



Clearwater Underground Water Conservation District

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www.cuwcd.org

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Gary Young

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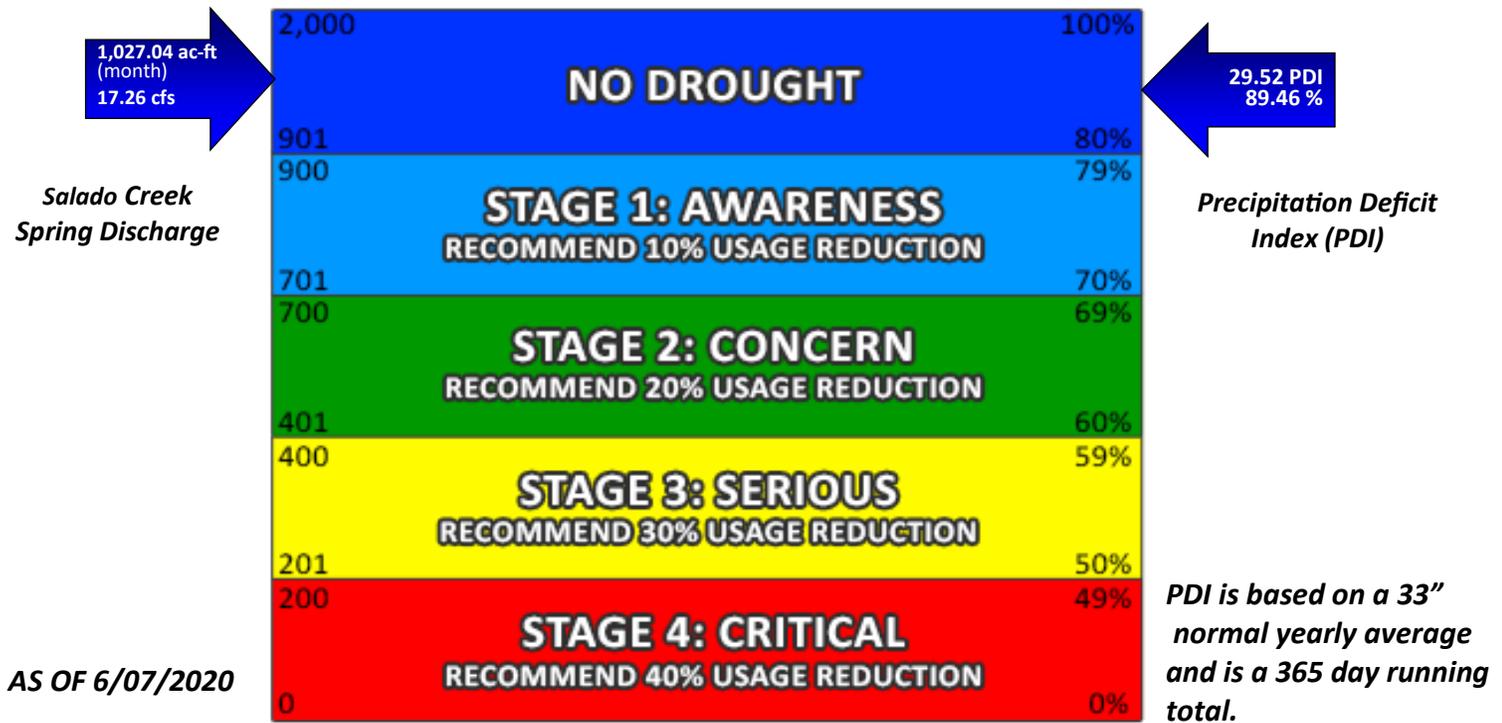
Clearwater Staff Reports

June 10, 2020

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

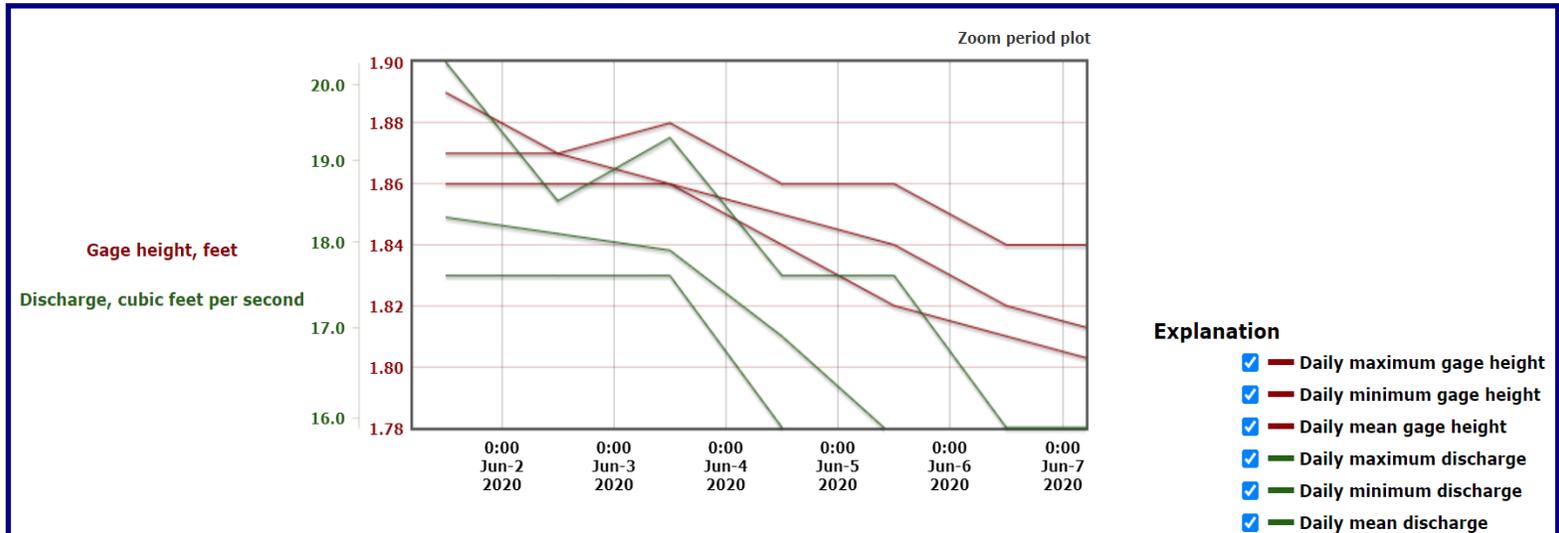
Edwards BFZ Aquifer—Drought Status Report

NO DROUGHT



USGS 08104300 Salado Ck at Salado, TX

Gage height, feet Discharge, cubic feet per second



Edwards BFZ Aquifer

Initiation and Termination of Drought Stages

Initiation of Stages: The Precipitation Deficit Index (PDI), the daily maximum spring discharge, and average spring discharge values shall be monitored and presented to the District Board at the monthly Board meeting. Drought stages shall be triggered when either the PDI or the average spring discharge measured via stream flow gauges in Salado Creek fall below the trigger level for the periods described below:

***PDI:** Monitored daily on a running-year basis over a defined area consisting generally of the area of the Edwards aquifer and contributing areas in Bell and portions of Williamson Counties and which is based on NEXRAD rainfall data provided by the National Oceanic and Atmospheric Administration. The PDI trigger condition must be exceeded for a period of 28 consecutive days.*

***Spring Discharge:** Monitored daily with the daily maximum discharge values averaged over a period of five consecutive days on a running five day basis.*

Termination of Stages: Drought stage in effect shall be reduced or terminated when both the PDI and the average spring discharge values are greater than the trigger conditions of the drought stage in effect for t

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***Spring Discharge:** Monitored daily with the daily maximum discharge values averaged over a period of seven consecutive days on a running seven day basis.*

Trinity Aquifer—Drought Status Report

NO DROUGHT

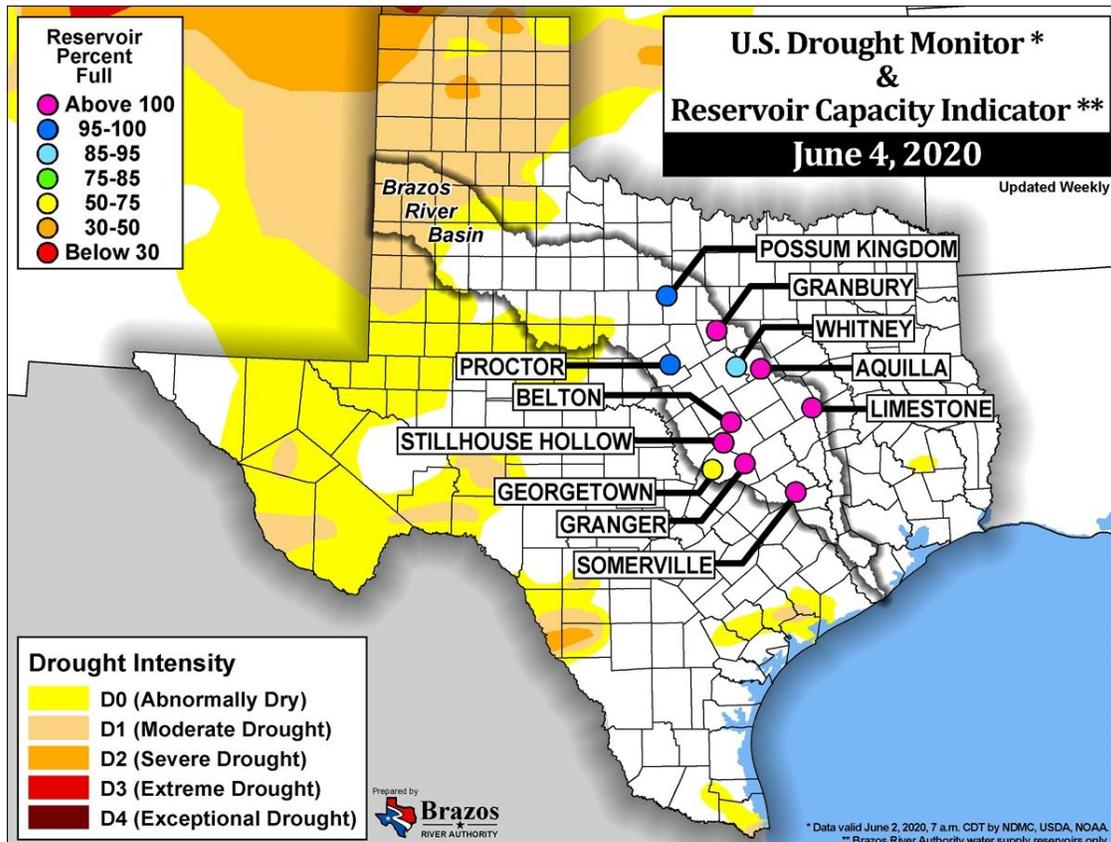


← 30.42 PDI
92.16 %

Precipitation Deficit Index (PDI)

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

AS OF 06/07/2020



Edwards BFZ Aquifer

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Education Outreach Highlights 6/10/20

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).

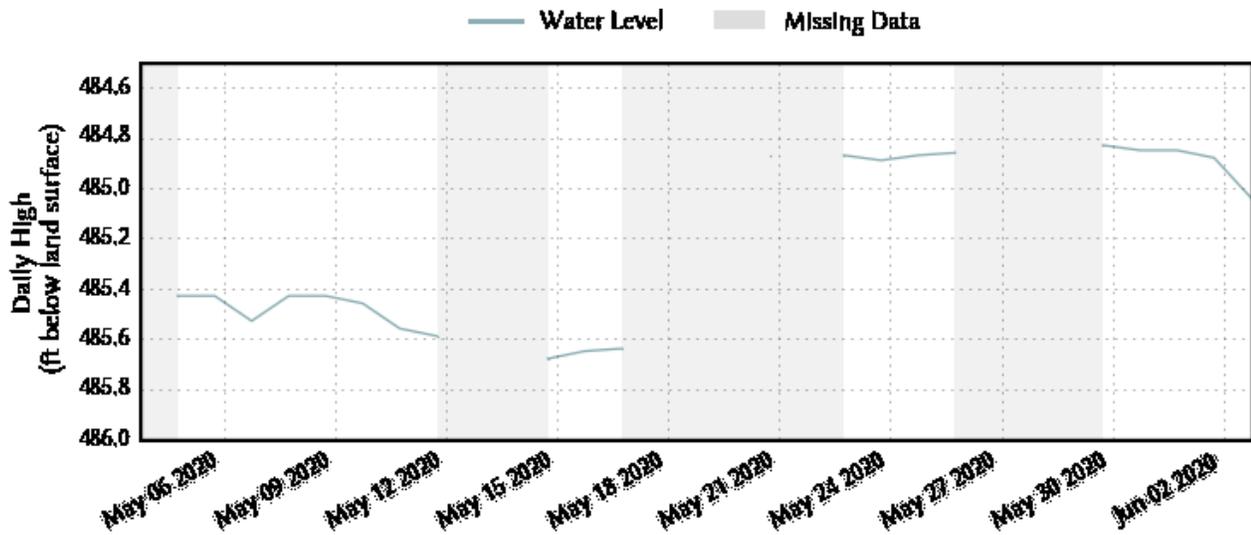
- Continually adding more information to the website to make it a valuable resource to Bell County along with utilizing more social media.

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).

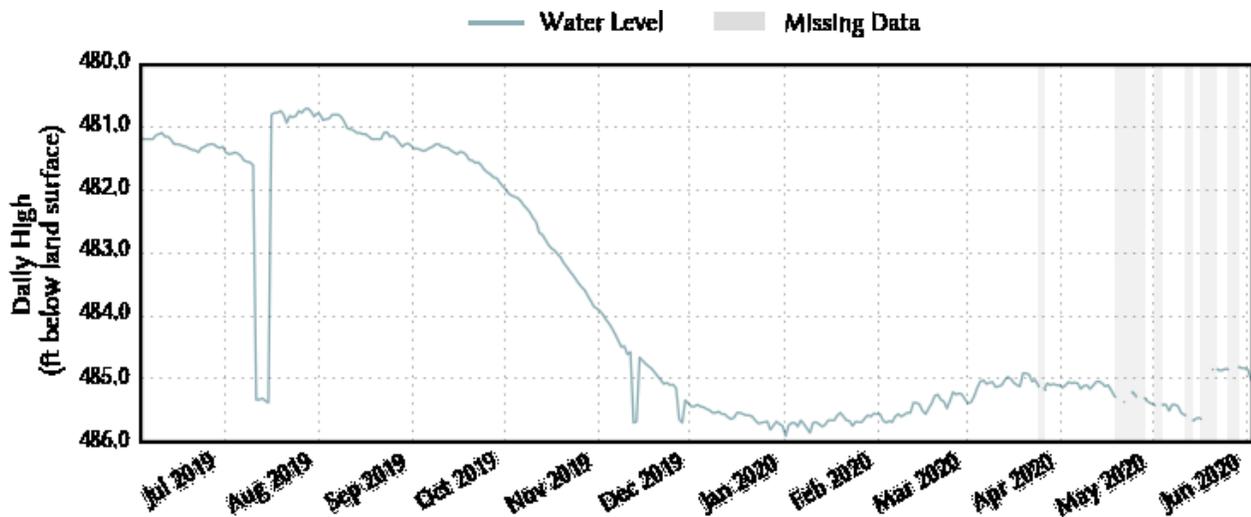
- The 2019 Annual Report was approved at the March meeting.

