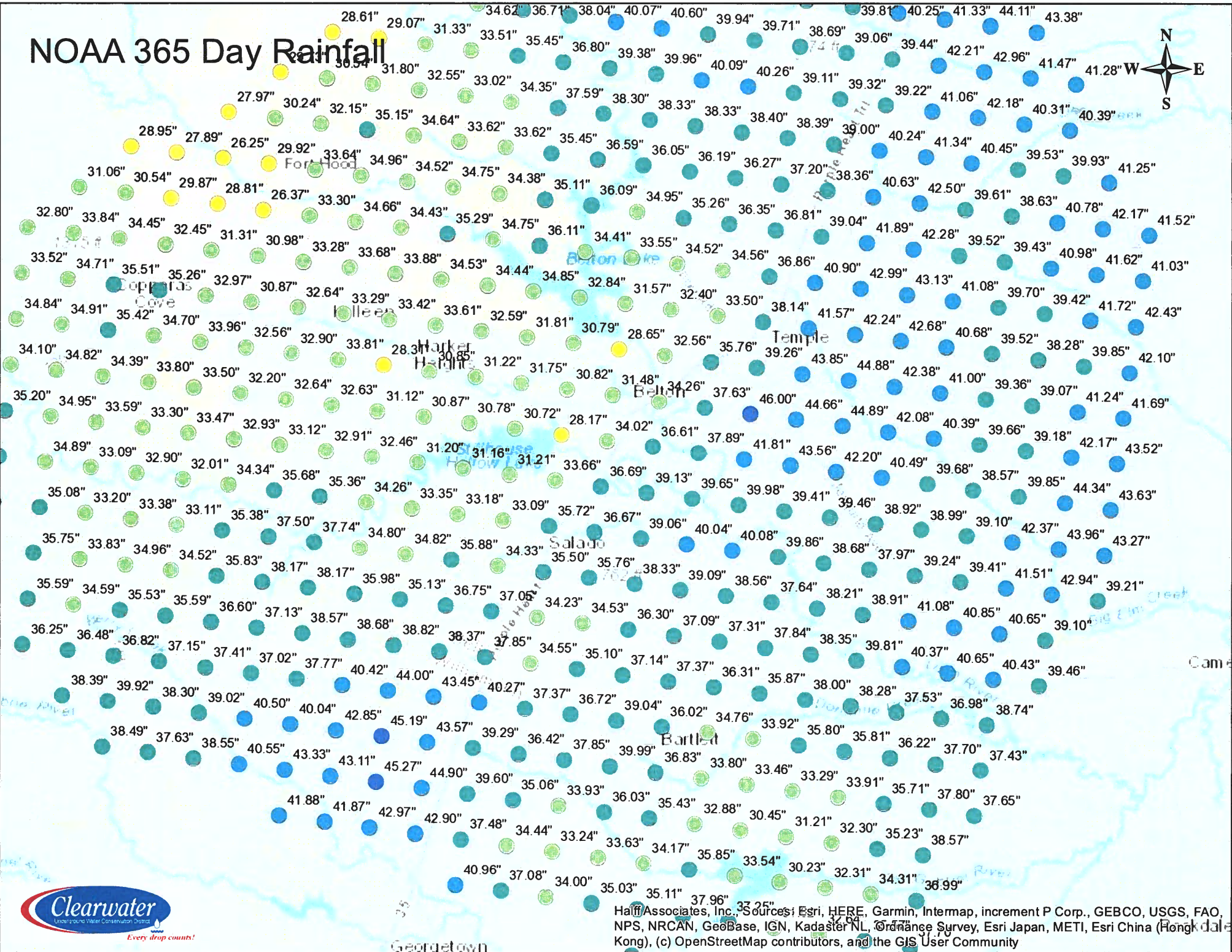
Half Associates, Inc., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

