

Ground Water Networks

Kentucky v/s Other States (PA)



What are the differences in the photos?



National Water Information System: Web Interface

USGS Water Resources (District Access)

News - updated May 28, 2013

Current Conditions for Kentucky: Groundwater -- 1 site(s) found

PROVISIONAL DATA SUBJECT TO REVISION

--- Predefined displays --- Group table by Select sites by number or name
 Kentucky Groundwater Table -- no grouping -- station name go show sites on a map

[Customize table to display other current-condition parameters](#)

Station Number	Station name	Date/Time	Depth to water level, feet below LSD	Ground-water level above NGVD, feet	Temperature, deg C
365210088391301	VIOLA WELL - J5C0103	06/10 08:15 CDT	7.45	--	--

Data status codes:
 -- Parameter not determined

[Questions about sites/data?](#)
[Feedback on this web site](#)
[Automated retrievals](#)
[Help](#)



National Water Information System: Web Interface

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News - updated May 28, 2013

Current Conditions for Pennsylvania: Groundwater -- 68 site(s) found

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 Pennsylvania Groundwater Table -- no grouping -- go show sites on a map

[Customize table to display other current-condition parameters](#)

Station Number	Station name	Date/Time	Depth to water level, feet below LSD
394430077225001	AD 808 Adams County Observation Well	06/10 09:00 EDT	86.22
394655080014301	GR 118 Greene County Observation Well	06/10 10:00 EDT	23.73
394755078135001	FU 249 Fulton County Observation Well	06/10 09:00 EDT	48.85
394843079351401	FA 17 Fayette County Observation Well	06/10 10:00 EDT	23.04
395322077365301	FR 818 Franklin County Observation Well	06/10 09:00 EDT	72.85
395450075485401	CH 10 Chester County Observation Well	06/10 10:00 EDT	12.53
395512075293701	DE 723 Delaware County Observation Well	06/10 10:00 EDT	5.82
395846077040601	AD 146 Adams County Observation Well	06/10 10:00 EDT	11.83
395920079021501	SO 854 Somerset County Observation Well	06/10 10:00 EDT	23.52
400209077183301	CU 2 Cumberland County Observation Well	06/10 10:00 EDT	19.87
400217078281901	BD 150 Bedford County Observation Well	06/10 09:00 EDT	10.39
400229075104601	PH 1043	06/10 09:00 EDT	13.51
400233080261301	WS 155 Washington County Observation Well	06/10 09:00 EDT	36.34
400916076492301	YO 1147 York County Observation Well	06/10 09:00 EDT	21.70
401157075032001	BK 1020 Bucks County Observation Well	06/10 09:00 EDT	30.45
401637076071501	LN 1351 Lancaster County Observation Well	06/10 09:00 EDT	9.86
401733075171401	MG 917 Montgomery County Observation Well	06/10 10:00 EDT	7.38
401843078075401	HU 301 Huntingdon County Observation Well	06/10 10:00 EDT	53.52

Kentucky V/S Pennsylvania
 Real-Time Groundwater Network

What are the differences in the photos?

USGS science for a changing world

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National Water Information System: Web Interface

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News - updated May 28, 2013

Current Conditions for Pennsylvania: Groundwater - 68 site(s) found

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Kentucky V/S Pennsylvania
Real-Time Groundwater Network

Kentucky V/S Pennsylvania Real-Time Groundwater Network

- **Kentucky has 120 counties with 1 continuous groundwater site.**
- **Pennsylvania has 67 counties with 68 continuous groundwater sites.**

Why is a Groundwater Network needed?





SURVEY SAYS!

Example of PA Drought Monitoring

- **What is needed for Drought Indicators**
 - **Precipitation**
 - **Palmer**
 - **Surface Water**
 - **Groundwater**

Precipitation

- **Drought conditions result from precipitation deficits.**
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Palmer

- **The Palmer Drought Severity Index is a value computed as a function of both meteorological and hydrologic data to measure soil moisture conditions.**
- **It is compiled weekly by the Climate Prediction Center of the U.S. National Weather Service for each of their climatological regions.**

