Hydrogeologic framework status, POD well data, & NY Canal seepage data, Treasure Valley, Idaho



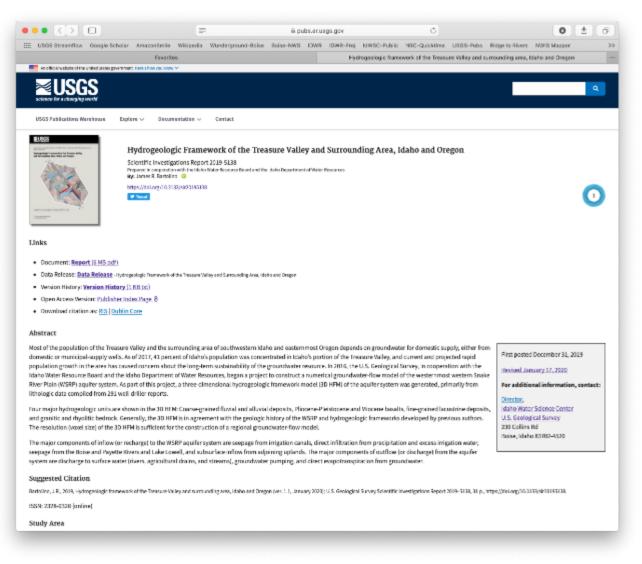
#### science for a changing world

Jim Bartolino U.S. Geological Survey Idaho Water Science Center March 5, 2020



#### HYDROGEOLOGIC-FRAMEWORK REPORT STATUS

#### Hydrogeologic framework report: done



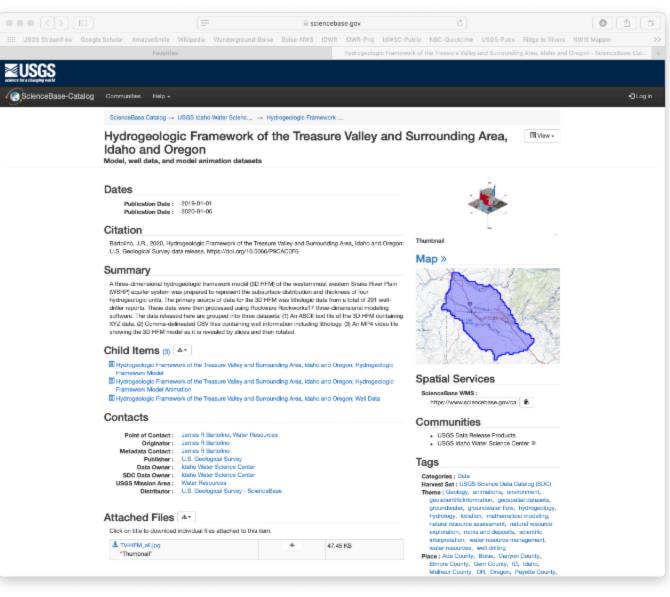
**≥USGS** 

Released on 31Dec2019...

Taken down a few days later because of problems with table 3 formatting.

