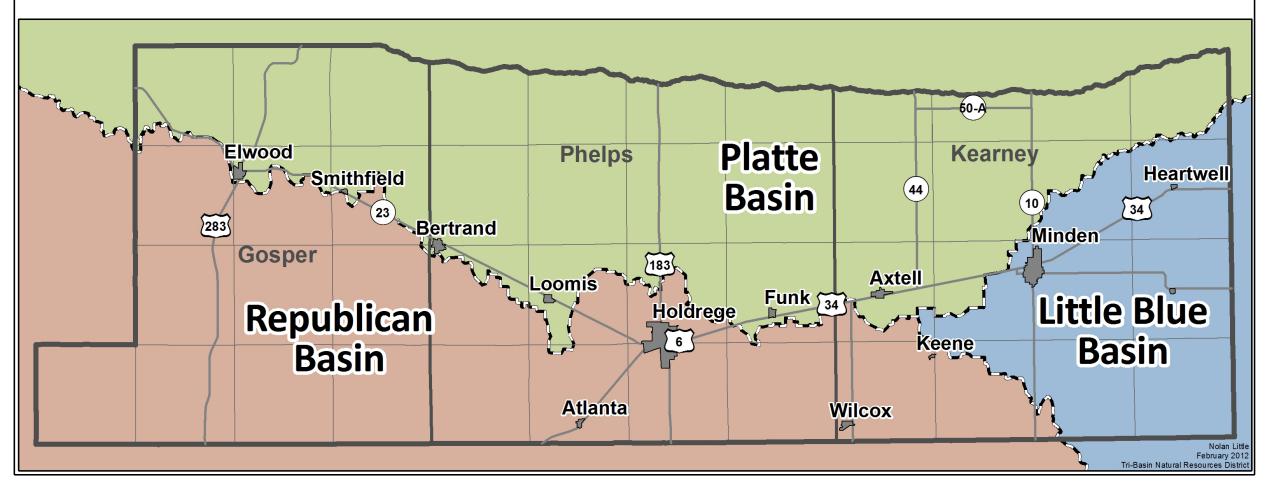


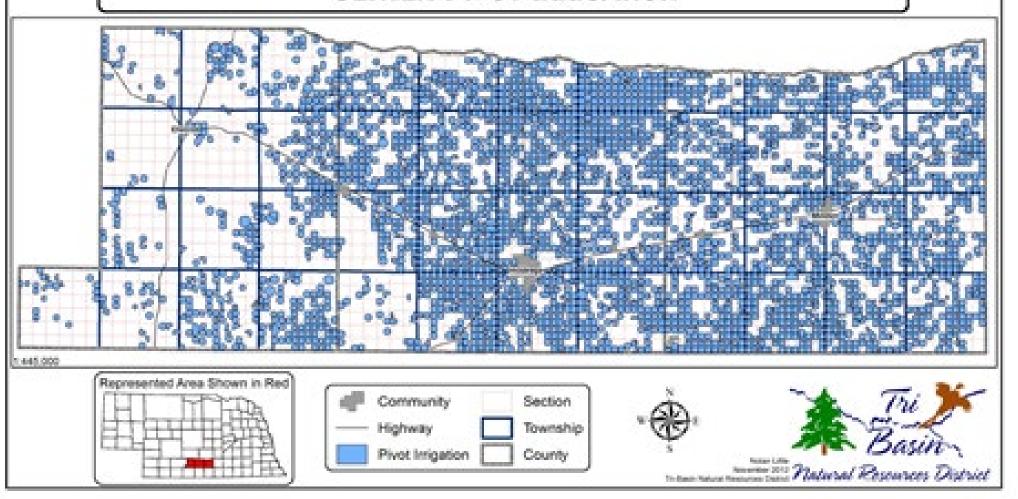
## Tri-Basin Natural Resources District Basin Boundaries





