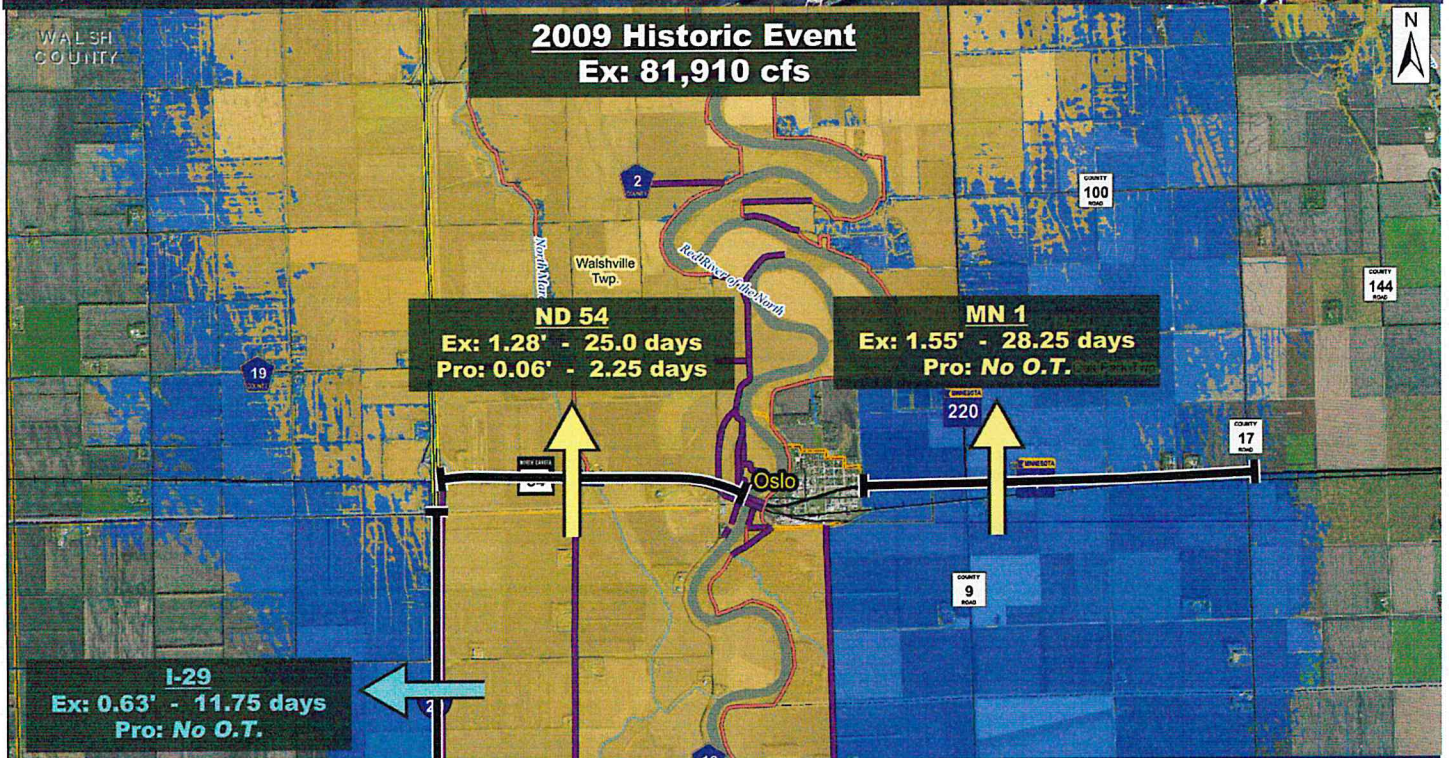


BTAG/ORJPB Northern Red River Valley Flood Mitigation



WITH YOUR VOTE WE CAN MANAGE THIS PROBLEM

Reduced Roadway Overtopping Frequency

- Increased ND/MN transportation over Red River
- Increased access to homes and businesses during floods
- Allows the Railroad working through the flood
- Allows I-29 to remain open during floods

Reduction to Ag Land Inundation

- Reduced time of flooding-more chance to get the crop planted
- Reduce overall flooded acres

