

Department of Environment and Energy

Air Wate

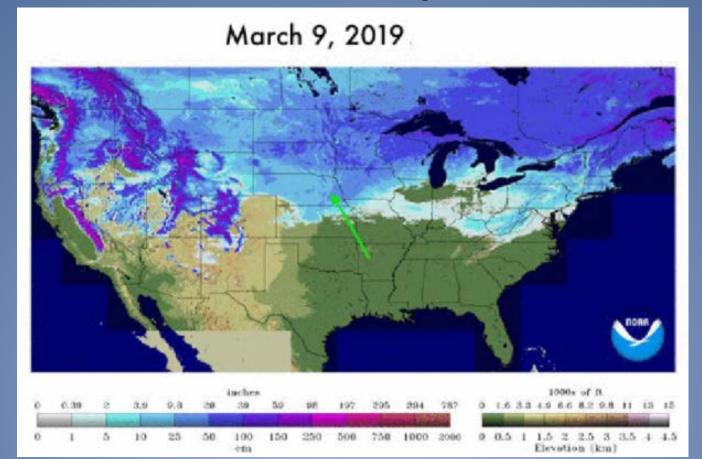
Land Energy

CIFA SRF Workshop Online Session FEMA MOU/Bridge Financing March 2019 Flood Response & Recovery

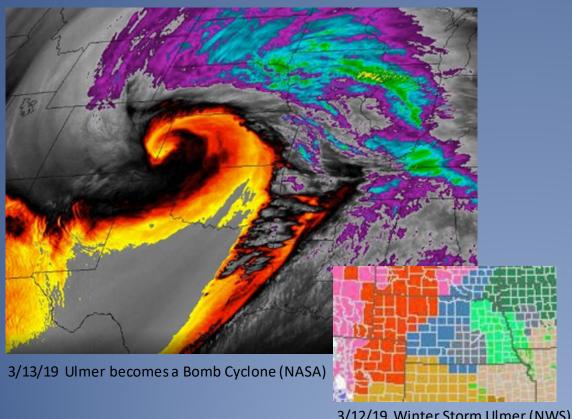
September 27, 2021

Conditions Leading Up to the Event

- Wet fall and winter. Measurable snowpack and rivers remained iced over.
- Long winter with temperatures below 0° into early March.
- At the time of the event there was ~18" of frost in the ground.



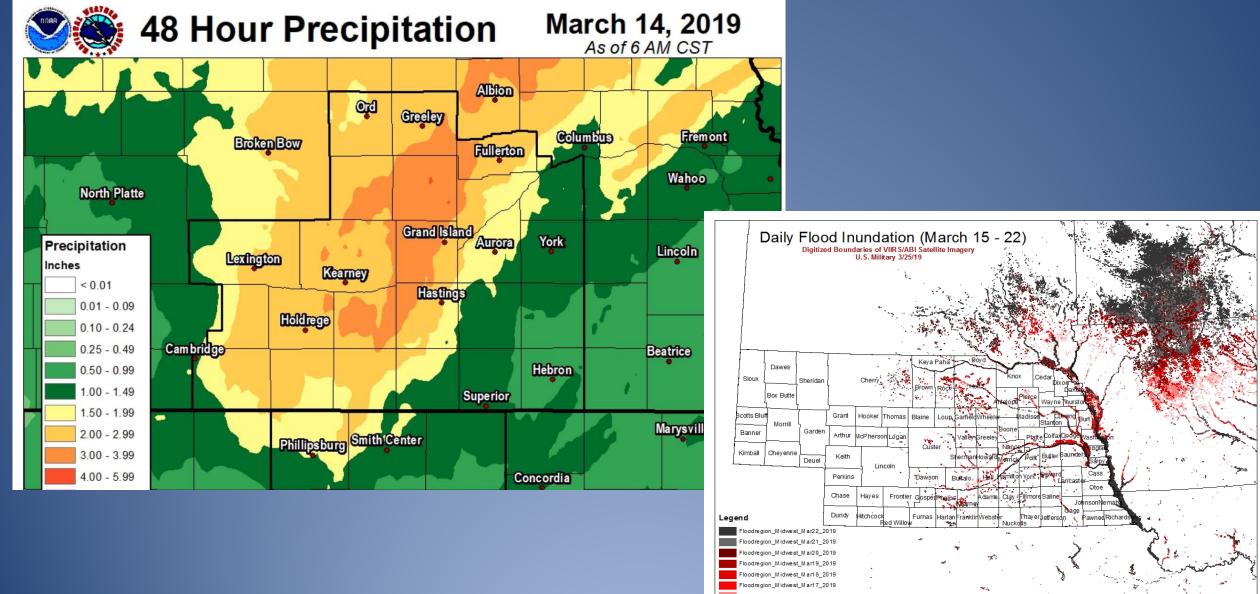
Winter Storm Ulmer Bomb Cyclone (bombogenesis)