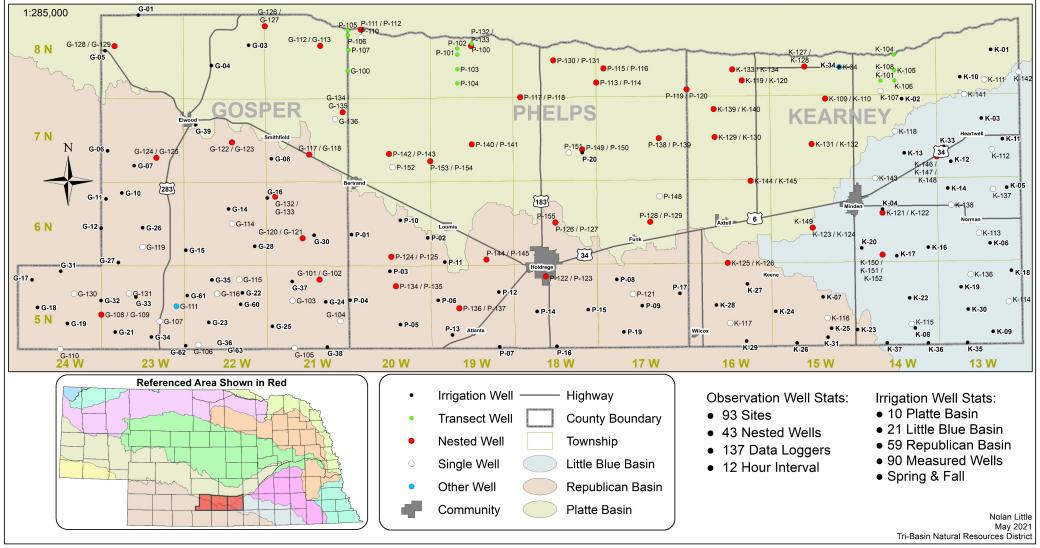
### TRI BASIN NATURAL RESOURCES DISTRICT