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Surface Water

- **Every day, USGS stream-gage records are used to compute an average flow of the last 30 days preceding that day (called the “30-day moving average daily flow”), that serves as a stream-flow indicator.**
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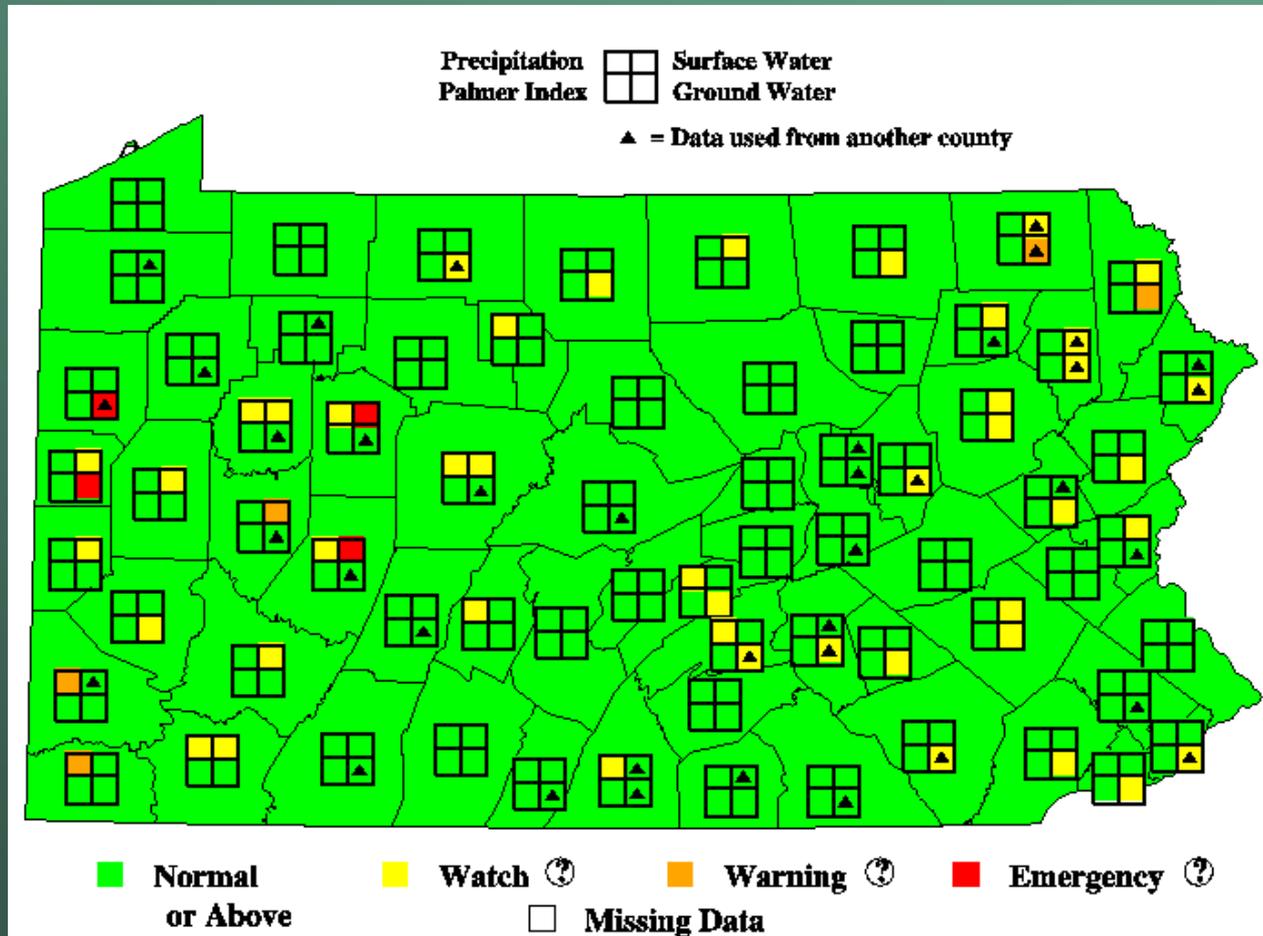
Groundwater

