

Brief Overview of Indiana's Water Use Program and Implementation of the Ground Water Rights Law and Water Shortage Plan in 2012

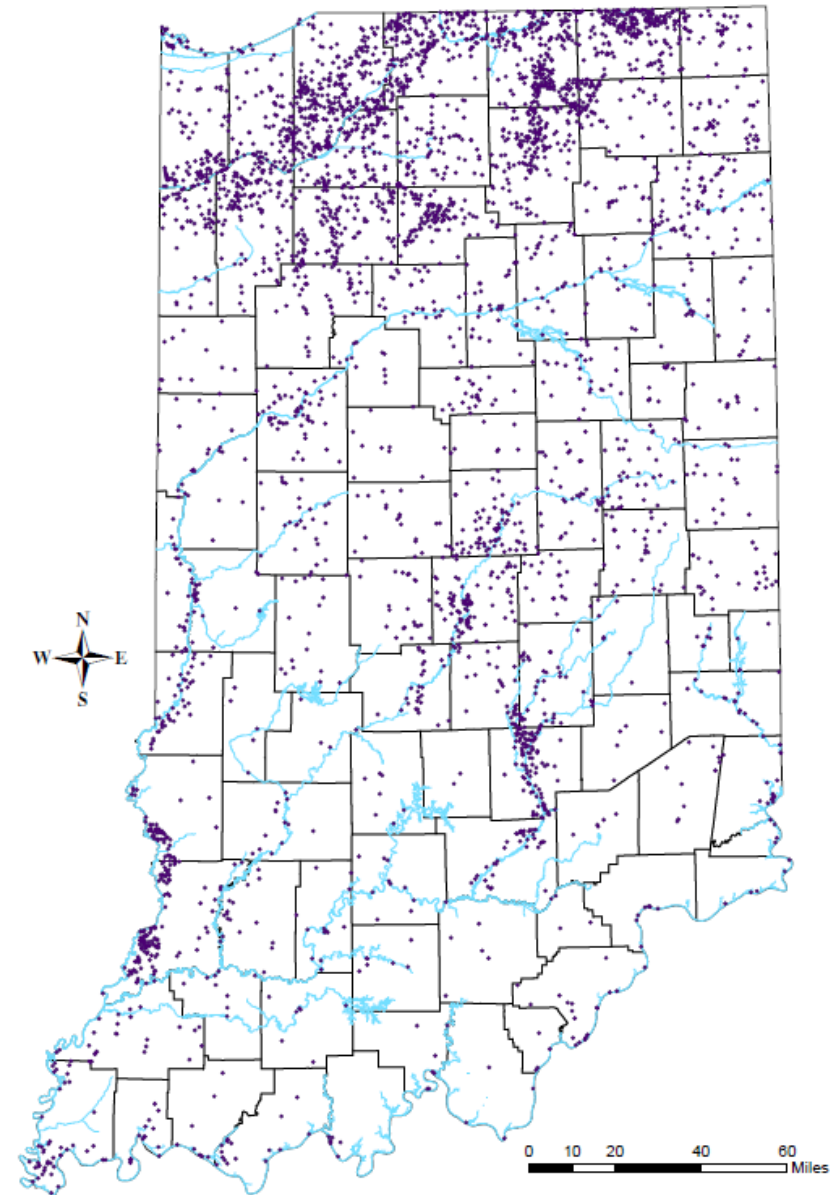


INDIANA DEPARTMENT OF
NATURAL RESOURCES

IC 14-25-7: Water Resources Management Act

- Enacted in 1983
- Requires registration of all SWWF (gw & sw)
- Facility defined as greater than 100,000 gpd capability
- Capability is aggregate of all wells & intakes
- Annual water use reporting (1985 first year of reporting)
- Approximately 3744 registered SWWF in 2012