Total Project Phases Construction and Non-Construction Costs Opinion of Probable Cost

	North Dakota	Minnesota	Total Cost
Phase 1-Bridges/Bridge Modifications (Properly Sized Conveyance Areas)	\$51,656,438	\$33,924,628	\$85,581,065
Phase 2-Infrastructure Protection (Interstate, State Highways, Railroad Flood Protection)	\$15,949,378	\$4,545,513	\$20,494,891
Phase 3-River Restrictions Removal (Ag Levee Modifications, Abandoned Driveways, etc.)	\$15,865,202	\$11,492,050	\$27,357,252
Grand Total:	\$83,471,018	\$49,962,191	\$133,433,209

DOT Portion of Project	North Dakota	Minnesota	Total
DOT Phase 1	\$37,250,000	\$28,065,571	\$63,315,571
DOT Phase 2	\$6,093,040	\$1,598,140	\$7,691,180
Total DOT Portion	\$43,343,040	\$29,663,711	\$73,006,751

BTAG Contact Information

20487 470th Ave NW
Oslo, MN 56744

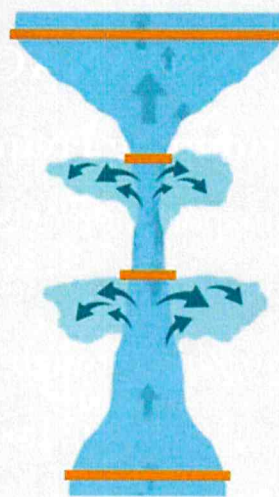
218-965-4660 ext. 1#
218-965-4902 Fax
218-686-0804 Cell

North Dakota Townships

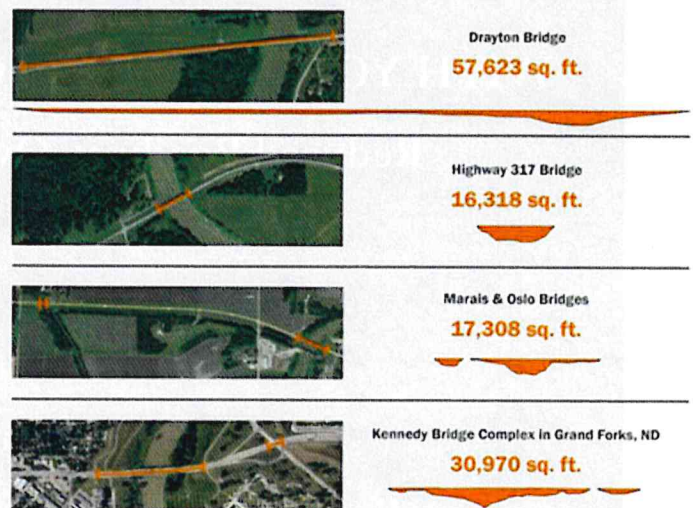
Pulaski-Gary Babinski
Walshville-Craig Jones
Turtle River-Derek Gowan
Ferry Township Financial Support

Minnesota Townships

Fork-Cary Osowski
Big Woods-Curtis Haugen
Oak Park-David Nelson
Higdem-James Bergman
City of Oslo-Tim Solem