NOAA 30 Day Rainfall - Edwards



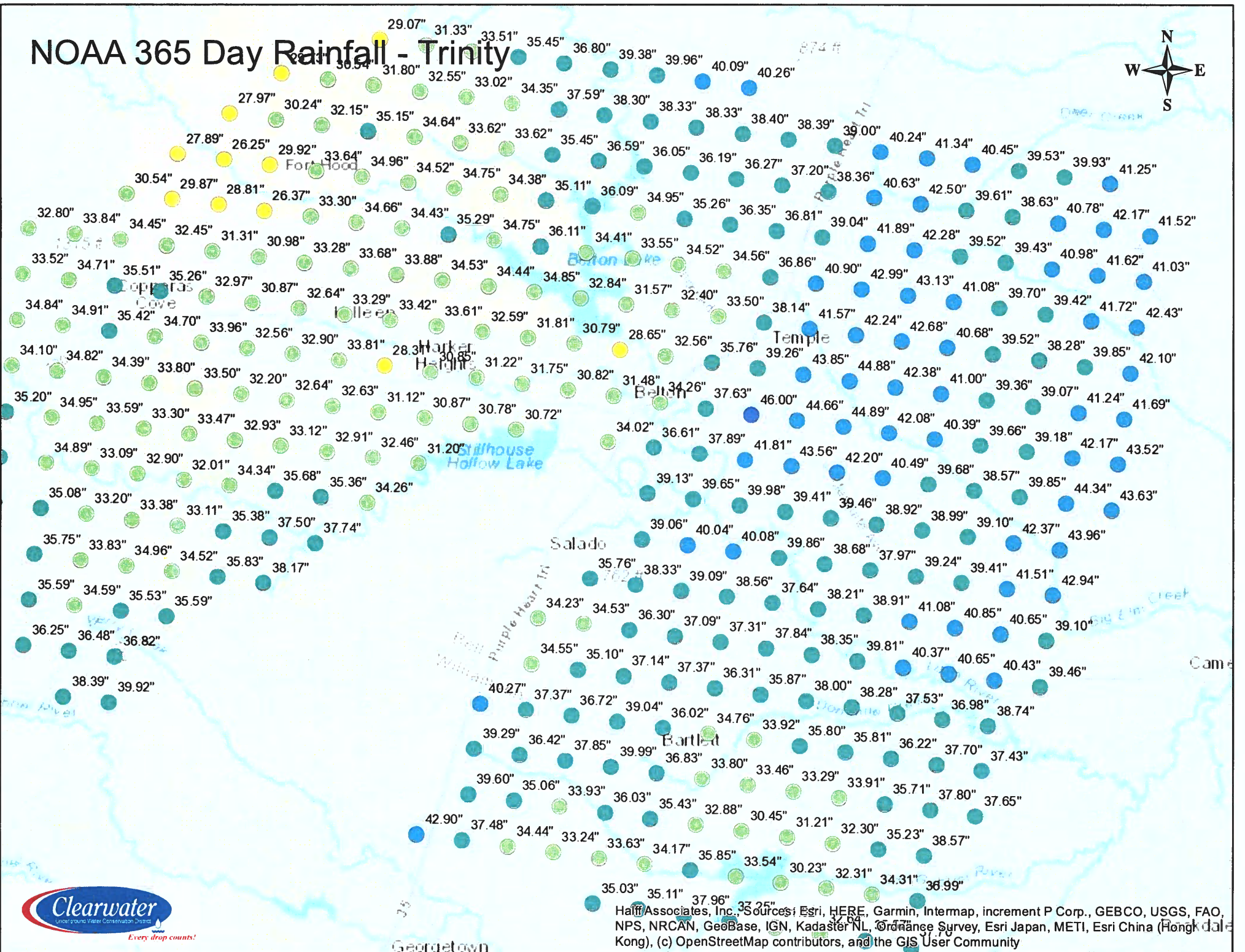
Half Associates, Inc., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

