

# CHESTER COUNTY OBSERVATION WELL NETWORK - REPORT FOR OCTOBER 2009

*Levels Indicated are Depth to Water Below Land Surface in Feet*

WELL NO.	MUNICIPAL LOCATION	CURRENT MONTH		NET CHANGES		REFERENCE DATA to DETERMINE STATUS			
		DEPTH TO WATER (feet)	DROUGHT STATUS	FROM ONE MONTH AGO (1)	FROM ONE YEAR AGO (1)	DROUGHT EMERGENCY > 95%	DROUGHT WARNING > 90%	DROUGHT WATCH > 75%	BELOW MEDIAN 50%
CB-2	Honey Brook	8.25	Above Median	0.00	-2.64	12.89	12.42	11.23	10.24
CB-10	W. Marlborough	12.50	Above Median	-0.45	-2.09	15.55	15.39	15.10	14.44
12	W. Bradford	36.59	Above Median	0.20	-1.35	38.50	38.50	38.50	37.30
CB-38	New Garden	7.27	Above Median	0.71	-4.68	13.86	13.52	12.35	11.24
89	E. Whiteland	142.92	N/A	0.72	-1.01	Drought-trigger levels not determined			
210	Tredyffrin	20.42	Above Median	1.28	-3.50	26.24	25.99	25.10	23.83
254	E. Nottingham	23.85	Below Median	-0.03	-1.71	28.04	27.12	24.84	22.17
1201	W. Sadsbury	5.00	Above Median	-0.21	-1.14	7.08	7.05	6.65	6.22
CB-1229	Upper Uwchlan	36.21	Above Median	1.17	-4.02	42.26	41.69	40.87	39.86
CB-1247	W. Vincent	27.65	Above Median	-0.25	-1.95	33.96	33.89	32.47	31.30
1387	Thornbury	33.44	Above Median	0.21	-2.50	38.50	37.58	36.25	35.39
1571	E. Vincent	6.15	Above Median	-0.18	-2.55	11.11	10.82	10.51	9.95
1921	New Garden	42.26	Above Median	-0.41	-3.70	49.91	48.80	46.35	43.84
2273	W. Brandywine	-1.01	Above Median	-0.22	-3.81	4.29	3.96	2.65	1.29
2313	E. Whiteland	9.78	Above Median	-0.22	-4.02	15.68	14.73	12.57	11.22
2328	E. Nantmeal	1.22	Above Median	-0.05	-2.28	5.47	5.38	4.50	3.37
2456	E. Brandywine	18.65 *	Above Median	-0.07	-1.07	20.69	20.61	20.29	19.99
2457	E. Goshen	19.35	Above Median	-0.08	-3.29	23.17	22.96	22.60	22.09
2561	Charlestown	93.42	N/A	0.32	1.83	Drought-trigger levels not determined			
2584	E. Marlborough	19.40	N/A	-0.22	-3.08	Drought-trigger levels not determined			
2663	New Garden	9.69	Above Median	-0.18	-1.31	11.03	10.95	10.82	10.60
3289	Tredyffrin	22.04	Above Median	0.37	-2.46	30.95	30.32	26.06	24.51
5422	Londonderry	18.67	N/A	0.51	-3.48	Drought-trigger levels not determined			
6513	N. Coventry	14.64	N/A	-0.08	-2.62	Drought-trigger levels not determined			
6516	Pennsbury	0.38	N/A	0.00	-3.23	Drought-trigger levels not determined			
6517	W. Caln	62.85	N/A	0.22	-1.84	Drought-trigger levels not determined			
6518	Lower Oxford	21.25	N/A	1.21	-2.17	Drought-trigger levels not determined			
7007	Wallace	28.37 <sup>N</sup>	N/A	1.41	-5.32	Drought-trigger levels not determined			
7269	Newlin	8.86 <sup>N</sup>	N/A	-0.13	-0.97	Drought-trigger levels not determined			
MEAN CHANGES OF ALL WELLS				0.20	-2.38				

Wells were measured on October 20, 2009

CB = wells monitored for the Christina Basin Drought Management Plan

NR = no reading available

(1)"NET CHANGES": A (-) negative number indicates a decrease in the depth from the land surface to the water level in the well, or the level of water in the well has risen compared to the previous period.

\* = a new Minimum Depth to water in the well for this month

\*\* = new Maximum Depth to water in the well for this month

\*\*\* = well was dry at time of observation

<sup>N</sup> = Not enough data to determine statistics

Wells CH 2273, CH 2328 and CH 6516 can have ground water flowing above the land surface (known as an artesian well); a (-) negative number under "DEPTH TO WATER" indicates water flowing above the land surface.

Reference Data Percentiles shown were revised as of September 1, 2007 to reflect updated statistical analysis performed by the U.S. Geological Survey (USGS Data Series 292, 2007).

## SUMMARY

Number of wells below Median Level = 1 (0 of these are also below watch, warning or emergency levels)  
 Number of wells below Drought Watch Level = 0 (0 of these are also below warning or emergency levels)  
 Number of wells below Drought Warning Level = 0 (0 of these are also below emergency levels)  
 Number of wells below Drought Emergency Level = 0

19 of the 29 wells have statistics

*For additional information contact the Chester County Water Resources Authority at (610)344-5400.*