Existing Waterway Opening Comparison



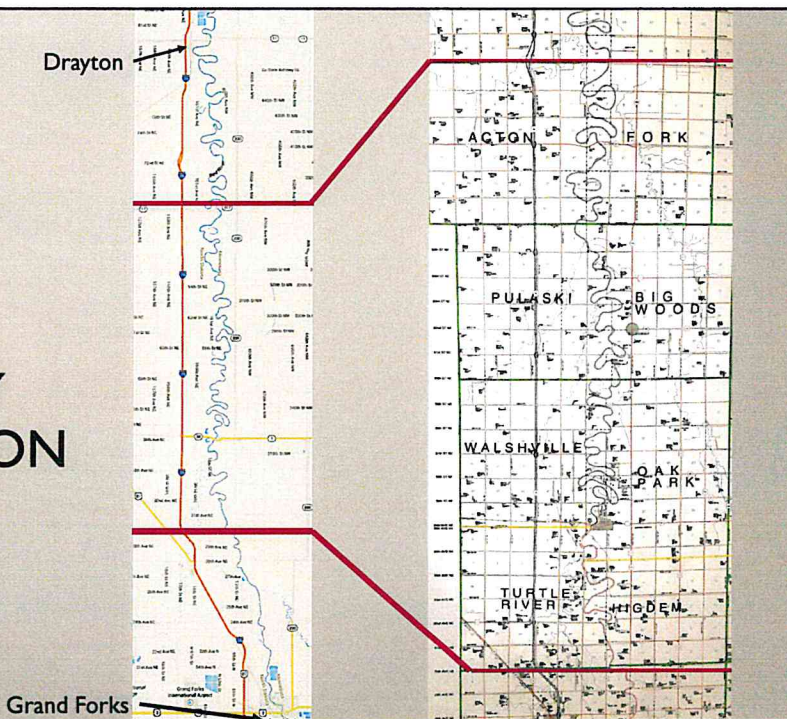
To watch a 8 minute video go to:
fixtheflood.org or scan here.



BTAG/ORJPB

NORTHERN RED RIVER VALLEY FLOOD MITIGATION

FEBRUARY 1, 2023



Grand Forks

BORDER TOWNSHIPS ASSOCIATIVE GROUP

North Dakota

Walsh County

- Pulaski Township-Gary Babinski
- Walshville Township-Craig Jones

Grand Forks County

- Turtle River Township-Derek Gowan
- Ferry Township-financial support

Minnesota

Marshall County

- Fork Township-Carey Osowski
- Big Woods Township-Curtis Haugen
- Oak Park Township-David Nelson