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

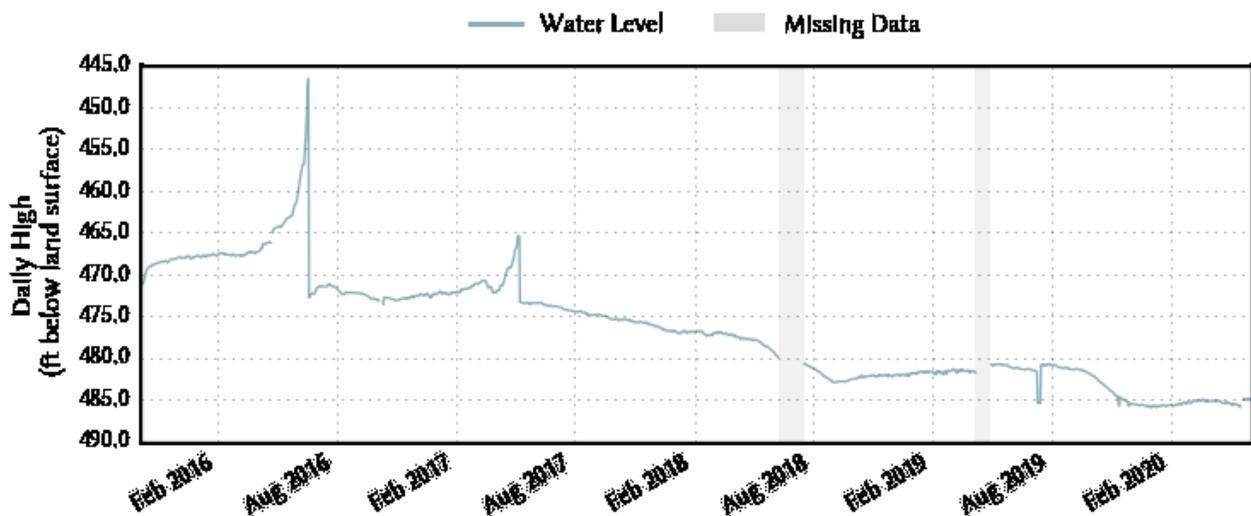
Last 30 Days



1 Year



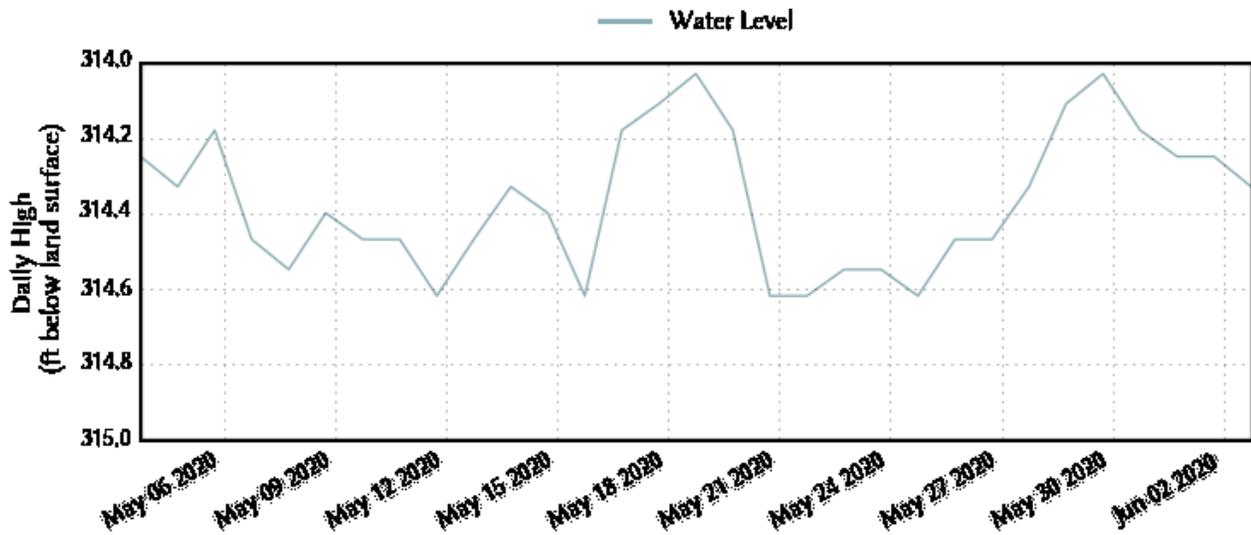
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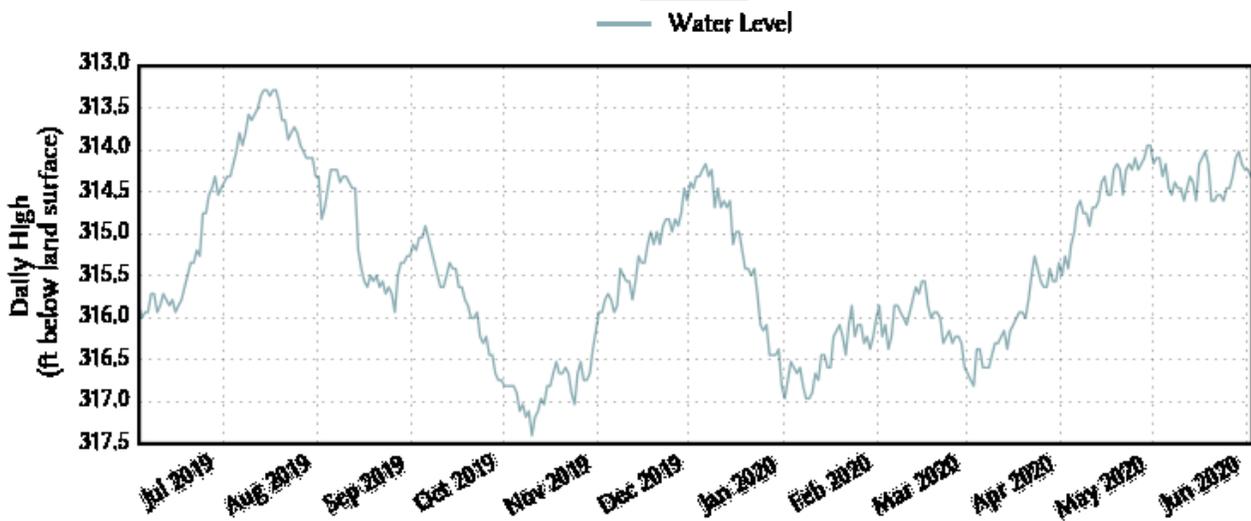
May 2020

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

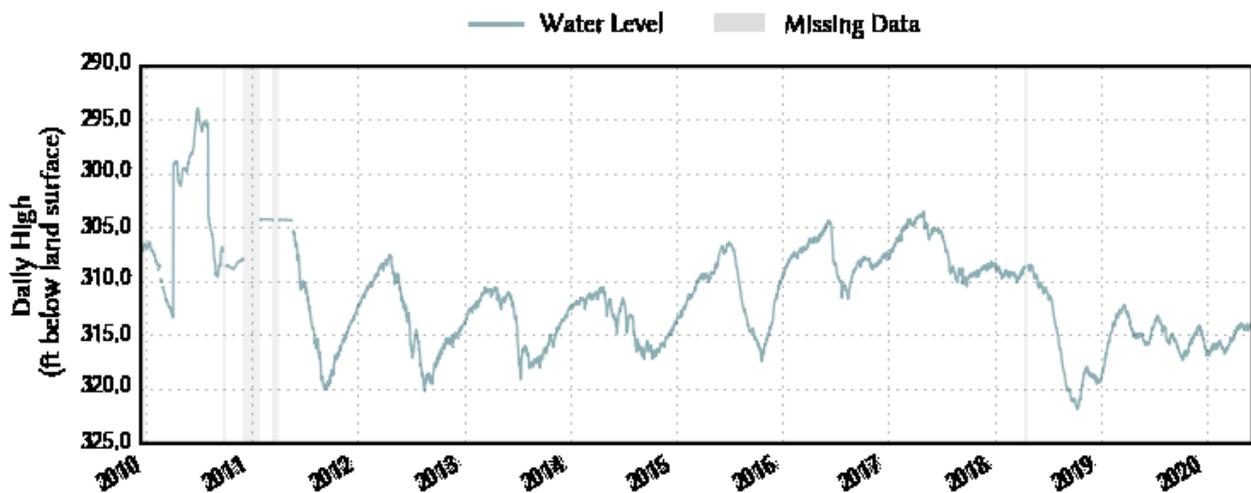
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1 Year



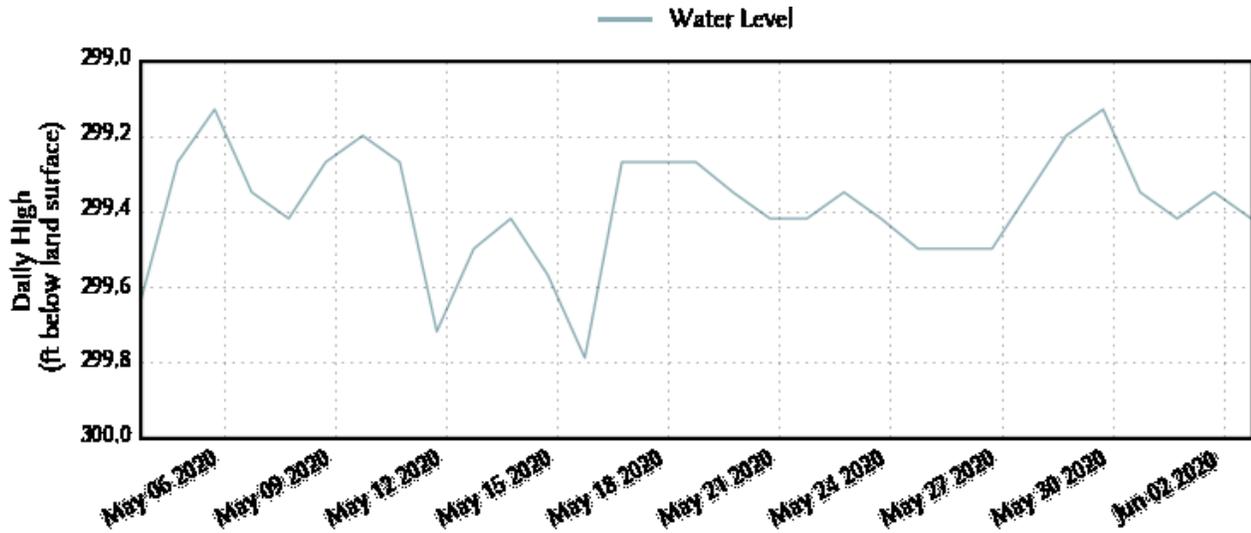
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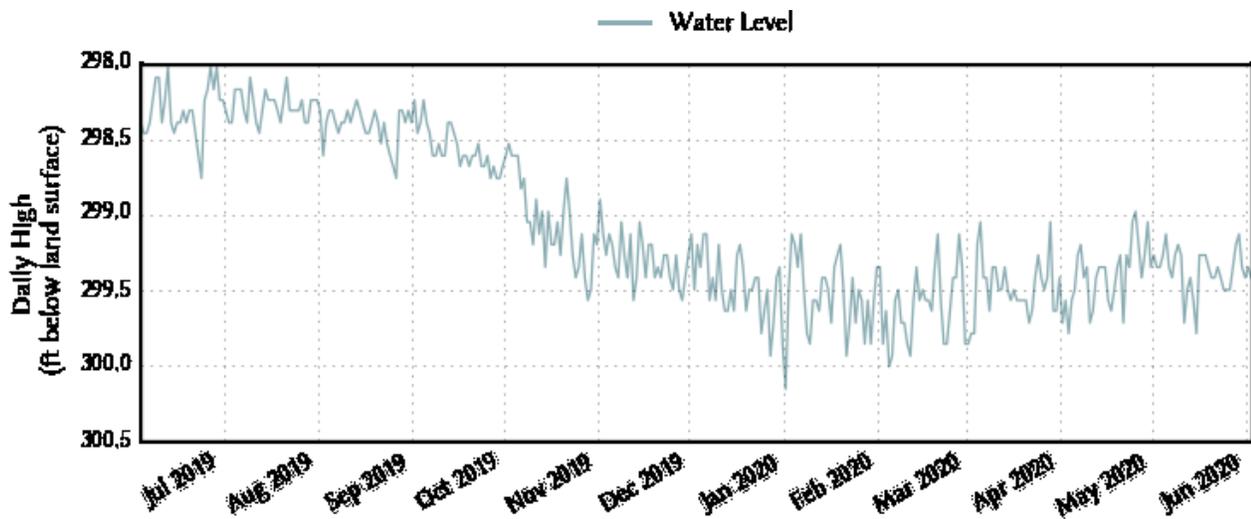
May 2020

