# **Groundwater Study Update**

Oregon Water Resources Department



## **Presentation Outline**

- OWRD Work Done Since April Meeting
- Quarterly Groundwater Level Update
- OWRD Work for Summer-Fall

## **Work Done Since April Meeting**

- **Quarterly Groundwater Level** Measurements (May 2017):
  - 115 Total Quarterly Wells.
  - 102 Wells Measured.
  - 6 Wells Pumping.
  - 4 Wells Unsuccessful Attempt.
  - 3 Wells Unable to Access Site



## **Work Done Since April Meeting**

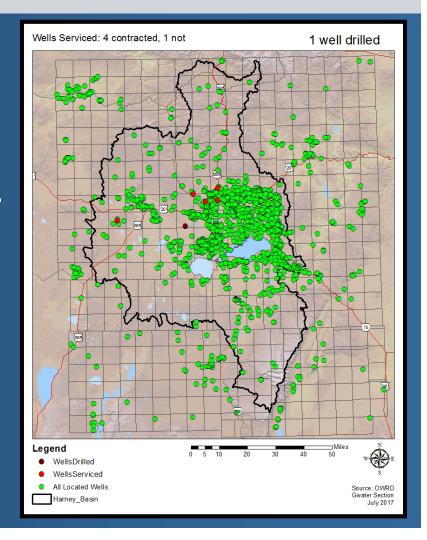
- Data Entry:
  - GW Level Measurements.
  - All Located Wells.
  - Geologic Data on Well Logs.
  - Hydraulic Property Data.
  - Correlate USGS-OWRD Well ID
  - Spring Sites



#### **Work Done Since April Meeting**

- Well Drilling & Servicing.
  - 1 Well Drilled (Chain Lakes).
  - 4 Wells Serviced (State Contract).
  - 1 Well to be Serviced (Private).





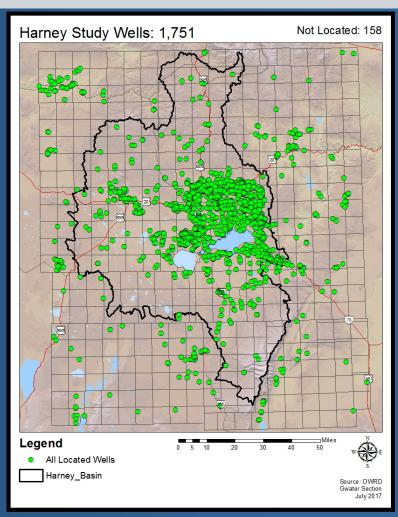
#### **Work Done Since April Meeting**

#### Data Entry Statistics.

		In GW			Not
Wells	Total	Database	Lithcoded	Located	Located
All Wells	2,602	1,909	1,604	2,147	208
Specific Capacity	776	83	83	726	50
No Log	305	305	X	157	148
Synoptic	197	197	197	197	0
Quarterly	115	115	115	115	0
Springs	Total	In GW Database	Lithcoded	Located	Not Located
Springs	57	57	X	0	57

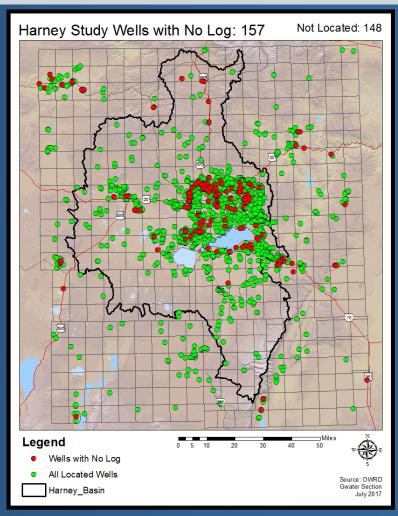
## **Work Done Since April Meeting**

- Data Entry Statistics:
  - Wells In GW Database
    - 1751 Wells Located
    - 158 Wells Not Located



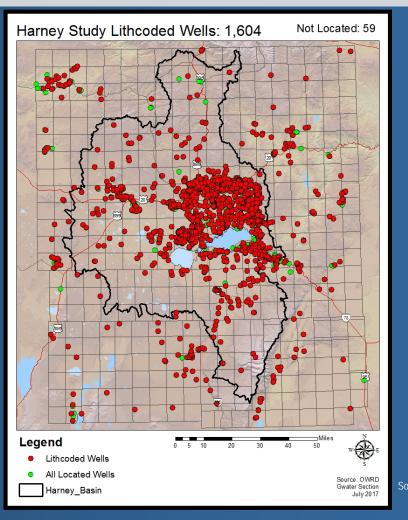
#### **Work Done Since April Meeting**

- Data Entry Statistics:
  - Wells with No Well Log
    - 157 Wells Located
    - 148 Wells Not Located