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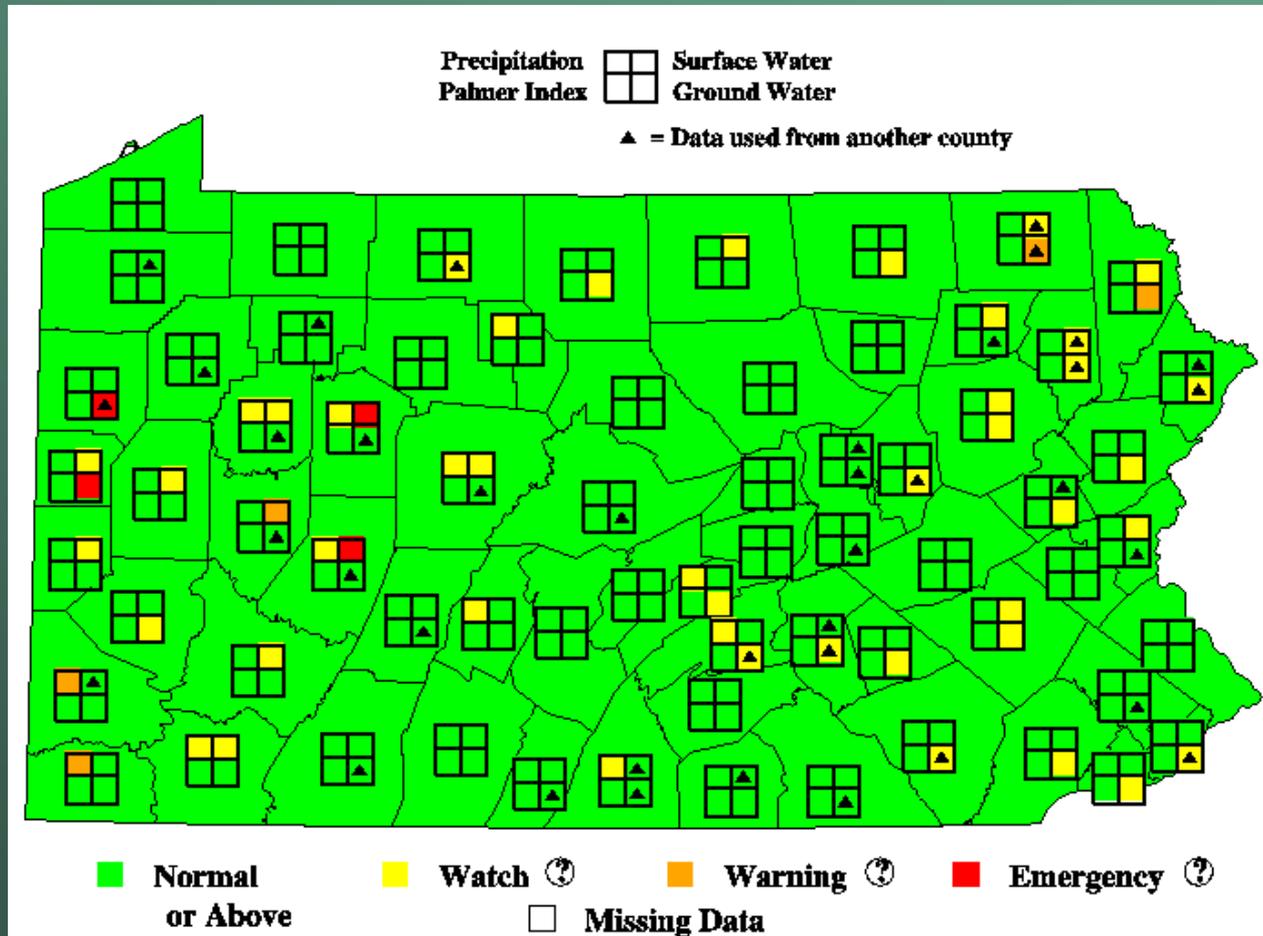
PA Composite Indicator Map