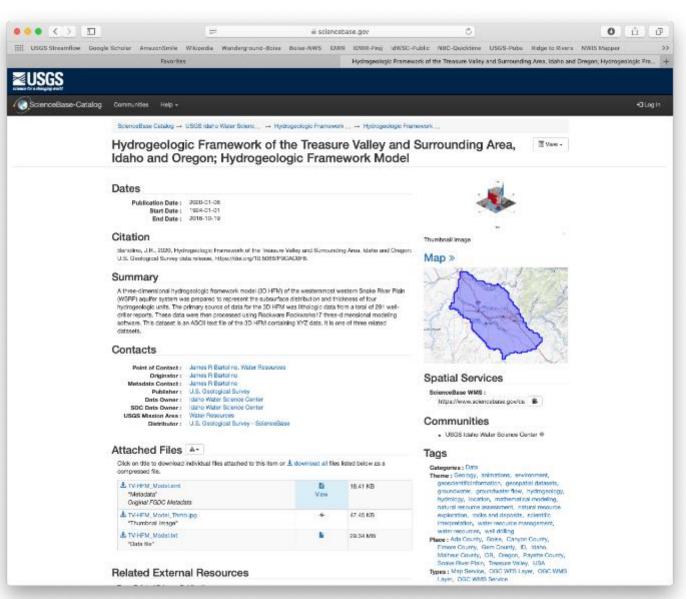
Rereleased as ver.1.1 on 17Jan2020

#### ScienceBase data release: Main page



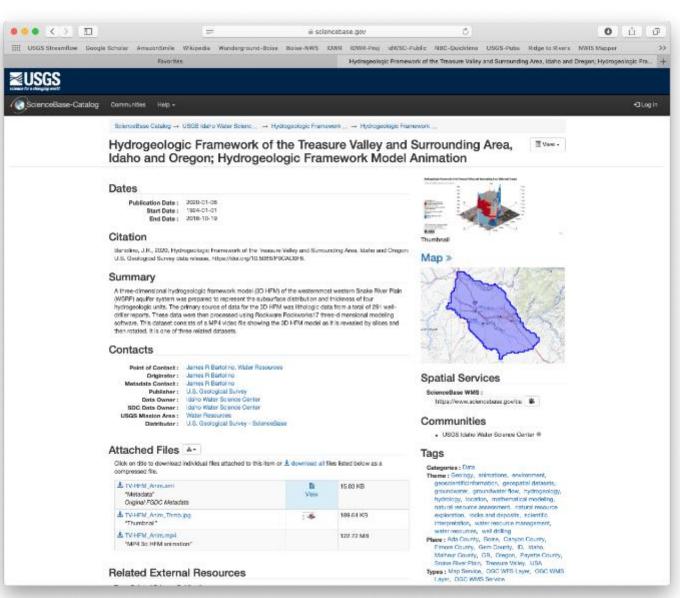


#### ScienceBase data release: 3D HFM



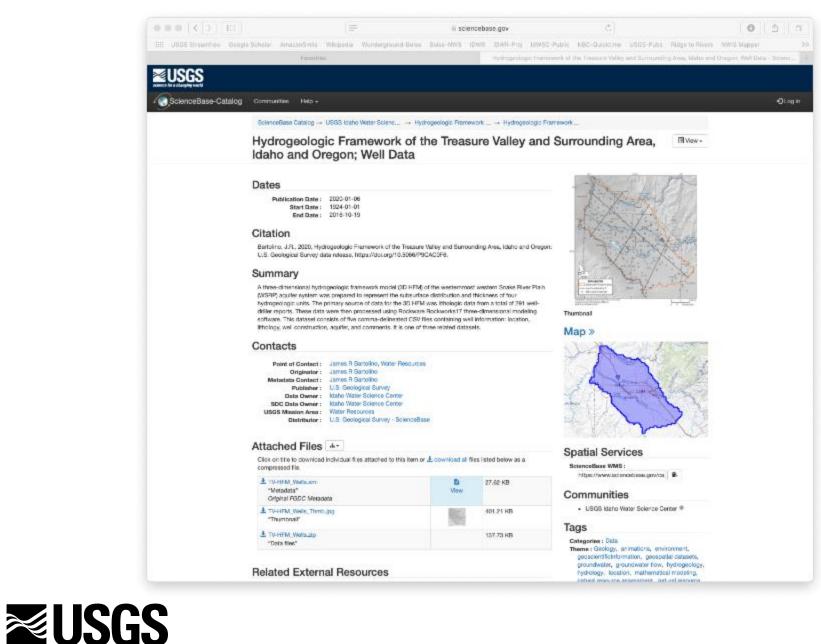


#### ScienceBase data release: Animation





#### ScienceBase data release: Well data



Bartolino

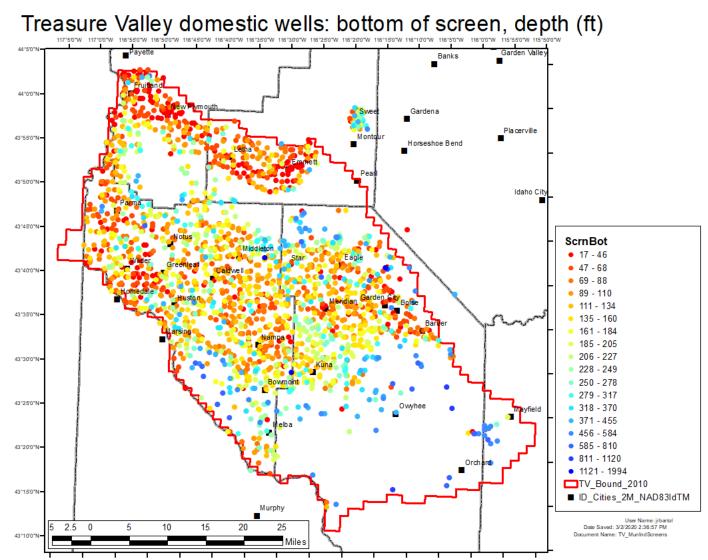
#### **GROUNDWATER PODS**



## POD Wells: Domestic (1)

 Difficult to match