CENTER PIVOT IRRIGATION



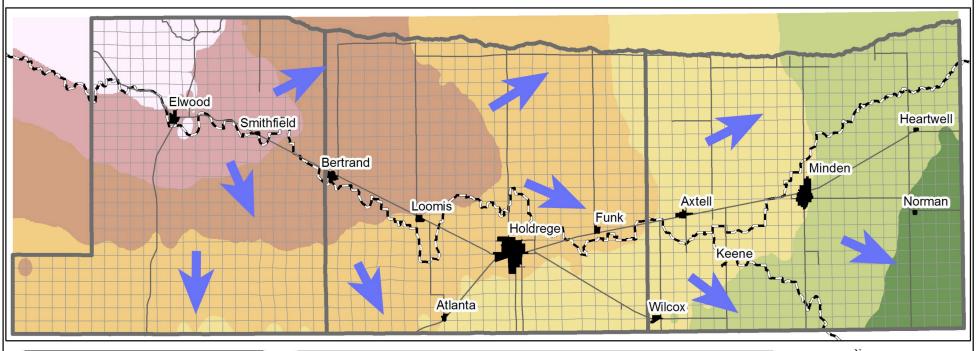
Static Water Measurement Wells

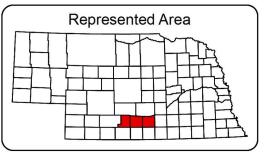


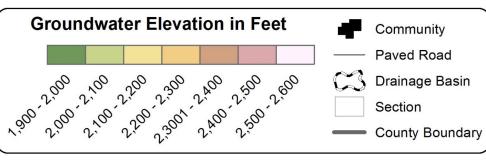




## Tri-Basin Natural Resources District Groundwater Elevation



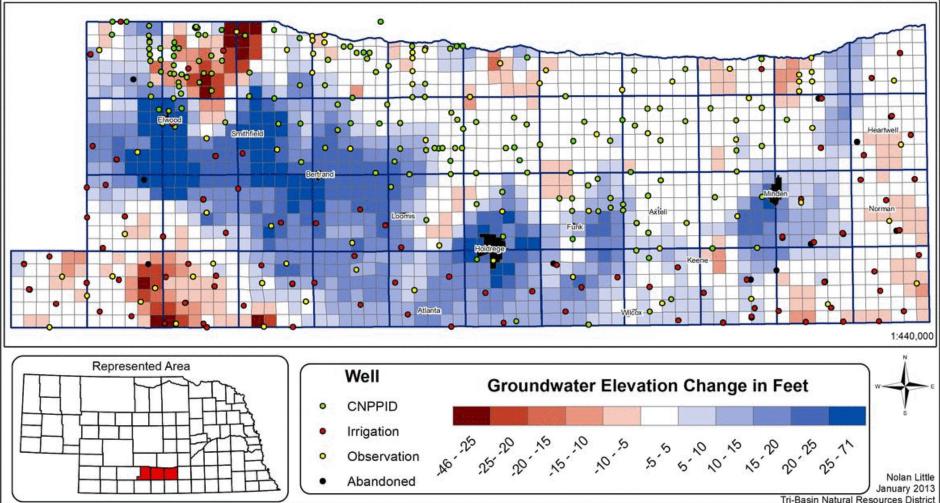






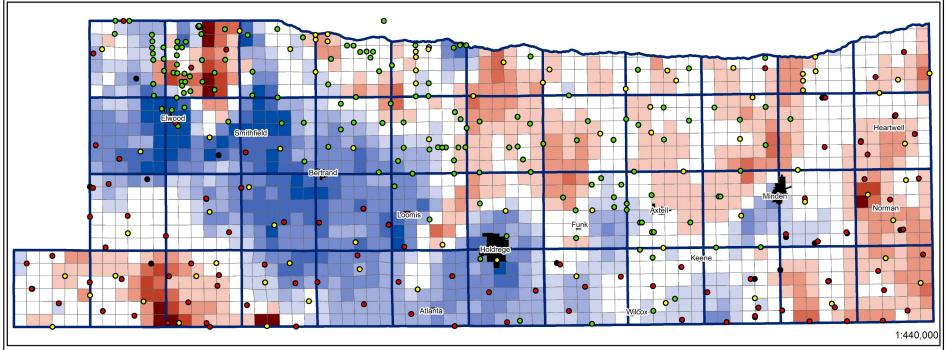
Change in Groundwater Elevation 2010-2012 Average vs 1981-1985 Average