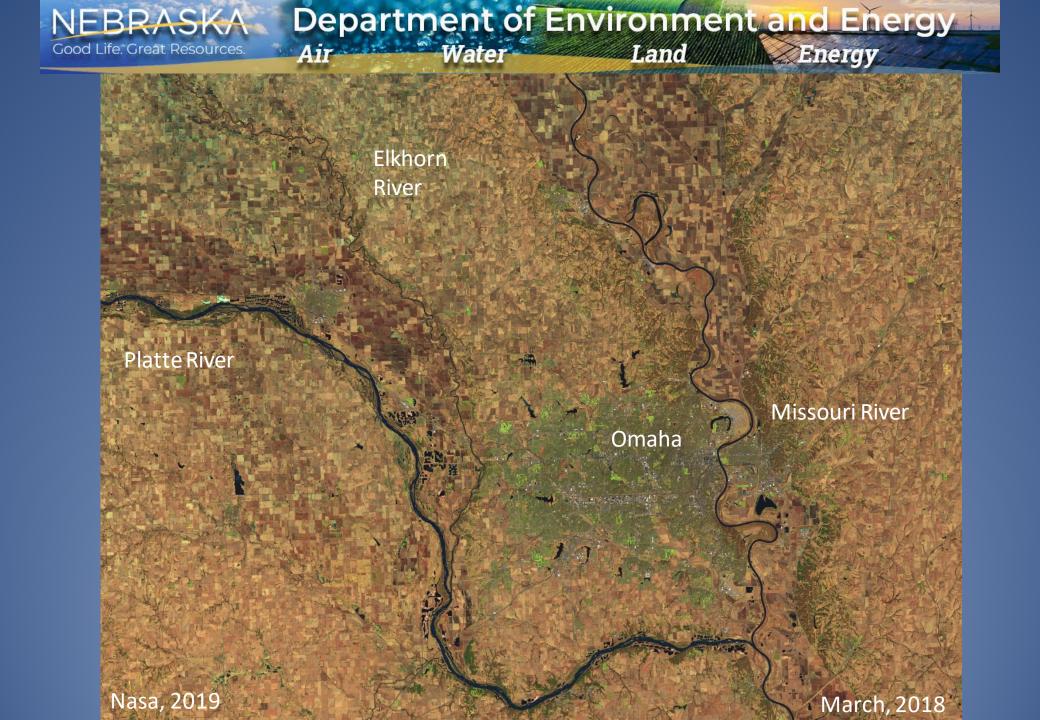
3/12/19 Winter Storm Ulmer (NWS)

- National Weather Service Map
 - Red = Blizzard Warning
 - Blue = Winter Storm
 - Grey = Dense Fog

 - Green = Potential Flooding
 - Yellow = Tornado Watch
- Sharp drop atmospheric pressure (>24 millibars within 24 hours)
 - Dropped 34 millibars to 971 = Category 3 Hurricane
 - Results in extreme winds and heavy precipitation



Floodregion_Midwest_Mar15_2019





Boyd County Rural Water District No. 2

Boyd County Rural Water District 2

450 rural customers

455 customers Village of Spencer - consecutive system

240 customers Village of Lynch - consecutive system

Transmission line between wells and distribution system gone







Good Life. Great Resources.

Department of Environment and Energy

Water

Land Energy

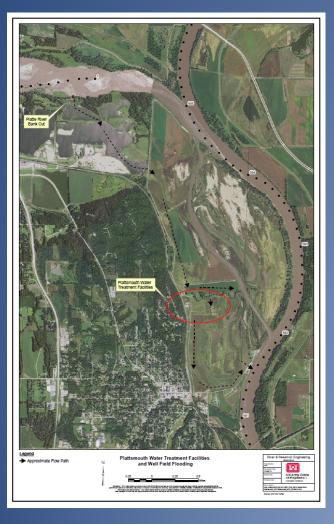


NPPD, 2019

Spencer Dam, on Niobrara River, before and after flood. Dam and dike overtopped by floodwaters and failed, rafted ice blocks battered the pump house. Most of Dike was completely washed away, only portions of concrete dam remain.