Location of Significant Water Withdrawal Facilities in Indiana



2012 Indiana Registered SWWFs

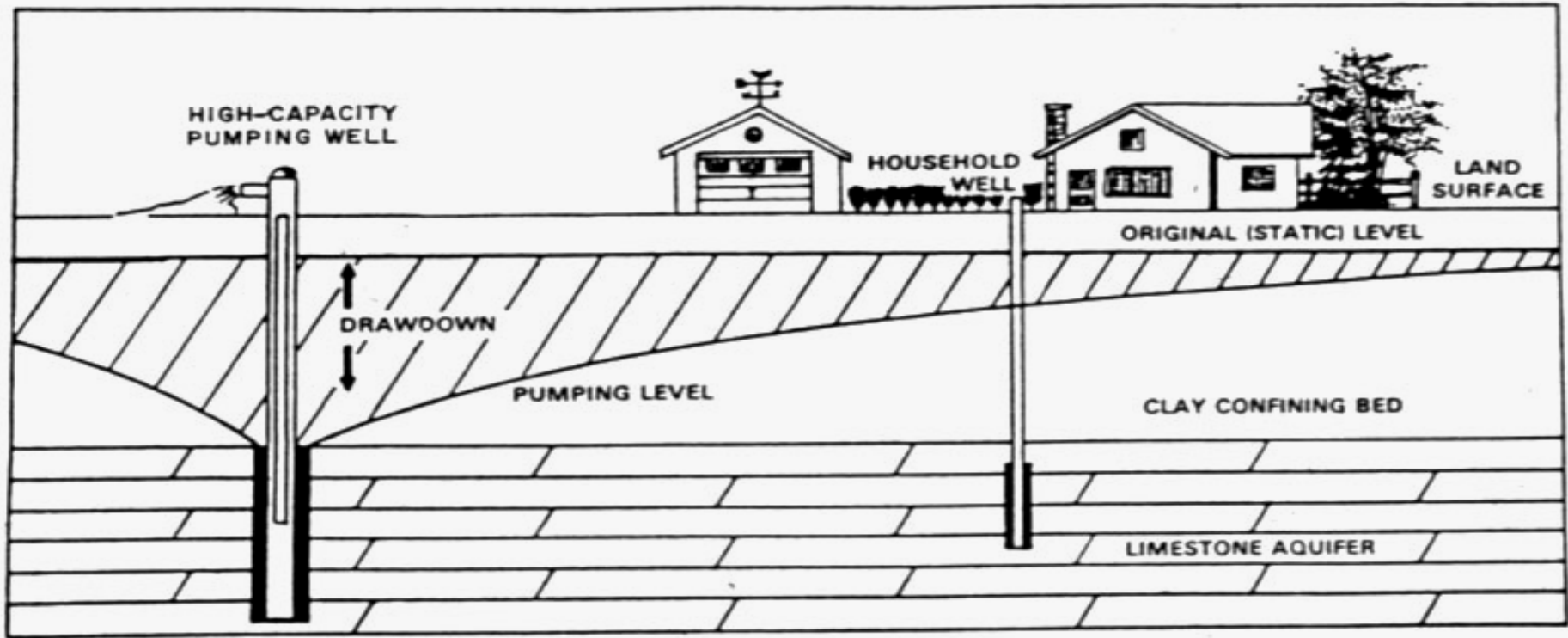
<i>Water Use Code</i>	<i>Number of Facilities</i>	<i>Number of Wells</i>	<i>Number of Intakes</i>
EP	99	236	111
IN	381	697	284
IR	2342	3049	853
MI	143	248	50
PS	716	2178	69
RU	63	168	14
TOTAL	3744	6576	1381

2011 STATE TOTALS

	<i>Withdrawals (BG)</i>	<i>Capacity (MGD)</i>	<i>Withdrawals vs Capacity</i>	<i>Current Number</i>
Surface Intakes	2851	17996	43.4%	1379
Wells	226	5164	11.9%	6558
TOTAL	3077	23160	36.4%	7937
Facilities				3732

Indiana Code 14-25-4

Water Rights: Emergency Regulation



Indiana Code 14-25-4

- Provides for “Timely and Reasonable Compensation” to owners of domestic wells affected by high capacity ground-water pumpage
- Provides for restrictions on high capacity ground-water pumpage under certain conditions

Timely and Reasonable Compensation

Timely and reasonable compensation consists of and is limited to the following:

- 1) The immediate temporary provision at the prior point of use of an adequate supply of potable water
- 2) Reimbursement of expenses reasonably incurred to obtain a temporary supply of water and/or provide timely and reasonable compensation as provided in (3)(A) and (3)(B).

(3) Either;

(A) The restoration of the affected well to its former relative capability;

