Hays Trinity Groundwater Conservation District

Year End Monitoring Data Review

December 9, 2015

What do we do?

- The District manages new well construction including business and commercial well permits.
- The District is charged to gather information needed to make sound decisions and provide information to citizens and local agencies.

How do we do it?

- Part of our responsibility is to record water level data throughout western Hays County.
- We have 46 monitoring wells each with its own hydrograph and rainfall comparisons.
- Wells are monitored monthly and data collected is uploaded to the District's website for the public's review

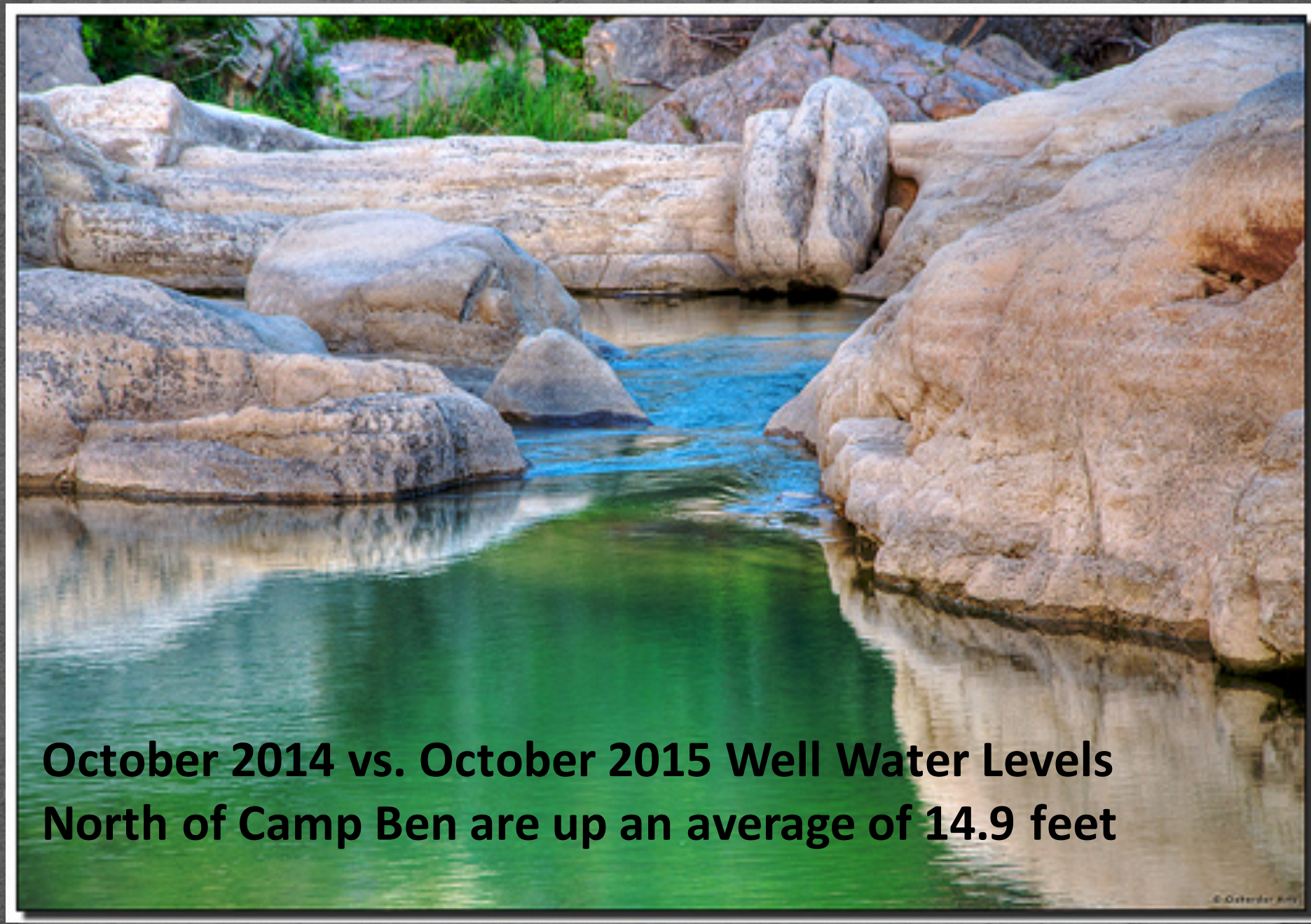
Water Level Averages