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

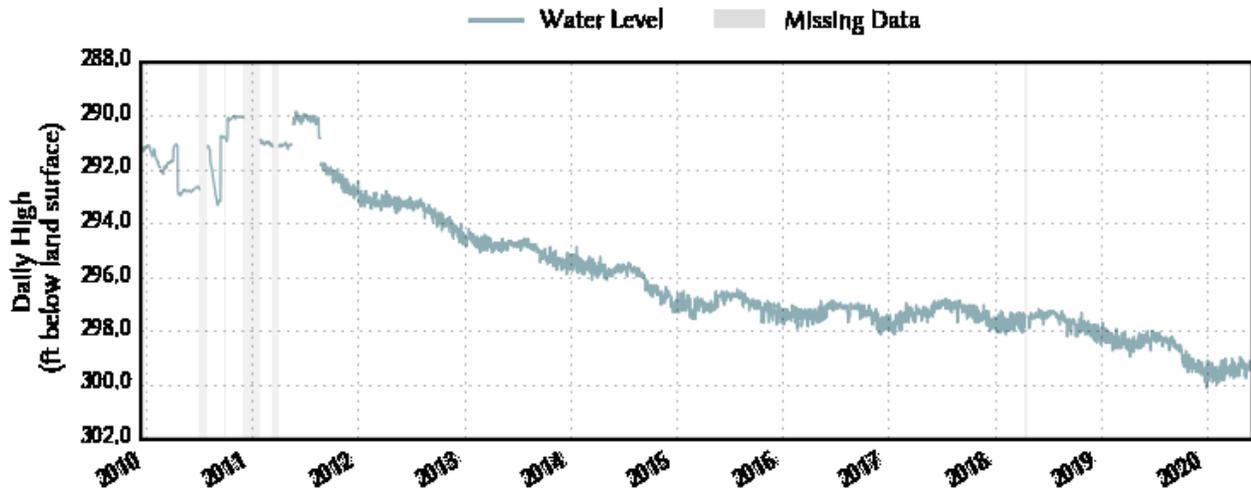
Last 30 Days



1 Year



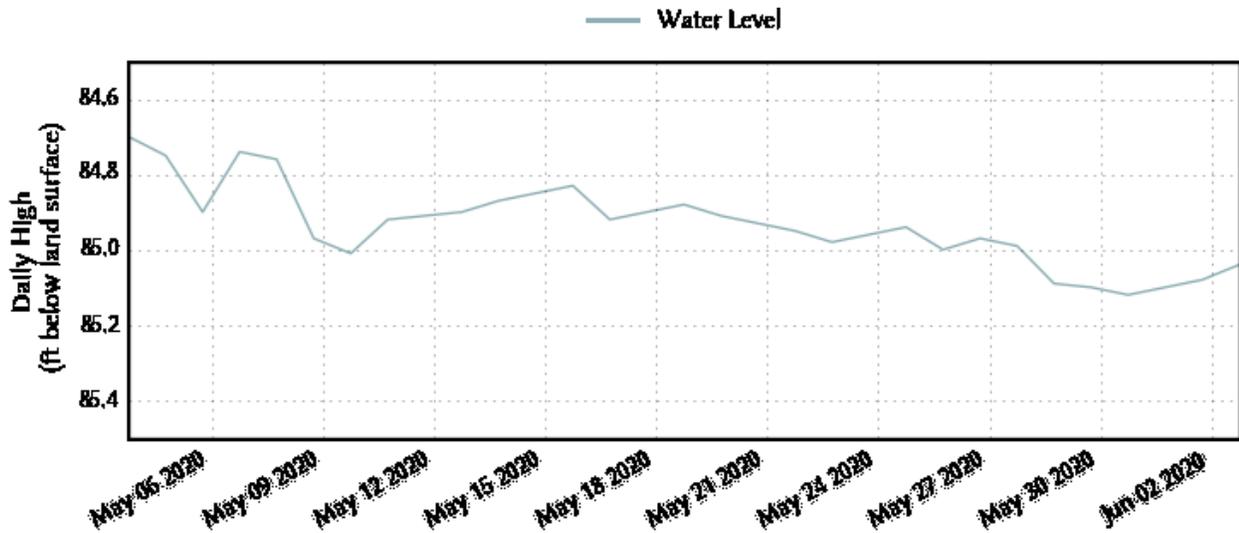
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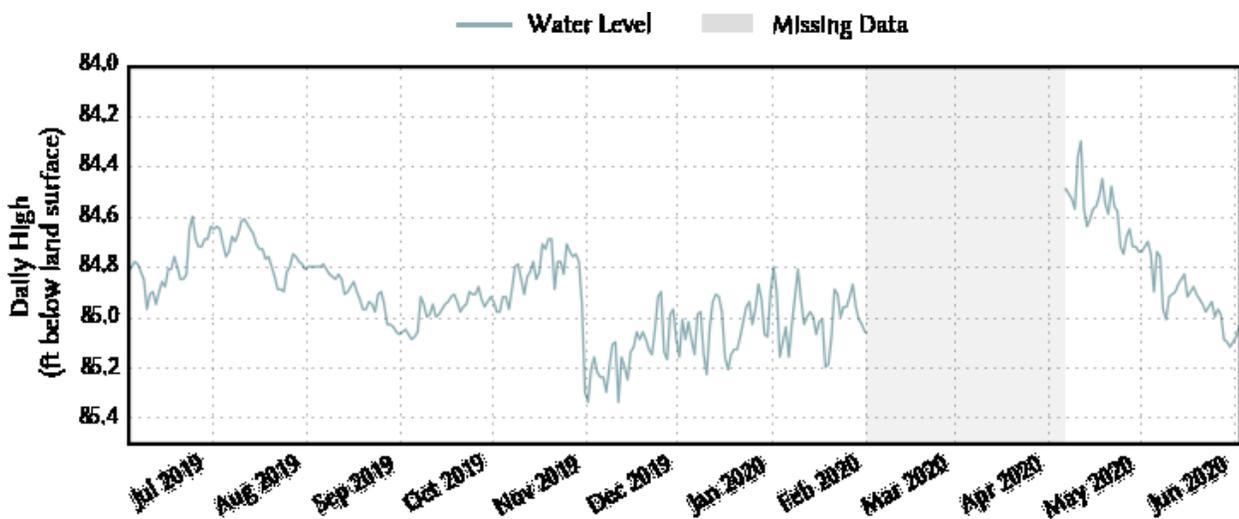
May 2020

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

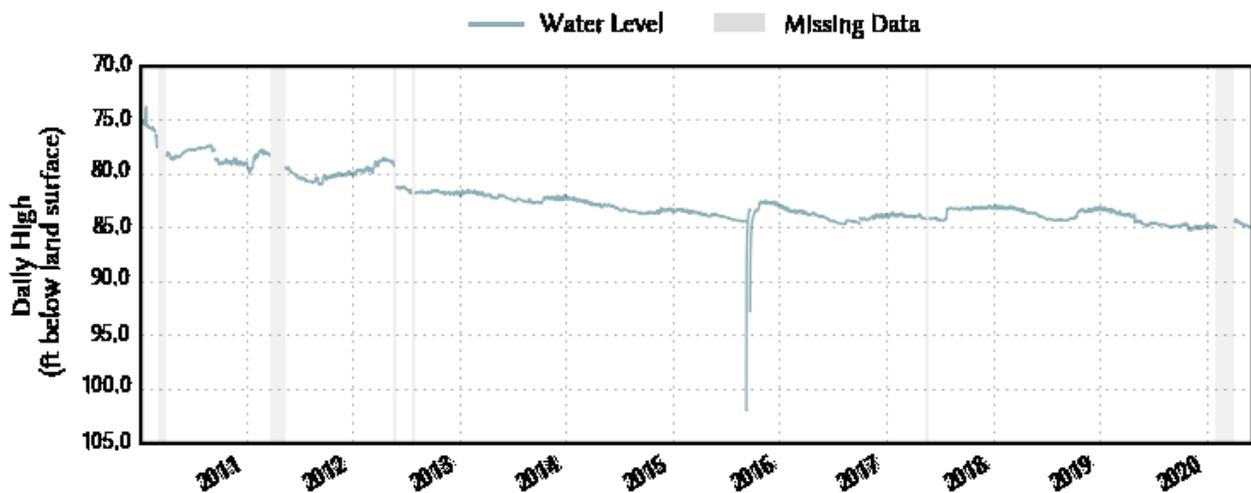
Last 30 Days



1 Year



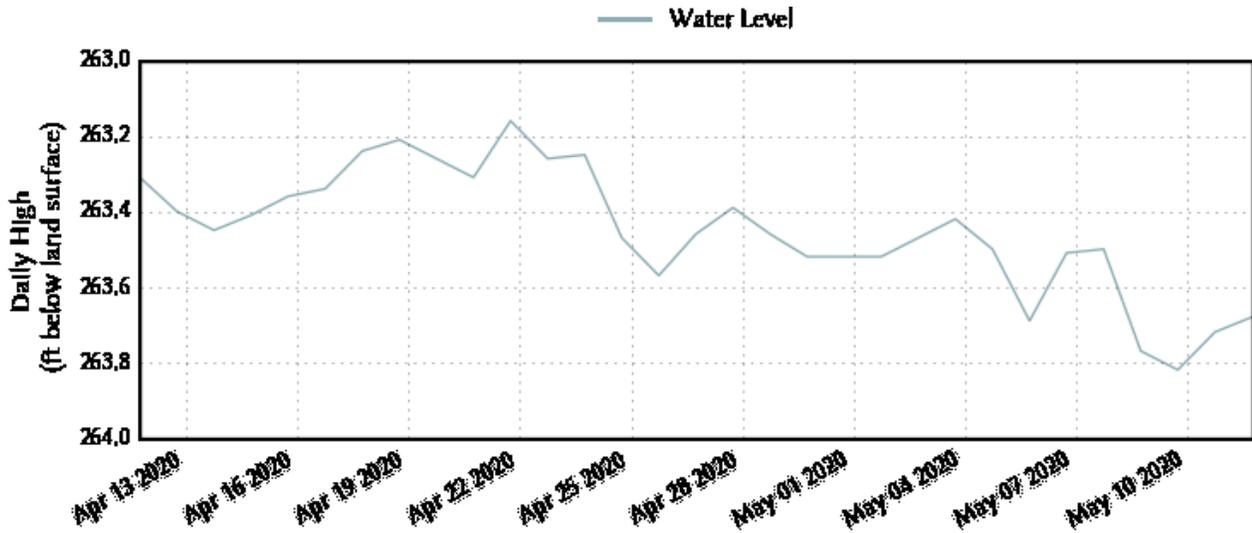
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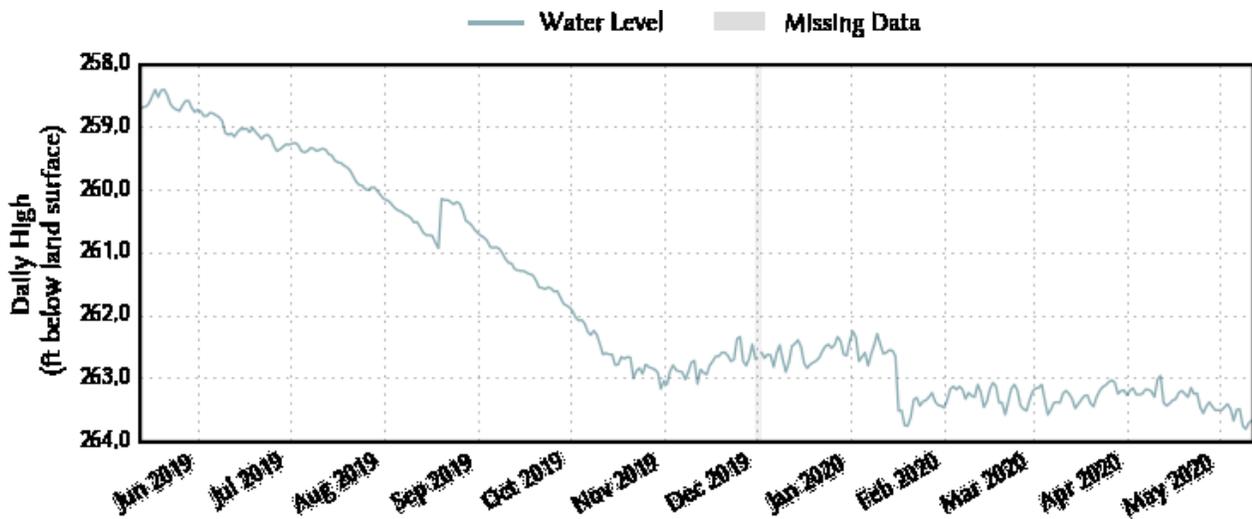
May 2020

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

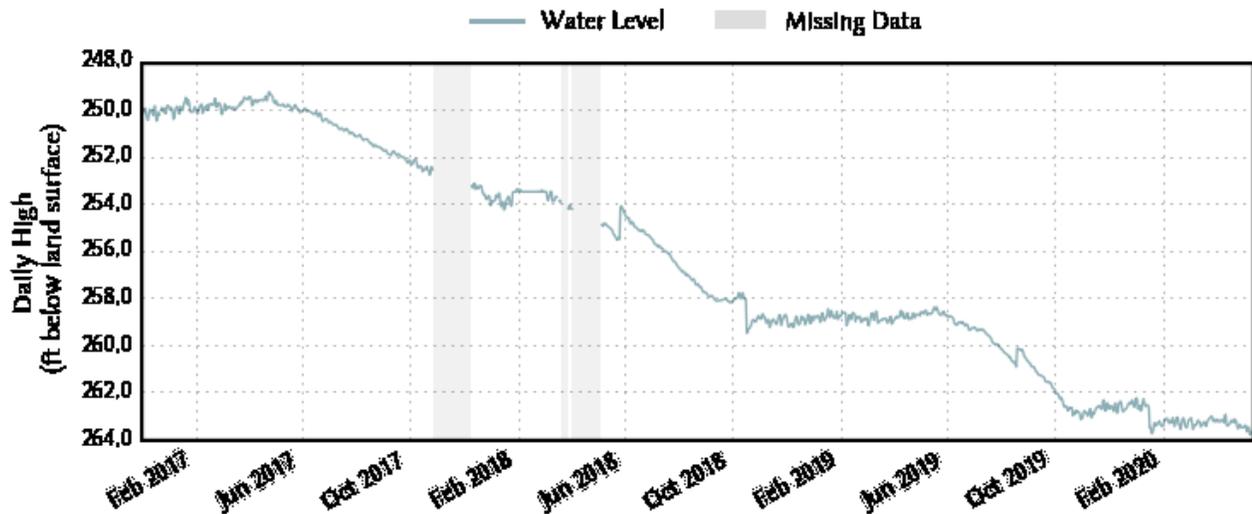
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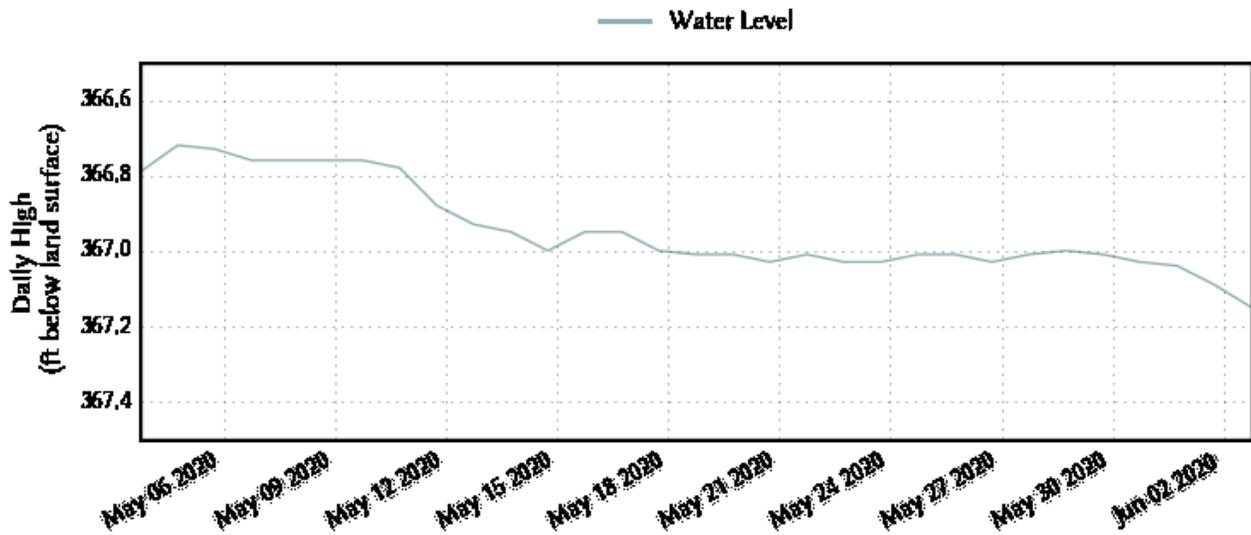
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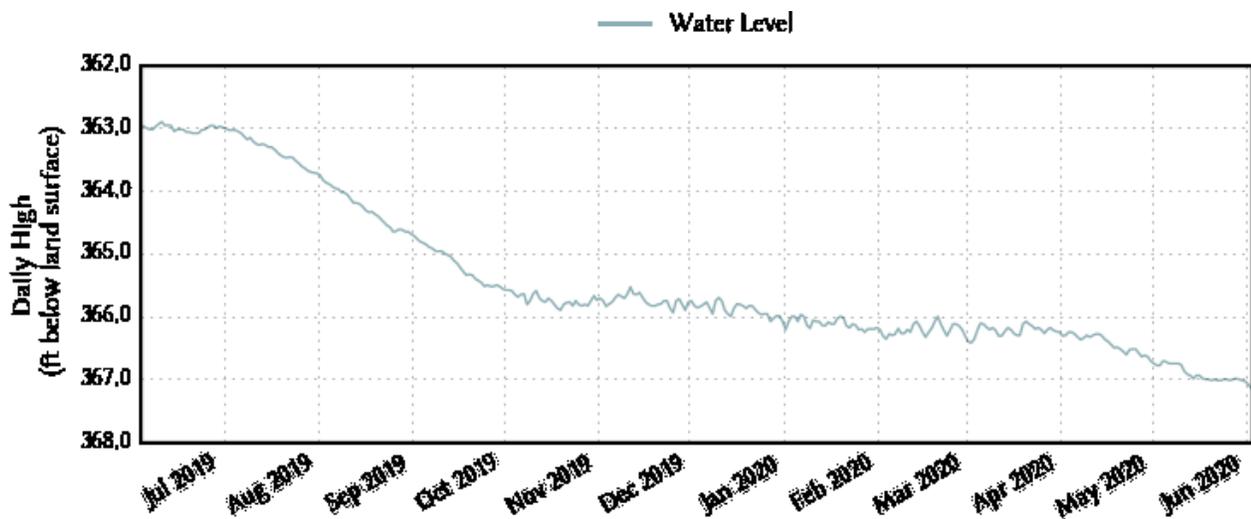
May 2020