NOAA 365 Day Rainfall



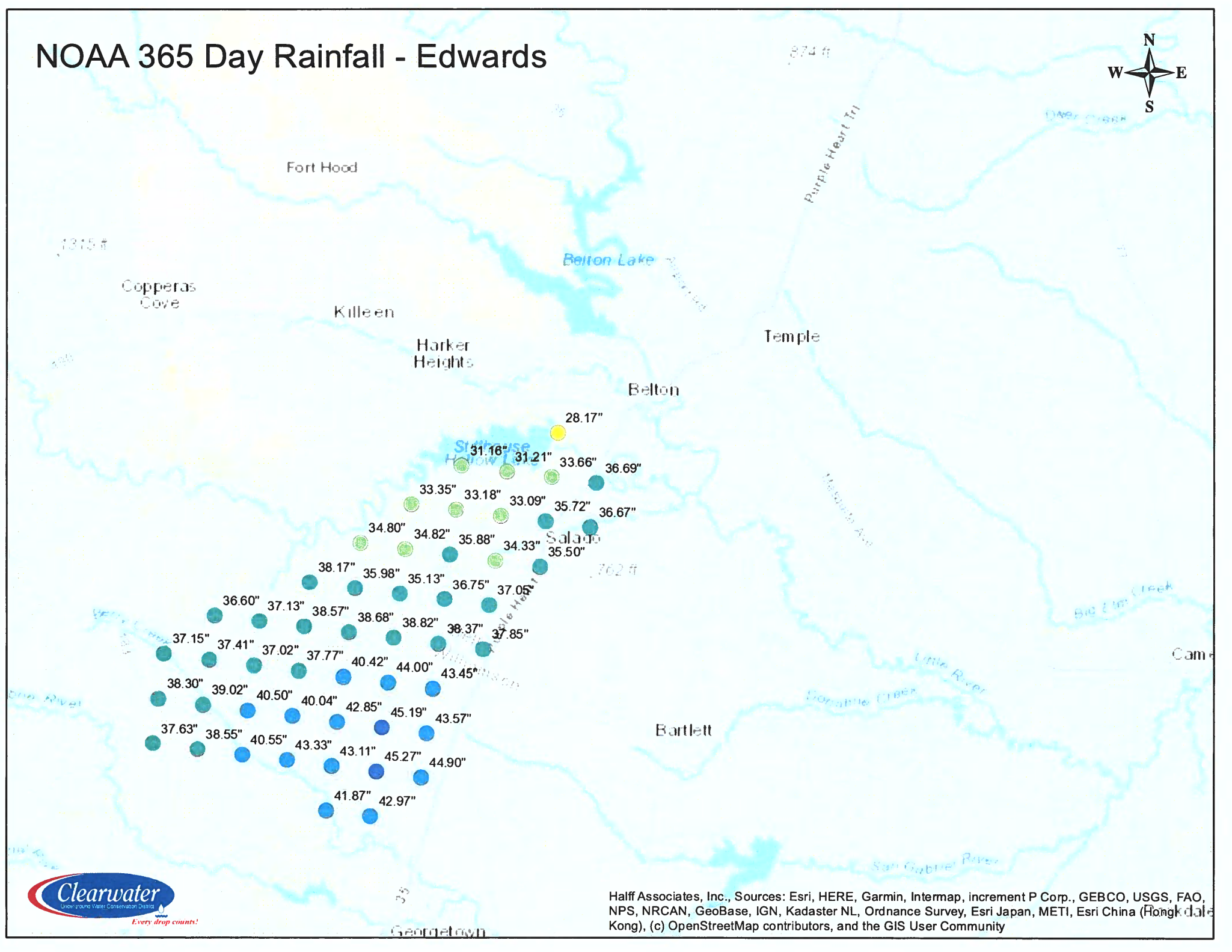
Half Associates, Inc. Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