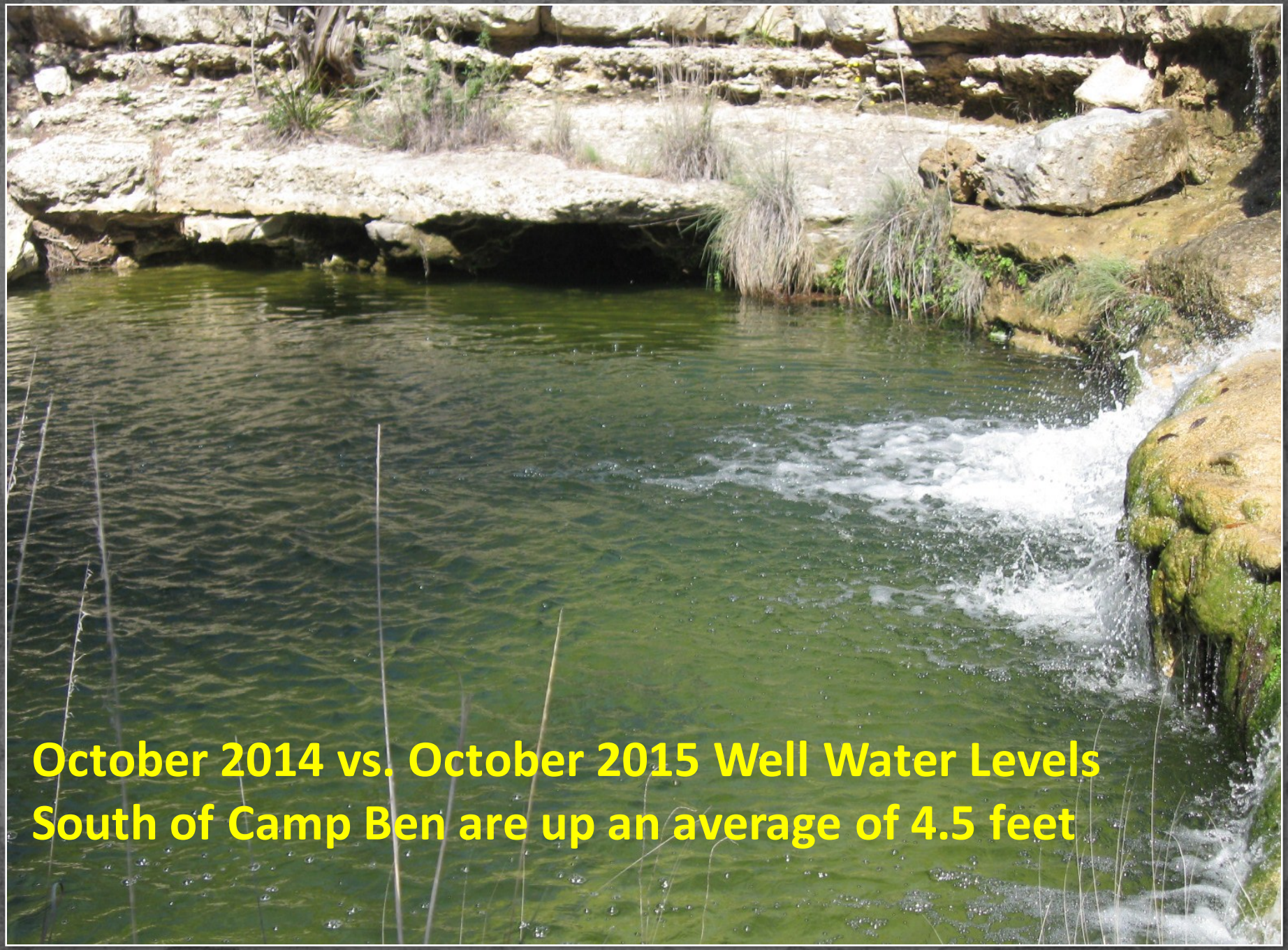
South of Camp Ben McCulloch

	Well Name	Oct 2014 Water Level	Oct 2015 Water Level		
	O'Neal Ranch Road	219	209.6	9.4	
	Storm Ranch Windmill	214.7	214.6	0.1	
	Lost Springs Ranch	184.7	185.2	-0.5	
	Still #6- Main House	187.6	195.9	-8.3	
	Still Well #1 - WH	85.4	79.6	5.8	
	Still Well #4 - 1st WM	183.5	182	1.5	
	Roberts	392	385.6	6.4	
	Storm Ranch Toenail	306.4	299.5	6.9	
	Bryum Dry Cypress	181.4	182	-0.6	
	McMeans	215.9	231.6	-15.7	
	Box Canyon Well 2*	238.3	228.8	9.5	
	Summer Mtn Ranch	229.2	206.7	22.5	
	Hermosa Paloma	468.6	445.8	22.8	
	Cox	236.6	225.1	11.5	
	Gumbert Windmill	45.2	36.2	9	
	Camp Young Judaea	41.4	41.6	-0.2	
	Mount Baldy	121.1	124.94	-3.84	
				76.26	4.5 up