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

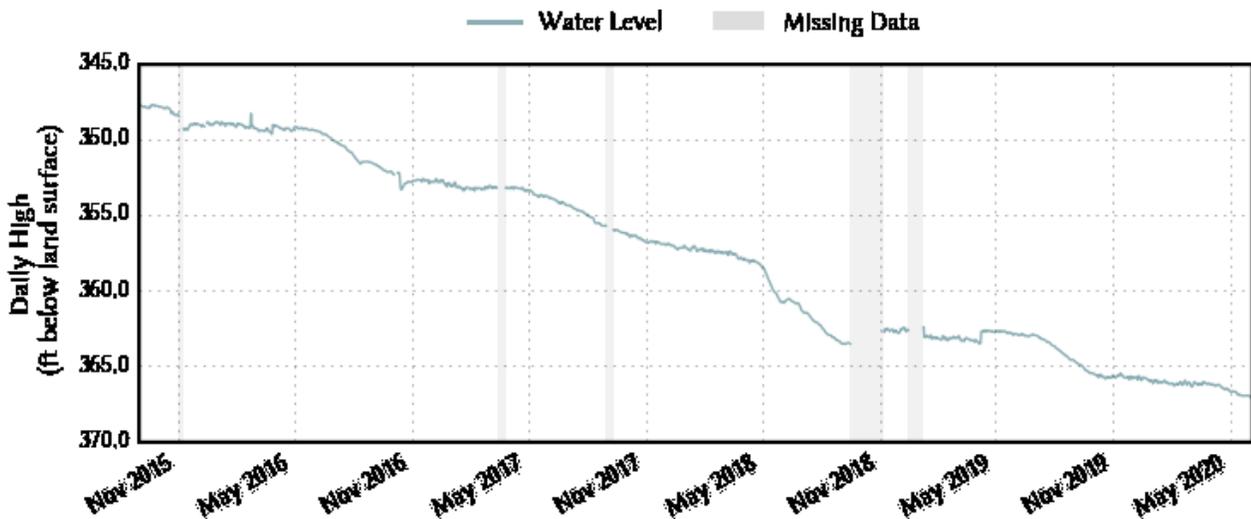
Last 30 Days



1 Year

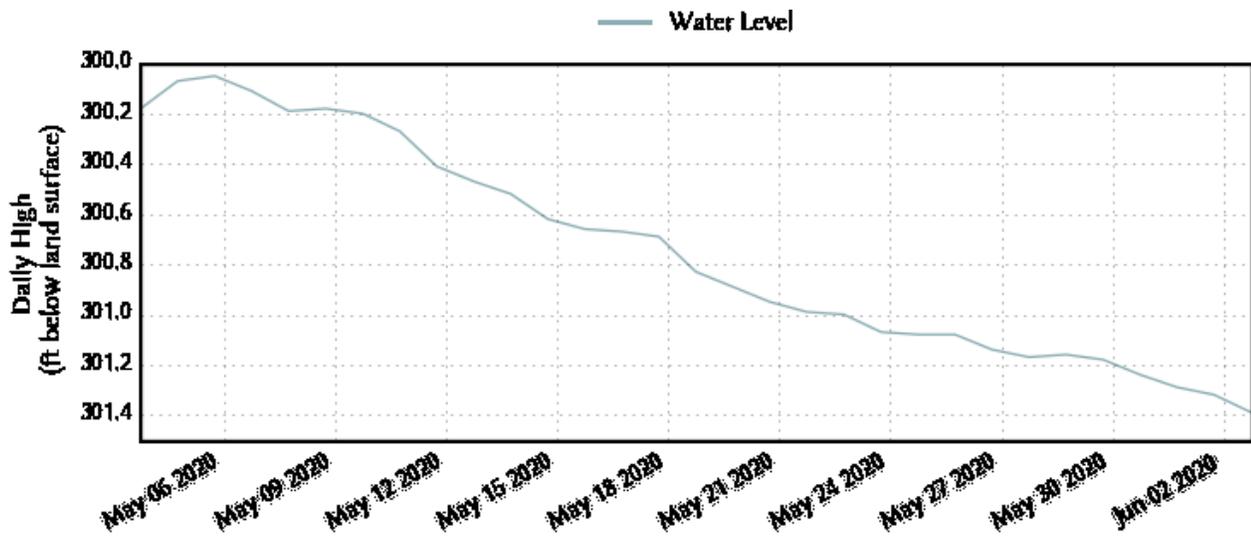


Period Of Record

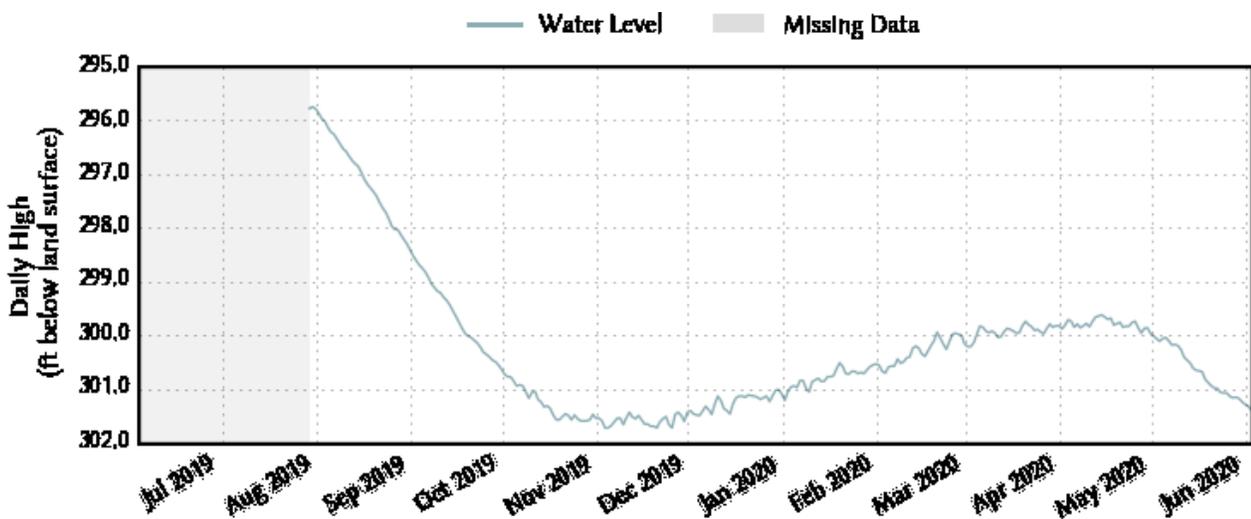


Continuous Monitoring Well # 5802303
(Killeen - River Ridge Ranch Park Well #2)
Lower Trinity Aquifer

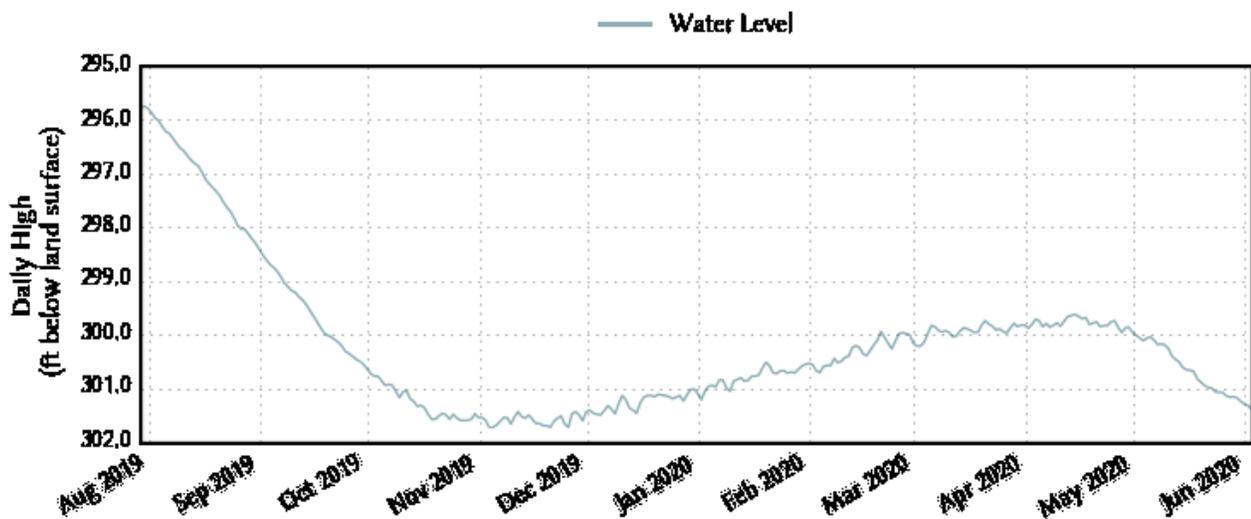
Last 30 Days



1 Year



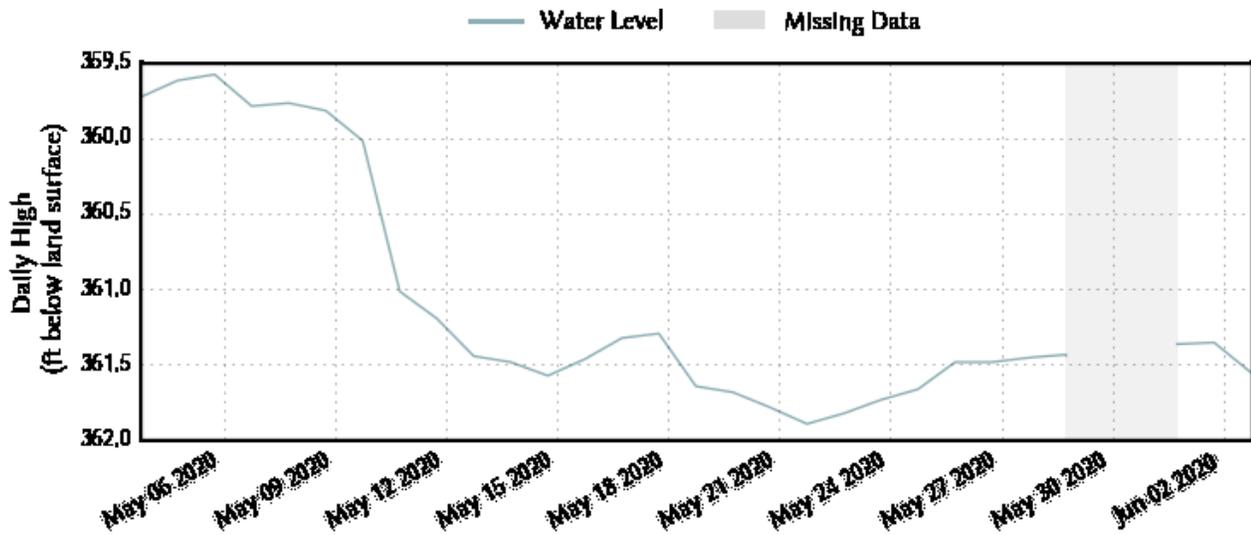
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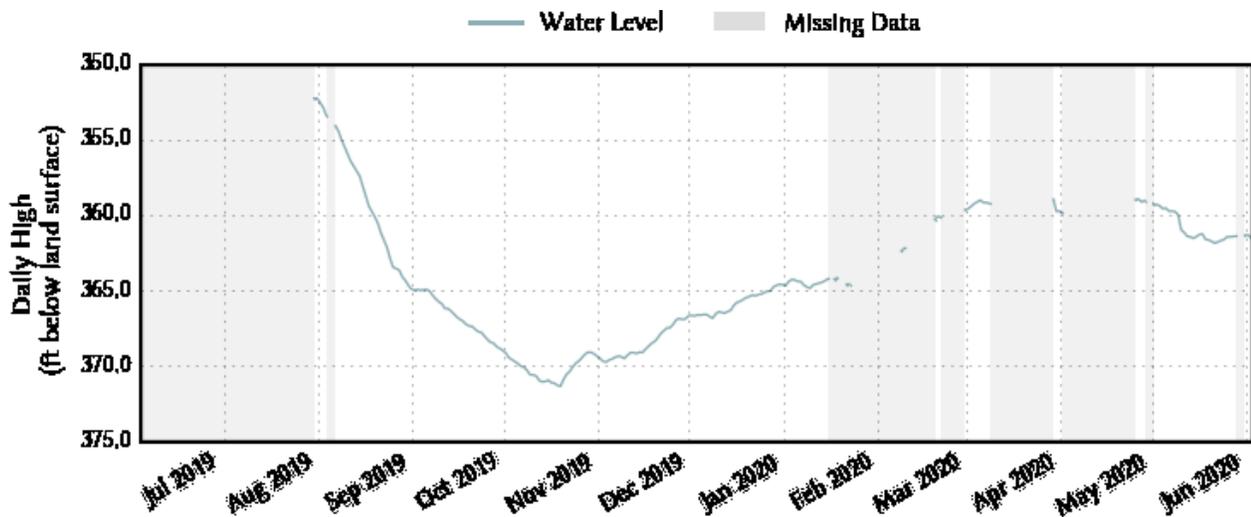
May 2020