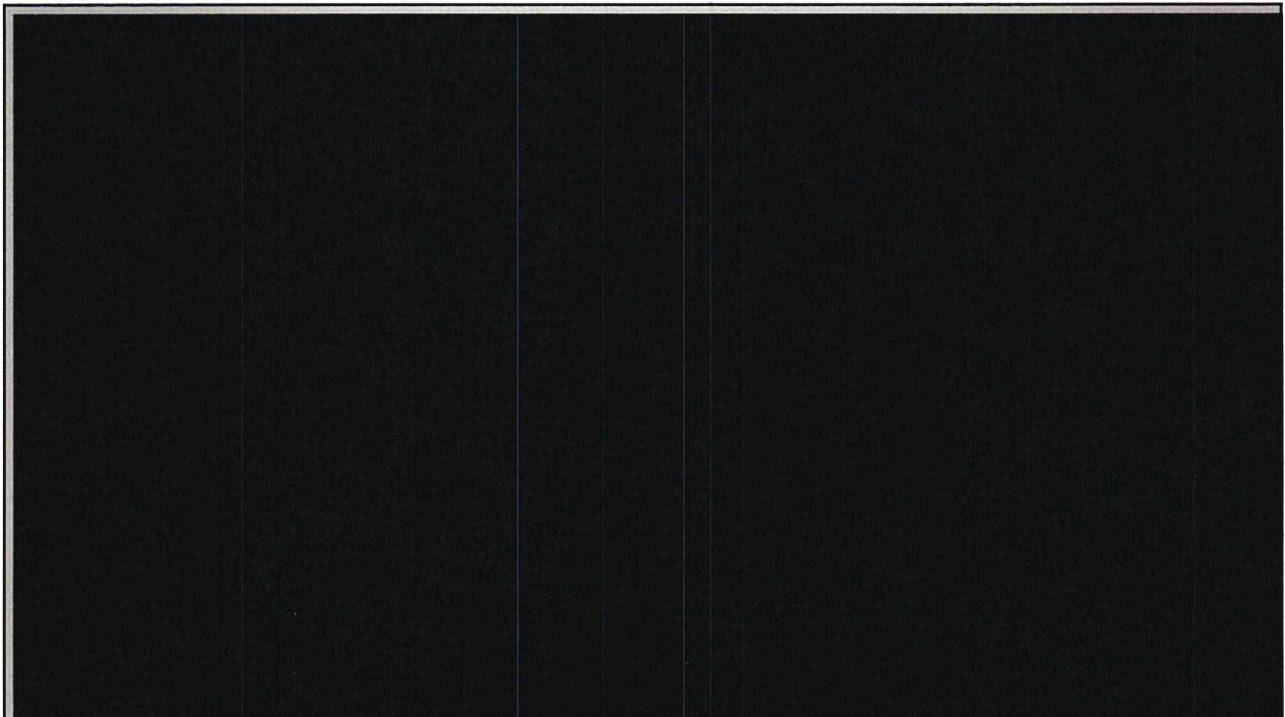
Polk County

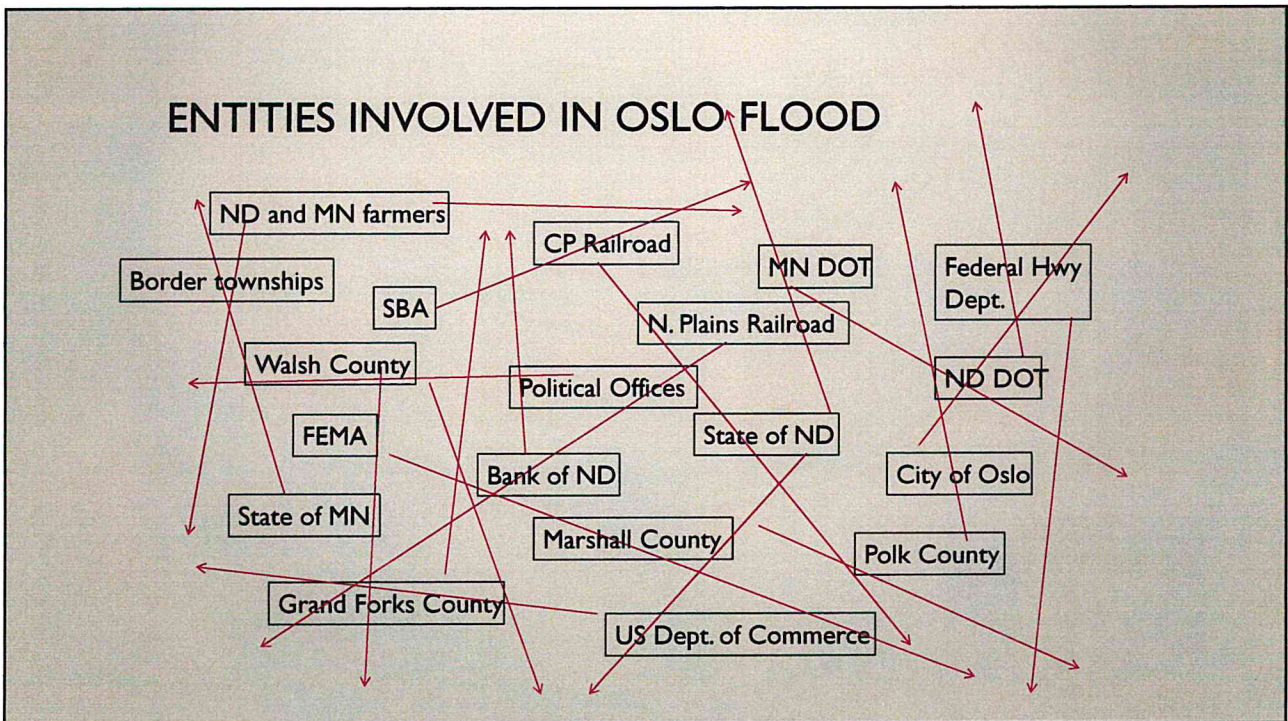
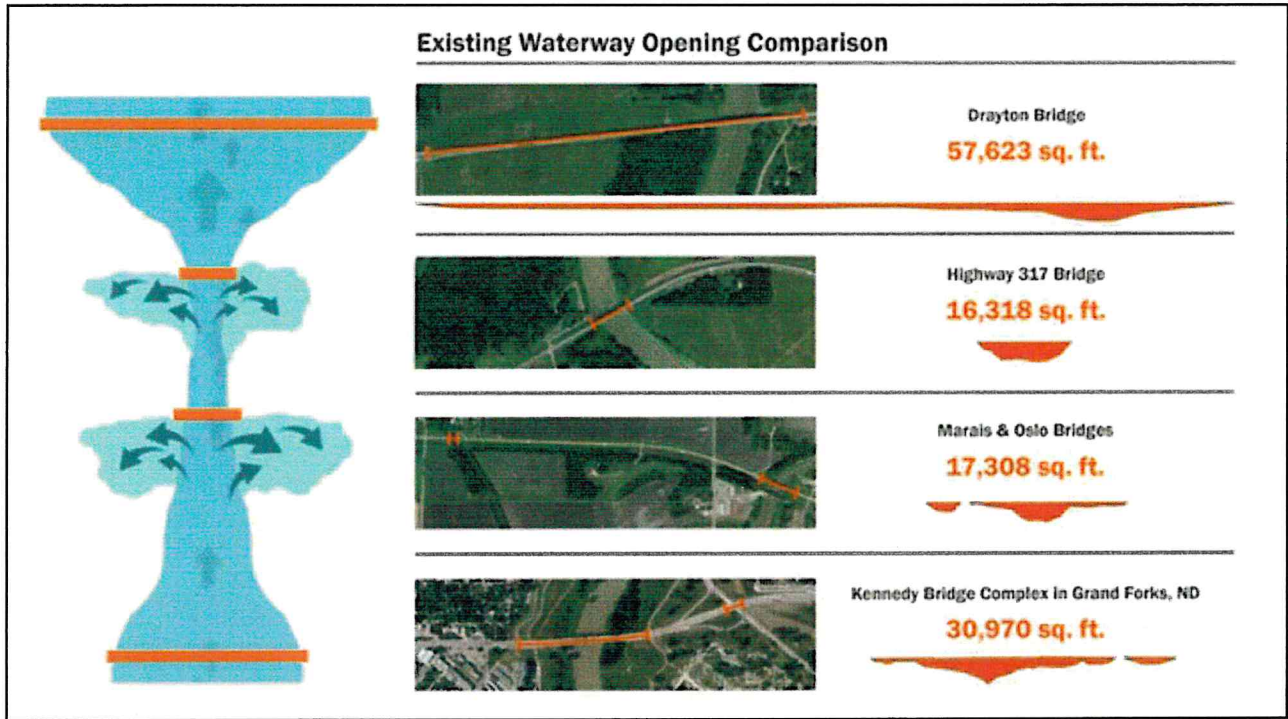
- Higdem Township-James Bergman