North of Camp Ben McCulloch

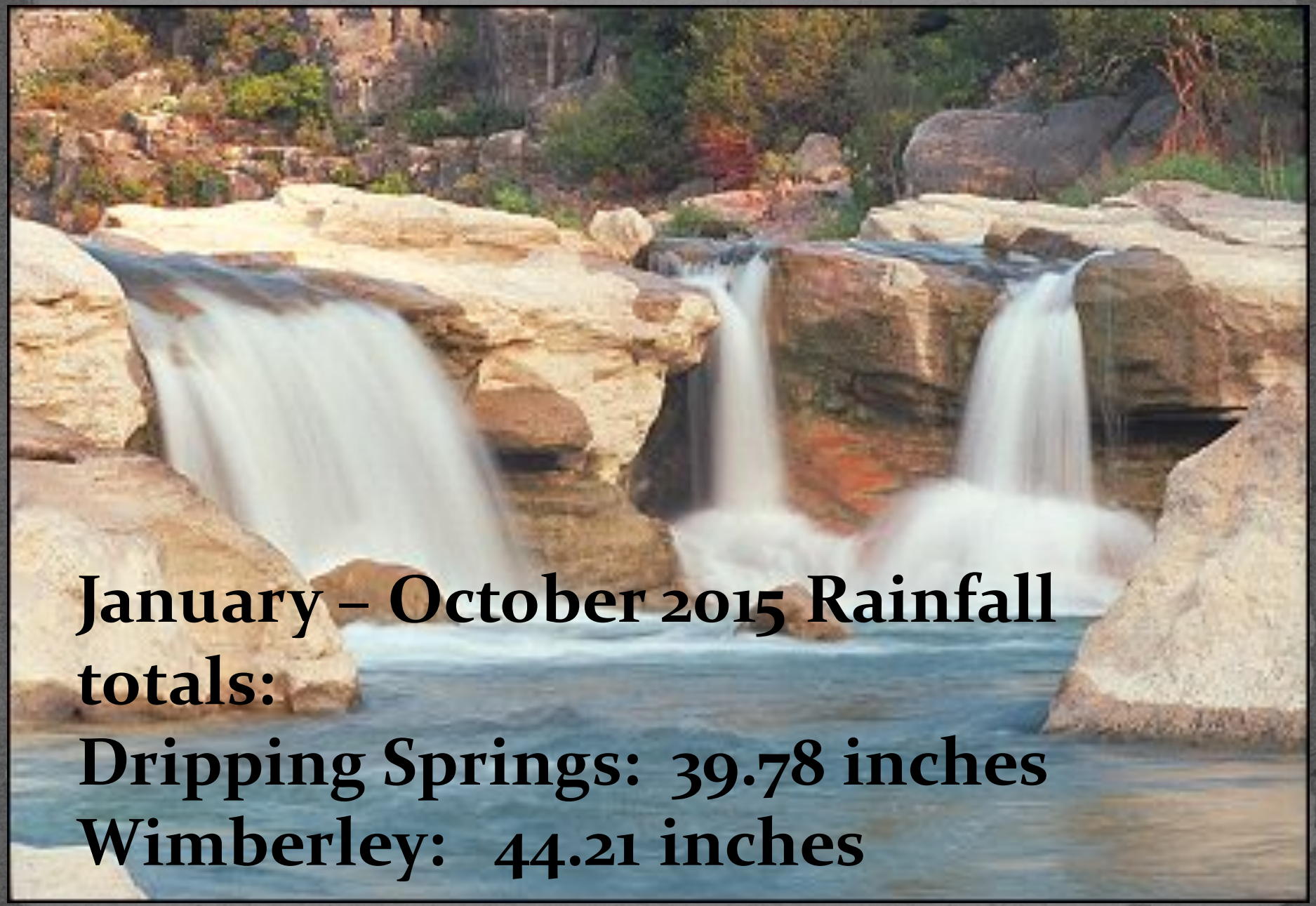
	Well Name	Oct 2014 Water Level	Oct 2015 Water Level		
	Whirlaway	692.5	695.2	-2.7	
	Jack Brown	382.5	357	25.5	
	Henley Church	361.4	339	22.4	
	Roman	244.4	222.4	22	
	Tom Hegemier	235.4	233.9	1.5	
	Grolnic	447.3	448.7	-1.4	
	Slopes of Nutty Brown	48.6	49	-0.4	
	Hills of Texas	316.4	314.4	2	
	Tull	163.2	103.6	59.6	
	Wizard Academy	310.5	290.2	20.3	
	Camp Ben	95.4	91.8	3.6	
	Mandola	240.9	215.8	25.1	
	Schmidt	227.4	207.2	20.2	
	Broun	195.4	178.4	17	
	Whit Hanks	177.87	153.42	24.45	
	Whisenant & Lyle	636.01	649.18	-13.17	
	DSWSC #1	108	80.54	27.46	
				253.4	14.9 up


October 2014 vs. October 2015 Well Water Levels
North of Camp Ben are up an average of 14.9 feet


October 2014 vs. October 2015 Well Water Levels
South of Camp Ben are up an average of 4.5 feet

2015 Rainfall Totals

NCDC Station	Month	2015 Rainfall Amount		NCDC Station	Month	2015 Rainfall Amount
DRIPPING SPRINGS 6 E	1	5.88		WIMBERLEY 1 NW	1	4.92
	2	0.75			2	0.79
	3	4.42			3	3.77
	4	2.72			4	2.28
	5	10.82			5	13.27
	6	3.04			6	1.62
	7	0			7	0
	8	0.02			8	0.16
	9	0.73			9	0.42
	10	11.4			10	16.98
Total Rainfall Jan-Oct		**39.78**				**44.21**



January – October 2015 Rainfall totals:

Dripping Springs: 39.78 inches

Wimberley: 44.21 inches

Monitoring Well Locations

Henly Church

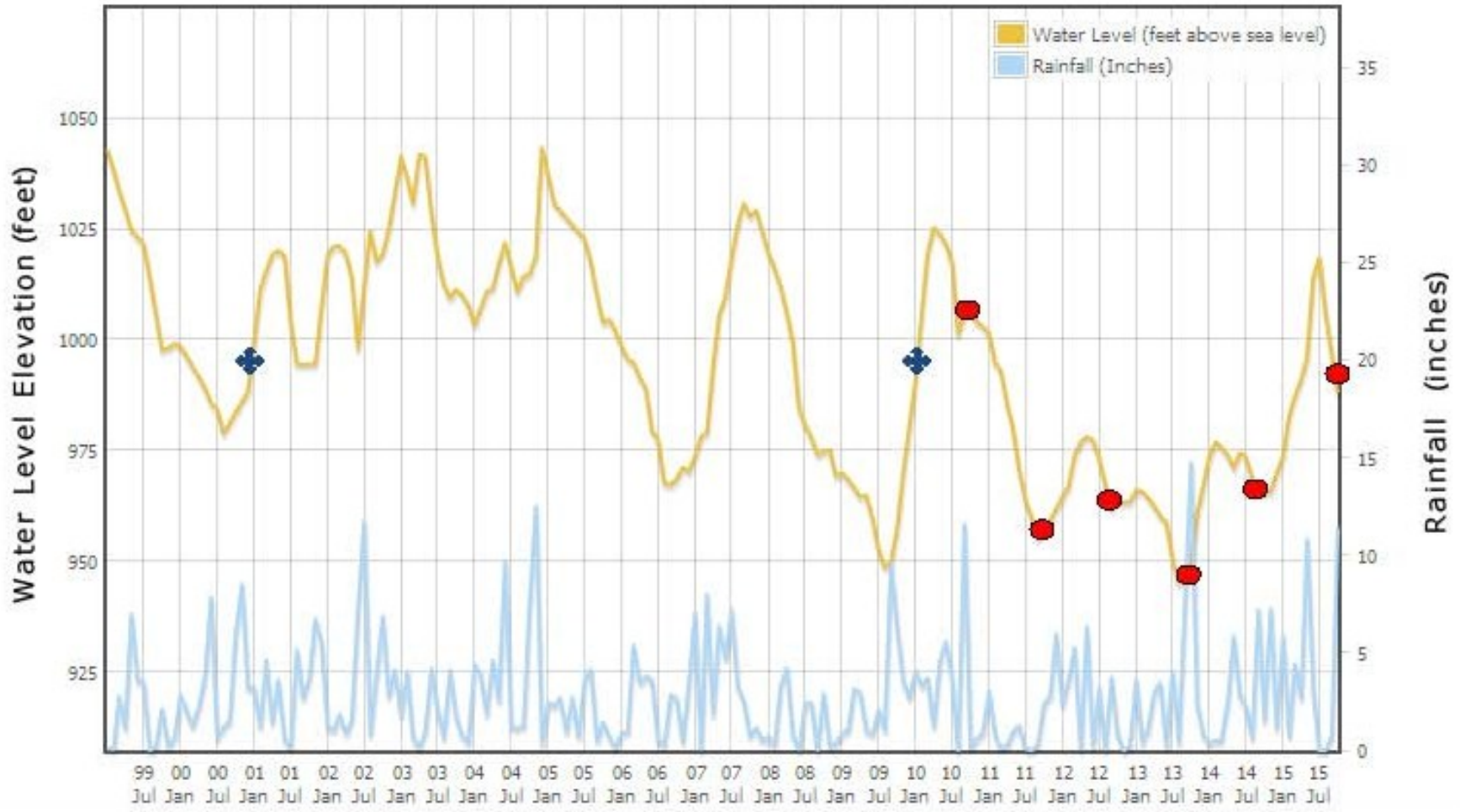
30° 11' 46" NORTH
98° 12' 45" WEST

HTGCD District Boundary Population

2001: 24,187

2010: 36,519

Total Well Depth: 460
Elevation: 1325.8920



Broun

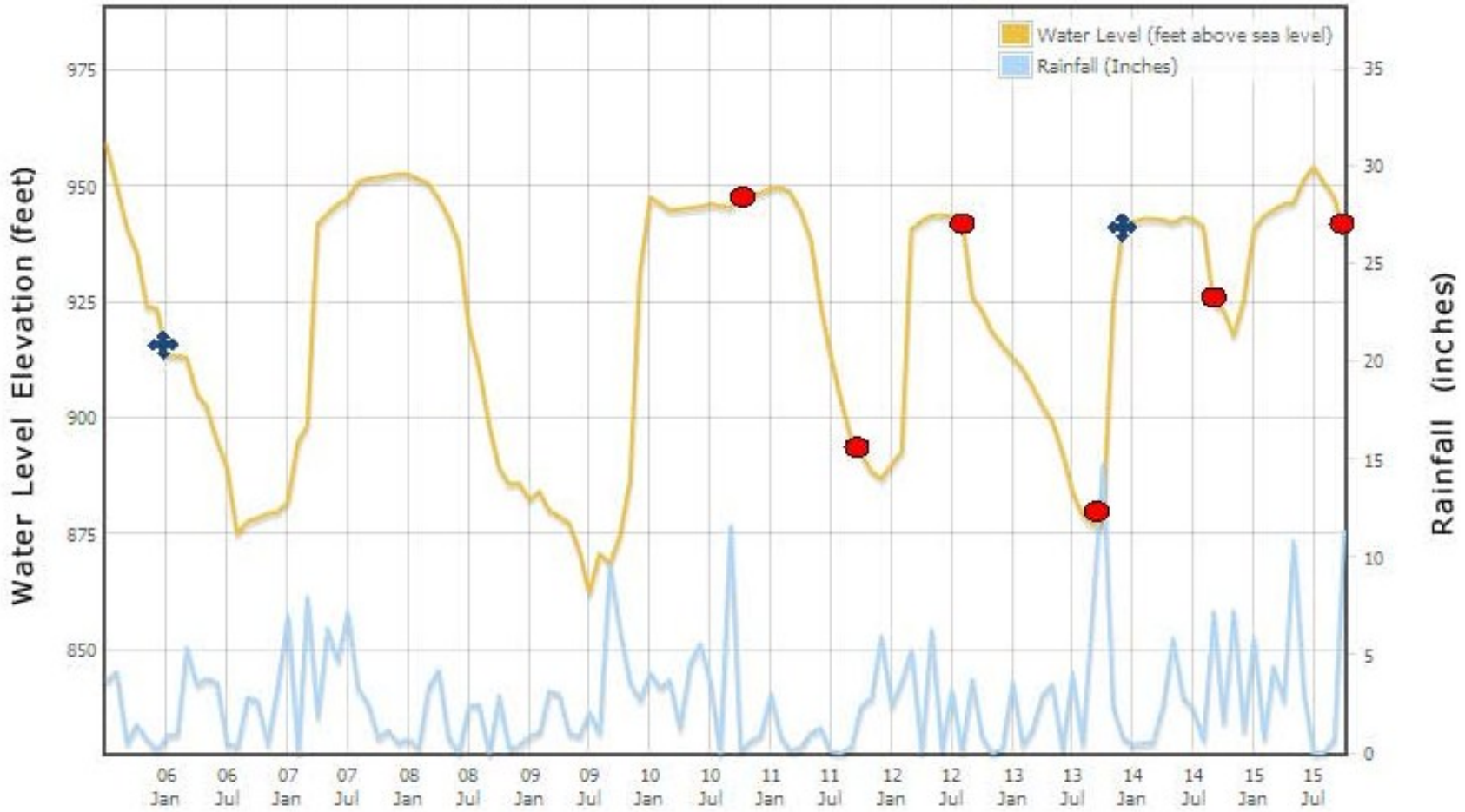
30° 10' 42" NORTH
98° 03' 12" WEST

HTGCD District Boundary Population

2001: 24,187

2010: 36,519

Total Well Depth: 280
Elevation: 1117.7200