water rights to wells; entered screen intervals for two wells per section for uniform coverage

- ✤ 2,120 wells
- Screen
  bottoms 17 1994 ft;
  average 157
  ft



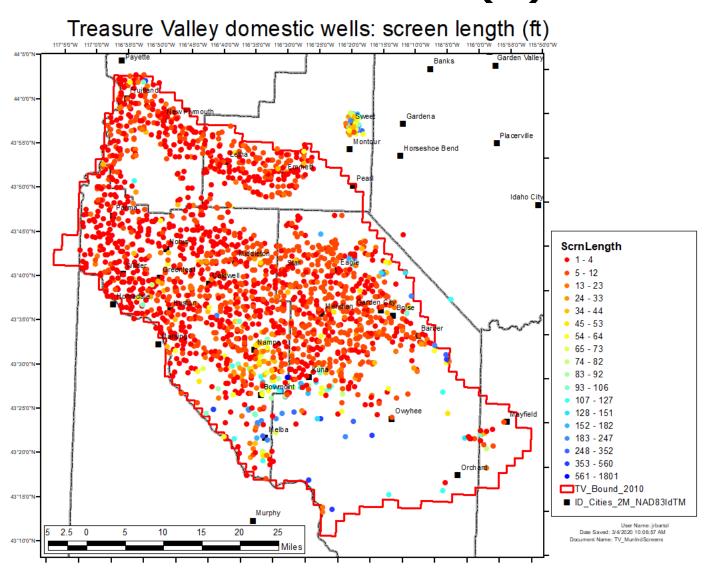


### POD Wells: Domestic (2)

 Difficult to match water rights to wells; entered screen intervals for two wells per section for uniform coverage

2105

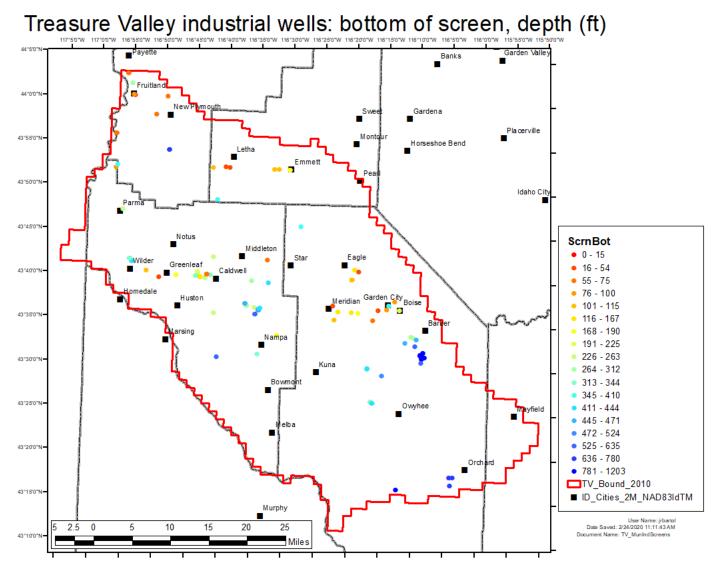
- ✤ 2,120 wells
- Screen
  lengths 1 1801 ft;
  average 19 ft