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

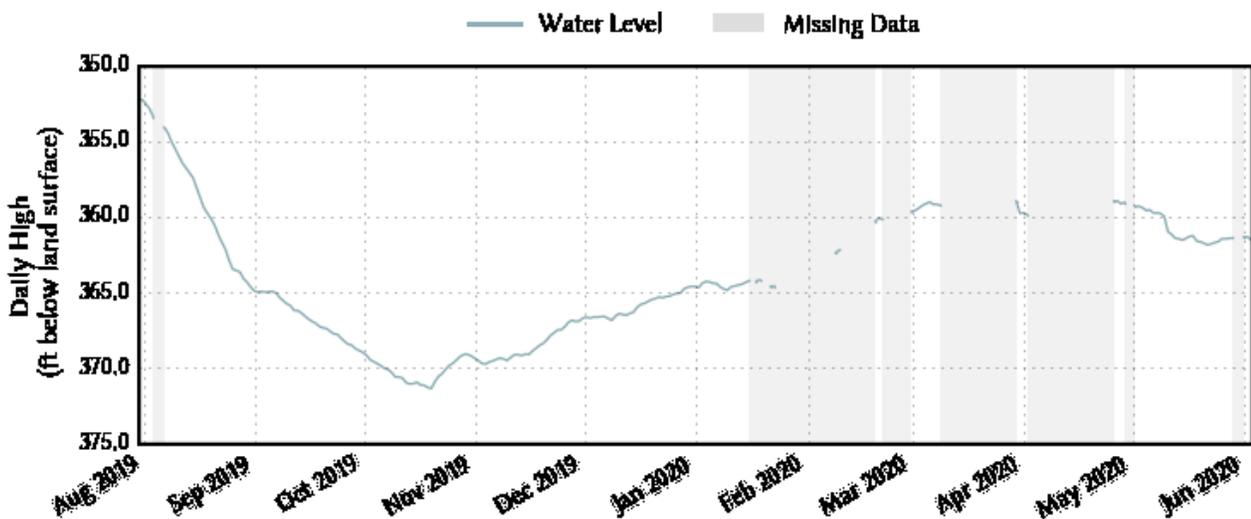
Last 30 Days



1 Year



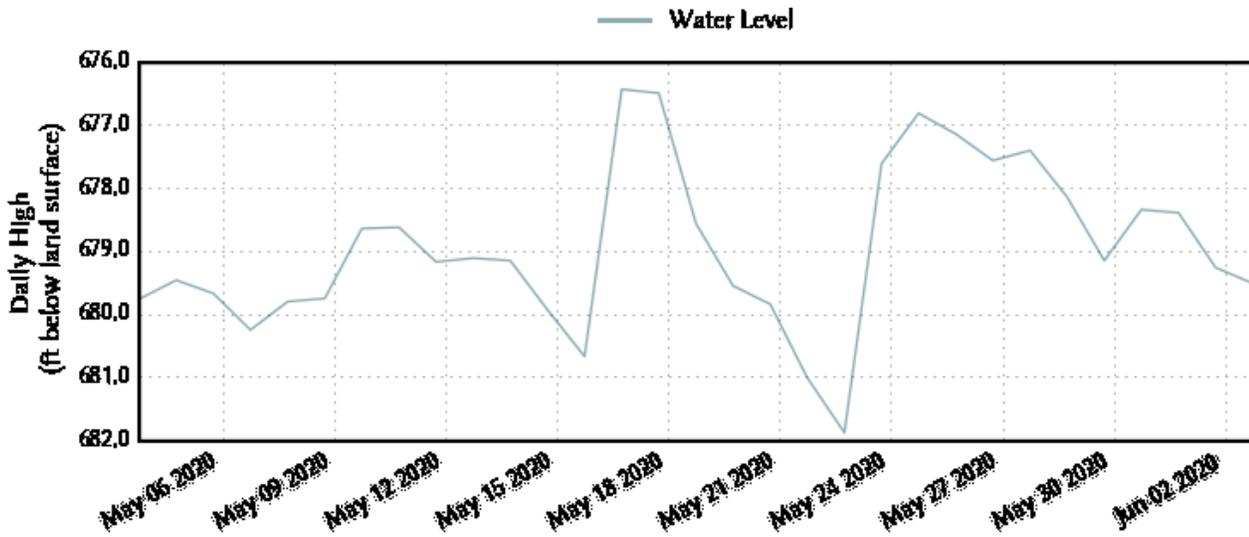
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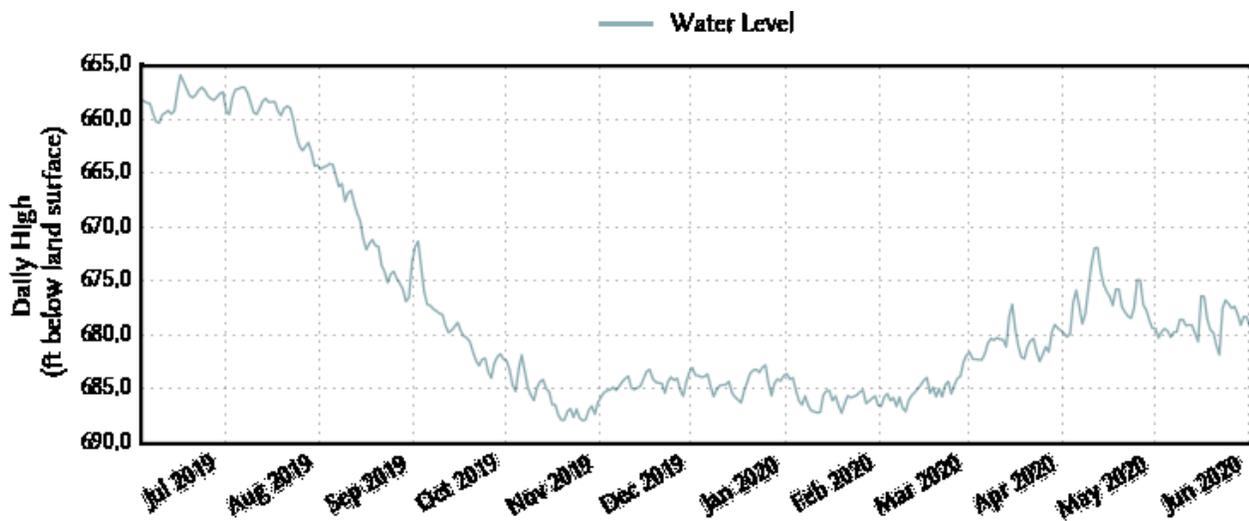
May 2020

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

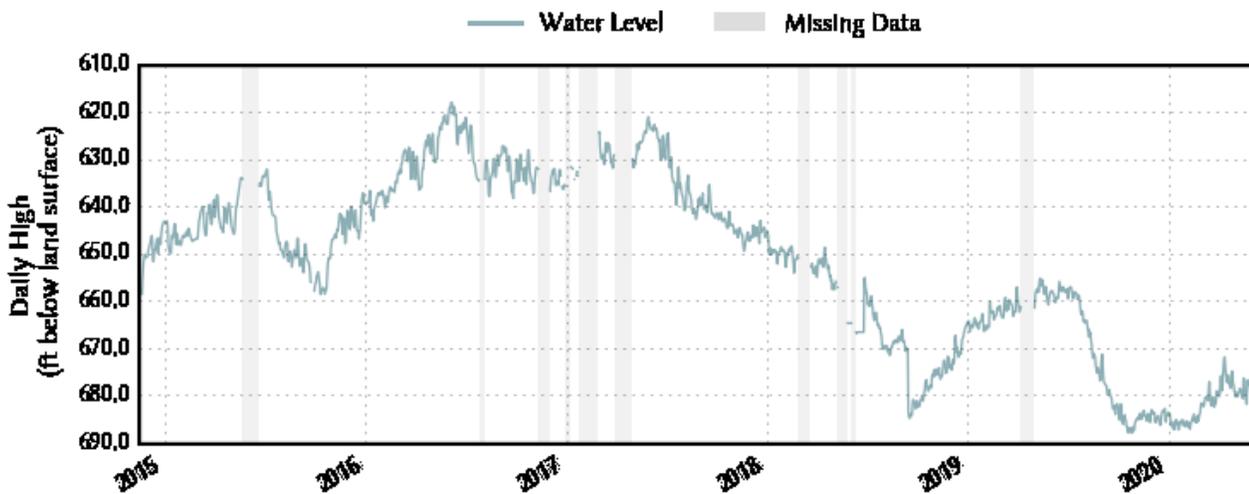
Last 30 Days



1 Year



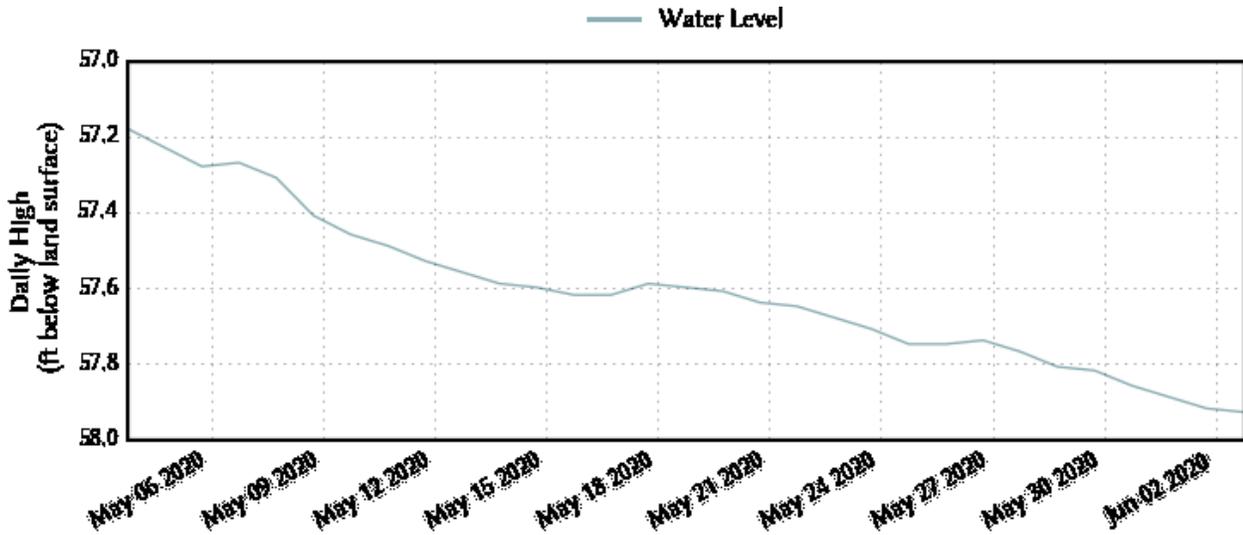
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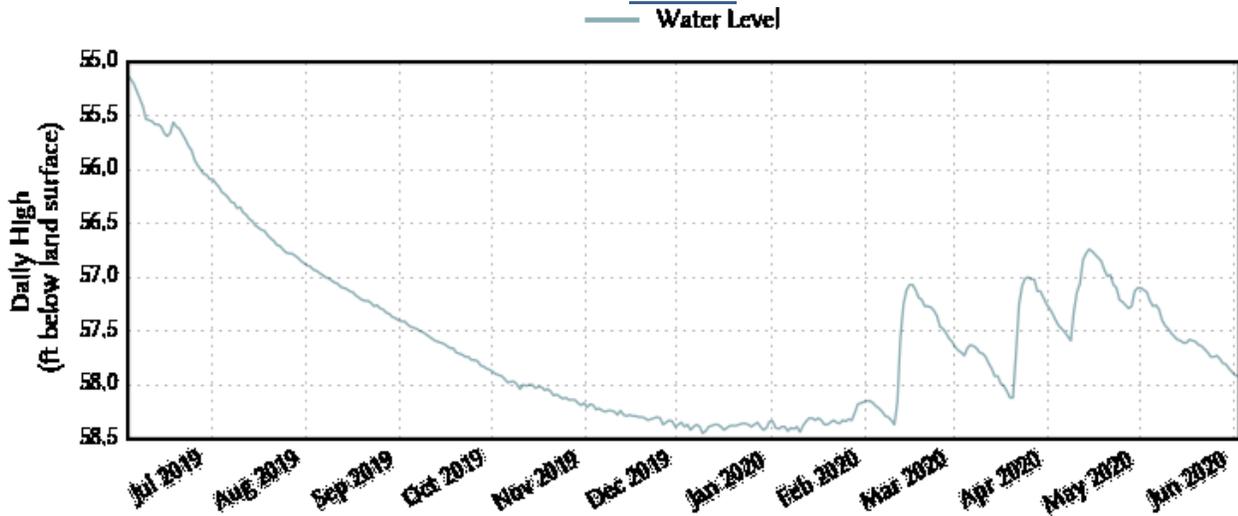
May 2020