Camp Young Judaea

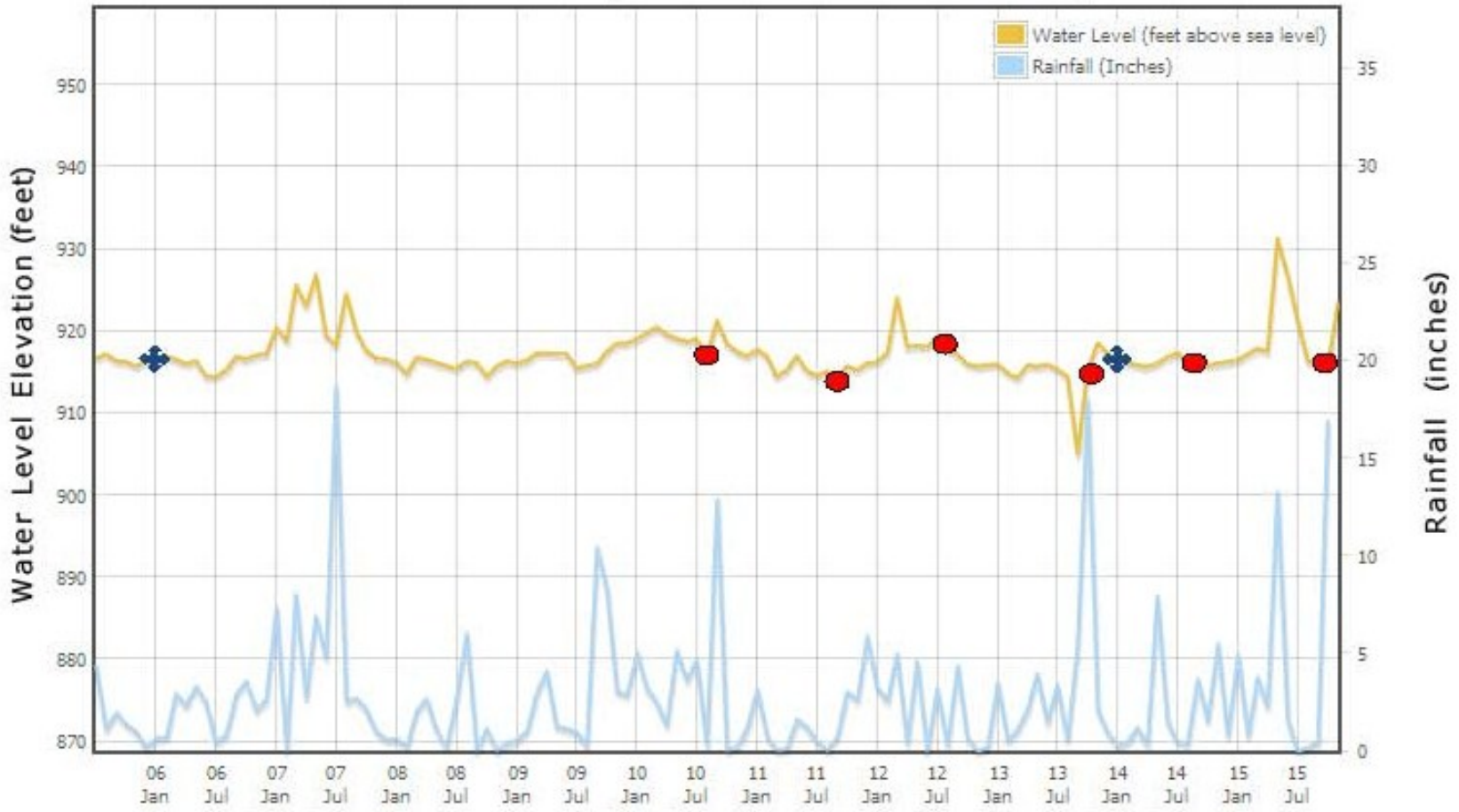
30° 01' 46" NORTH
98° 07' 08" WEST

HTGCD District Boundary Population

2001: 24,187

2010: 36,519

Total Well Depth: 250
Elevation: 955.2574



Mount Baldy

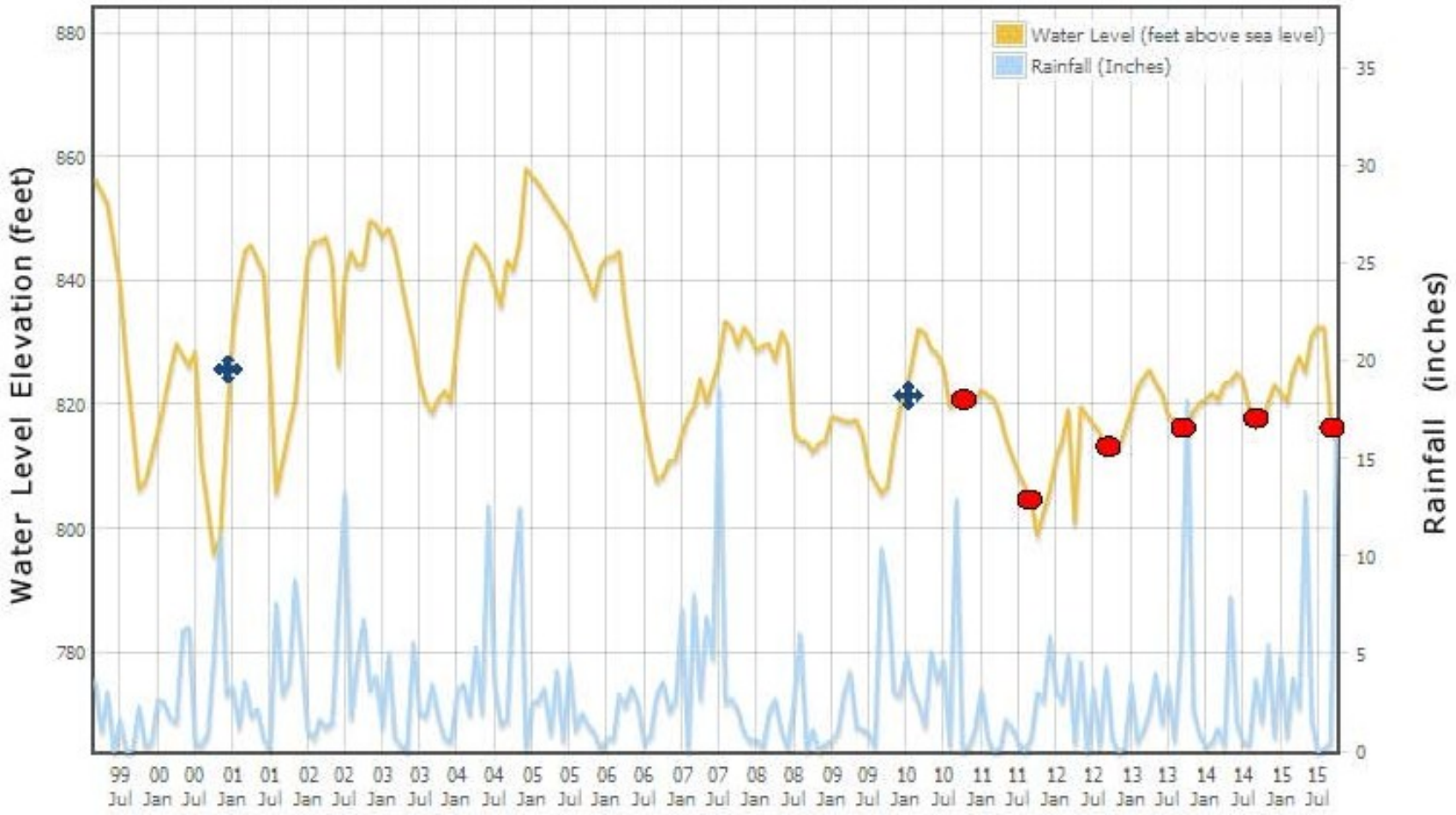
30° 00' 57" NORTH
98° 07' 01" WEST

HTGCD District Boundary Population

2001: 24,187

2010: 36,519

Total Well Depth: 400
Elevation: 938.6330



Drought Management

Discharge Flow Rate	30 Day Mean	60 Day Mean	Alarm Trigger	Critical Trigger	Emergency Trigger
Region K					
Pedernales Rv nr Johnson City, TX (08153500) as of 2015-12-08	135.04	135.07	31.6	10.2	2.23
Days with flow Above Stage Trigger			12	46	46
Onion Ck nr Driftwood, TX (08158700) as of 2015-12-08	134.8	195.25			
Region L					
Blanco Rv at Wimberley, TX (08171000) as of 2015-12-08	284	420.05	28.5	14.5	9.28
Days with flow Above Stage Trigger			60+	60+	60+
Jacobs Well Spg nr Wimberley, TX (08170990) as of 2015-12-08	27.07	23.6			