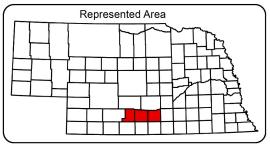


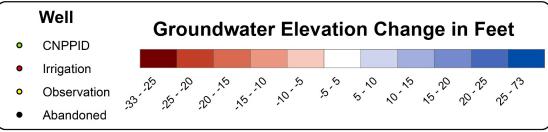


Change in Groundwater Elevation 2018-2020 Average vs 1981-1985 Average







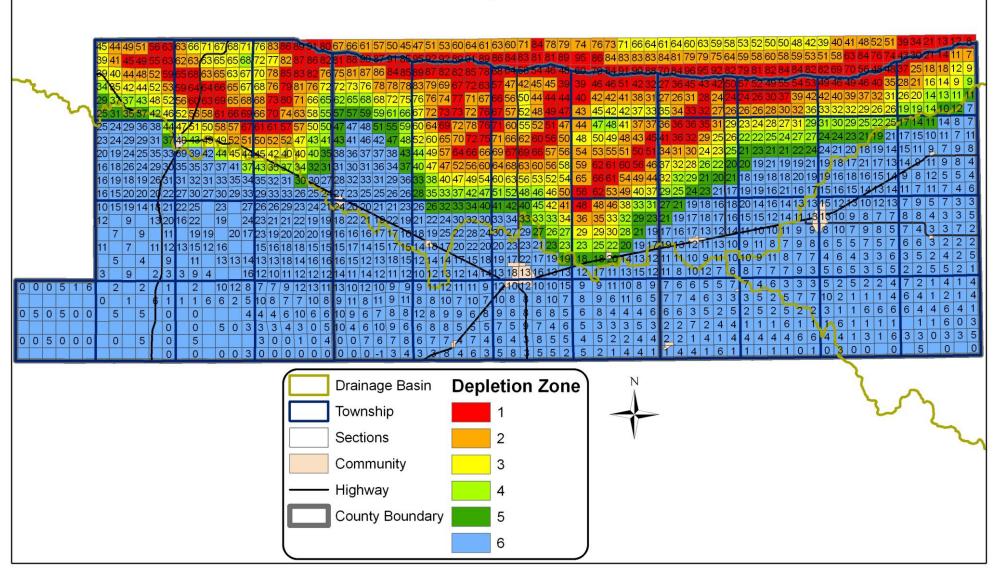




Nolan Little
September 2020
Tri-Basin Natural Resources District



#### Platte River Depletion

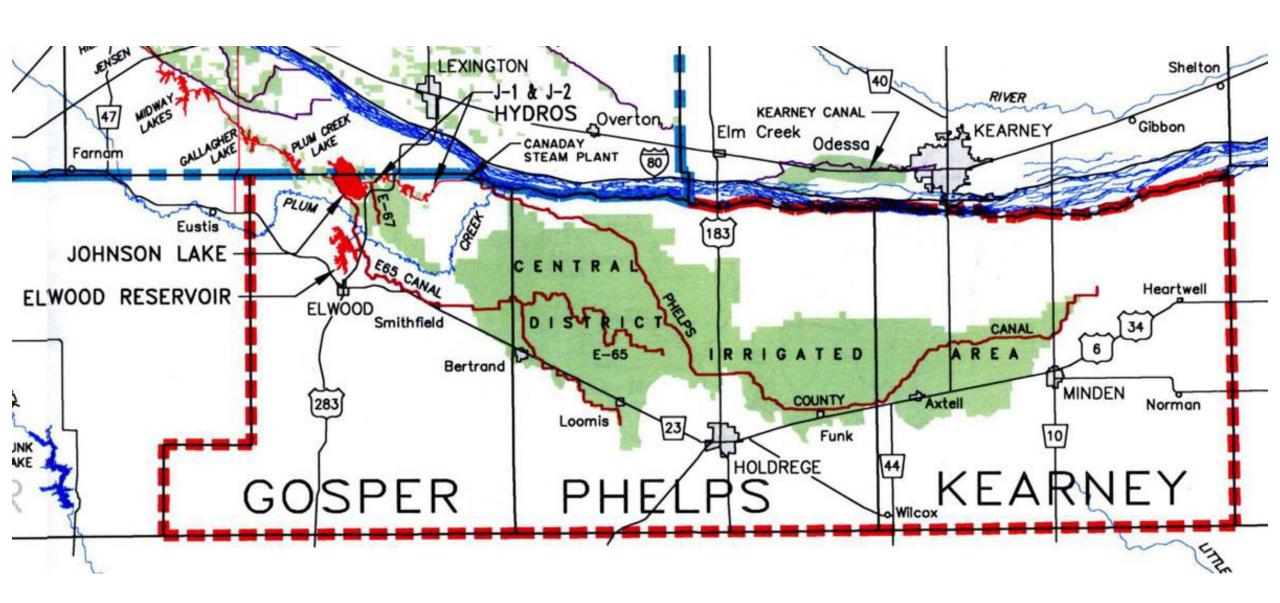


WATER! TRICOUNTY

CANAL.



