

Group Members

- Teresa Santerre Hobby Manager
- Sarita Hedgepeth Assistant Manager
- Charles Hill GIS Analyst
- Scott Lindsay GIS Analyst

Purpose and Scope

- Color-coded representation of water wells
- Texas Hill
 Country's 17
 counties.



Data

• TNRIS

• USGS and TWDB

Data

- Cow Creek Groundwater Conservation District
- Medina County GWD
- Headwaters Groundwater Conservation District (Kerr County)
- Central Texas GCD
- Hays Trinity Groundwater Conservation District
- Edwards Aquifer Authority,
- Ellenburger Group

- Collection of well data
 - Well information was collected from both the United States Geological Survey, the Texas Water Development Board databases and participating ground water districts
 - All wells must have at least 10 years of data, have at least 40 independent measurements over those 10 years, currently be measured monthly and will likely be measured in the future
 - Well data was entered into an Excel spreadsheet and a percentile analysis was generated using an online statistical program



x *	TWDB Groundwater Datab	base Online Qu +								- 00				
	http://wiid.twdb.state.tx.us/ww	m/wwm_wquery.asp?state_well=68115098xtheDB=w	aterlev					습 - C 🛃 - Go	igle	P (1				
NEPOKIED WALEN LEVEL DATA UN STATE WELL NUMDEN = 0811509														
Query for another State Well Number: Submit														
Water Quality Infrequent Constituent Water Level 5Day Water Level Well Casing Remarks Scanned Images														
			Click here to read the TWDB Gr	oundWater D	ata Syst	em Data D	ictionary for explanation.							
No.	STATE WELL NUMBER	PUBLISHABLE/NON-PUBLISHABLE	DEPTH FROM LAND SURFACE	MONTH	DAY	YEAR	MEASUREMENT NUMBER	MEASURING AGENCY	METHOD OF MEASUREMENT	REMARK				
1	6811509	р	-315.92	6	30	2005	01	06	2					
2	6811509	Р	-302.75	11	15	2005	01	06	2					
3	6811509	р	-302.25	11	30	2005	01	06	2					
4	6811509	Р	-302.67	12	15	2005	01	06	2					
5	6811509	р	-303	12	30	2005	01	06	2					
6	6811509	р	-305.5	1	15	2006	01	06	2					
7	6811509	Р	-306.25	1	31	2006	01	06	2					
8	6811509	р	-308.25	2	15	2006	01	06	2					
9	6811509	P	-305.67	2	28	2006	01	06	2					
10	6811509	P	-309.92	3	14	2006	01	06	2					
11	6811509	P	-306.83	3	31	2006	01	06	2					
12	6811509	P	-311	4	15	2006	01	06	2					
13	6811509	P	-310.5	4	30	2006	01	06	2					
14	6811509	P	-311	5	15	2006	01	06	2					
15	6811509	P	-313.67	5	31	2006	01	06	2					
16	6811509	Р	-314.25	6	15	2006	01	06	2					
17	6811509	Р	-315.08	7	15	2006	01	06	2					
18	6811509	Р	-314.04	7	31	2006	01	06	2					
19	6811509	Р	-314.83	8	15	2006	01	06	2					
20	6811509	р	-316	8	30	2006	01	06	2					
21	6811509	р	-314	9	15	2006	01	06	2					
22	6811509	р	-313.92	9	30	2006	01	06	2					
23	6811509	р	-311.25	10	15	2006	01	06	2					
24	6811509	P	-314	10	30	2006	01	06	2					
25	6811509	р	-311.25	11	15	2006	01	06	2					
26	6811509	р	-310.92	11	30	2006	01	06	2					