Drought Stage

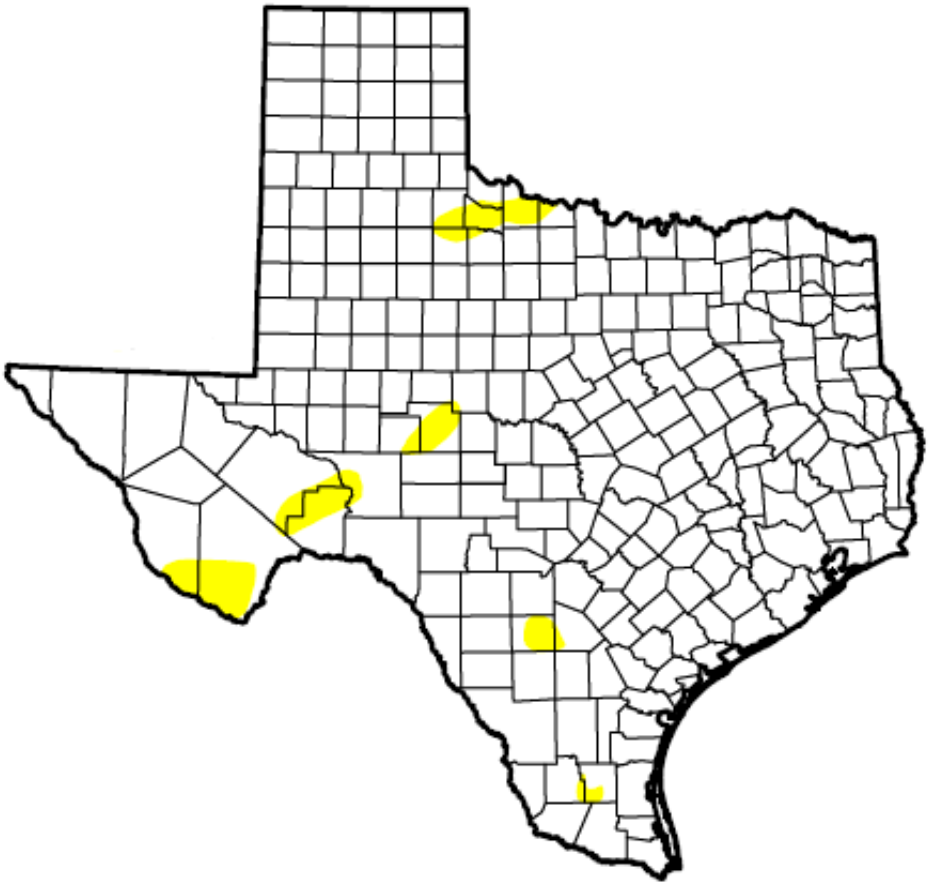
- As of December 9, 2015, the District continues to be within drought stage 1,

  No Drought/Voluntary Conservation.
- Domestic and Agricultural wells are exempt from District production curtailments, but are encouraged to reduce during drought times.

Drought Triggers

- The District uses three drought triggers: The Pedernales River, the Blanco River and the Palmer Drought Severity Index
- To move into drought stage Alarm, the two rivers must flow for 30 consecutive days below the drought stage trigger.
- Also reviewed are the drought conditions indicated within the Palmer Drought Severity Index for our area.

U.S. Drought Monitor
Texas



December 1, 2015

(Released Thursday, Dec. 3, 2015)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	96.38	3.62	0.00	0.00	0.00	0.00
Last Week 11/24/2015	92.65	7.35	0.61	0.00	0.00	0.00
3 Months Ago 9/1/2015	58.06	41.94	24.76	9.99	1.32	0.00
Start of Calendar Year 12/30/2014	34.37	65.63	44.68	25.73	11.70	3.17
Start of Water Year 9/29/2015	34.51	65.49	38.32	17.55	6.27	0.00
One Year Ago 12/2/2014	34.05	65.95	43.29	22.05	9.50	2.57