HERE IT COMES



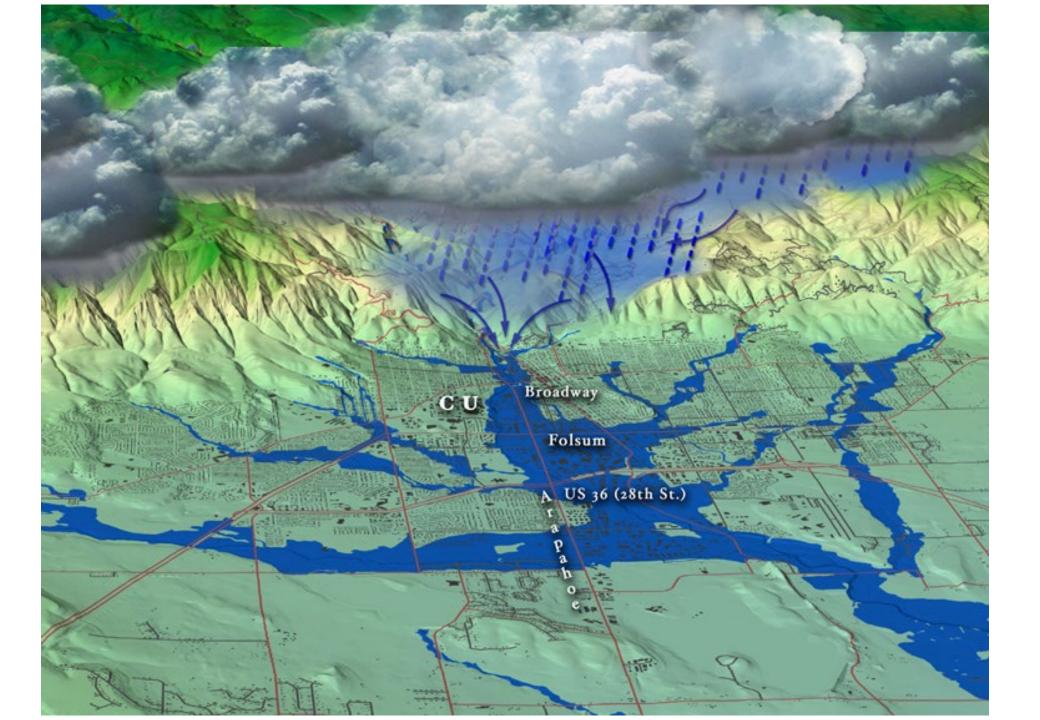
## Platte High Flow Diversions

- TBNRD works with CNPPID to divert high Platte flows into canals, wetlands and Elwood reservoir.
- Over 125,000 acre-feet diverted since first diversions in 2006.
- NRD cost of \$16-\$48 per a-f (DNR pays 60% of cost).
- Diversions into Elwood Reservoir and E-65 Canal benefit both Platte and Republican Basins.