27	6811509	P	-311	12	15	2006	01	06	2					
28	6811509	P	-309,25	12	31	2006	01	06	2					
29	6811509	P	-310.67	1	19	2007	01	06	2					
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2	6849813	34.)	1	5	3 19	73	1 4		5										
3	6849813	44	4	7	27 19	73	1 4		5										
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7	6849813	51.6	7	7	15 19	75	1 4		5										
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13	6849815			2	9 19	81	1 1		-	50									
14	6849813			2	1/ 19	52	1 1		-	50									
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19	6849813			6	22 19	92	1 1			50									
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22	6849813	64.	6	1	5 20	05	1 4		5										
23	6849813	65.	8	2	16 20	05	1 4		5										
24	6849813	67.	5	4	22 20	05	1 4		5										
25	6849813	62.	5	6	8 20	05	1 4		5										
26	6849813	55.	2	7	26 20	05	1 4		5										
27	6849813	52	7	9	12 20	05	1 4		5										
28	6849813	51.		10	7 20	75	1 4		2										
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30	6849813	40	4	1	29 20	75 96	1 4		5										
32	6849813	49	1	1	31 20	06	1 4		5										
33	6849813	43.	5	3	28 20	06	1 4		5										
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39	6849813	30.	2	6	26 20	06	1 4		5										
40	6849813	25.	6	8	14 20	06	1 4		5										
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1	0	Point	12/21/1977	6819208	Trinty	1405	999	San Antonio River	29.721666	-98.667221
	1	Point	3/7/1978	6819208	Trinity	1405	1001	San Antonio River	29.721666	-98.667221
0	2	Point	3/5/1979	6819208	Trinity	1405	961.8	San Antonio River	29.721666	-98.667221
	3	Point	2/20/1981	6819208	Trinity	1405	994.7	San Antonio River	29.721666	-98.667221
	4	Point	2/10/1982	6819208	Trinity	1405	994.8	San Antonio River	29.721666	-98.667221
1.12	5	Point	2/9/1983	6819208	Trinity	1405	986.91	San Antonio River	29.721666	-98.667221
1	6	Point	2/23/1984	6819208	Trinity	1405	994.9	San Antonio River	29.721666	-98.667221
-	7	Point	2/11/1986	6819208	Trinity	1405	1000.5	San Antonio River	29.721666	-98.667221
1	8	Point	12/9/1986	6819208	Trinity	1405	981.35	San Antonio River	29.721666	-98.667221
-	9	Point	10/29/1987	6819208	Trinity	1405	978.72	San Antonio River	29.721666	-98.667221
1	0	Point	3/17/1988	6819208	Trinty	1405	977	San Antonio River	29.721666	-98.667221
1	1	Point	2/1/1989	6819208	Trinty	1405	967.27	San Antonio River	29.721666	-98.667221
1	2	Point	1/22/1990	6819208	Trinty	1405	955	San Antonio River	29.721666	-98.667221
1	3	Point	1/21/1991	6819208	Trinty	1405	952	San Antonio River	29.721666	-98.667221
	4	Point	1/28/1992	6819208	Trinty	1405	953.8	San Antonio River	29.721666	-98.667221
	5	Point	3/10/1992	6819208	Trinty	1405	953.45	San Antonio River	29.721666	-98.667221
	0	Point	4/24/1992	0619200	Trinty	1405	953.99	San Antonio River	29.721666	-98.667221