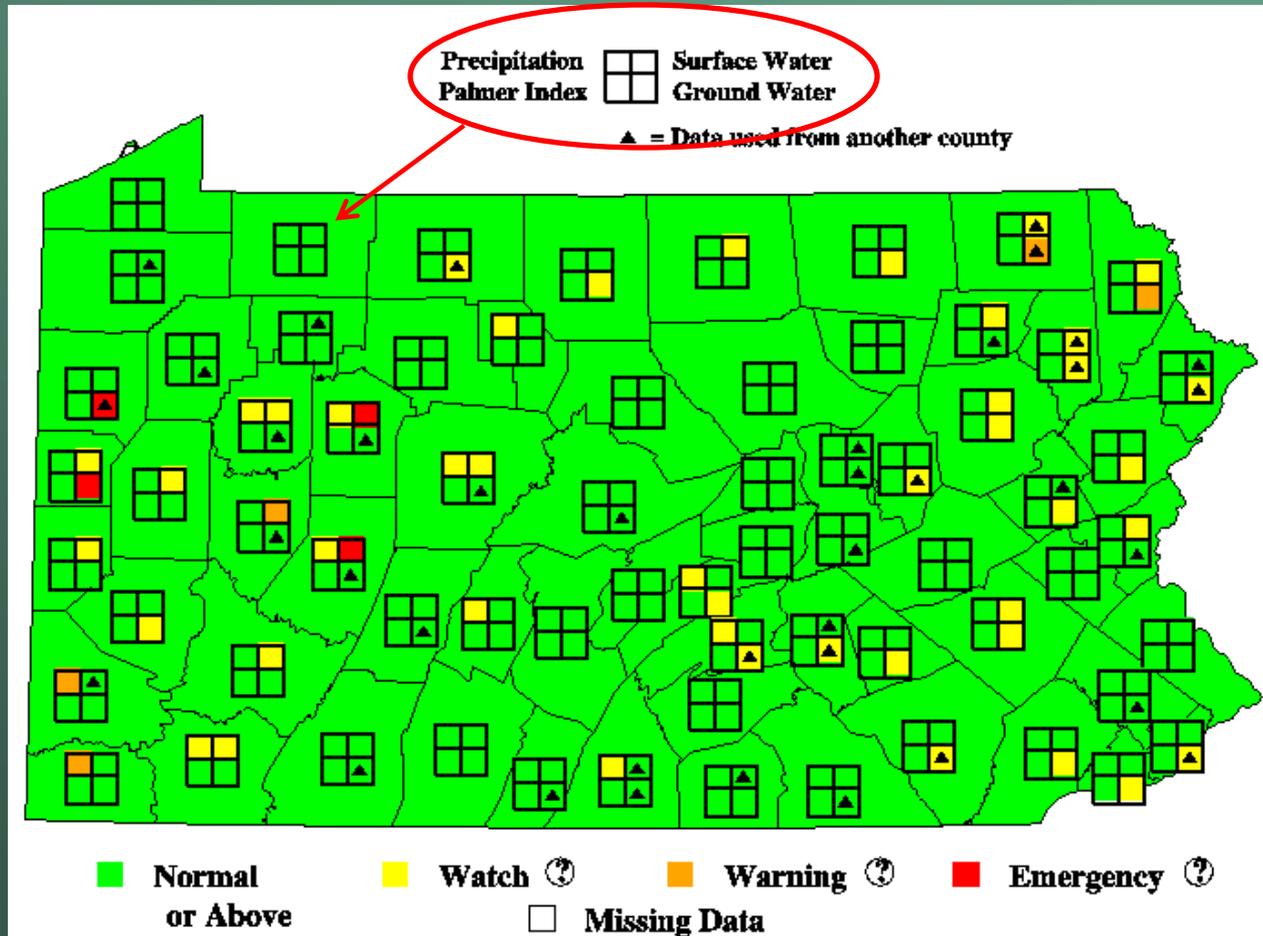
PA Composite Indicator Map

- **Status of indicators is shown by the color of the four squares within each county. The color of the squares is not an indication of drought declarations. Status of the current drought declaration is shown by the color of the counties themselves (county colors change when declarations are issued).**