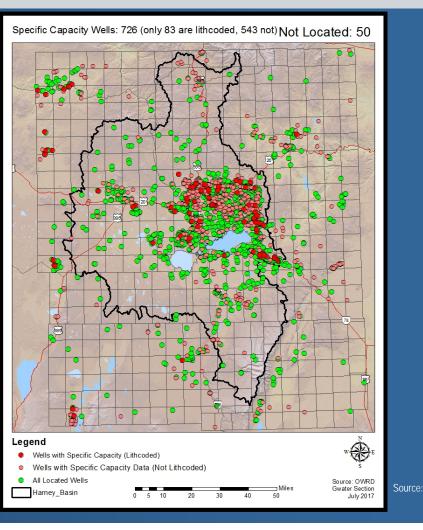
#### **Work Done Since April Meeting**

- Data Entry Statistics:
  - ✓ Wells: Geology Lithcoded
    - 1604 Wells Located
    - 59 Wells Not Located



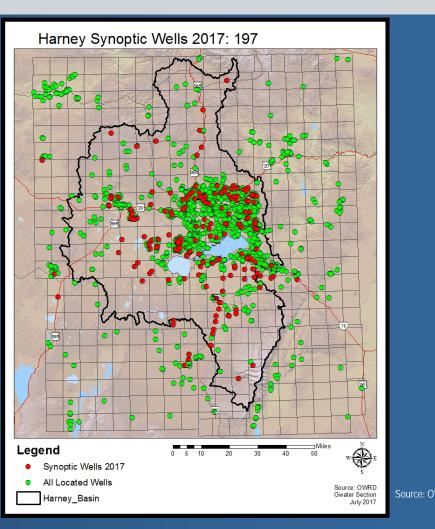
## **Work Done Since April Meeting**

- **Data Entry Statistics:** 
  - Wells: Aquifer Properties
    - 726 Wells Located
    - 50 Wells Not Located
    - 83 Wells Lithcoded
    - 543 Wells Not Lithcoded



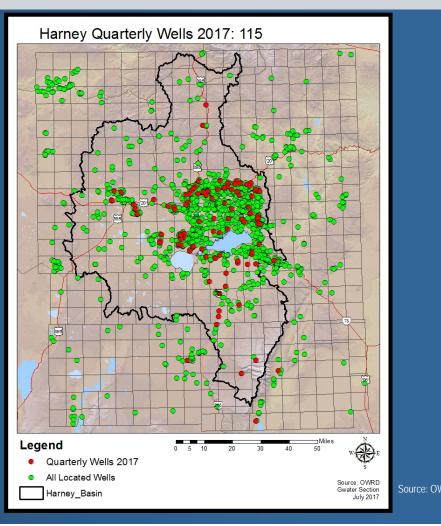
#### **Work Done Since April Meeting**

- **Data Entry Statistics:** 
  - ✓ GW Level Synoptic Wells
    - 197 Active Wells
    - All Located
    - All Lithcoded



## **Work Done Since April Meeting**

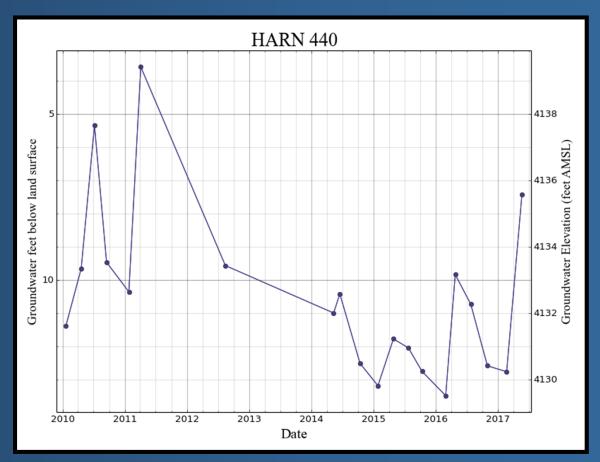
- **Data Entry Statistics:** 
  - GW Level Quarterly Wells
    - 115 Active Wells
    - All Located
    - All Lithcoded



