

Department of Environment and Energy

Air Wate

Land Energy

Department of Environment and Energy

Agency Flood Response and Recovery

September 24, 2019

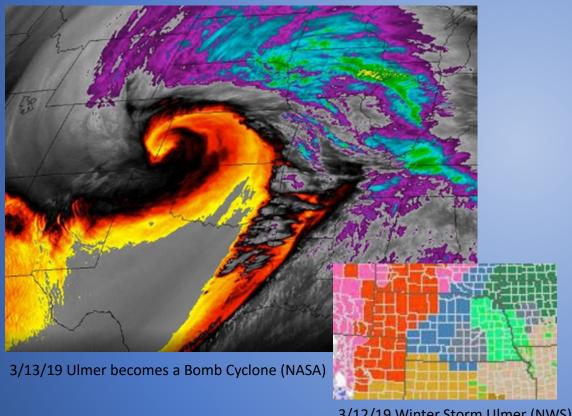
Jim Macy

Take-aways

- GIS is important
- Get to know ICS system
- Update contacts at least quarterly
- Visual Management Systems work in emergencies
- Do a post emergency hot-wash and act on deficiencies



Winter Storm Ulmer Bomb Cyclone (bombogenesis)



3/12/19 Winter Storm Ulmer (NWS)

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

 - Brown = Wind Warning

 - 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

Western Nebraska



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March 2019 Flood Ag Section







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.







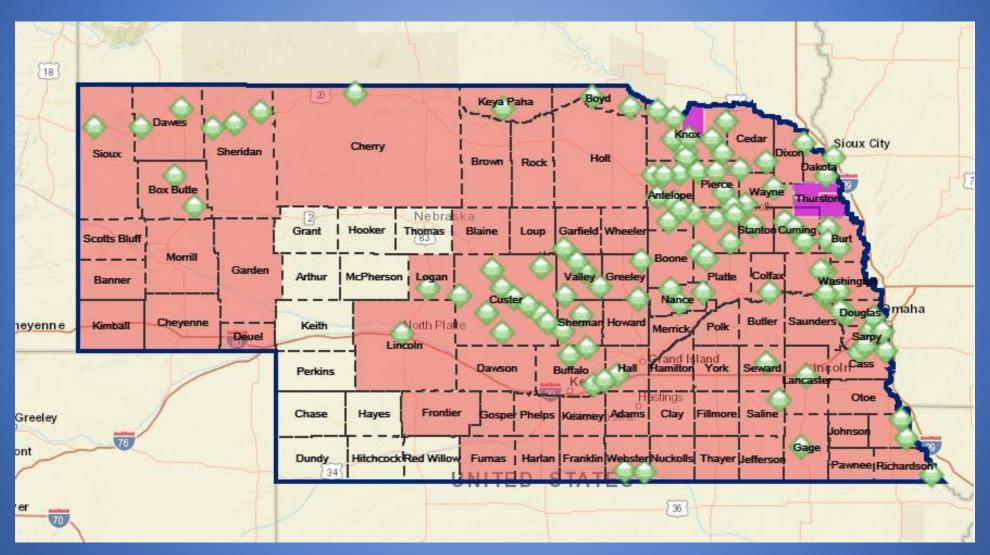








Declared Emergency Areas



Nebraska Strong (The Human Side)