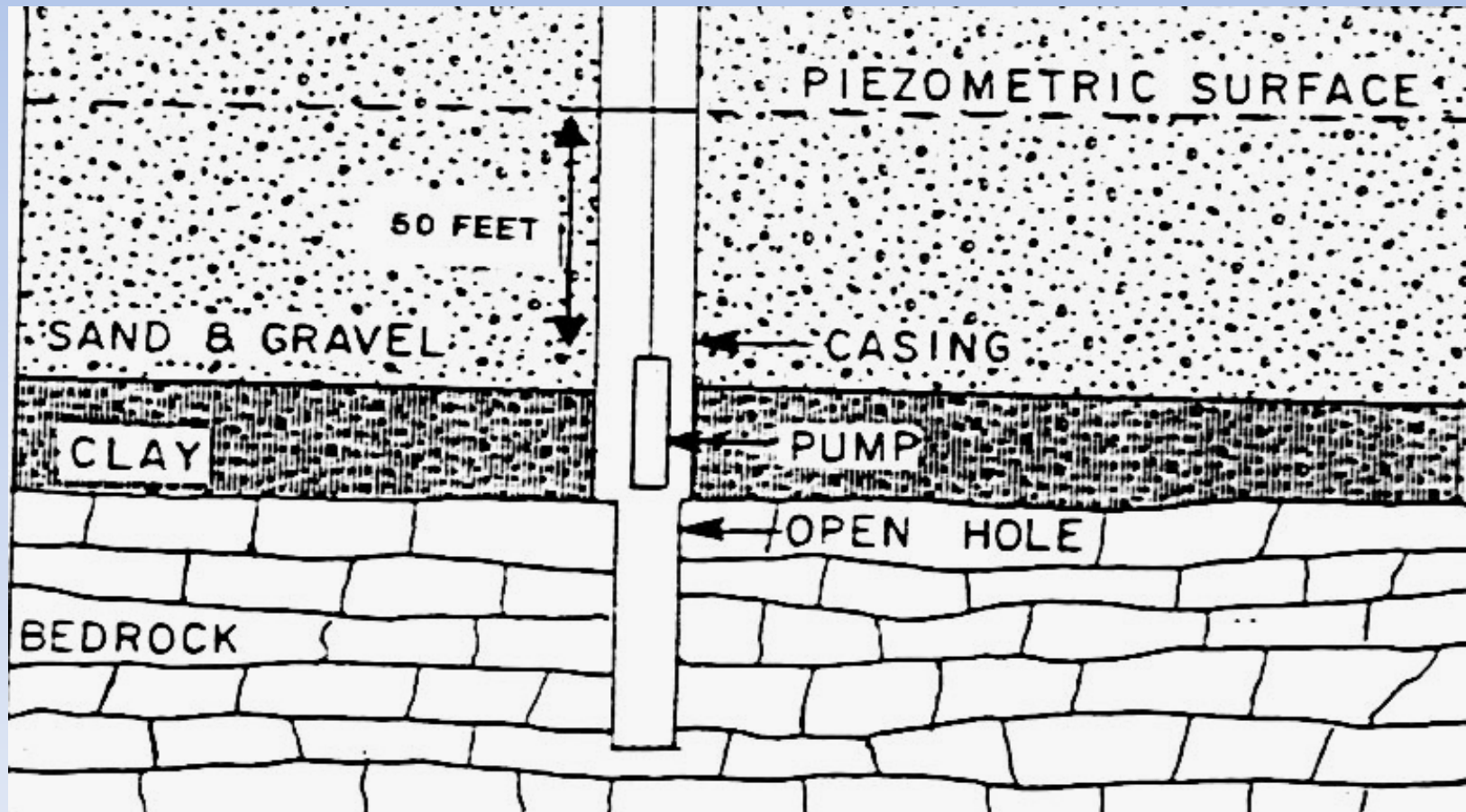
(B) The permanent provision at the prior point of use of an alternative supply of potable water; or

(C) The permanent restriction or scheduling of the high capacity ground-water withdrawals so that the affected well continues to produce its normal supply of water.

Minimum Drawdown Requirements for Small Capacity Wells:

Unconsolidated Aquifers: 20 Feet

Bedrock Aquifers: 50 Feet



Restriction of Ground-Water Withdrawals

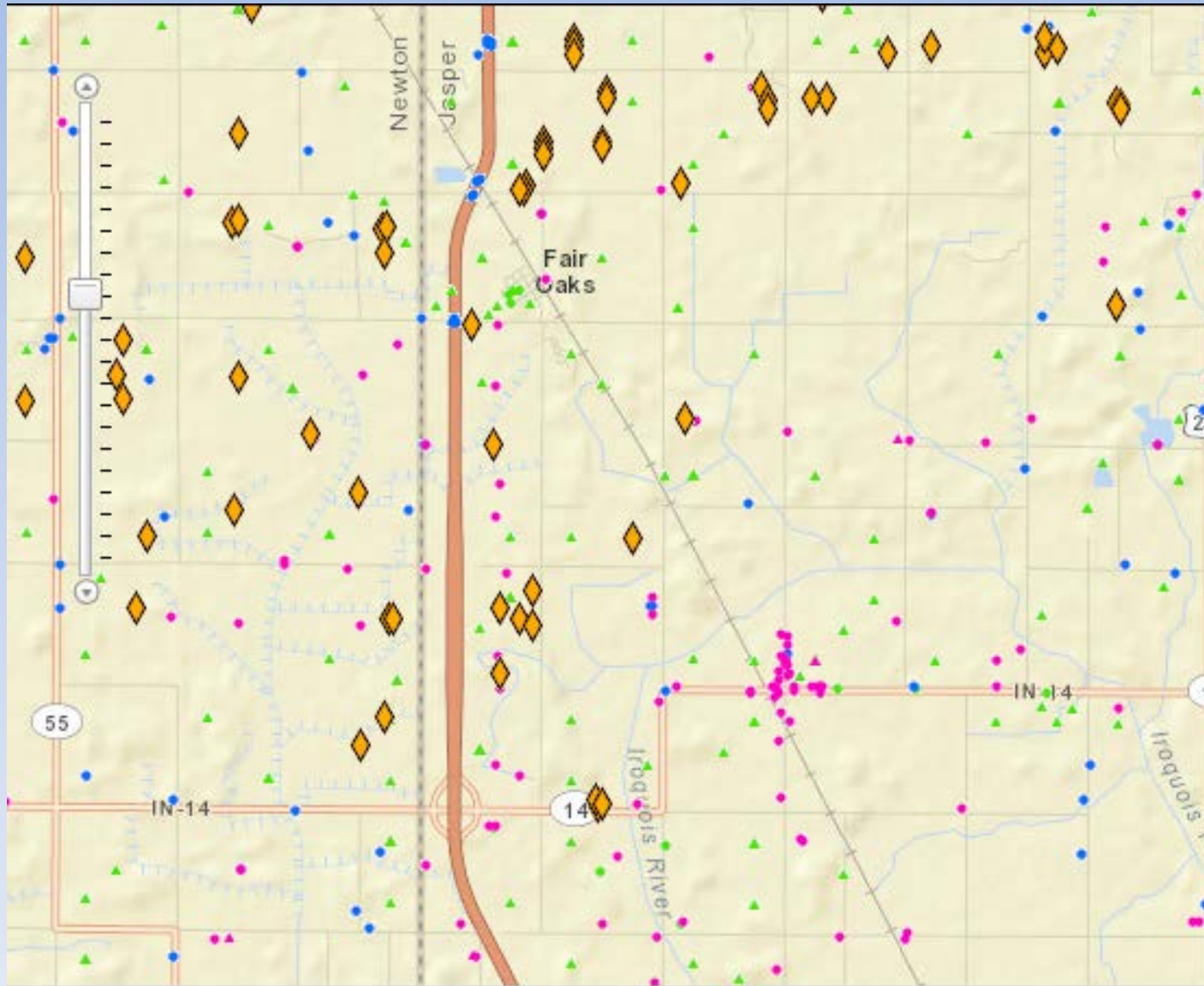
The director may restrict the quantity of ground water that may be extracted from a significant ground-water withdrawal facility upon the declaration of a ground water emergency if:

- (1) The facility is reasonably believed to have caused the failure of the complainant's water well; and
- (2) The immediate temporary provision of an adequate supply of water is not carried out; or
- (3) There is reasonable belief that continued ground-water withdrawals from the facility will exceed the recharge capability of the ground-water resource of the area.

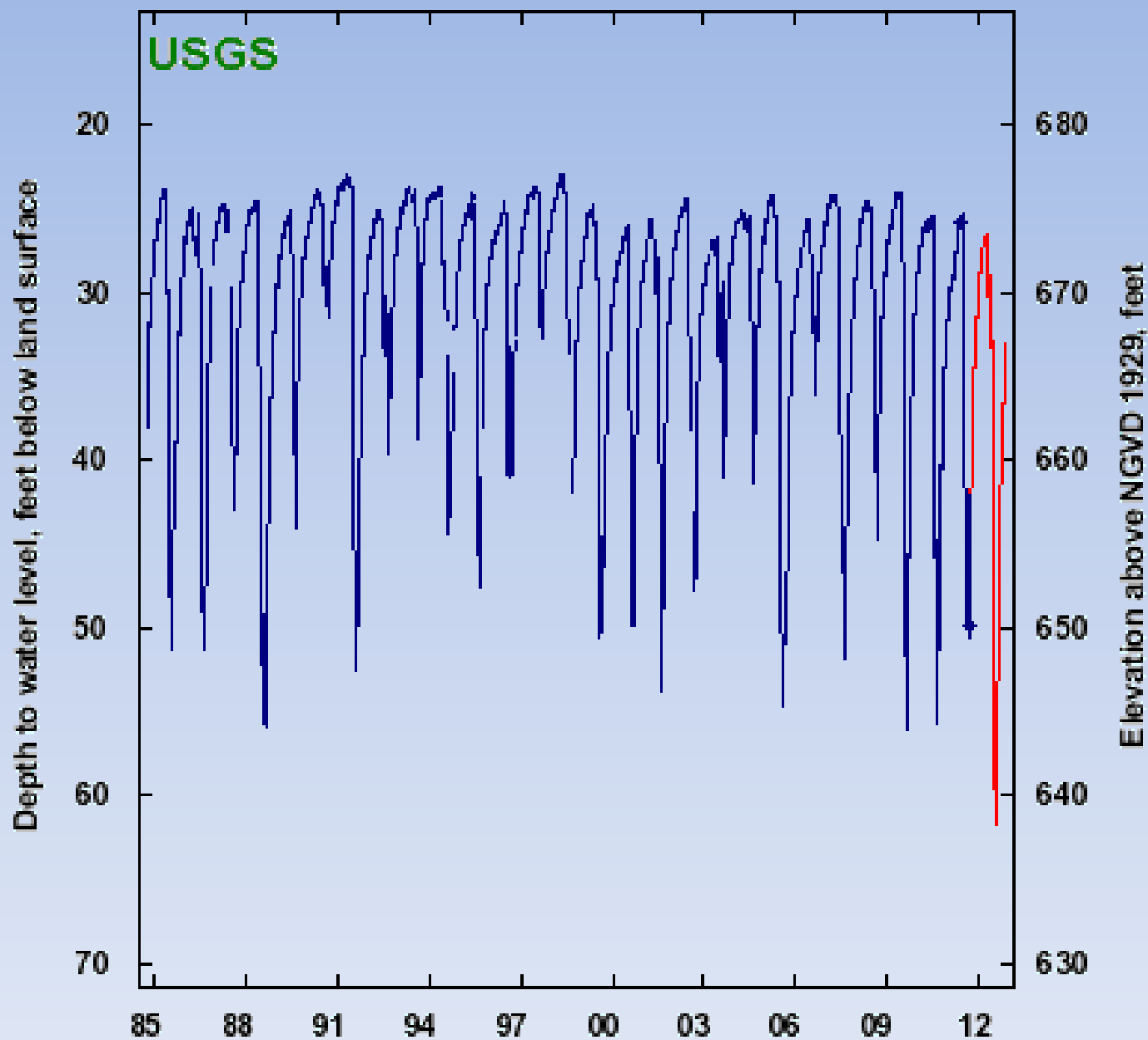
2012 Ground Water Rights Investigations under IC 14-25-4