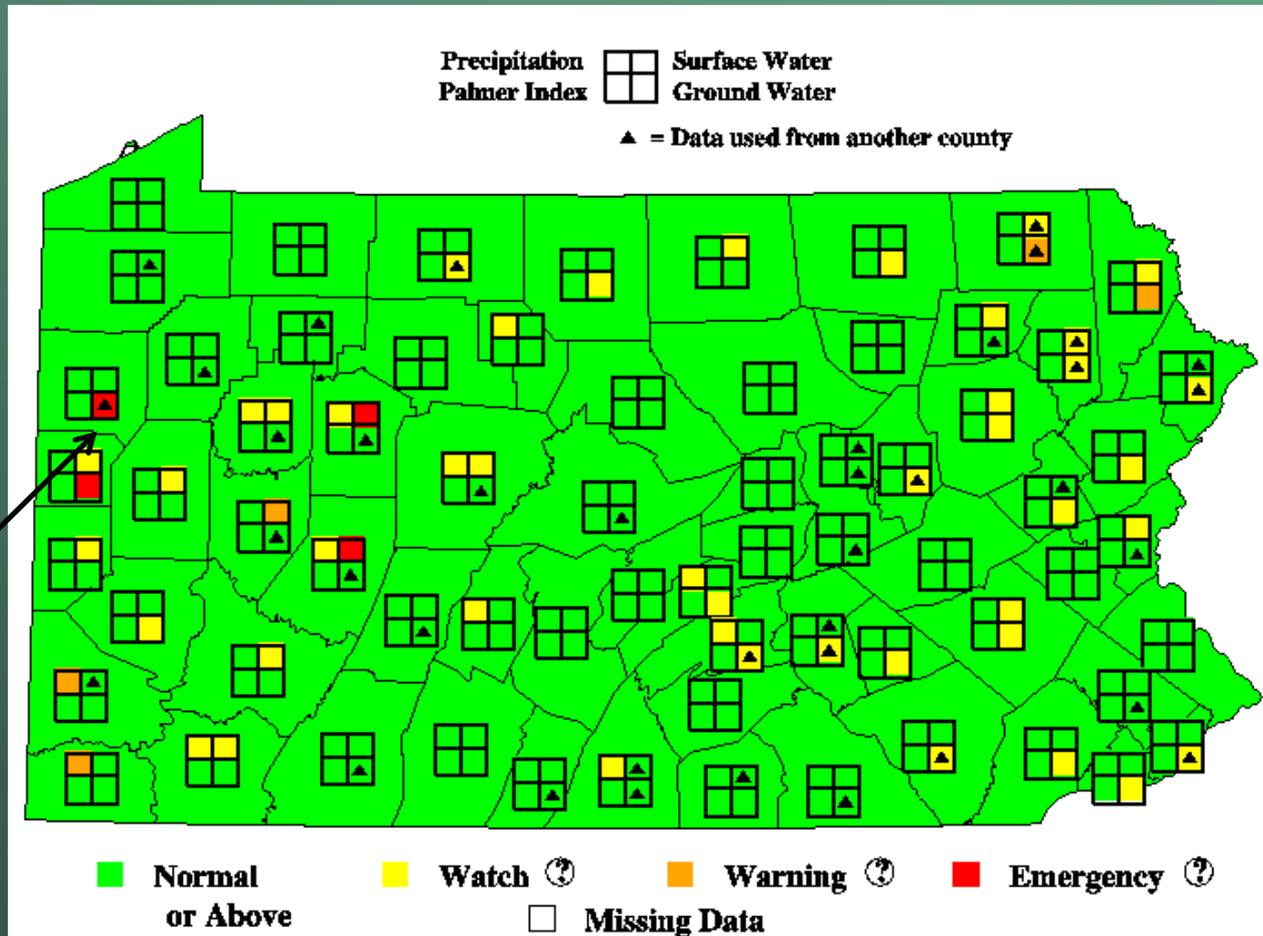
PA Composite Indicator Map



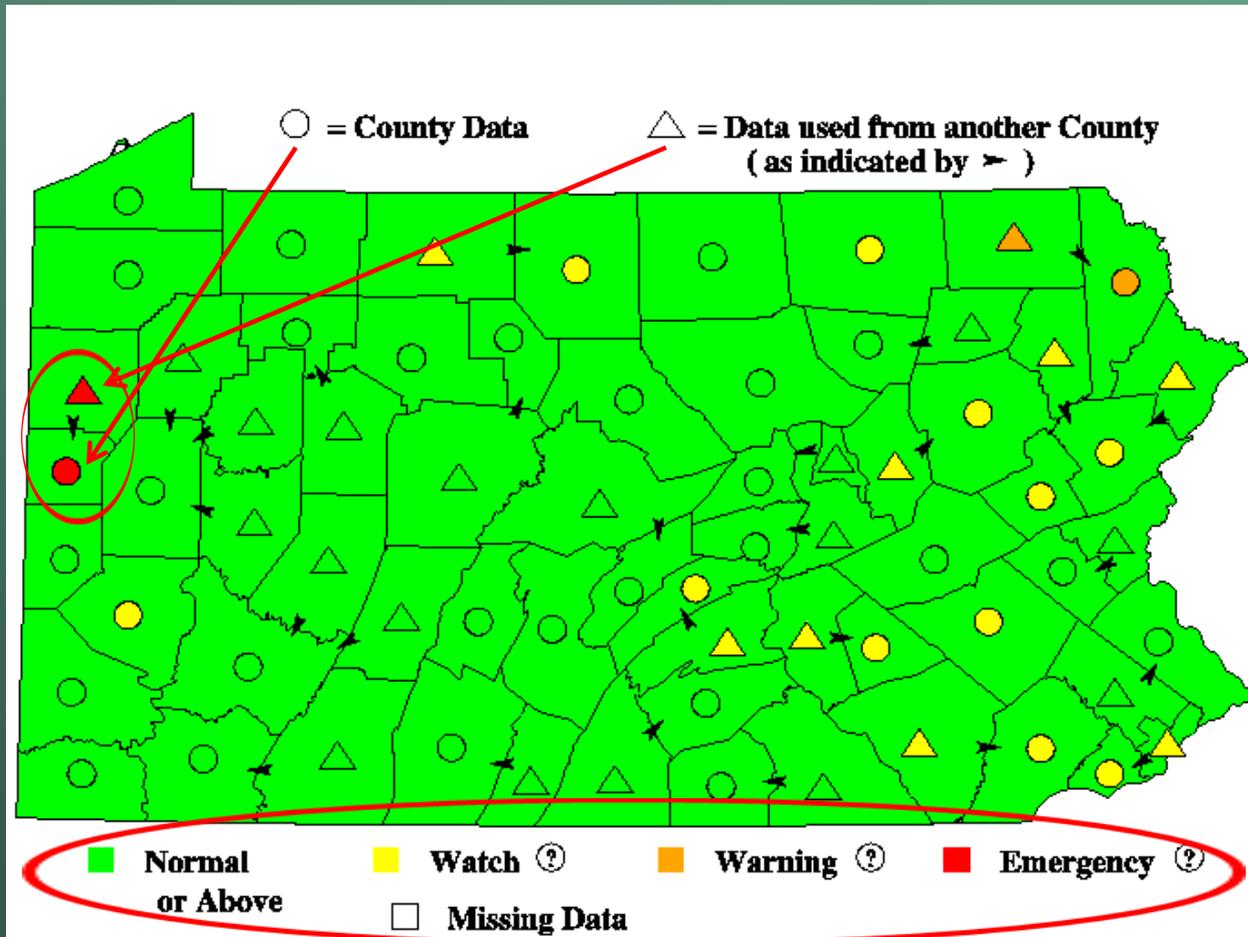