# POD Wells: Industrial (1)

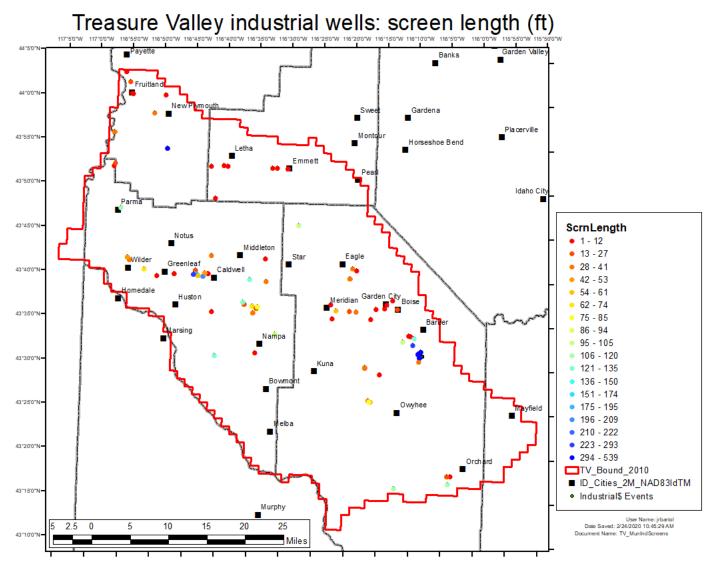
- Matched 194
  water rights to
  wells; entered
  screen
  intervals
- Many of these wells are essentially domestic/ commercial wells (office, store, etc)
- Screen
  bottoms 15 1203 ft;
  average 362 ft





# POD Wells: Industrial (2)

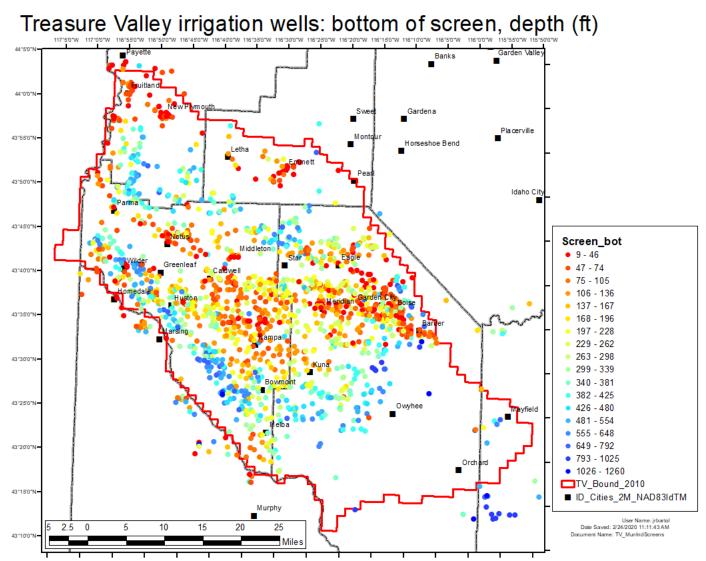
- Matched 194
  water rights to
  wells; entered
  screen
  intervals
- Many of these wells are essentially domestic/ commercial wells (office, store, etc)
- Screen lengths 1-573 ft; average 88 ft





## POD Wells: Irrigation (1)

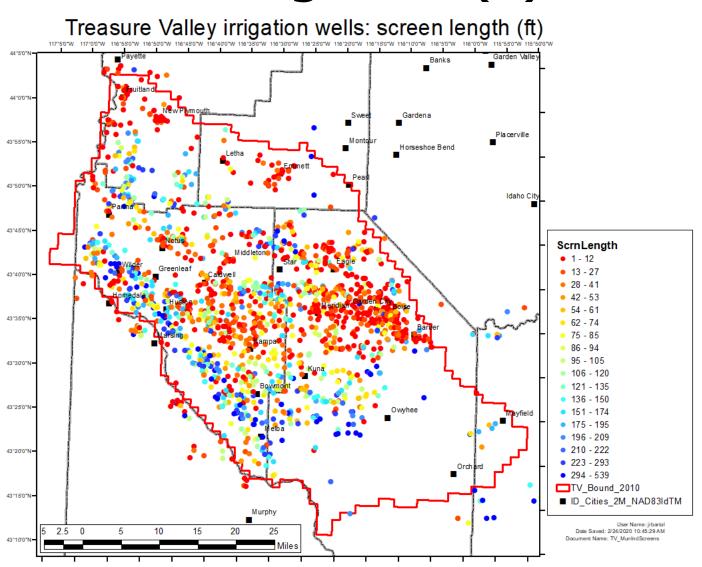
- Difficult to match water rights to wells; entered screen intervals for two wells per section
- ✤ 1,698 wells
- Screen
  bottoms 9 1260 ft;
  average 250
  ft