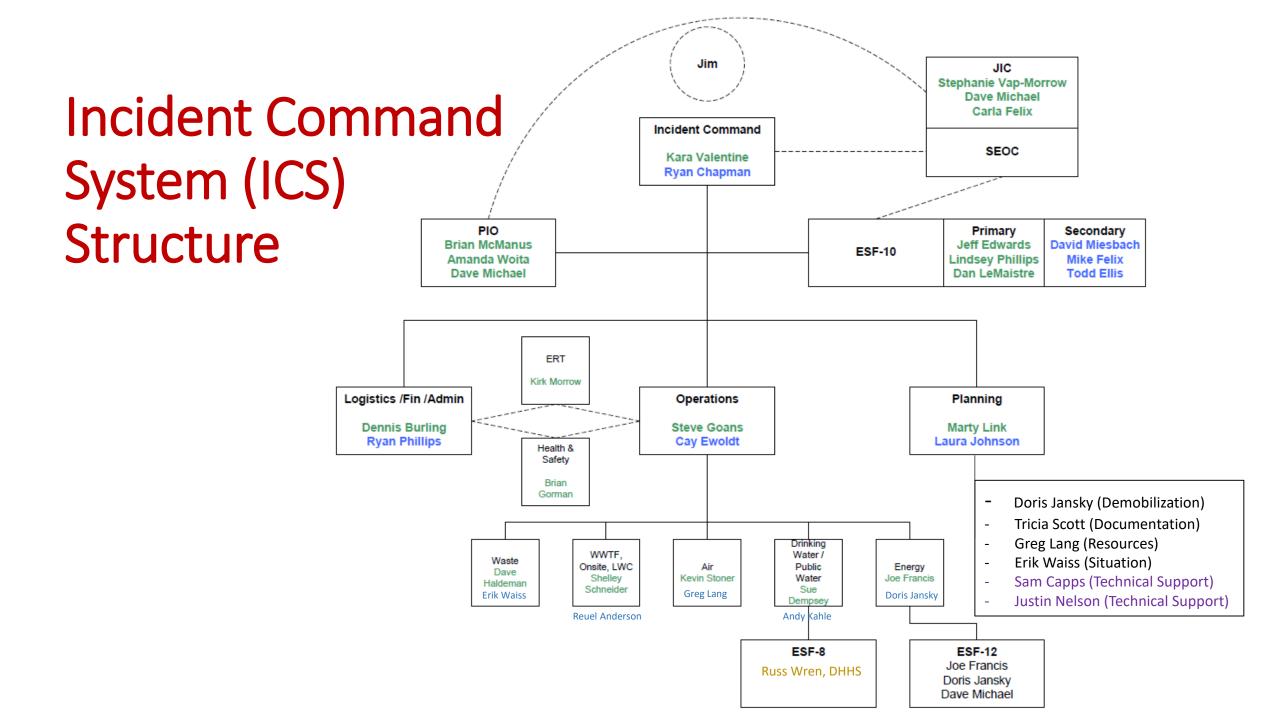
http://netnebraska.org/interactive-multimedia/news/and-floods-came-nebraska-2019?field media categories tid 1=All&title=&tid=&page=8

Human Health, then Environment

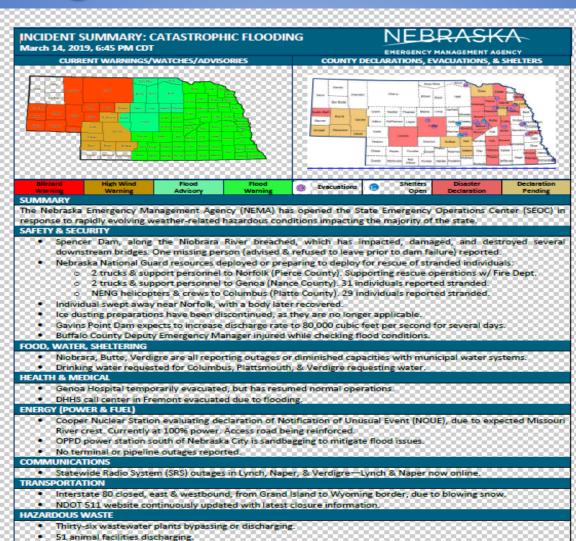
- Massive Mobilization of Emergency Response including US Army National Guard across dozens of counties
- NDEE begins to advise on disaster management
- Help the people, then clean the mess



New York Times, 2019



NEMA begins to use Lifelines concept



NEMA_WatchCenter@nebraska.gov • 402-471-7421 • www.nema.ne.gov

NDEQ Incident Action Plan 2019 Nebraska Flood Response



Operational Period: 4/10/19 1500 - 4/15/19 0900

Prepared By: Laura Johnson

Date Prepared: 4/10/19

Approved By: Kara Valentine

Products of ICS



MARCH FLOOD 2019 SITUATION REPORT

Thayer County

GENERAL INFORMATION

Date: June 4, 2019

Purpose: Data collection and visual assessment of debris management

Participants: Colt Farringer, Director, Thayer County Emergency Management 225 North Fourth Street, Room 303, Hebron, NE 68370



Northwest of First Street in Hebron on 05-30-19

NEBRASKA

March 2019 flood dashboard - Week of May 26 NDEQ website: deq.ne.gov NDEQ hotline: 1-877-253-2603

Community Public Water Systems Status

Non-Community Public Water Systems Status

Waste Debris Management Status



Wastewater Facility Status

Livestock Facility Status



toward the end of the week. Nebraska City WWTF is waiting for replacement motors and pumps that should arrive toward the end of this week. Once those arrive the system will begin treating wastewater

with the Environmental Protection Agency

Public guidance and outreach for debris management Status:

• Work with the EPA on reporting and recovering containers of hazardous sub-

stances

Container locations reported—163

Total container locations closed—530

Total container inventory at stagling areas—1,572

Met with emergency managers in multiple countie

Provide technical assistance to Public Water Systems (PWS) compromised by flooding Coordinate with PWS owners/operators to develop timelines for restoring service

Objectives:

- Investigate discharges and evaluate structures for damage

- Work with livestock waste control facilities (LWCF) on creating a timeline for resuming normal operations.

- Work with waste water treatment facilities (WWTF) on timeline for restarting normal operations.

The City of Omaha Papillion Creek Wastewater Resource Recovery Facilit (WWRRF) is now partially operational
 The Monroe WWTF is bypassing

These loans — with 0% interest and 09 administrative fees — will act as bridge

Status: Currently, four community PWS, and 13 non-community PWS with primary ources of water still off-line Made state revolving joan funds available to effected communities. These loan - with 0% interest and 0% administrative fees — will act as bridge financing unt EMA public assistance is available.

opectives: Coordinate with local emergency managers/fire departments for individual ourn permits for flood-damage structures • Work with public information office to put out public service message about

Status:

electrical systems and expecting a eturn to providing primary treatment oward the end of the week.

Burn permits requested — 2
 Burn permits issued—2
 Burn permits denied—0

ngs Loan at 1% interest
14 loans committed for \$177,984
Four loans entered (not yet com-



Road 5600 north of road P in the county on 05-30-19

EPA 24-Hour Spill/Response 913-281-0991		National Response Center 800-424-8802			NEMA ESS			ESF Coordinators			
Ken Buchholz 816-718-4275		Misc. Federal Contacts			https:nemaihs.com/essential-ehs/			ESF#	ESF Title	Coordinator	Phone
Freon Releases	913-551-7075	FBI	Cell	Office	Example: User Name: DEQ jfrancis				Transportation	Tom Sands	402-479-4339
Margaret Mnich	***	Jim Stefanski	402-659-7116	402-530-1252				ESF 1		Work Cell:	402-440-1933
Campbell, Todd	913-551-7115									Jayne Scofield	402-471-3454
Davis, Joe	913-551-7909	FEMA						FOE			402-416-9512
	913-331-7909	TEWA			Password:			ESF 2			402-410-9312
Davis, Mike	913-551-7328	Joe Adamski						ESF 3	Engineering	NEMA	402-471-7181
Doherty, Paul	913-551-7924	USCG RRT7			Misc. Contacts			Fire	Jim Heine	402-471-2027	
Ferguson, Doug	913-551-7221	Mike Sams	281-881-6193	504-671-2234				ESF 4	Suppression	Work Cell:	402-720-6899
Fisher, Susan	913-551-7919								Emergency	Earl Imler	402-471-7181
Frey, John	913-551-7994							ESF 5	Management		
Heitman, Jason	913-551-7104	DOE -Radiological Asst							Mass Care, Housing &	NEVOAD Susan	
Johnson, James	913-551-7058	DOT						ESF 6	Human Services	Epps	
Kroone, Janice	913-551-7005	DHS Greg Hollinsead	402-981-8970						Infrastructure	Bo Botelho	402-471-0972
Larson, Kevin	913-551-7808	Ken Sessa		813-283-7960				ESF 7	Protection	Work Cell:	402-270-4712
Lininger, Don	913-551-7724								Public Health & Medical Services	Russ Wren	402-471-0972
Miley, Kate	913-551-7916	U.S. Nuclear Regua	Itory Commission Was					ESF 8		Work Cell:	402-270-4712
Nold, Eric	913-551-7488		301-415-7000	800-368-5642				ESF 9	Urban Search &	NEMA MAIN	402-471-7421
Ruiz, Adam	913-551-7926								Rescue		
Schademann, Randy		Poison Control Center 800-222-1222						Environmental		402-471-8309	
Schmaedick, Manny							ESF 10	Quality	Cell:	402-405-2117	
Schuette, Meagan	913-551-7630	USF&WS						ESF 11	Agriculture		
Williams, Dave Peterson, Mary	913-551-7625 913-551-7882	Amanda Civrej		308-379-6592			ESF 12	Energy	Doris Jansky	402-471-3538	
r cicroon, wary	010 001 7002	Amanua Civiej		300-379-0392	State Haz Sub Response Contractors			Public Safety &	Jim DeFreece	402-470-4973	
					Environmental Res		402-201-2924	ESF 13	Security	Work Cell:	402-670-4038
					Sunbelt Environme	ental	417-831-5052		Long Term		
					Environmental Wo	rks	877-827-9500	ESF 14	Recovery &		
		Capitol Police	402-471-2400		State Haz Waste Disposal Contractors		ESF 15	Military Support	LTC Craig Strong	402-309-8323	
					Pollution Control In		Sai Contractors	ESF 15			
			EPA CID		Clean Harbors						
		Justin Oesterriech	913-551-7839		Heritage Environm	ental		Other in	iterestea Agenc	cies that MAY be c	ontaced:
		Cete Holston	913-551-7356		PSC Env Service					Davis Damana	402-471-4607
								Dir. Departme	ent of Insurance	Bruce Ramage Cell:	
					Veolia ES Tech Se	ervice				00	402-871-9608
								Dept. of Natu	ral Resources	Katie Ringland	402-471-2094
				US Forest Service 866-800-8595				Work Cell: 402-440	402-440-1565		
		EPA Region 7 - (913) 551-7003						Game & Parks		Craig Stover	402-471-5532
	816 6020132	Regional Adminstrator	Jim Gulliford	x7006	Missouri DN	R- (573) 7	751-3443	Department	of Homeland	John Brogan	816-283-7083
		Regional Counsel	Leslie Humphrey		Iowa DNR - (Sec	curity	Work Cell:	816-518-3833
		Policy and Management	Mike Brincks		KDHE- (785)	296-1500		Nebraska F	orest Service	Scott Josiah	402-472-1467
		Air and Waste	Rebecca Weber	x7487				Tiob raona r		Cook Cook.	102 112 1101
		Services & Technology	Cecilia Tapia	x7733				City I A	r Potrol	Emorganou	888-211-1812
		Office of Public Affairs	Curtis Corey	x7506				Civil A	r Patrol	Emergency	x300
		Enforcement	DeAndre Singletary	x7373							
		Superfund	Mary Peterson	x7882							
		Water	Jeffrey Robichaud	x7146							
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QR Code Sheet