	0	Point	5/2/1993	6619206	Trinity	1405	957.23	San Antonio River	29.721000	-90.00/221
	0	Point	5/19/1994	6819208	Trinty	1405	957.57	San Antonio River	29.721666	-96.667221
	9	Point	9/0/13/30	0019200	Trinky	1405	901.72	San Antonio Rover	29.721000	-90.00/221
- 2	1	Point	7/24/1990	6810208	Trinity	1405	930.63	San Antonio River	29.721000	-90.007221
	2	Point	1/15/1007	8810208	Trinity	1405	033.8	San Antonio River	29.721000	-90.007221
2	12	Point	3/14/1997	A819208	Trinty	1405	913 22	San Antonio River	29.721666	-98 667221
	4	Point	4/17/1997	6819208	Trinity	1405	933.44	San Antonio River	29.721666	-98 667221
1 -	5	Point	5/14/1997	6819209	Trinity	1405	933.04	San Antonio River	29.721666	-98 667224
1 2	18	Point	6/19/1997	6819208	Trinty	1405	934 54	San Antonio River	29.721868	-98.667221
2	7	Point	7/22/1997	6819208	Trinty	1405	935.31	San Antonio River	29 721888	-98.687221
2	R	Point	3/6/1998	6819208	Trinty	1405	938.29	San Antonio River	29.721688	-98.667221
1 2	9	Point	1/8/2001	6819208	Trinty	1405	930 15	San Antonio River	29.721666	-98.667221
3	0	Point	1/29/2001	6819208	Trinity	1405	933.03	San Antonio River	29.721666	-98.667221
3	1	Point	2/7/2001	6819208	Trinty	1405	931.09	San Antonio River	29,721666	-98.667221
3	2	Point	3/5/2001	6819208	Trinty	1405	931.29	San Antonio River	29.721866	-98.667221
3	3	Point	4/5/2001	6819208	Trinty	1405	932.5	San Antonio River	29.721666	-98.667221
3	4	Point	5/11/2001	6819208	Trinity	1405	933.4	San Antonio River	29.721666	-98.667221
3	5	Point	6/5/2001	6819208	Trinty	1405	934.05	San Antonio River	29.721666	-98.667221
3	8	Point	7/9/2001	6819208	Trinity	1405	934.53	San Antonio River	29.721666	-98.667221
3	7	Point	8/8/2001	6819208	Trinity	1405	934.46	San Antonio River	29.721666	-98.667221
3	8	Point	9/5/2001	6819208	Trinity	1405	934.29	San Antonio River	29.721666	-98.667221
3	19	Point	9/15/2001	6819208	Trinty	1405	933.73	San Antonio River	29.721666	-98.667221
4	0	Point	9/30/2001	6819208	Trinity	1405	933.06	San Antonio River	29.721666	-98.667221
4	1	Point	10/1/2001	6819208	Trinity	1405	932.93	San Antonio River	29.721666	-98.667221
4	2	Point	10/2/2001	6819208	Trinity	1405	932.78	San Antonio River	29.721666	-98.667221
4	3	Point	10/3/2001	6819208	Trinity	1405	932.65	San Antonio River	29.721666	-98.667221
4	14	Point	10/4/2001	6819208	Trinity	1405	932.64	San Antonio River	29.721666	-98.667221
4	15	Point	10/5/2001	6819208	Trinity	1405	932.61	San Antonio River	29.721666	-98.667221
4	16	Point	10/6/2001	6819208	Trinty	1405	932.7	San Antonio River	29.721666	-98.667221
4	7	Point	10/7/2001	6819208	Trinity	1405	932.71	San Antonio River	29.721666	-98.667221
4	8	Point	10/8/2001	6819208	Trinity	1405	932.69	San Antonio River	29.721666	-98.667221
4	9	Point	10/9/2001	6819208	Trinity	1405	932.68	San Antonio River	29.721866	-98.667221
1 2	in	Point	10/10/2001	6819208	Trinity	1405	932.67	San Antonio River	29 721666	-98 667221