- Approximately 150 investigations conducted during months of June and July, 2012
 - 1) Jasper Co. – AG Irrigation
 - 2) Hendricks Co. – GC Irrigation/PWS
 - 3) Carroll Co. – Quarry/PWS
 - 4) Allen Co. – PWS/GC Irrigation/Quarry
 - 5) Putnam Co. – AG Irrigation
 - 6) Benton/Warren Co. – AG Irrigation
 - 7) Hamilton Co. – GC Irrigation/PWS
- Timely and Reasonable Compensation to be determined by IDNR, Division of Water

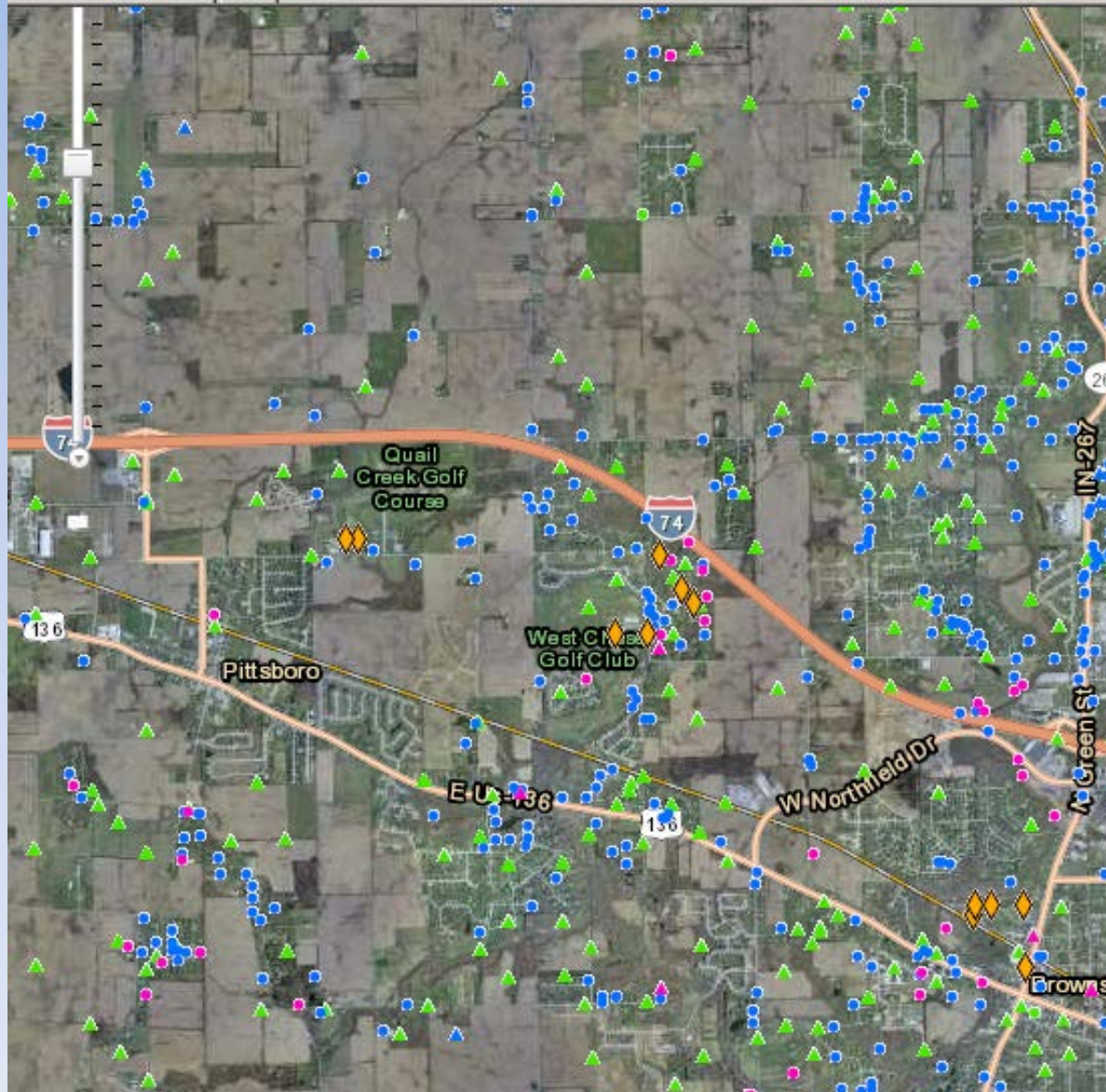
Town of Parr; Jasper Co.