DEPT. OF ENVIRONMENTAL QUALITY

This guidance document is advisory in nature but its binding on an agency until amended by such agency. A guidance document does not include informel procedural documents that only affect the internal operations of the agency and does not impose additional requirements or panelties on regulated parties or include confidential information or rules and regulations made in accordance with the Administrative Procedure Act. If you believe that this guidance document imposes additional requirements or penalties on regulated parties, you may request a review of the document.

19-123 Revised - April, 2019

Natural Disaster - Flood Guidance QR Sheet

This guidance has been created to offer quick in-the-field reference to critical documents listed on the NDEQ webpage: http://deq.ne.gov/NDEQProg.nsf/OnWeb/Disaster Use your phone's camera or barcode scanner to pull up the referenced documents. (May require download of a QR-scan app)

Natural Disaster Debris Management







Natural Disaster Clean-Up Directory Short 1-page version of first document

Flood Damaged Structure Demolition and Disposal Asbestos, Burning, Burial, Landfilling







Flood Sediment Cleanup

Flood Damaged Grain and Hay







Floodwater Sandbag Re-use and Disposal

Guidance for Clean-up Following Tornadoes and Severe Storms More debris Management recommendations Q & A Regarding Wastewater Bypasses During a Flood Information for Those Considering Bypassing Wastewater Treatment Plants Notification of Discharge of Livestock Waste Pollution Prevention Tips for Homeowners Preparing to Evacuate from Flood Disposal of Animal Carcasses On site burial/composting, landfilling, rendering Additional quidance available Including "Orphaned" Tank reporting. RESOURCES: NDEQ Waste Management Section (402) 471-4210 (402) 471-8830 NDEQ Waste Water Section (877) 253-2603 NDEQ Toll Free Number (402) 471-8308 NDEQ Hazardous Waste Compliance Assistant Email questions to: NDEQ.moreinfo@nebraska.gov

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Orphan Tank Program

- NEMA/FEMA/EPA program to locate and remove orphan fuel tanks
- Propane, Fuel, and other tanks floated away during the flood
- Many found in difficult to reach locations
- Property owners could contact the NDEE Flood Hotline to report tanks, that information was forwarded to responders
- Tank program ran through the month of May