PA Composite Indicator Map



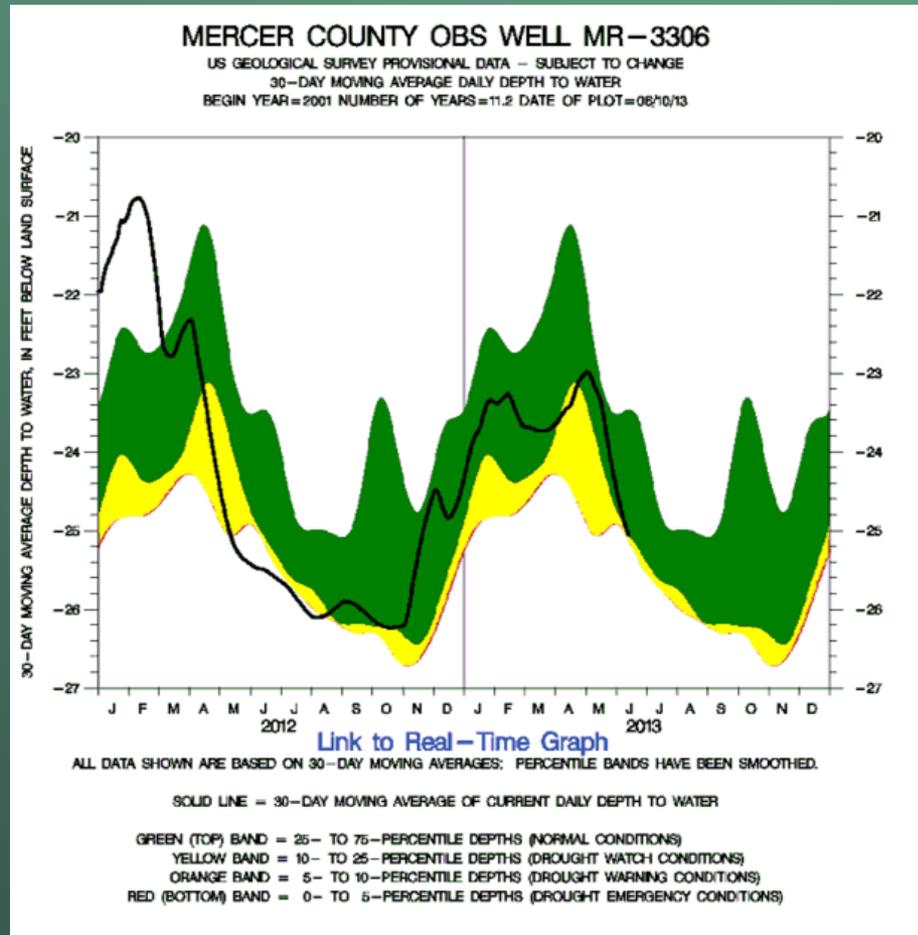
PA Composite Indicator Map