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63	07/30/10	309.12	1218.88	5.03						-4.04	18.88	25.00													≈ 6%. •••
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63	10/23/10	310.65	1216.55	0.51						-0.55	10.60														
71	11/30/10	312.20	1215.00	0.34						-1.30	1.35														
73	12/30/10	313.79	1214.36	1.33				1221.93	1213.40	-1.44	-2.54	15.00	•												_
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80	04/29/11	319.51	1208.49	0.19						-3.42	-21.36														
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• Map product

- Data was imported into ArcGIS 10 and geocoded based on decimal latitude and longitude coordinates
- Counties, major roads, and city boundaries were clipped to contain just the area of the Texas Hill Country
- Percentiles were split into ranges of less than the 10th percentile, 10th percentile to 24th percentile, 25th to 75th percentile, 76th percentile to 90th percentile, and greater than 90th percentile.
- Hyperlinks were created from Excel files for each well

Results

- Most qualifying wells are located in just four of the 17 Hill Country Counties.
- All but a few of the latest well measurements are extremely low compared to their historical elevations.
- There are no discernible patterns in the location of the four wells with the highest water elevation (> 50 percentile value).
- Qualifying wells are not distributed evenly throughout the geographic area.

Results



Results

Date	Well Number	Measurement Value	Elevation	Water Elevation	Percentile	Percent	Lat	Long	County	Aquifer
8/15/2011	6819208	-464.74	1405	940.26	0.83	83	29.721666	-98.667221	Bexar	Trinity
8/15/2011	5753305	-217.80	1388	1170.20	0.11	11	30.238333	-98,379443	Blanco	Trinity
8/15/2011	5753614	-335.75	1510	1174.25	0.05	5	30.177499	-98,394999	Blanco	Trinity
8/24/2011	5761223	-72.65	1340	1267.35	0.17	17	30.097221	-98.425554	Blanco	Trinity
8/24/2011	5761507	-92.40	1423	1330.60	0.25	25	30.083054	-98.444999	Blanco	Trinity
7/5/2011	5742901	-97.28	1600	1502.72	0.04	4	30.253888	-98.750555	Gillespie	Ellenburger-San Saba
7/5/2011	5750102	-92.00	1582	1490.00	0.14	14	30.225554	-98.846110	Gillespie	Ellenburger-San Saba
6/8/2011	5750106	-102.30	1581	1478.70	0,06	6	30.225832	-98,846110	Gillespie	Ellenburger-San Saba
7/5/2011	5750107	-91.80	1585	1493.20	0,02	2	30.220277	-98,837221	Gillespie	Ellenburger-San Saba
8/15/2011	5750108	-89.77	1590	1500.23	0.01	1	30.215555	-98.841944	Gillespie	Ellenburger-San Saba
7/5/2011	5750110	-51.40	1585	1533.60	0.05	5	30.211666	-98.835277	Gillespie	Ellenburger-San Saba
7/5/2011	5750114	-91.20	1581	1489.80	0.06	6	30.222777	-98.844166	Gillespie	Ellenburger-San Saba
7/5/2011	5750115	-116.00	1620	1504.00	0.20	20	30.238610	-98.841666	Gillespie	Ellenburger-San Saba
7/5/2011	5750209	-70.60	1575	1504.40	0.10	10	30.212500	-98.831388	Gillespie	Ellenburger-San Saba
7/5/2011	5750227	-83.50	1585	1501.50	0.02	2	30.225554	-98.801944	Gillespie	Ellenburger-San Saba
7/5/2011	5750232	-76.80	1582	1505.20	0,02	2	30,248055	-98,799721	Gillespie	Ellenburger-San Saba
7/5/2011	5750233	-80.43	1610	1529.57	0.05	5	30.211666	-98,803055	Gillespie	Ellenburger-San Saba
7/5/2011	5750234	-90.10	1590	1499.90	0.05	5	30.217221	-98.803333	Gillespie	Ellenburger-San Saba
7/5/2011	5750235	-97.40	1568	1470.60	0.05	5	30.234999	-98.822777	Gillespie	Ellenburger-San Saba
7/5/2011	5750317	-73.10	1563	1489.90	0.02	2	30.240555	-98.779721	Gillespie	Ellenburger-San Saba
8/15/2011	5750324	-92.77	1550	1457.23	0.01	1	30.230832	-98,790833	Gillespie	Ellenburger-San Saba
7/5/2011	5750325	-94.00	1547	1453.00	0.05	5	30.231388	-98,790833	Gillespie	Ellenburger-San Saba
6/8/2011	5750326	-91.00	1548	1457.00	0.05	5	30.232221	-98,791110	Gillespie	Ellenburger-San Saba
7/5/2011	5750327	-91.90	1546	1454.10	0.05	5	30,234166	-98.791110	Gillespie	Ellenburger-San Saba