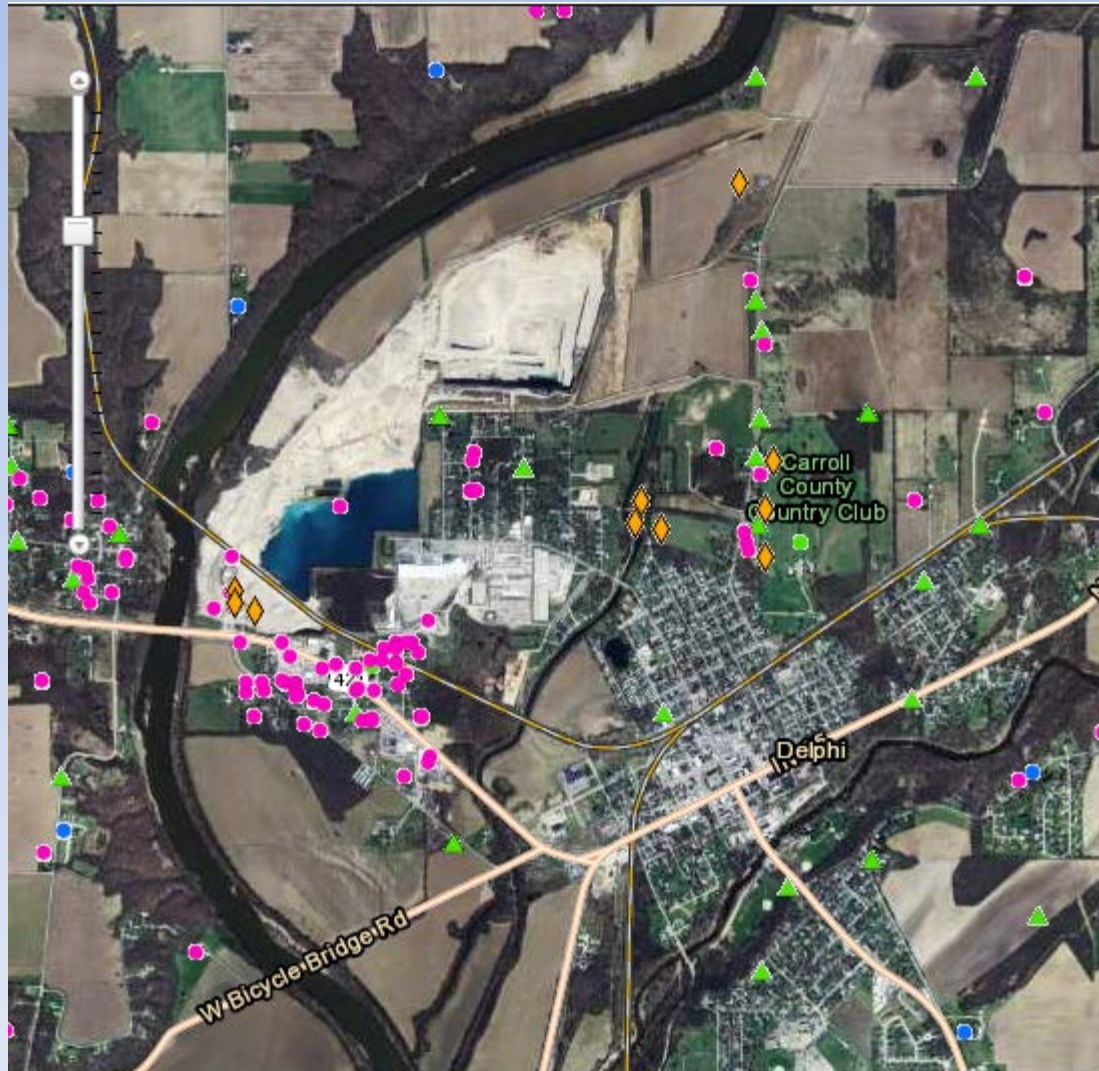
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Town of Brownsburg; Hendricks Co.