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

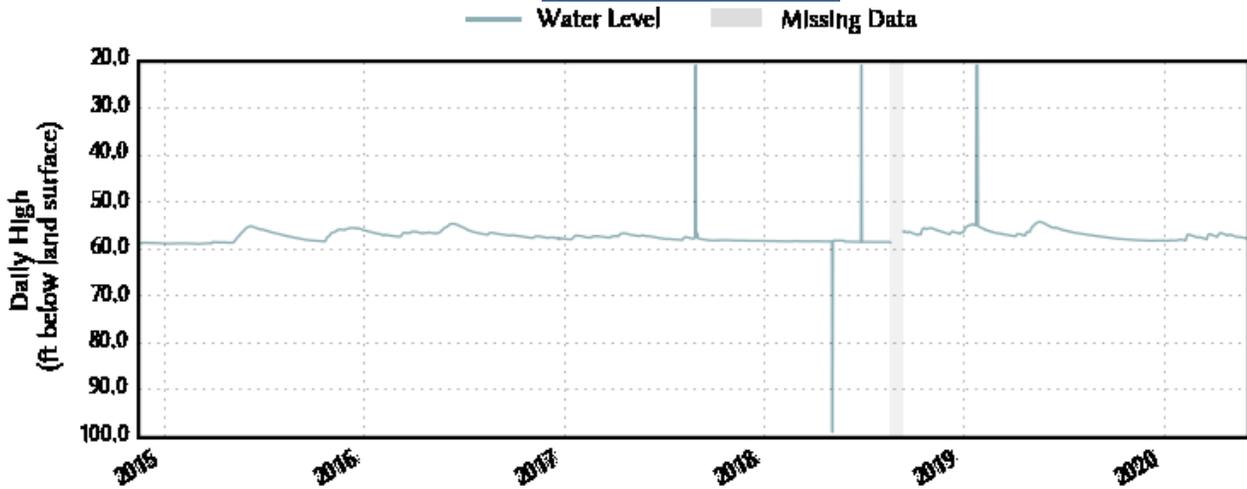
Last 30 Days



1 Year



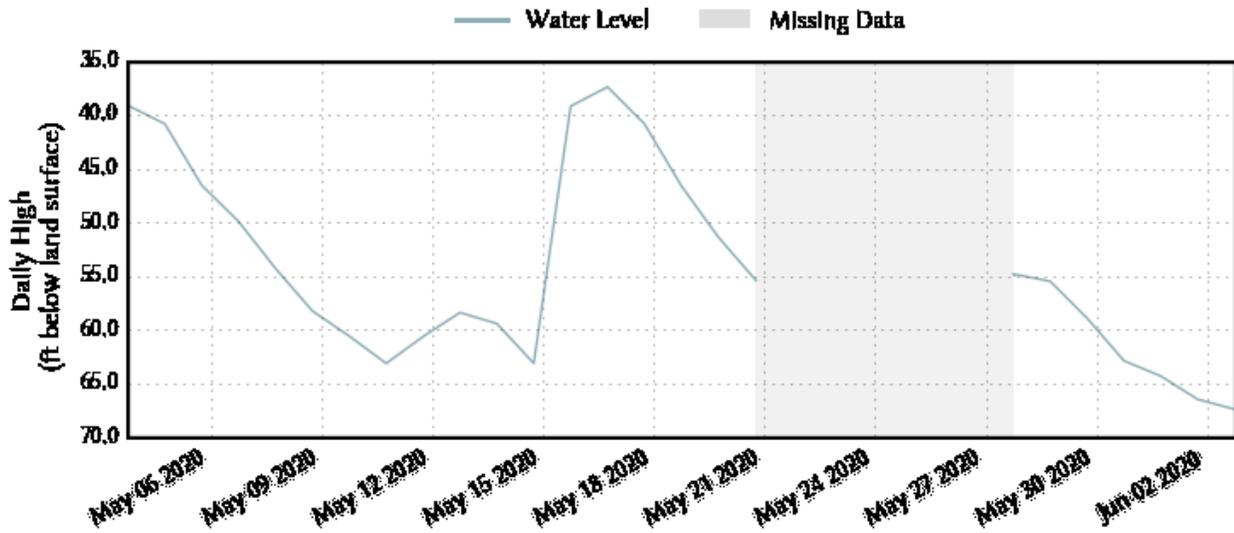
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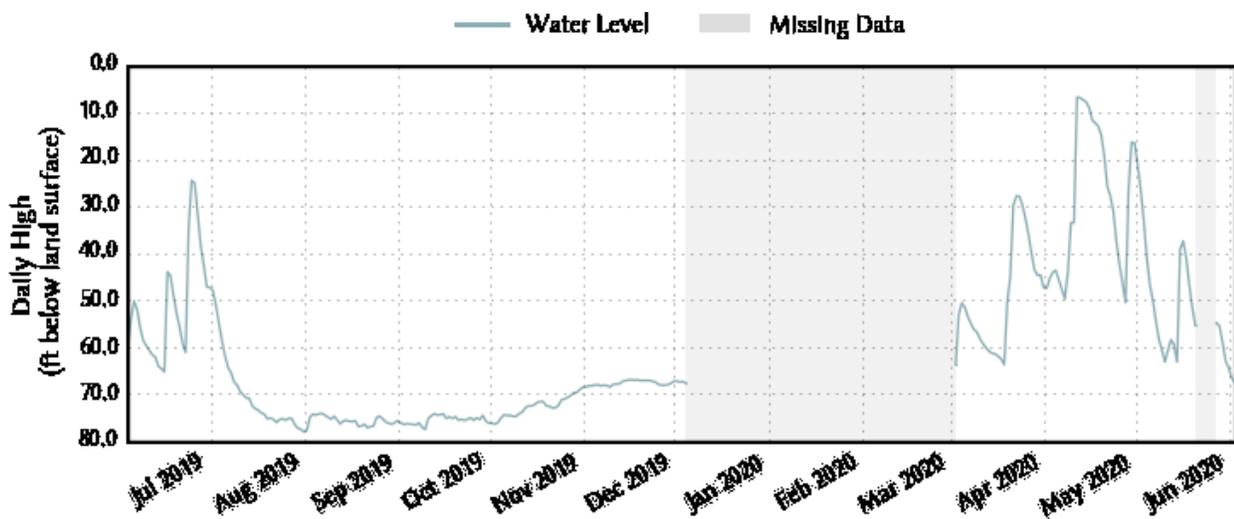
May 2020

Continuous Monitoring Well # 5804628
(Salado Cemetery)
Edwards Aquifer

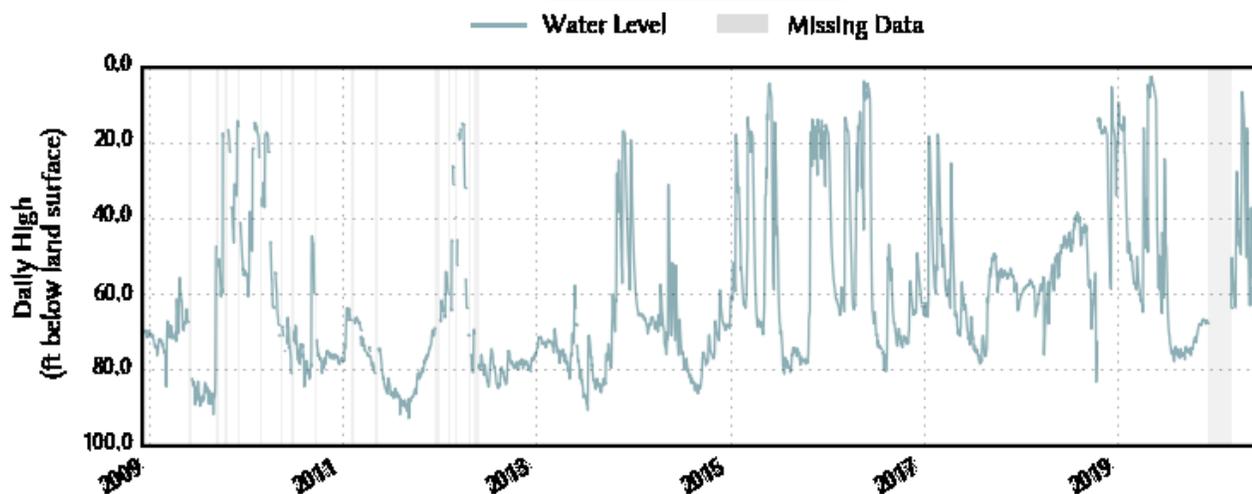
Last 30 Days



1 Year



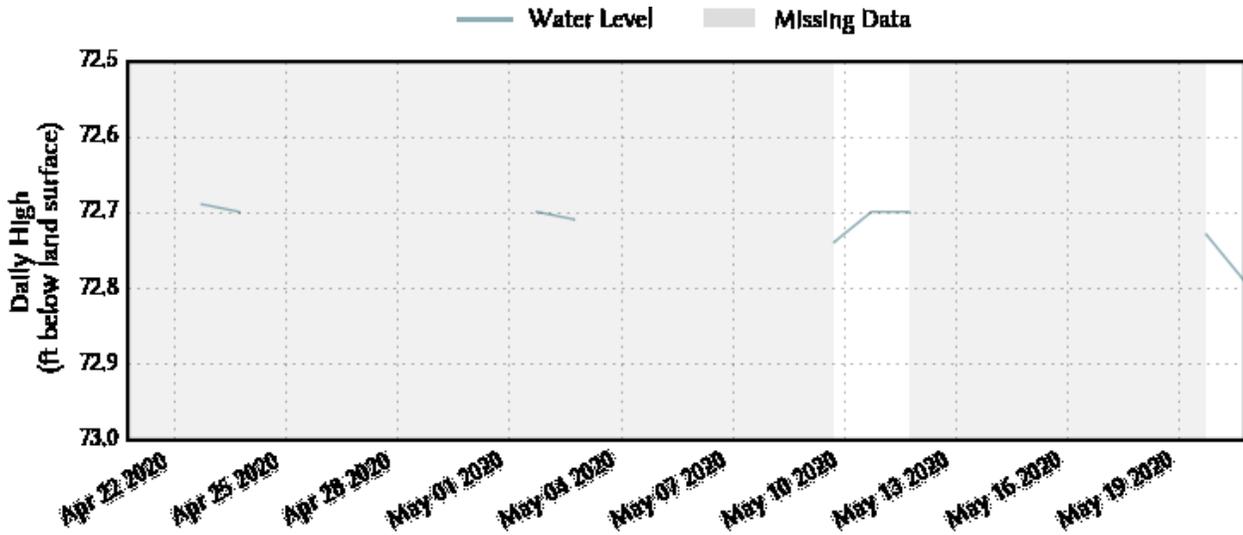
Period Of Record



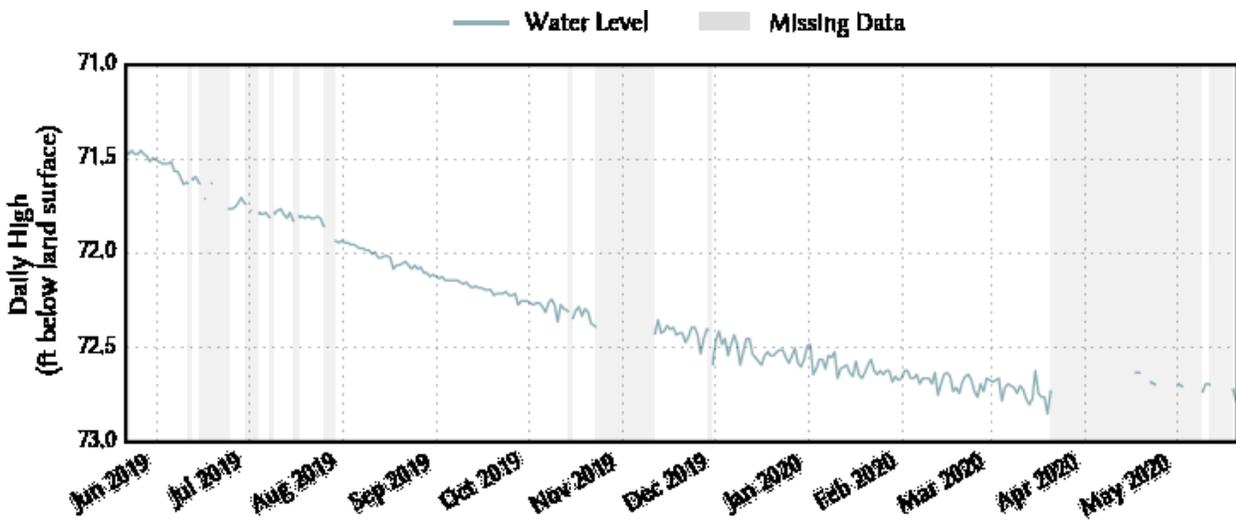
May 2020

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

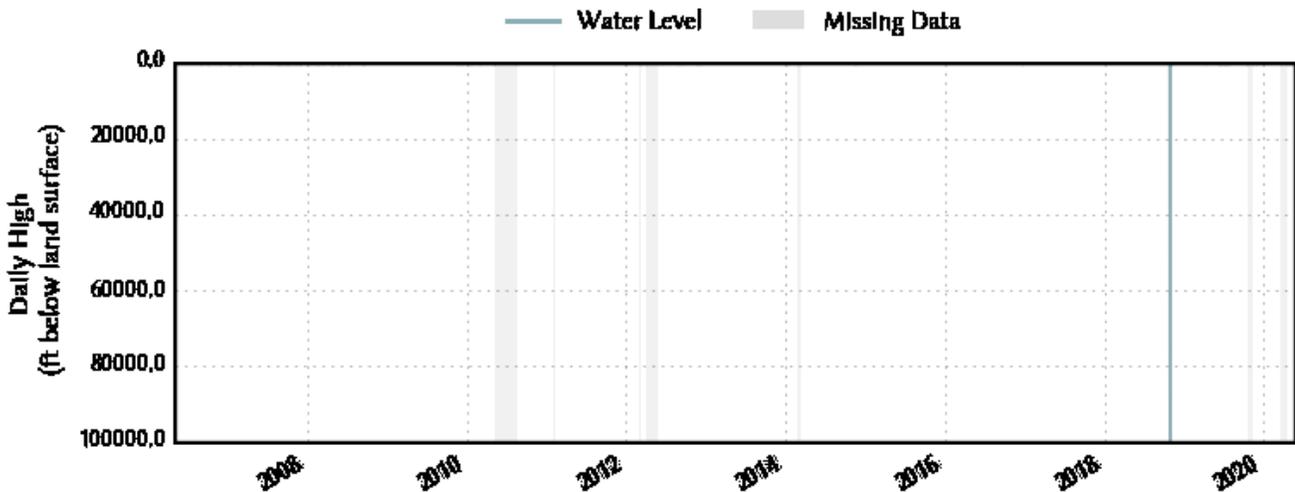
Last 30 Days



1 Year



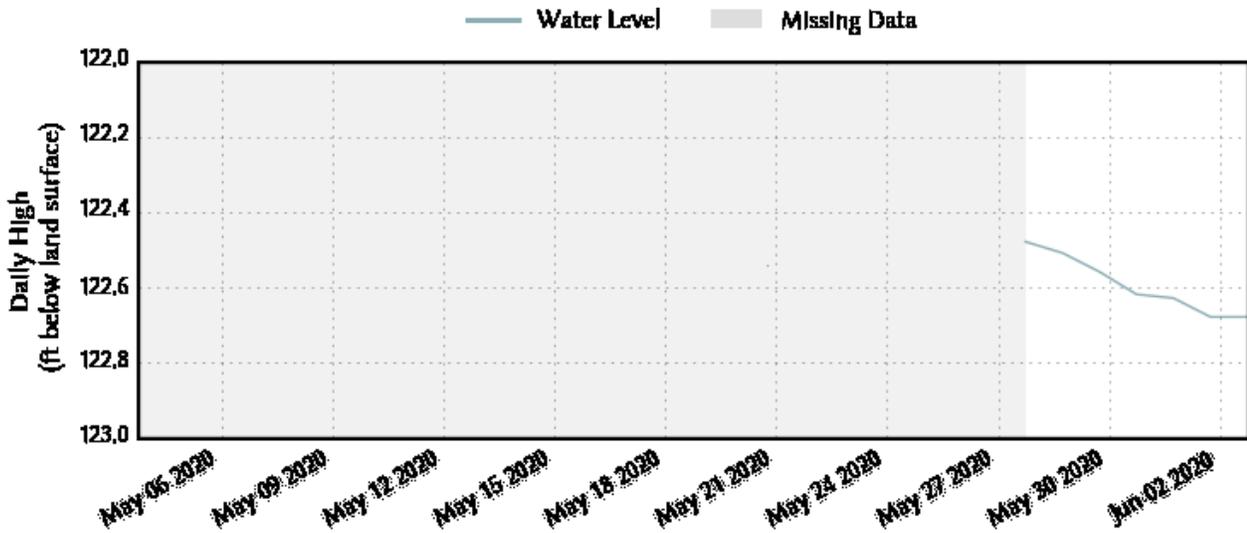
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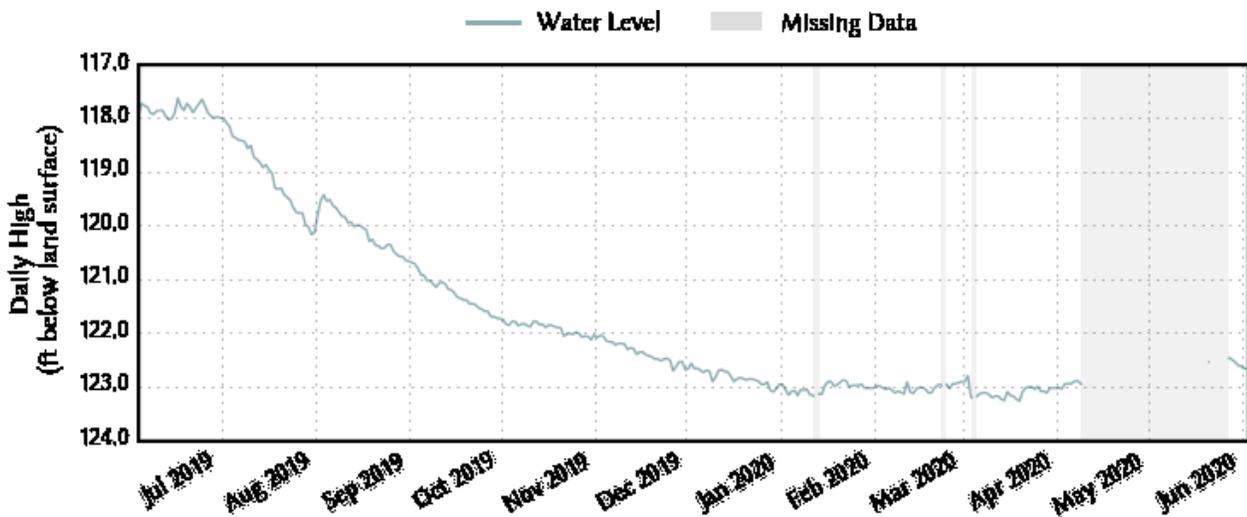
May 2020