7/5/2011	5750328	-92.60	1545	1452.40	0.05	5	30.235555	-98.790833	Gillespie	Ellenburger-San Saba
7/5/2011	5750330	-48.20	1550	1501.80	0.10	10	30.243610	-98.774721	Gillespie	Ellenburger-San Saba
7/5/2011	5750331	-21.20	1540	1518.80	0.05	5	30.248888	-98.770554	Gillespie	Ellenburger-San Saba
7/5/2011	5750332	-105.30	1618	1512.70	0.02	2	30.218332	-98.784999	Gillespie	Ellenburger-San Saba
7/5/2011	5750333	-52.60	1538	1485.40	0.04	4	30.228332	-98.769999	Gillespie	Ellenburger-San Saba
7/5/2011	5750404	-140.30	1685	1544.70	0.04	4	30.205000	-98.861666	Gillespie	Ellenburger-San Saba
7/5/2011	5750514	-151.70	1705	1553.30	0.04	4	30.205000	-98.825554	Gillespie	Ellenburger-San Saba
7/5/2011	5750515	-228.40	1779	1550.60	0.02	2	30.196944	-98.813888	Gillespie	Ellenburger-San Saba
7/5/2011	5750603	-206.80	1616	1409.20	0.07	7	30.188888	-98.771943	Gillespie	Ellenburger-San Saba
7/5/2011	5751404	-103.40	1550	1446.60	0.04	4	30.208333	-98.749444	Gillespie	Ellenburger-San Saba
8/15/2011	5606613	-73.47	1675	1601.53	0.34	34	30.929166	-99.263333	Mason	Hickory
7/29/2011	5662412	-247.80	1761	1513.20	0.02	2	30.067499	-99.334444	Kerr	Trinity
7/29/2011	5662414	-298.20	1798	1499.80	0.01	1	30.076666	-99 358611	Kerr	Tripity
7/29/2011	5662415	-372.50	1841	1468.50	0.02	2	30.073610	-99.342499	Kerr	Tripity
7/29/2011	5663415	-250.30	1682	1431.70	0.01	1	30.072499	-99 247499	Kerr	Tripity
7/29/2011	5663916	-383.20	1751	1367.80	0.01	1	30.013055	-99.160000	Kerr	Tripity
8/15/2011	5663922	-337.87	1687	1349.13	0.01	1	30.005555	-99.132777	Kerr	Trinity
7/28/2011	5757703	-137.70	1566	1428.30	0.02	2	30.019721	-98.973054	Kerr	Trinity
8/15/2011	6801703	-234.94	1524	1289.06	0.01	1	29.906944	-98,972777	Kerr	Trinity
8/15/2011	6801704	-263 17	1524	1260.83	0.01	1	29,906944	-98,972777	Kerr	Tripity
7/28/2011	6908201	-309.60	1633	1323.40	0.02	2	29.974721	-99.076110	Kerr	Tripity
7/28/2011	6908511	-247.80	1539	1291 20	0.03	3	29 955555	-99.076666	Kerr	Tripity
7/28/2011	6908611	-215 70	1512	1296.30	0.01	1	29.950277	-99.028610	Kerr	Tripity
7/28/2011	6916201	-278.40	1555	1276.60	0.01	1	29.846110	-99.043888	Kerr	Trinity
8/15/2011	6801314	-149.76	1405	1255.24	0.01	1	29.972221	-98.894721	Kendall	Trinity
7/29/2011	6803109	-71.12	1293	1221.88	0.12	12	29.975554	-98.721110	Kendall	Trinity
7/29/2011	6810616	-481.11	1522	1040.89	0.02	2	29.810000	-98.760000	Kendall	Trinity
8/15/2011	6811417	-289.50	1422	1132.50	0.04	4	29.798333	-98.744721	Kendall	Trinity
7/29/2011	6811708	-260.77	1385	1124.23	0.02	2	29.791388	-98.718332	Kendall	Trinity
10/1/2011	5724101	-216.70	1296	1079.30	0.18	18	30.747777	-98.085833	Burnet	Trinity
9/16/11	5758402	-175.10	1585	1409.90	0.01	1	30.076943	-98.842499	Kendall	Trinity
9/16/11	6802609	-157.69	1355	1197.31	0.01	1	29.929999	-98.788610	Kendall	Trinity
9/16/11	6804312	-133.82	1373	1239.18	0.12	12	29.970277	-98.525277	Kendall	Trinity
9/16/11	6804806	-193.30	1140	946.70	0.05	5	29.904444	-98.556944	Kendall	Trinity
9/16/11	6802807	-190.68	1430	1239.32	0.01	1	29.909722	-98.823332	Kendall	Trinity

Discussion

- Limited Data for much of Hill Country
- Large majority of wells under the 10th percentile
- Criteria

Implications

- This project is intended as springboard for the HCA's research on groundwater levels and more specifically the well depths in the Hill Country region.
- This mapping system provides useful information about groundwater levels for use by the HCA to assist in the future publications provided to residents located in the Hill Country region of Texas.

Conclusions

- Future efforts
 - Real-time water level data
 - Website
 - Monitor groundwater levels for the Texas Hill Country

Final Deliverables

- Final report
- Poster for display in the Geography Department
- Website
- Two CDs containing the following:
 - All data
 - Metadata
 - Proposal, Progress, & Final Reports
 - Poster
 - PowerPoint Presentations
 - Instructions on how to use CD (readme file)

Any questions?