City of Delphi; Carroll Co.



Objectives of Water Shortage Plan:

1) Coordinated Response
to Water Shortage
conditions

2) Voluntary Conservation
to avoid or reduce
shortages

INDIANA'S WATER SHORTAGE PLAN

INDIANA DEPARTMENT OF NATURAL RESOURCES, DIVISION OF WATER



Water Shortage Plan Advisory Phases and Recommended Conservation:

- *Watch Phase* - 5% voluntary conservation
- *Warning Phase* - 10 to 15% voluntary conservation
- *Emergency Phase* – >15% conservation
(Governor Declaration under IC 10-14-3)

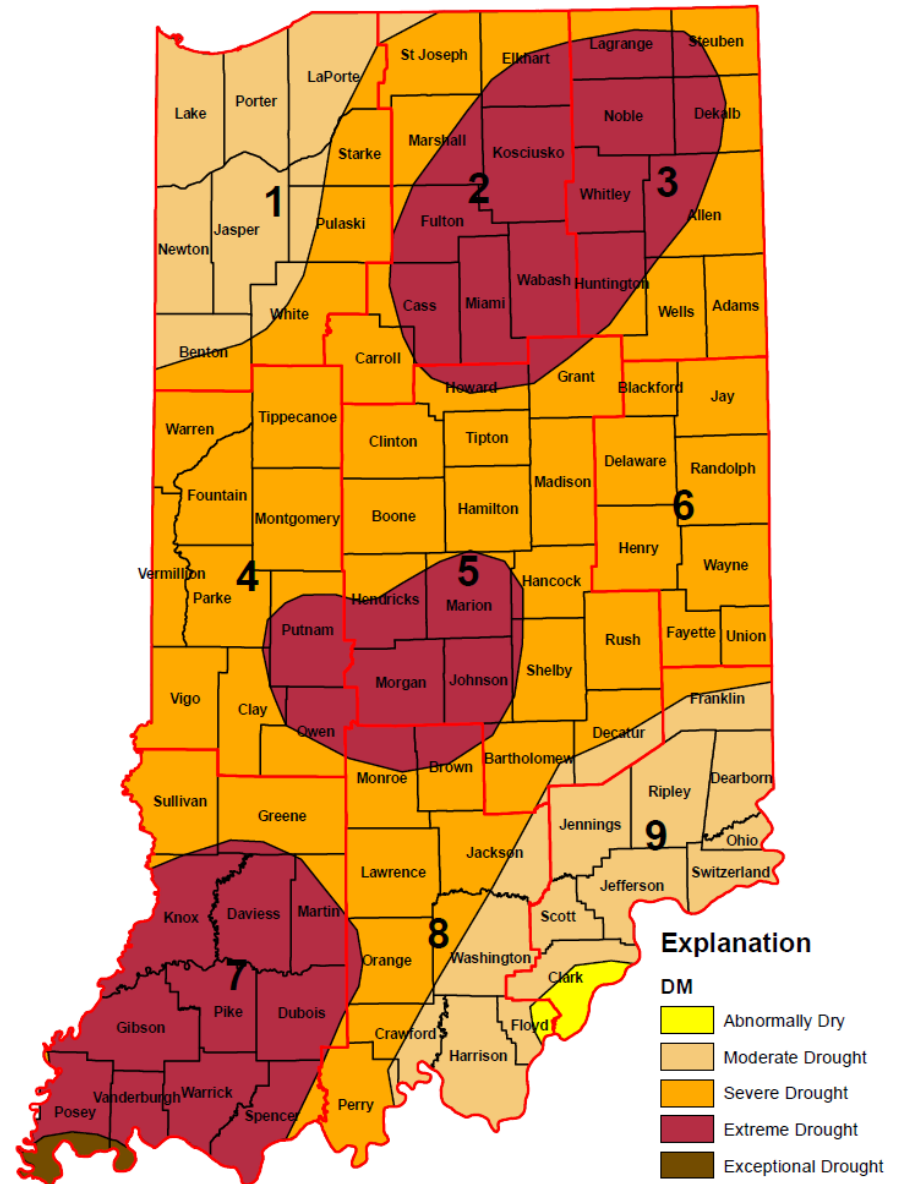
Drought Indicators

- 1-month Standardized Precipitation Index (SPI)
- U.S. Drought Monitor
- Below normal percentiles of regionalized monthly average streamflow

The U.S. Drought Monitor for the period ending July 10, 2012

**“Water Shortage
Warning”**

**Issued on July 17th,
2012, for entire State
under Criteria
Established in
*Indiana’s Water
Shortage Plan***





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July 17, 2012

To: Owners/Operators of Significant Water Withdrawal Facilities

The Indiana Department of Natural Resources and the Indiana Department of Homeland Security have issued a Water Shortage Warning because of drought conditions for all counties in the State of Indiana.