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

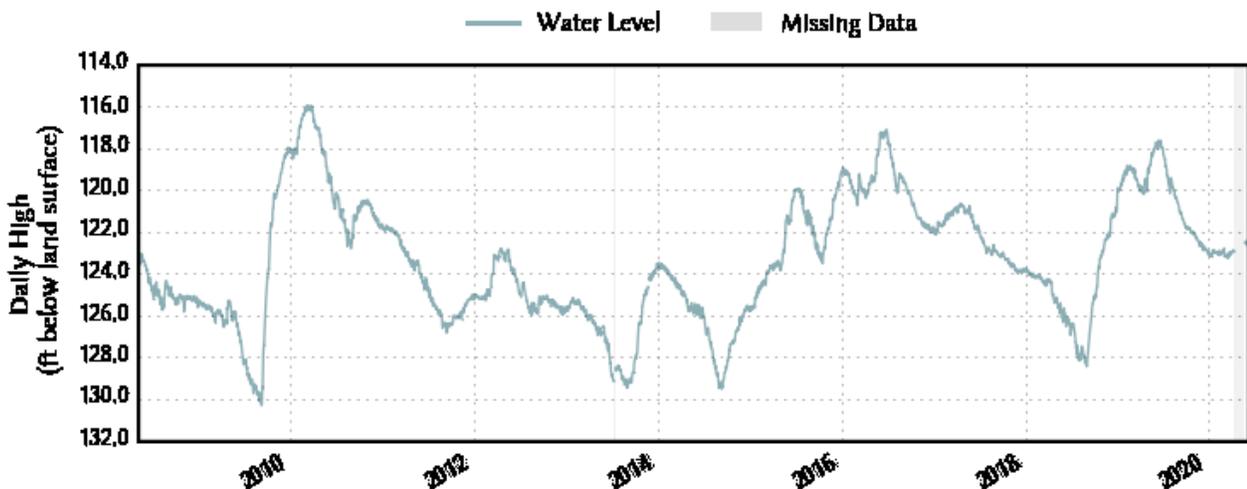
Last 30 Days



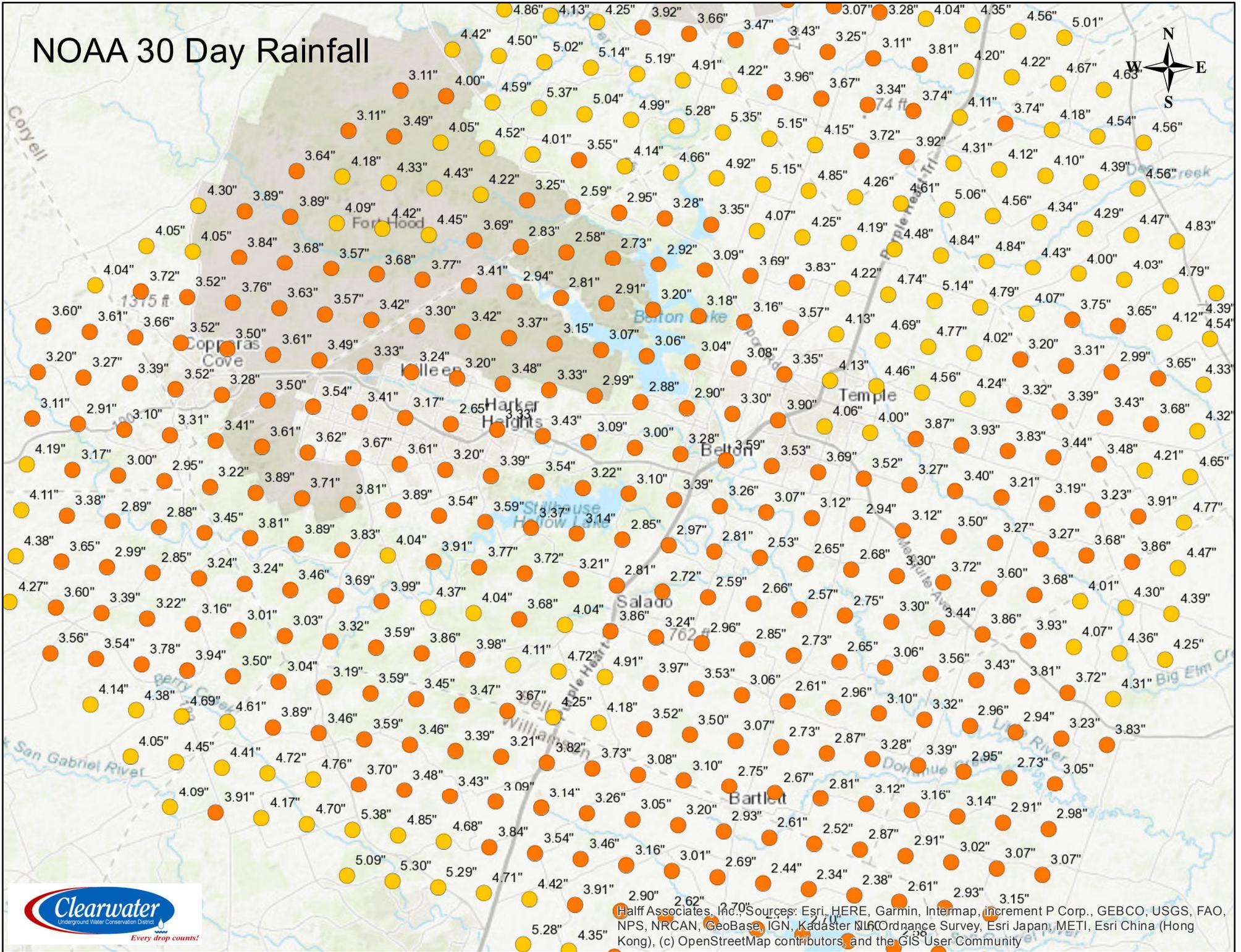
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Period Of Record

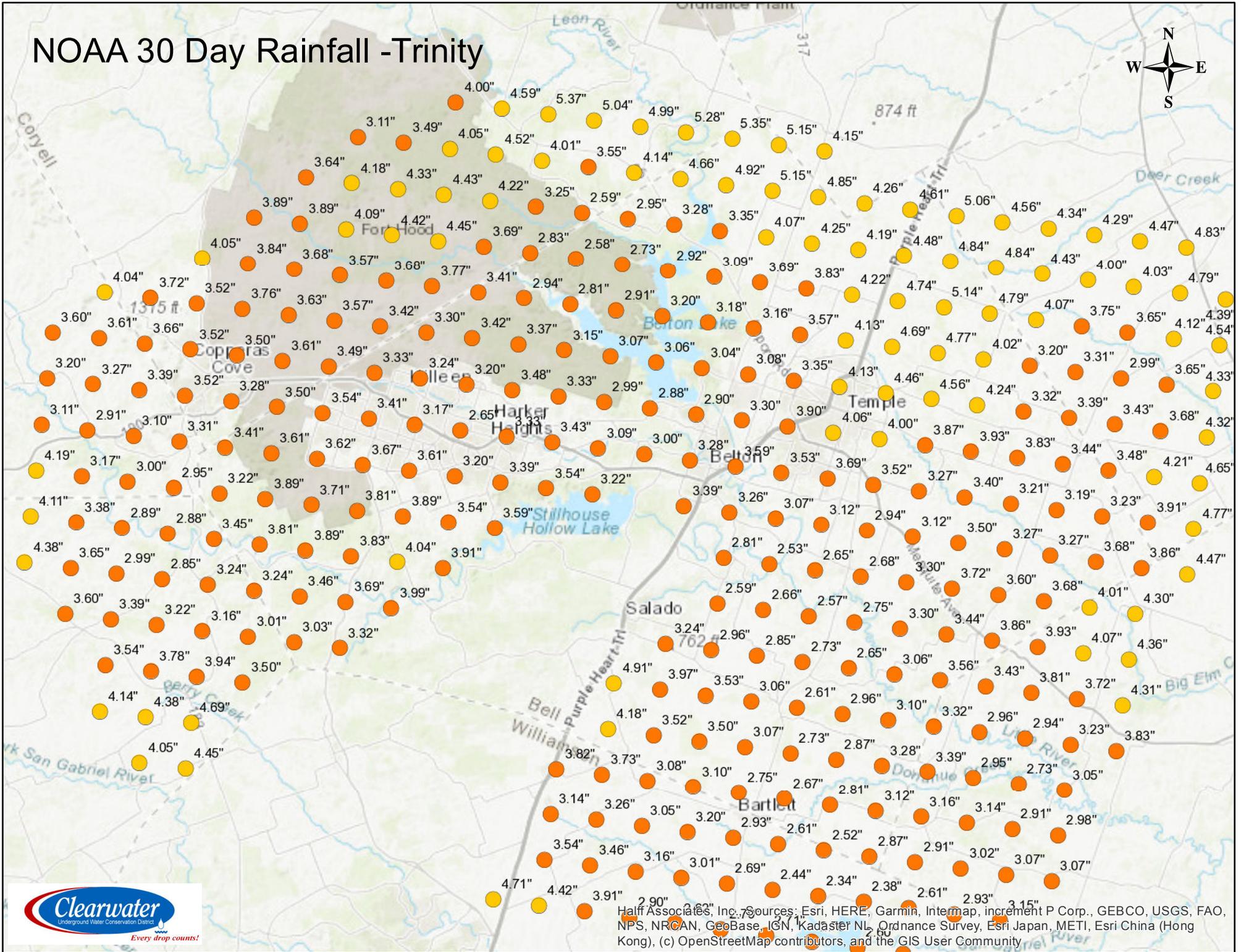


NOAA 30 Day Rainfall



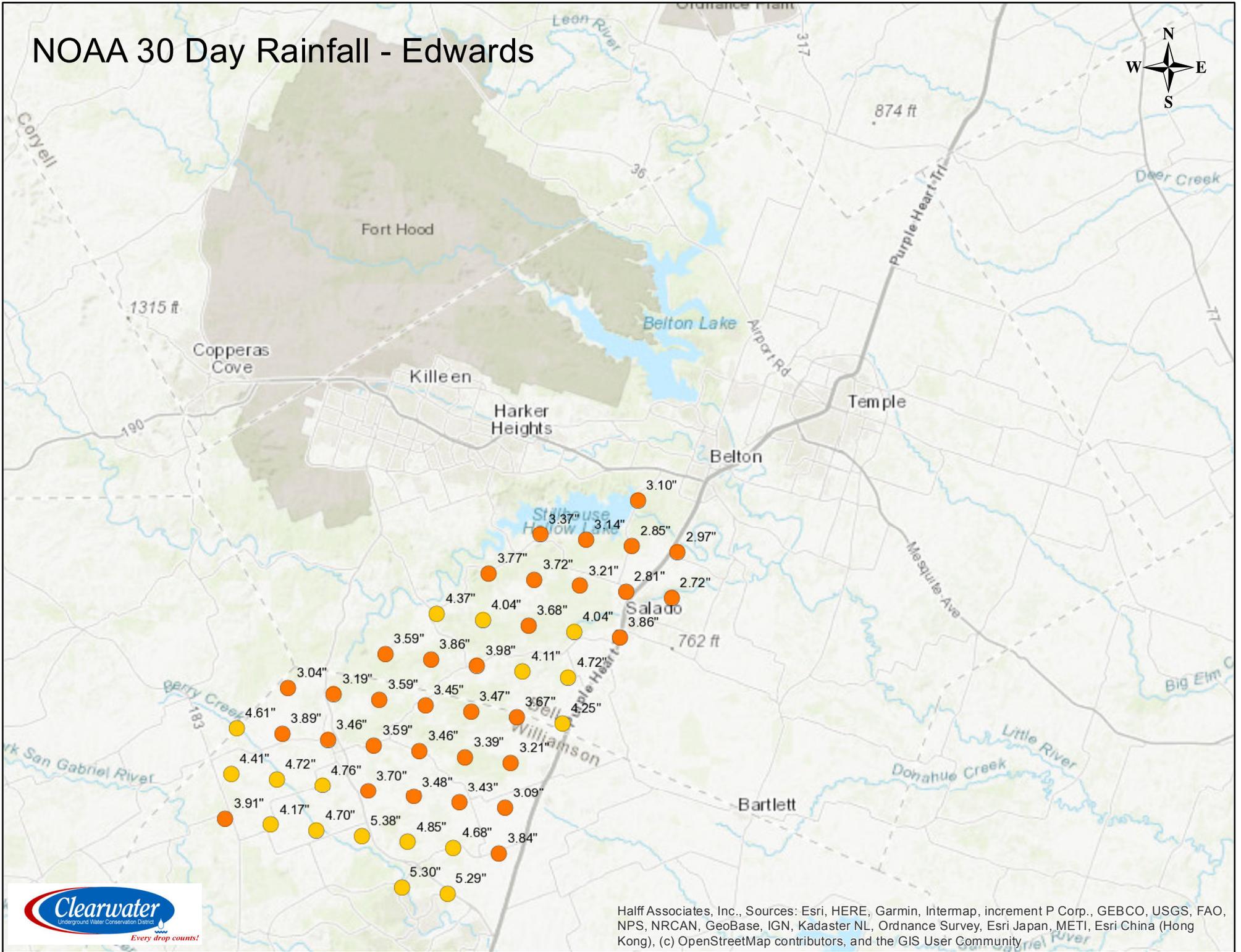
Half Associates, Inc. Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