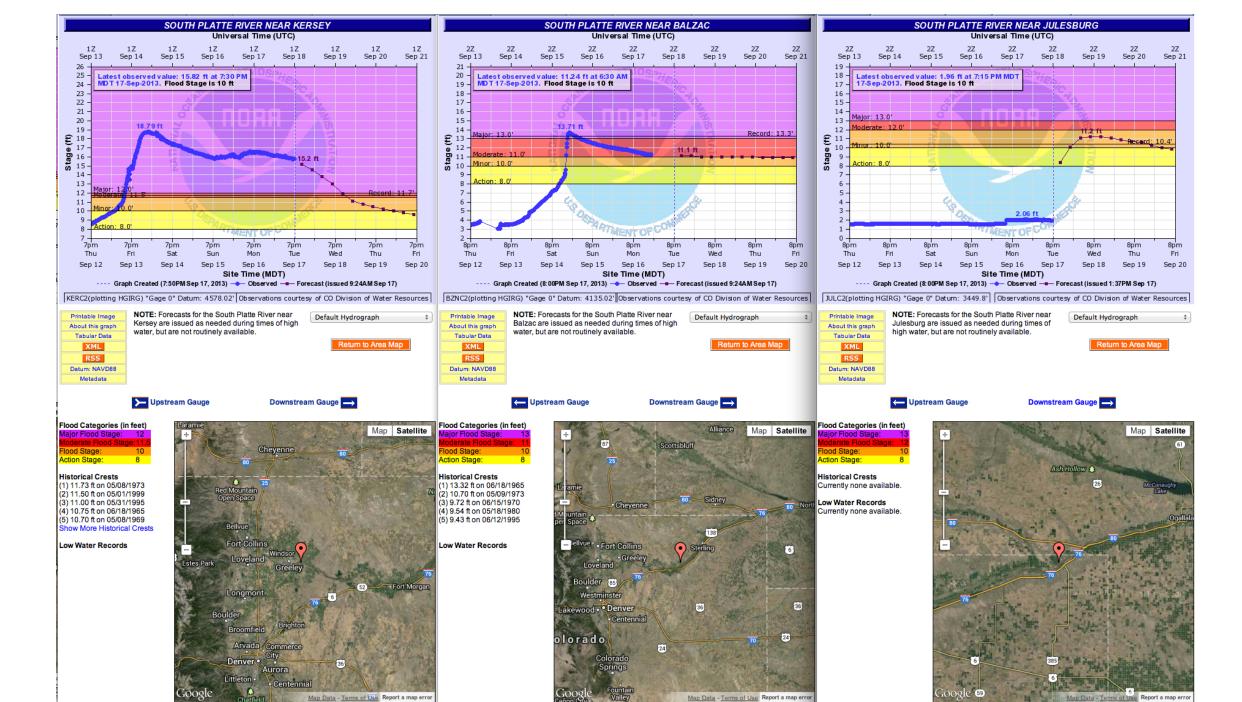
## Elwood Reservoir







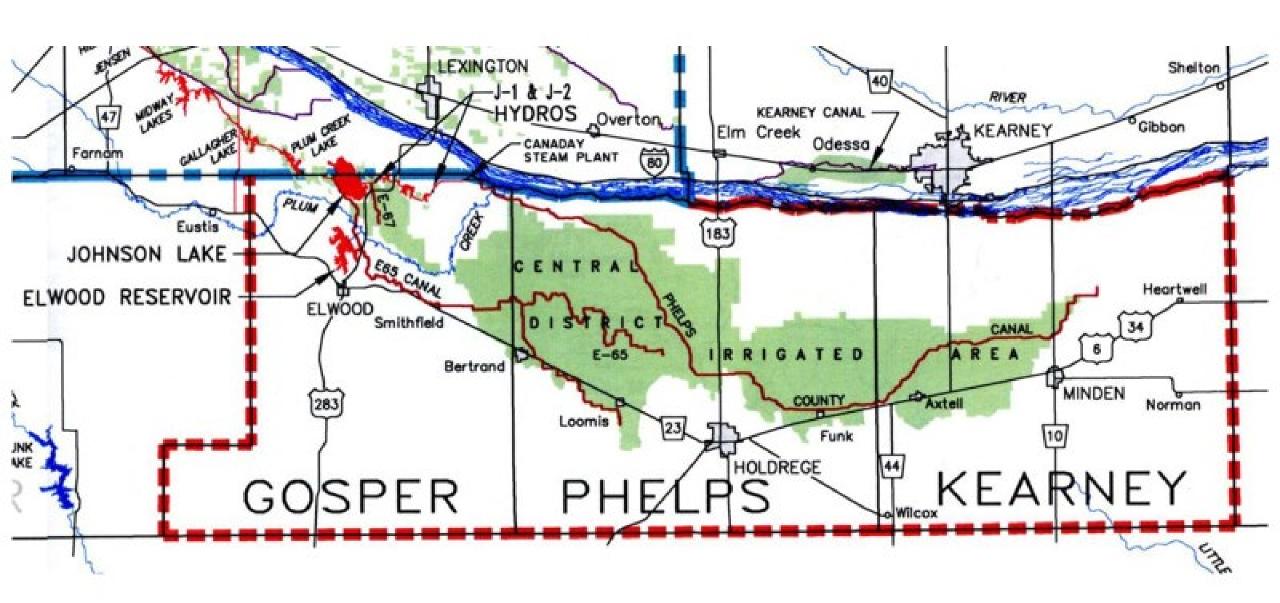








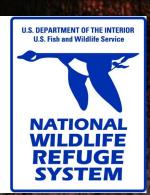
South Platte River near Big Springs, NE on Wednesday Afternoon