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

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

Author:
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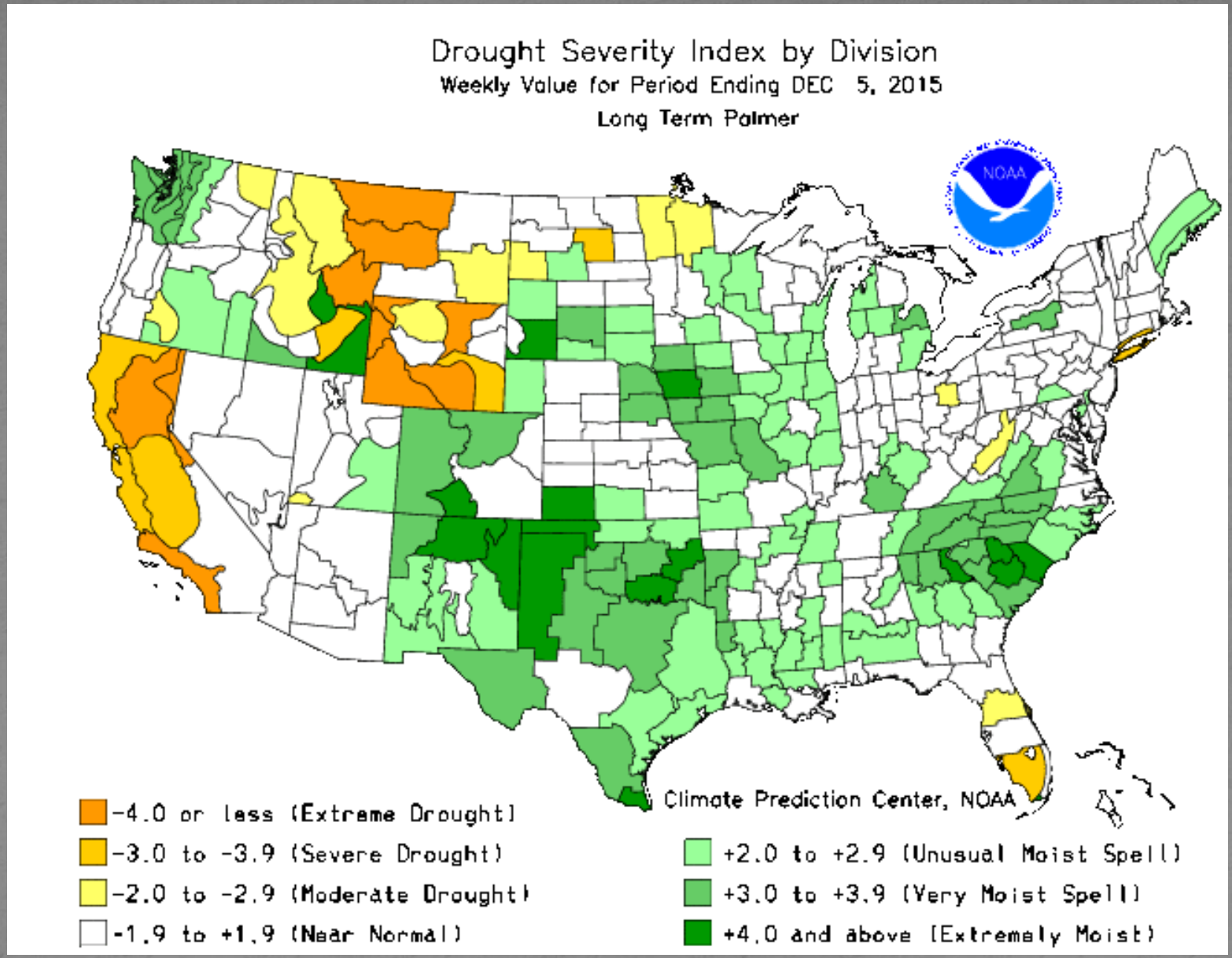
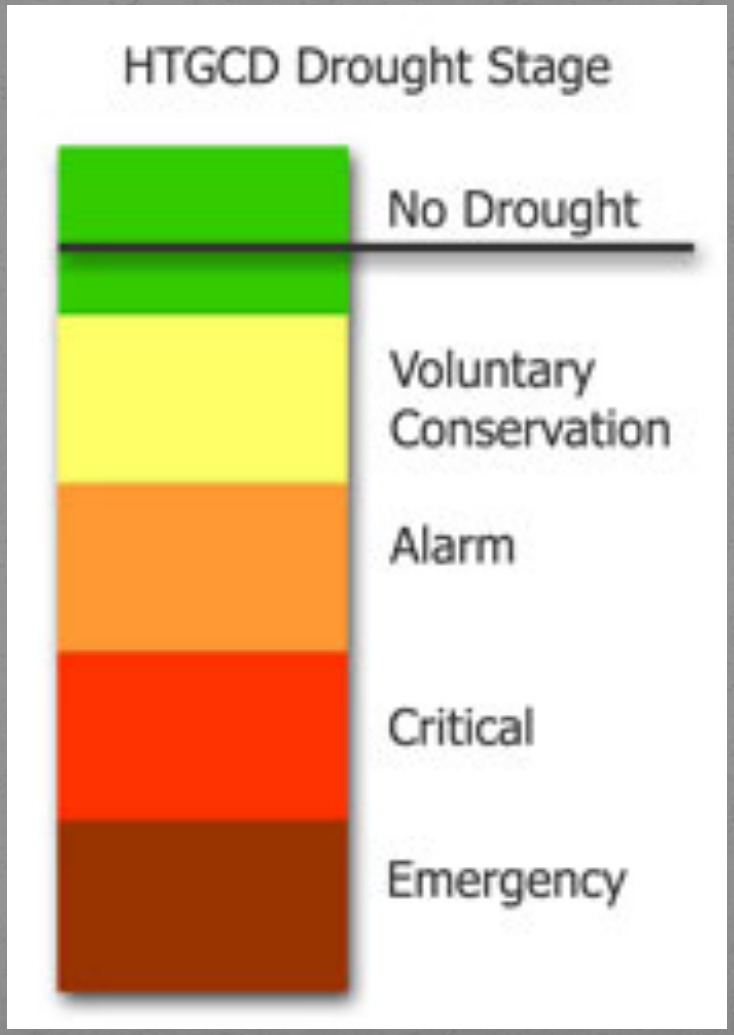
Western Regional Climate Center


Drought Severity Index by Division
Weekly Value for Period Ending DEC 5, 2015
Long Term Palmer
NOAA
Climate Prediction Center, NOAA
-4.0 or less (Extreme Drought)
-3.0 to -3.9 (Severe Drought)
-2.0 to -2.9 (Moderate Drought)
-1.9 to +1.9 (Near Normal)
+2.0 to +2.9 (Unusual Moist Spell)
+3.0 to +3.9 (Very Moist Spell)
+4.0 and above (Extremely Moist)

HTGCD Drought Stage



How can the District help you?

- Please go to our website, www.haysgroundwater.com and check out our Water Level Monitoring map and see how close you live to one of our monitoring wells.
- You may be able to compare our historic well level data to your well level.

Thank you!

- My Information:
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- Website: www.haysgroundwater.com