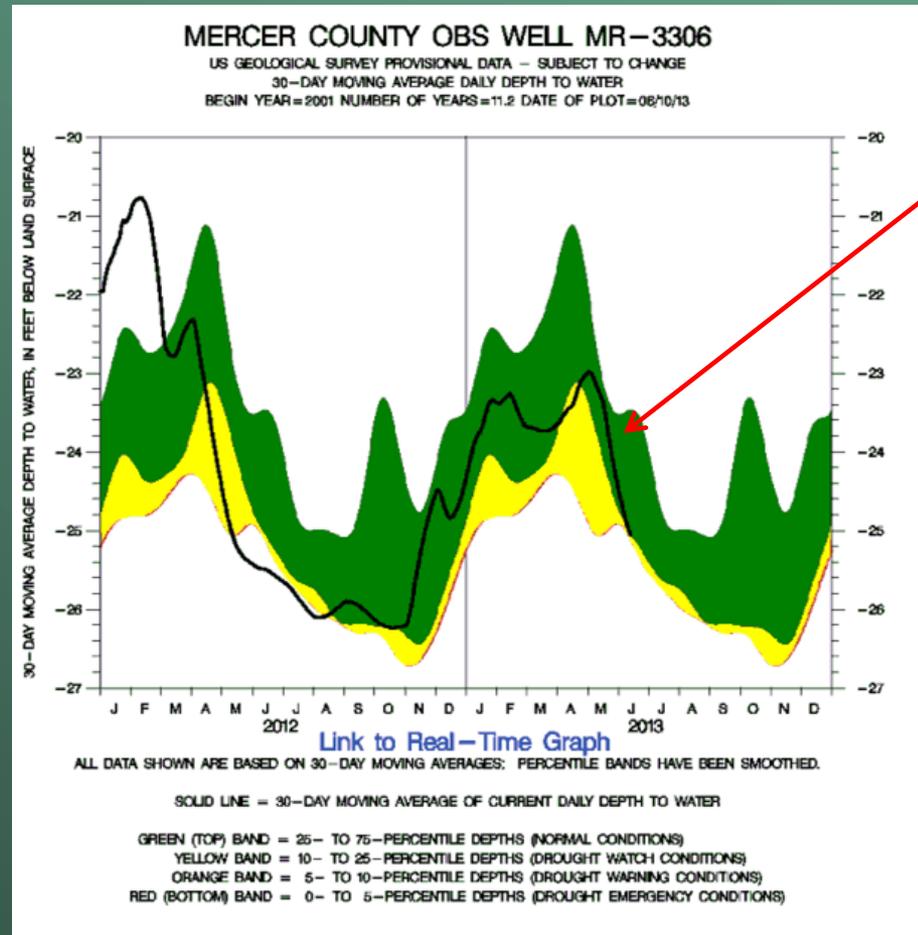
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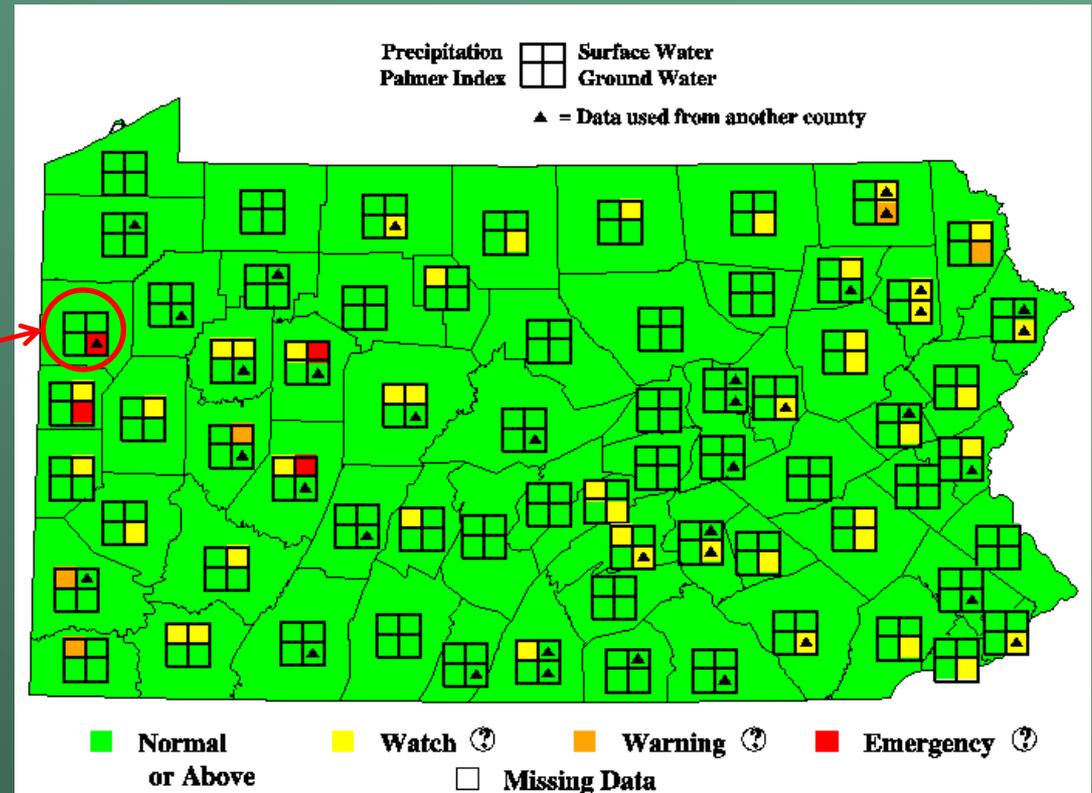