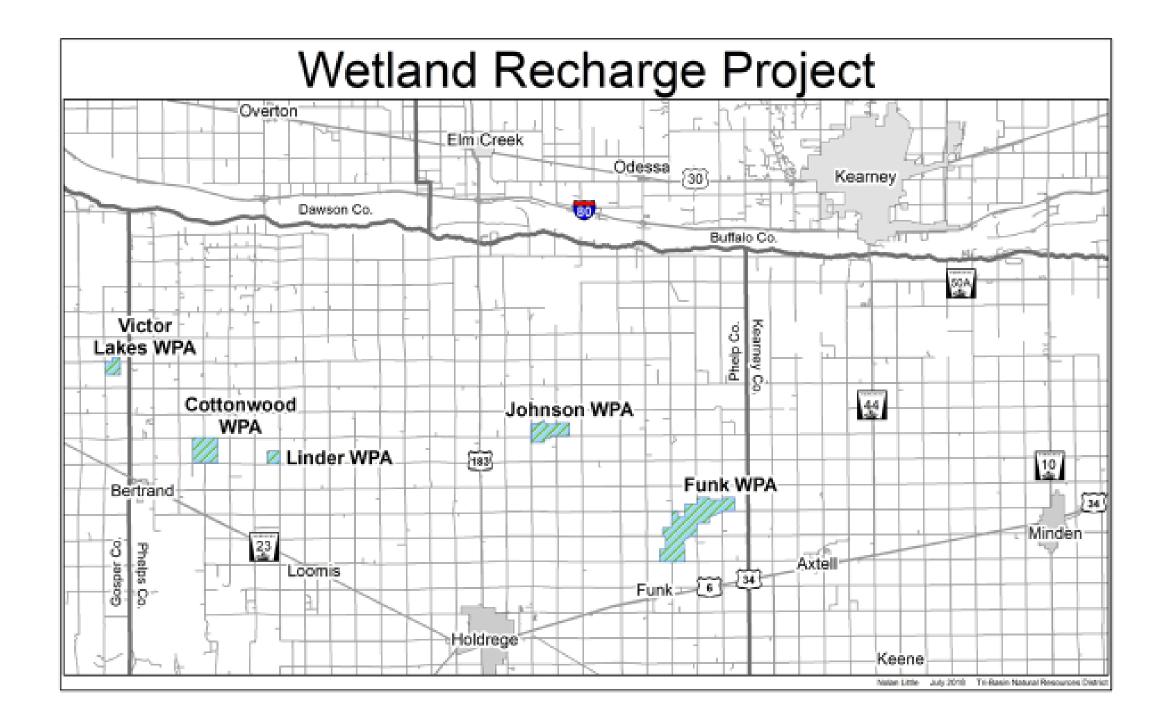


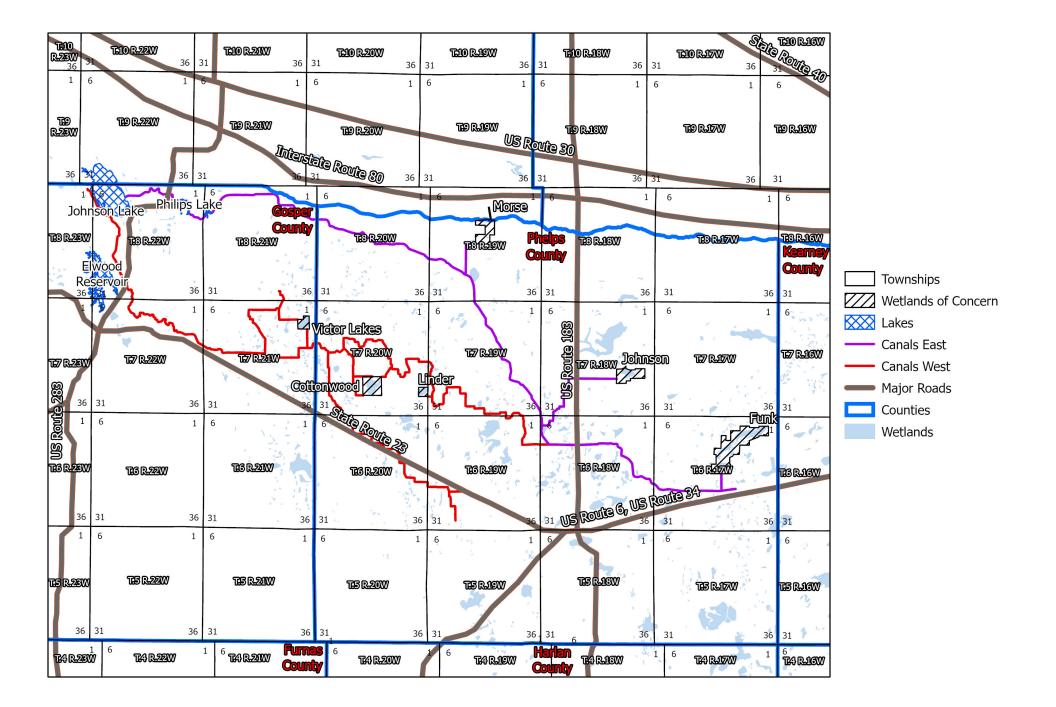
### NEBRASKA

Good Life. Great Water.

DEPT. OF NATURAL RESOURCES







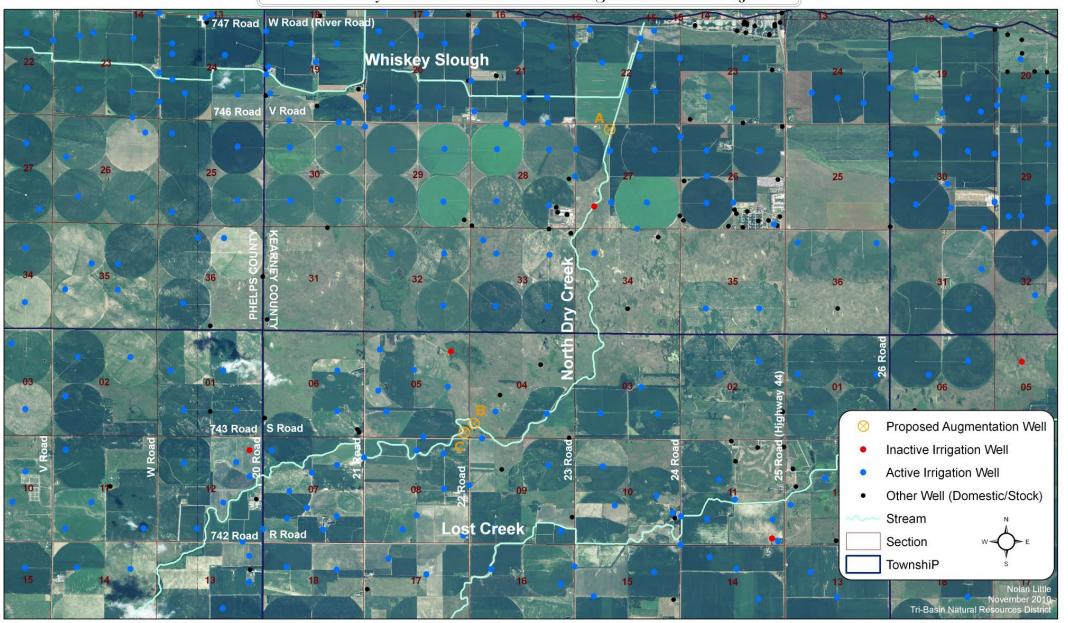
## Streamflow augmentation

- Augmentation can be accomplished directly or indirectly.
- Direct augmentation=pumping water into a stream or releasing water from a reservoir.
- Indirect augmentation=diverting water into canals and reservoirs and allowing it to seep into the ground.

# North Dry Creek Streamflow Augmentation Project

- TBNRD developed first streamflow augmentation well project in Nebraska.
- Located on North Dry Creek (Platte Trib. Near Kearney).
- First well completed in 2011, second well in 2014.
- DNR paid 50% of cost.
- Pumping cost is \$12-14 per creditable a-f.

#### Tri-Basin Natural Resources District North Dry Creek Streamflow Augmentation Project



## Cottonwood Ranch Augmentation Project

- Second phase of intentional recharge project developed by PRRIP in NW Phelps County
- CNPPID buried a pipeline from Phelps County Canal to wet meadows, so excess flows could be diverted
- TBNRD drilled seven wells to re-time recharge into river, in cooperation with PRRIP
- 13,500' of pipeline to river
- Possible additional phases with up to twelve more wells