Photo courtesy Dean McFatrich, Ray-Carroll Fuels



Erosion and Deposition



One System, Multiple Communities

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





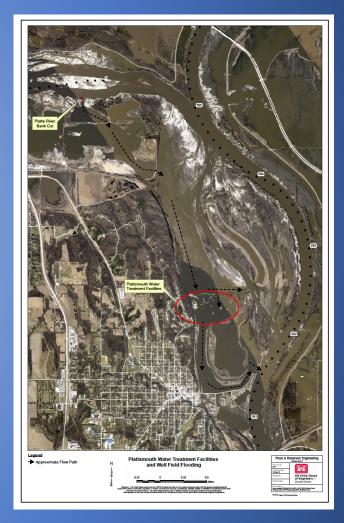


Making its Own Way



Platte breach flowed into Plattsmouth Including wells & WTP





Still an Island

Plattsmouth water treatment plant serves over 6500 people







Omaha Papillion Creek



EPA Mobile Lab for domestic well testing



What were the results?

Location	Date of event	Samples Received	Positive Coliform	Positive E.coli	Negatives	Percent Positive Coliform/E.coli
Fremont	3-21-19	80	24	11	56	30/14
Norfolk	3-22-19	148	42	15	106	28/10
Verdigre	3-23-19	52	23	9	29	44/17
Columbus	3-28-19	167	36	10	131	22/6
West Point	3-29-19	120	35	11	85	29/9
Fremont	4-1-19	127	32	10	95	25/8
Ashland	4-2-19	76	11	2	65	15/3
Niobrara	4-9-19					
Fullerton	4-10-19					
Totals		770	203	68	567	

SRF – Funding Response

- ➤ State Revolving Fund Financial Assistance for public water (DWSRF) and wastewater Projects (CWSRF)
- > 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

Dollar and Energy Savings Loan Program

Flood Recovery Efforts

- 1% Loans associated with March flooding (April 16 to July 1, 2019)
- 54 loans committed for \$862,060.21
- 1% Loans associated with July flooding (Central Platte and Republican River Watersheds) (July 17, 2019 to September 27, 2019)
- 6 loans committed for \$56,796.05

Loans covered improvements that could assist in:

Appliance Replacement, Doors & Windows, Heating, cooling and water
heater equipment, Insulation

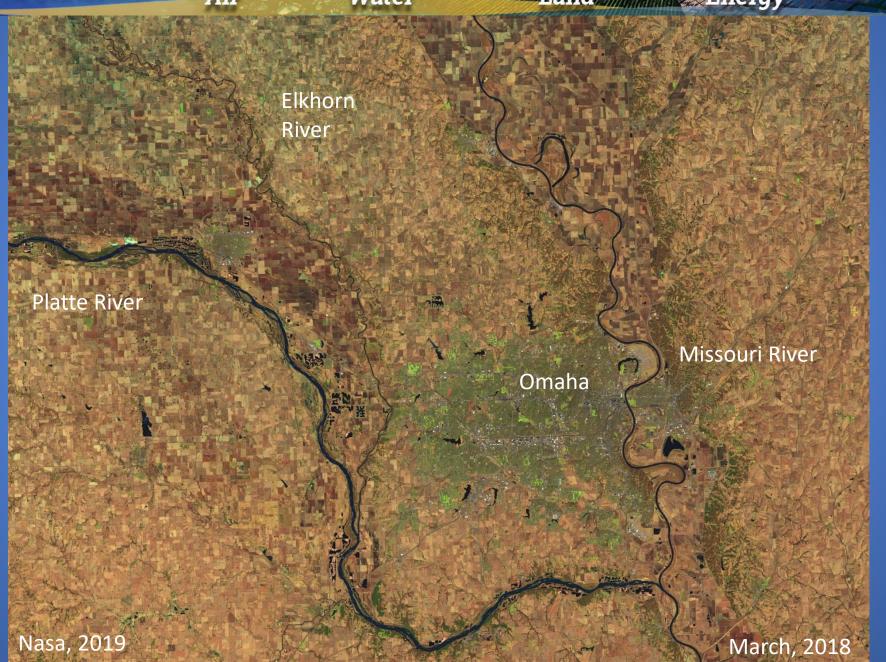
September 16, 2019 29

The Flood Begins

This is a photo of the State Emergency Operations Center looking at the South Wall



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Eastern Nebraska