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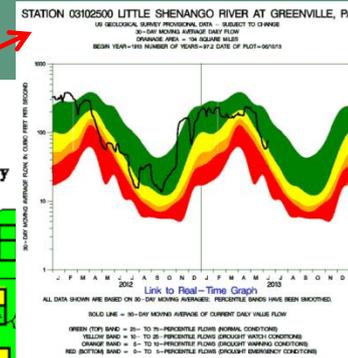
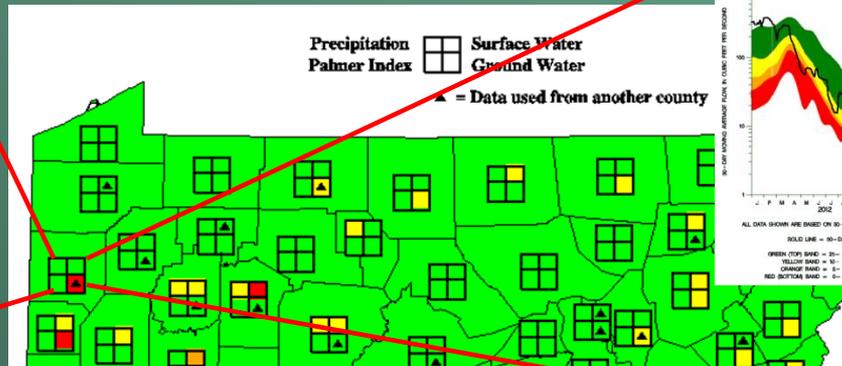
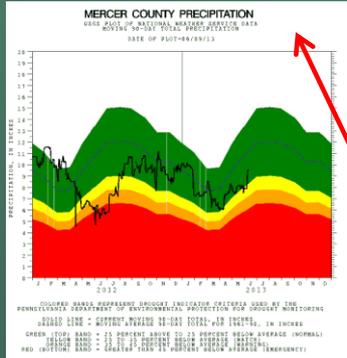
Real Time GW data

PA Composite Indicator Map



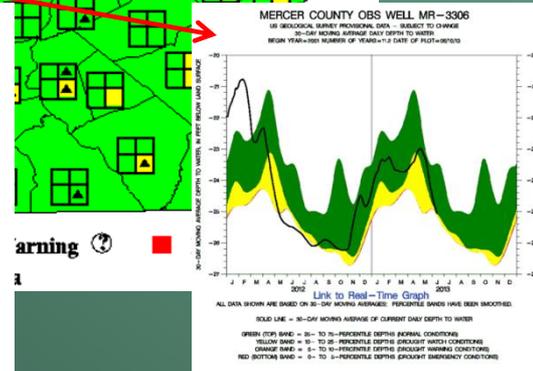
Only GW is in a
Emergency situation, the
other 3 are normal.

PA Composite Indicator Map



WEEKLY PALMER DROUGHT AND CROP MOISTURE DATA FOR THE CLIMATE DIVISIONS IN THE EASTERN REGION
CLIMATE PREDICTION CENTER, NCEP, NWS, NOAA
WEEK 13 OF THE 2013 GROWING SEASON IS THE WEEK ENDING 1 JUN 2013

ST	CD	CLIMATE DIVISION	TEMP (F)	PCPN (IN)	SOIL MOISTURE		PCT FIELD CAP.	POT EVAP (IN)	RUN OFF (IN)	CROP MOIST INDEX	CHANGE FROM PREV WEEK	MONTH MOIST ANOM (Z)	PRELIM-FINAL DROUGHT INDEX	PRECIP TO END DROUGHT (IN)
					UPPER LAYER (IN)	LOWER LAYER (IN)								
PA	1	POCONO MOUNTAINS	63.3	0.57	0.53	5.00	92.1	0.94	0.00	0.01	-0.41	-0.88	-1.45	F 3.59
PA	2	EAST CENTRAL MINS.	66.6	0.30	0.00	4.72	78.7	1.03	0.00	-0.07	-0.09	-1.73	-1.45	F 3.99
PA	3	SE PIEDMONT	68.2	0.28	0.00	4.64	77.4	1.04	0.00	-0.10	-0.24	-1.05	-1.20	F 3.02
PA	4	LOWER SUSQUEHANNA	67.0	0.19	0.00	4.49	74.8	1.00	0.00	-0.15	-0.41	-0.90	-0.32	P
PA	5	MIDDLE SUSQUEHANNA	64.7	0.47	0.00	4.90	81.6	0.94	0.00	0.00	-0.23	-0.37	-0.17	P
PA	6	UPPER SUSQUEHANNA	62.9	1.02	0.49	5.00	91.4	0.94	0.00	0.08	0.07	-1.07	-0.91	P 2.00
PA	7	CENTRAL MOUNTAINS	64.1	0.79	0.00	4.78	79.7	0.97	0.00	-0.05	-0.04	-1.84	-1.56	P 3.69
PA	8	SOUTH CENTRAL MTS.	65.3	0.52	0.00	4.58	76.4	0.99	0.00	-0.12	-0.24	-1.38	-1.55	F 3.81
PA	9	SOUTHWEST PLATEAU	64.8	0.45	0.00	4.86	81.0	0.96	0.00	-0.04	-0.05	-2.30	-1.89	F 4.29
PA	10	NORTHWEST PLATEAU	64.1	1.69	0.72	4.78	91.6	0.97	0.00	0.57	0.64	-1.59	-1.33	P 2.91



Why can't Kentucky have same?

- They can.
- Cooperating efforts between all of us can make this happen.
- The system is already set up from Pennsylvania.
- Kentucky has 3 of the 4 indicators already.



Questions and Answers