## POD Wells: Irrigation (2)

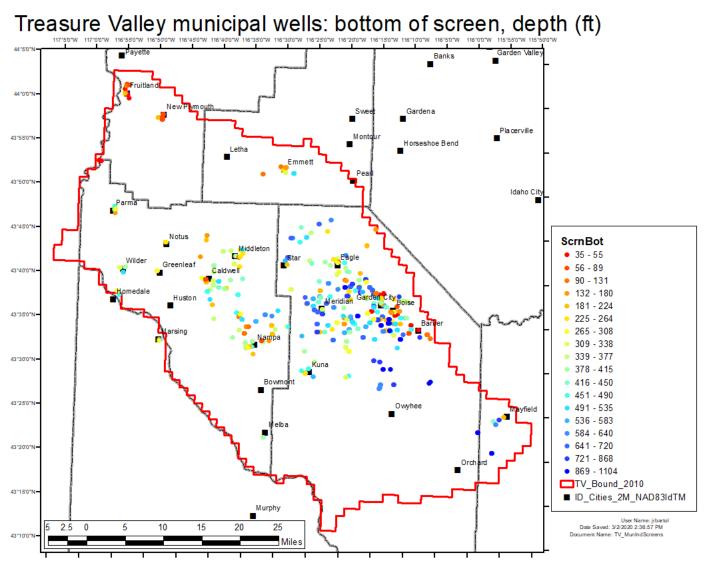
- Difficult to match water rights to wells; entered screen intervals for two wells per section
- ✤ 1,698 wells
- Screen
  lengths 1-870
  ft; average 88
  ft





## POD Wells: Municipal (1)

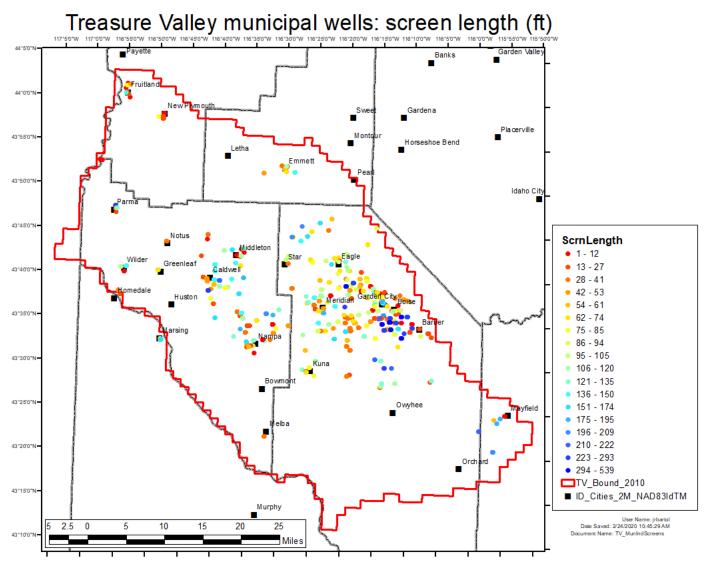
- Matched 4,976
  water rights to
  wells; entered
  screen
  intervals
- Water rights may be transferred to younger wells
- A well may have multiple water rights and vice versa
- Screen
  bottoms 35 1104 ft;
  average 438 ft





# POD Wells: Municipal (2)

- Matched
  4,976 water
  rights to
  wells; entered
  screen
  intervals
- Water rights may be transferred to younger wells
- Screen
  lengths 1-539
  ft; average
  102 ft





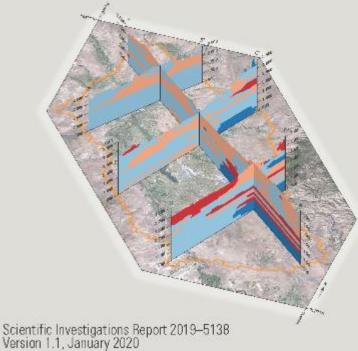
Report: \* https://doi.org/10.3133/sir20195138

Data: \*\* https://doi.org/10.5066/P9CAC0F6



Prepared in cooperation with the Idaho Water Resource Board and the Idaho Department of Water Resources

#### Hydrogeologic Framework of the Treasure Valley and Surrounding Area, Idaho and Oregon



U.S. Department of the Interior U.S. Geological Survey