#### **Groundwater Level Update**

- Quarterly Groundwater Level Measurements (May 2017).
  - ✓ SW Influence?
  - ✓ HARN 440

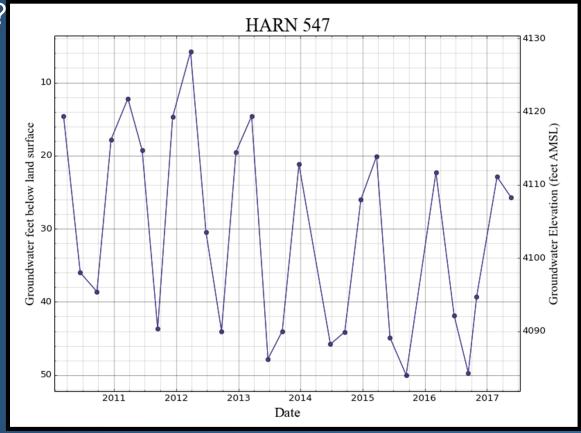
(Near Burns Airport)



#### **Groundwater Level Update**

- Quarterly Groundwater Level Measurements (May 2017).
  - GW Use Influence?
  - ✓ HARN 547

(Near Burns Airport)

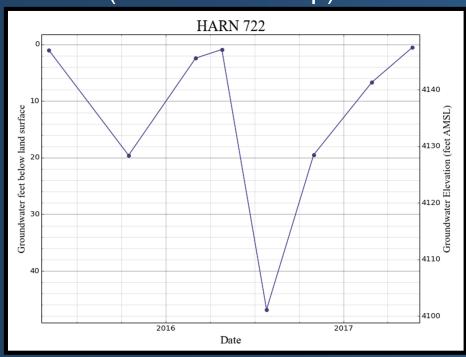


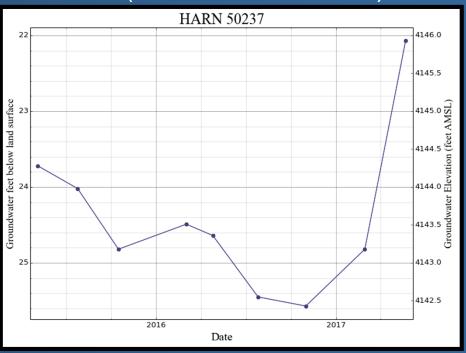
#### **Groundwater Level Update**

- Quarterly Groundwater Level Measurements (May 2017).
  - Shallow vs. Deep

(Buchanan Deep)

(Buchanan Shallow)



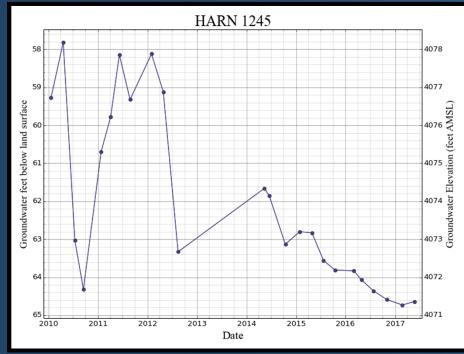


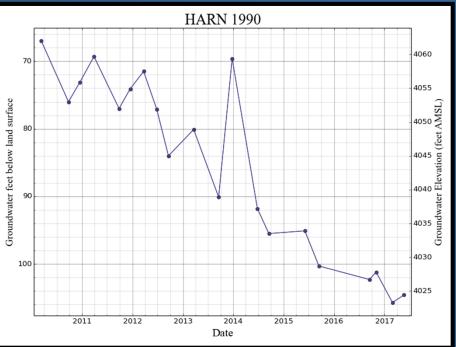
#### **Groundwater Level Update**

- Quarterly Groundwater Level Measurements (May 2017).
  - Ongoing Decline

(Crane-Buchanan)

(Weaver Springs)





#### **OWRD Work for Summer - Fall**

- Quarterly Groundwater Level Measurements (August 2017).
- Locate Additional Wells for Synoptic Groundwater Level Measurement.
- Additional Data Entry & Site Locating.
- Correlate USGS-OWRD Well ID
- ID Sites for Aquifer Tests
- ID SW Sites for Flow Measurements (Selected Springs & Stream Reaches).
- SW-GW in Warm Springs Valley (Summer Intern: Halley Barnett).



Source: OWRD

#### **Questions & Thank You**



Photo by Chad Sobotka