The objectives of the Water Shortage Warning stage are to prepare for a coordinated response to imminent water shortage conditions and potential water supply problems and to initiate concerted voluntary conservation measures in an effort to avoid or reduce shortages, relieve stressed sources, and if possible forestall the need for mandatory water use restrictions. A Water Shortage Watch is the lowest or mildest of three drought advisory phases; a **Water Shortage Warning is the second most severe stage**; and a Water Shortage Emergency is the most extreme condition. **Please be aware that a Water Shortage Warning was previously issued on July 2, 2012, for 32 counties in northeast and southwest Indiana.**

The goal of water conservation efforts during the Water Shortage Warning stage is a voluntary reduction in current water use of 10-15%. Public water supply systems are advised to immediately develop and update water shortage contingency plans for their respective systems, where such plans are not already available for implementation. Indiana's Water Shortage Plan, located on the Internet at <http://www.in.gov/dnr/water/files/watshplan.pdf>, lists several voluntary water conservation measures and programs for various categories of water users during a Water Shortage Warning, and can be found on pages 16 through 18. Indiana's Water Shortage Plan also includes an "Indiana Suggested Model Ordinance" that was developed by the Water Shortage Task Force to serve as a template for a Local Unit of Government to implement their own specific policies and response for water conservation and restriction within a community. A Word document version of the "Indiana Suggested Model Ordinance" can be found on the Internet at <http://www.in.gov/dnr/3124.htm> under the heading "Additional Links/Information" or directly at http://www.in.gov/dnr/water/files/Model_ordinance_Final_Draft%207-2-07.doc.

If you have any questions or would like additional information regarding the Department of Natural Resource's declaration of the Water Shortage Warning or Indiana's Water Shortage Plan, please contact Mark Basch by e-mail at mbasch@dnr.in.gov or at (317) 232-0154 or Jerry Unterreiner at gunterreiner@dnr.in.gov or at (317) 232-4222.

2012 Declaration of "Water Shortage Warning" sent to owners of 3650 SWWFs

IDEM Public Water System Status Letter



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

TO: Public Water Systems

FROM: Martha Clark Mettler, Deputy Assistant Commissioner
Office of Water Quality

SUBJECT: WATER SHORTAGE WARNING

DATE: October 13, 2010

On October 8, 2010, the Department of Homeland Security and the Department of Natural Resources issued a Water Shortage Warning. A copy of the Warning that was sent to Significant Water Withdrawal Facilities is enclosed. All public water systems are of particular importance during a potential water shortage. IDEM, along with other State agencies, will be working with you to minimize possible impacts that drought conditions may have on you or your customers.

One of the important objectives of a Water Shortage Warning is to initiate concerted voluntary conservation efforts as a means to avoid shortages and relieve stresses on the water sources. That means public water systems like yours will be asked to reduce water use by 10-15%. Additionally, the Water Shortage Warning is a trigger for public water systems "to immediately develop and update water shortage contingency plans for their respective systems, where such plans are not already available for implementation."

IDEM is requesting that you provide us a status on your system by completing and returning the attached questionnaire.

We are including a copy of Part D of *Indiana's Water Shortage Plan* which addresses Water Shortage Warnings and contains helpful information on reducing consumption. The entire plan can be found at <http://www.in.gov/dnr/files/watshplan.pdf>.

Also listed below are helpful links for you relating to water conservation and emergency planning:

http://www.epa.gov/watersense/water_efficiency/benefits_of_water_efficiency.html

(Benefits of Water Efficiency)

<http://water.epa.gov/polwaste/nps/chap3.cfm>

(How to Conserve Water and Use It Effectively)

http://www.in.gov/dnr/water/files/Model_ordinance_Final_Draft%207-2-07.doc

(Indiana Suggested Model Ordinance)

If you have questions contact: Drinking Water Branch at (317) 234-7430 or at the toll free number above.

Enclosures

IDEM Public Water System Questionnaire

Public Water System Water Shortage Warning Questionnaire

1. System Name: _____

2. System PWSID: _____

3. Are you currently experiencing any supply problems with your source? Yes ___
(please explain) No ___

4. Do you project an inability to obtain water or have problems obtaining water from
your source in the next 2 weeks? Yes ___ (please explain) No ___

5. Do you have a water shortage contingency plan? Yes ___ No ___

6. System Drought Contact Information:

Name: _____

Address: _____

Phone: _____

Email: _____

This form completed by: _____

**PLEASE MAIL THIS QUESTIONNAIRE BACK IN THE ENCLOSED ENVELOPE
AS SOON AS POSSIBLE**

For more information regarding:

*Indiana's Ground Water Rights Statute,
Water Use Program
and
Water Shortage Plan*

mbasch@dnr.in.gov

almann@dnr.in.gov



INDIANA DEPARTMENT OF
NATURAL RESOURCES