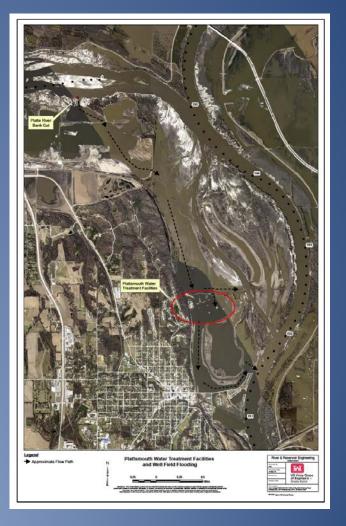


Next Major Impact - Plattsmouth



Platte River breach flowed into river bottom Including wells & WTP





Water Treatment Plant Inundated

Plattsmouth serves over 6500 people and a consecutive water system







River Breach placed facilities in the "New" Channel

Plattsmouth well house and treatment facilities







Wastewater Treatment Facility



Last Major Stop - Peru

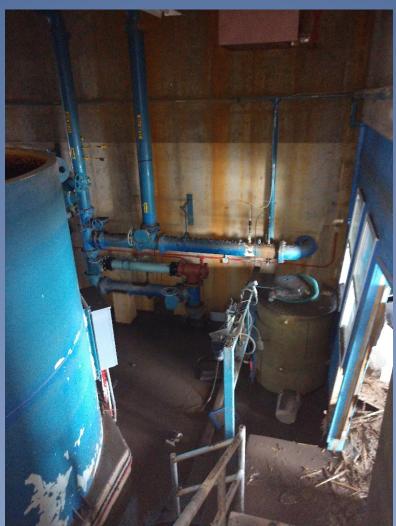


Peru serves over 1,200 people, including Peru State College



After that Levee Failed







SRF – Engineering Response

- Review and permit the construction of all public water & wastewater infrastructure
- Project Stages of FEMA
 - Temporary, Permanent and Mitigation
- Priority given over all current workload
 - Both then and now, any assistance requested
- Director Waived all the "Red-Tape" requirements
 - Expedited project reviews
- Dedicated Staff to each Community
 - From event onset thru Permanent or Mitigation

SRF – Funding Response

- State Revolving Fund Section Financial assistance for public water (DWSRF) and wastewater (CWSRF) projects
- >EPA/FEMA Memorandum of Understanding
 - Streamlines coordination between FEMA and the SRFs to enable funding to support essential infrastructure projects to be made available as quickly as possible
- ➤ Nebraska's SRF
 - 0% Financing, Maximum year terms
 - Balloon repayment structuring (max. \$2,000)
 - Towns use the SRFs as a cash flow means while getting their infrastructure back

What it Takes

- ➤ EPA-FEMA MOU gave us permission not direction
- Nebraska Emergency Management Agency
 - Prior Participation in past State workshops
 - Learn their process Learn FEMAs process

 Public Assistance Program and Policy Guide (PAPPG)
- >Adjust to everyone else
 - SRF requirements are not being waived under the MOU
 - No Lead Time Program staff must work with Community Leaders, Consulting Engineers, Accountants, Lawyers and Contractors – All at the same time

Peru – Temporary Water Treatment Plant

FEMA – Emergency Protective Measure

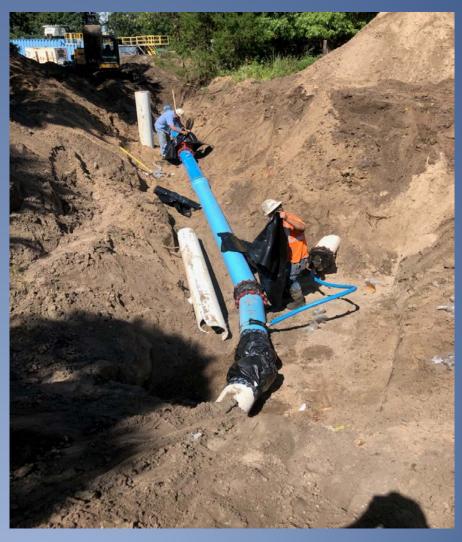




Boyd County RWD – Transmission Main

FEMA Permanent – Replacement of Existing w/Upgrades





Why? – The Easy Part

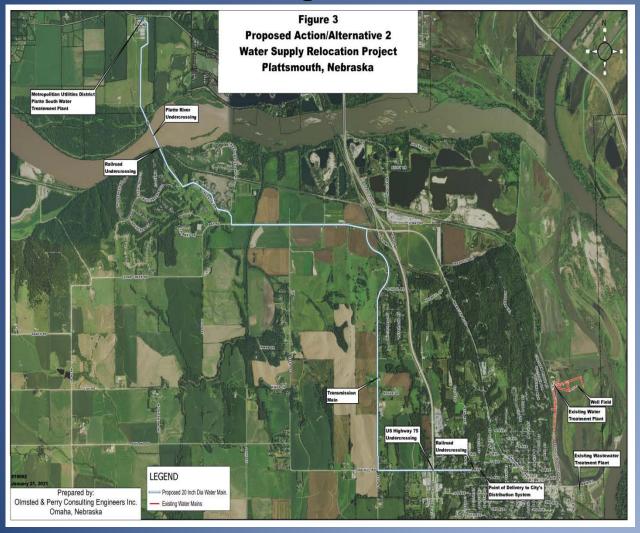
- ➤ Governor Ricketts Directed Us
 - March 12, 2019 Proclamation declaring State of Emergency All State Agencies to cooperate and support
 - Our Director was at NEMA from the start told us to proceed
- > NEMA and FEMA Deserved the Help
 - May 2019 Event Kearney Grand Island
 - Disaster not just Utilities
 Public and Private to Commercial and Residential