NOAA 30 Day Rainfall -Trinity



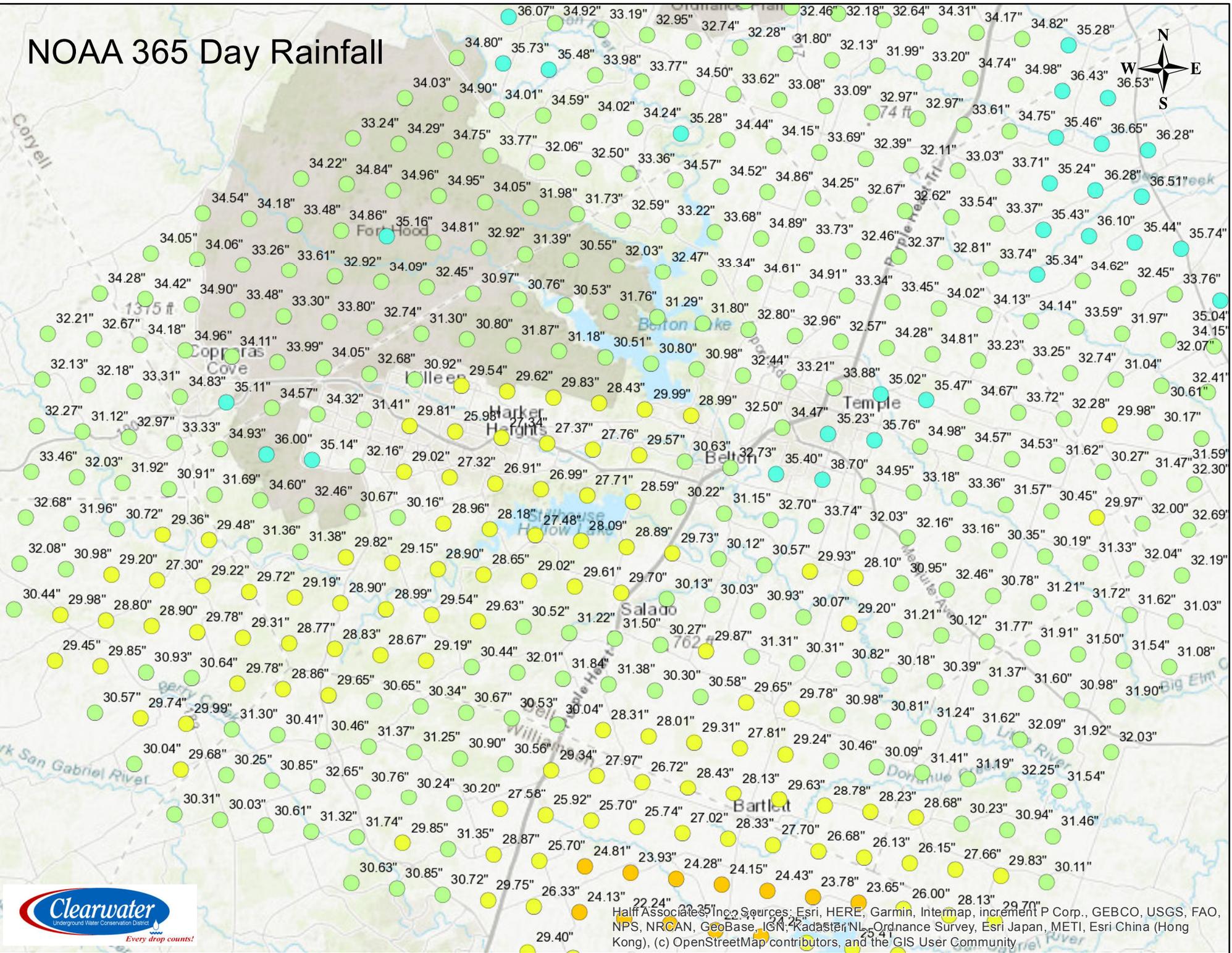
Half Associates, Inc. sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

NOAA 30 Day Rainfall - Edwards



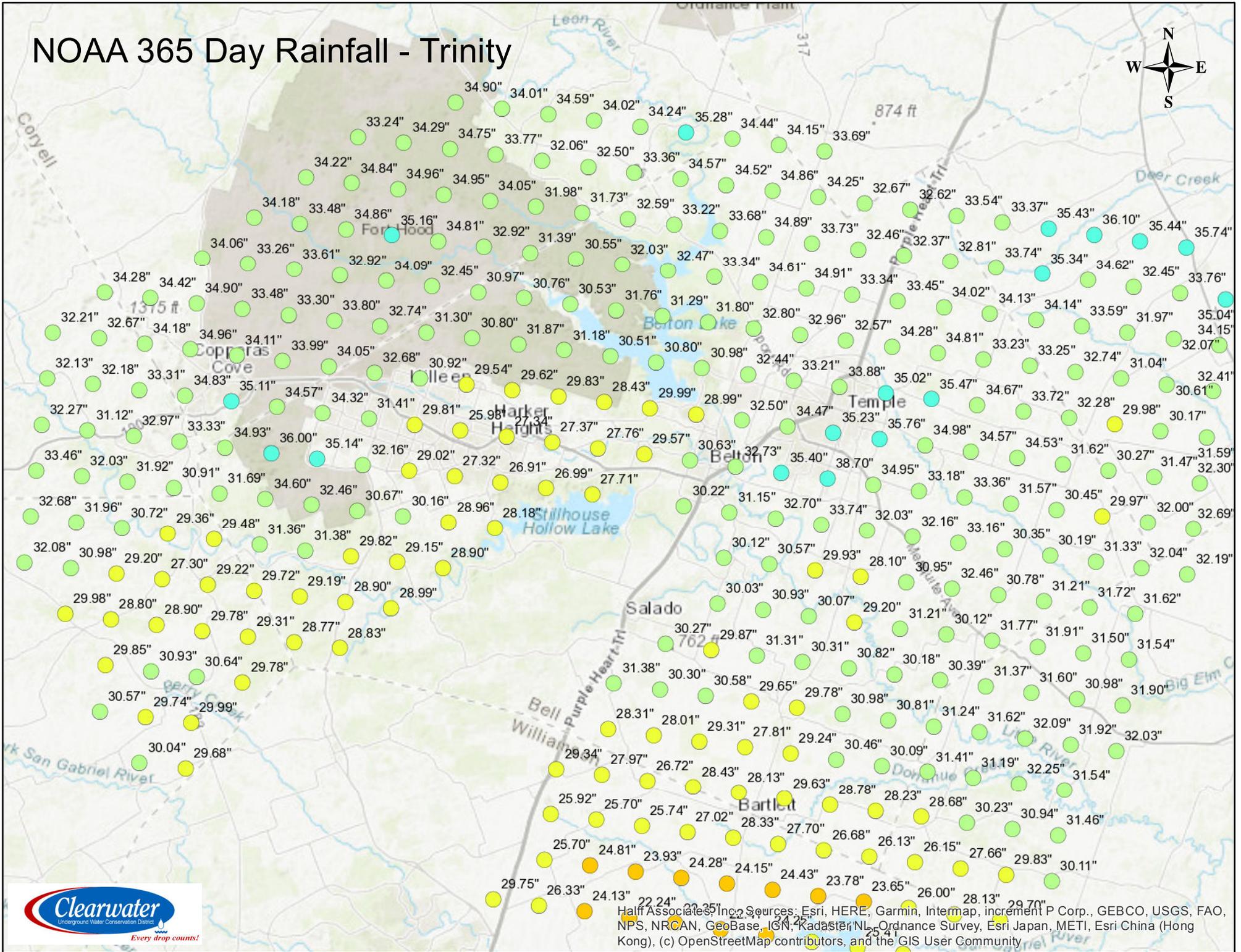
Half Associates, Inc., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

NOAA 365 Day Rainfall



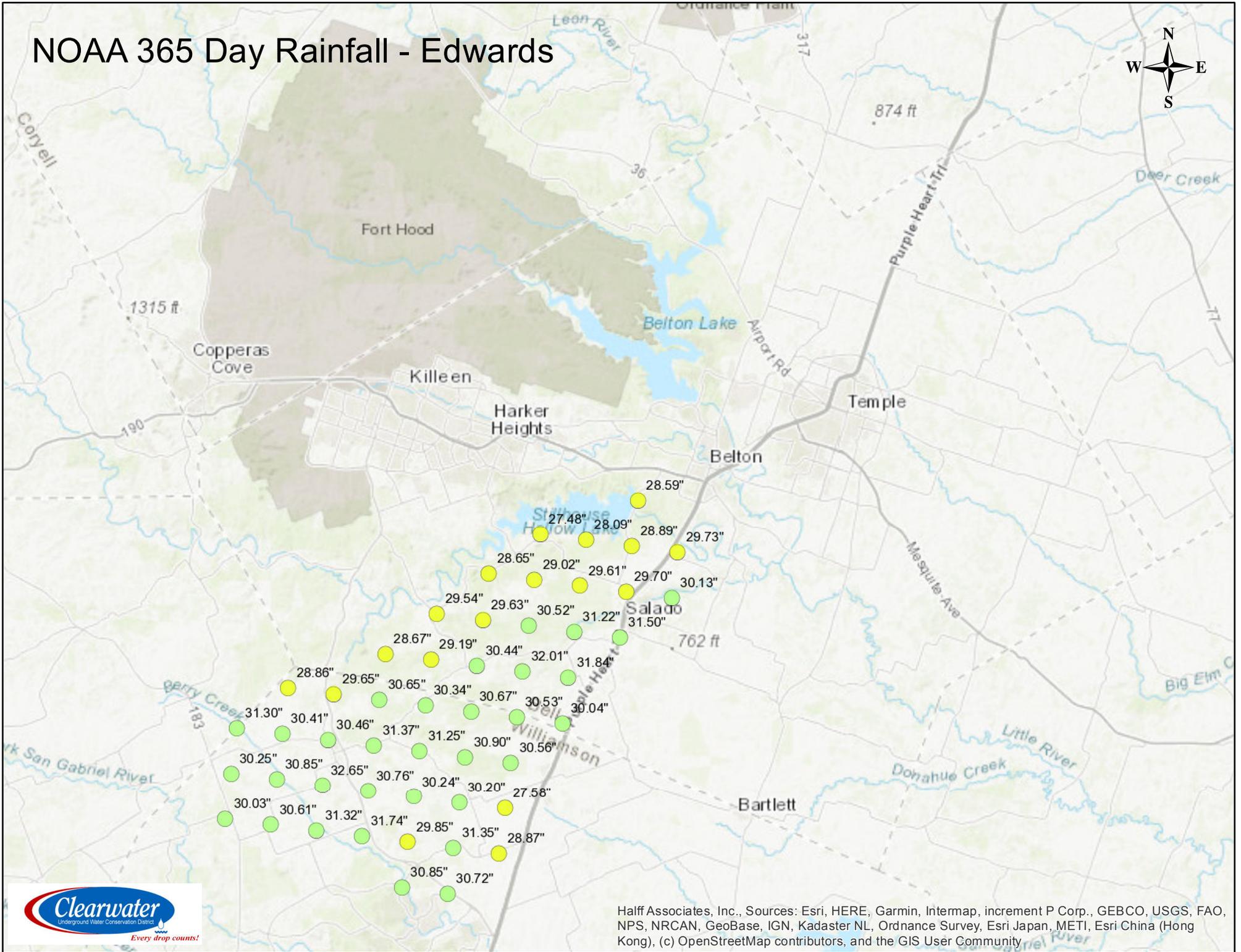
Half Associates, Inc. Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

NOAA 365 Day Rainfall - Trinity

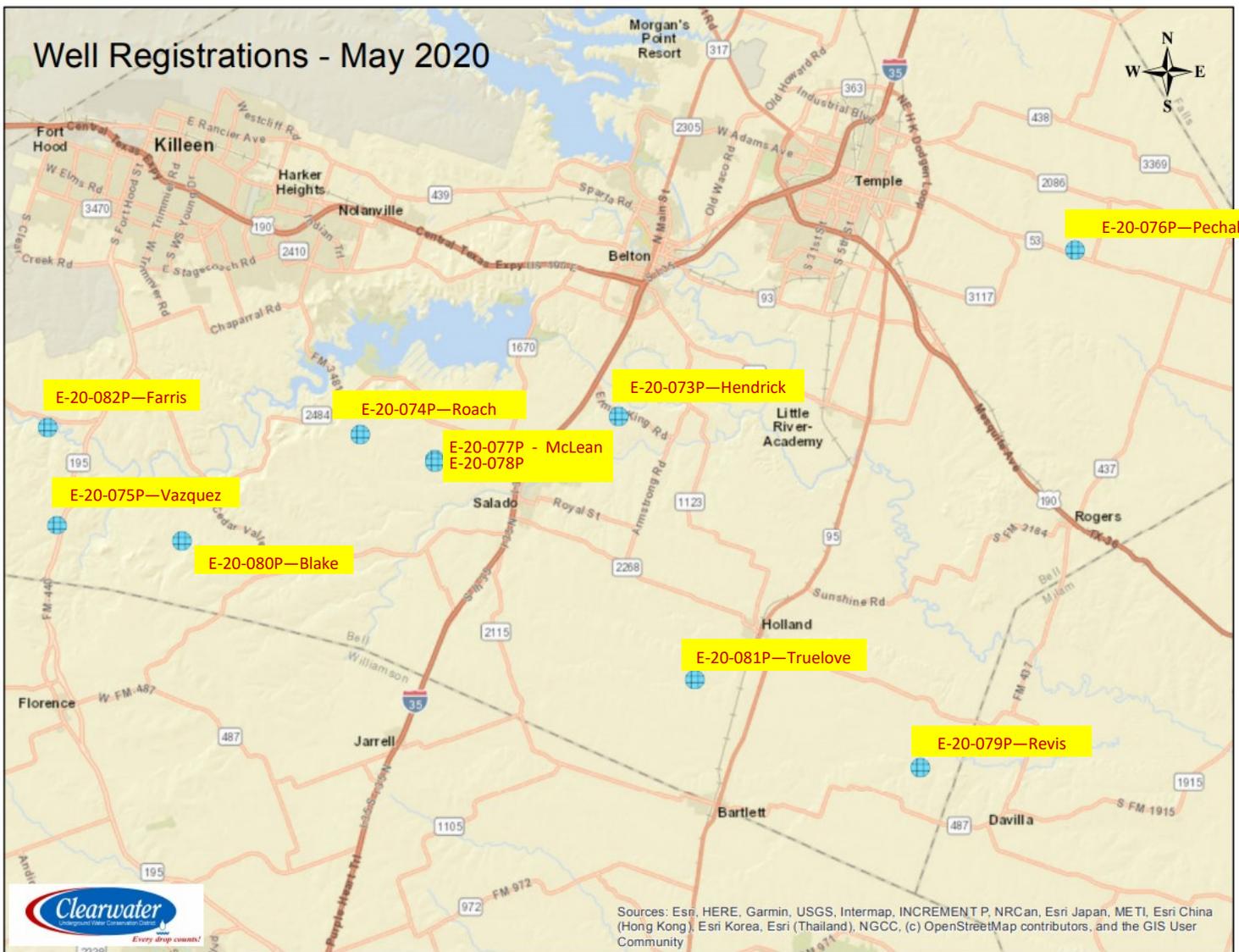


Half Associates, Inc. Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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



<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-20-073P	Clayton Hendricks	1007 Elmer King Rd	Belton	Undeclared	200	Domestic	Proposed
E-20-074P	Terry & Linda Roach	12386 Crows Ranch Dr	Salado	Undeclared	900	Domestic	Active
E-20-075P	Javier Vazquez	1330 Shady Loop 2	Killeen	Undeclared	520	Domestic	Proposed
E-20-076P	Edwin Pechal	10834 State HWY 53	Temple	Undeclared	41	Domestic	Capped
E-20-077P	Jimmy McLean	PO Box 297	Lometa	Undeclared	41	Lvstk/Plrty	Capped
E-20-078P	Jimmy McLean	PO Box 297	Lometa	Undeclared	41	Domestic	Capped
E-20-079P	Larry Reavis	20694 Post Oak Rd	Bartlett	Undeclared	50	Domestic	Active
E-20-080P	Brian Blake	18229 Stillman Valley Rd	Killeen	Undeclared	750	Domestic	Proposed
E-20-081P	Tim Truelove	19301 Romberg Rd	Holland	Undeclared	40	Domestic	Proposed
E-20-082P	Greg Farris	1519 Bellwood Lake Dr	Richmond	Undeclared	475	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								0
July								0
Aug								0
Sept								0
Oct								0
Nov								0
Dec								0
Total 2020	64	17	0	1	5	1	0	88
Totals	4416	1030	104	34	57	26	121	5788

Adjustments

Adjustment Type	Exempt Wells		Non-Exempt Wells			Monitor Wells		Total
	Grandfathered	New	Grandfathered	Class 1	Class 2	Water	Envr	
2002-Present	4416	1030	104	34	57	26	121	5788
Never Drilled	N/A	-27	N/A	-3	-4	0	-1	-35
Plugged	-203	-42	-18	-2	-1	-2	-53	-321
Totals	4213	961	86	29	52	24	67	5432