NOAA 365 Day Rainfall - Trinity



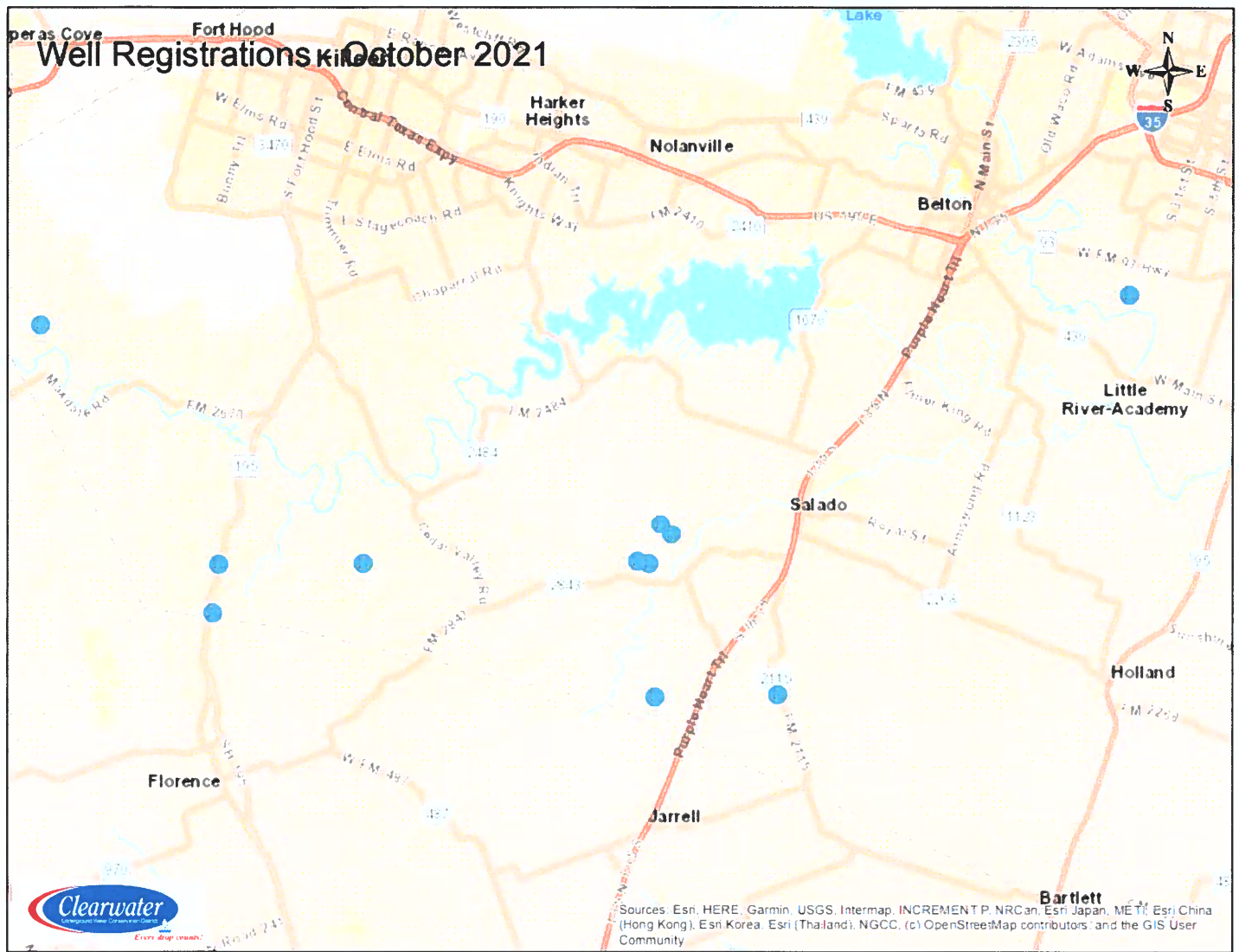
Half Associates, Inc. Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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 - October 2021



<u>Well #</u>	<u>Well Owner</u>	<u>Address</u>	<u>City</u>	<u>Aquifer</u>	<u>Depth</u>	<u>Use</u>	<u>Status</u>
N2-21-008P	Zachary Baird	968 Prairie Dell Church Rd		Middle Trinity		Domestic	Proposed
E-21-068P	Brian/Angela Charles	633 Oakalla Loop	Killeen	Undeclared	500 ft	Domestic	Proposed
E-21-069P	Patricia Lopatowski	18593 Stillman Valley Rd	Florence	Undeclared	590 ft	Domestic	Active
E-21-070P	Dell Kincaid	1162 Shady Oaks	Salado	Undeclared	880 ft	Domestic	Active
E-21-071P	Maximillian Printz	1507 Hidden Springs Dr.	Salado	Edwards	80 ft	Domestic	Proposed
E-21-072P	Brian Matocha	1401 E. Creekview Dr.	Salado	Undeclared	890 ft	Domestic	Proposed
E-21-073P	Justin Hehs	22621 State HWY 195	Killeen	Undeclared	600 ft	Domestic	Proposed
E-21-074P	Charles Verheyden	2271 River Ranch Rd	Temple	Undeclared	60 ft	Domestic	Proposed
E-21-075GU	Larry Kruzic	13105 Algerita Terrace	Manchaca	Alluvium	15 ft	Domestic	Abandoned
E-21-076P	Dolores Lorta	24560 SH 195	Killeen	Undeclared	560 ft	Domestic	Proposed
E-21-077P	Ike Springer	1405 Crystal Springs Court	Salado	Undeclared	850 ft	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								0
Dec								0
Total 2021	21	59	1	4	7	0	0	92
Totals	4445	1123	106	40	68	26	121	5929

Adjustments

Adjustment Type	Exempt Wells		Non-Exempt Wells			Monitor Wells		Total
	Grandfathered	New	Grandfathered	Class 1	Class 2	Water	Envr	
2002-Present	4445	1123	106	40	68	26	121	5929
Never Drilled	N/A	-27	N/A	-3	-4	0	-1	-35
Plugged	-203	-42	-18	-2	-1	-2	-53	-321
Totals	4242	1054	88	35	63	24	67	5573