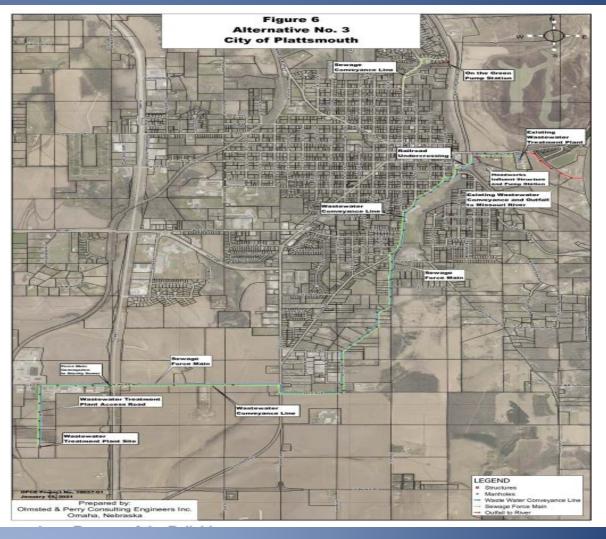
Why? – The Hard Part

- The FEMA Process will not change
 - PPAPG is 277 pages that will be followed!
 - From the Start Document, Document, Document
 - FEMA personnel will change 11-Months on each Disaster
- >SRFs can help
 - Community Assistance at a different level
 - De-obligation of FEMA funds is not just a utility problem
- >\$40M in Bridge Financing need for less than 10,000 people
 - Next phase Permanent projects about to start.

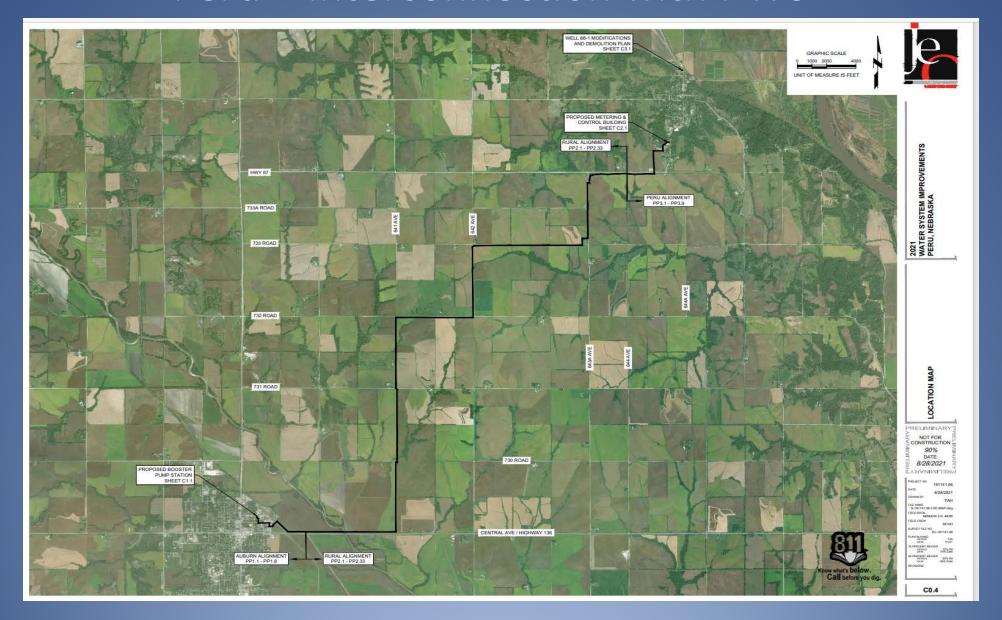
Plattsmouth – Out of the River Bottom

FEMA Mitigation – Interconnection w/ PWS & WWTF south of town





Peru – Interconnection with PWS



Next Steps

- ➤ With the EPA-FEMA MOU we established a better working relationship with our counterparts at NEMA
 - A never ending Thank You to NEMA Most importantly Molly Bargmann!
- ➤ New Goals with NEMA
 - Now the SRF needs to participate more actively
 Not what we can do, but here is what we will do
- Lesson Learned
 - There was a major 2011 Flood in Nebraska no impacts to utilities
 - My advice do not end up being me. Prepare rather than Respond