City of Oslo-Tim Solem

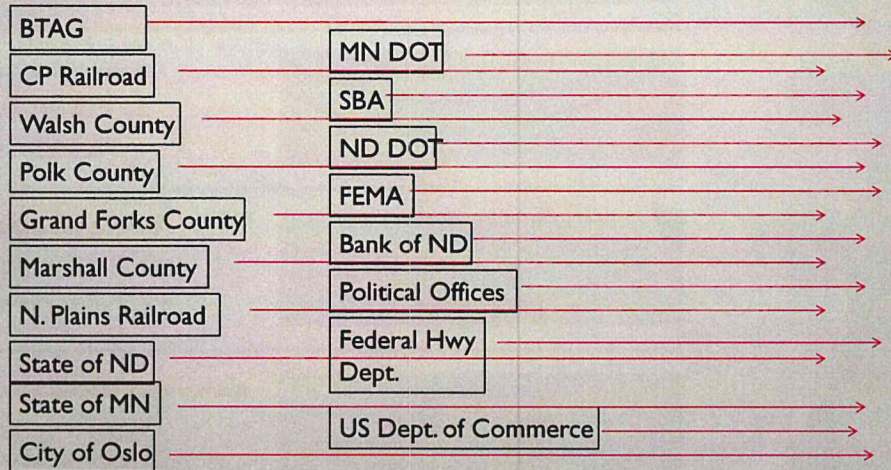
BTAG GOALS

- Contain flows as close to the main channel center line as possible.
- Serve as local experts on water decisions.
- Work cooperatively with other entities to facilitate local water management.
- Promote inter-state cooperation on cost-effective transportation improvements.
- Establish bridges proportional to GF/EGF upstream and Drayton downstream.





ENTITIES WORKING IN SAME DIRECTION



Fargo, ND | HEI No. 3429, 0052 & 7135, 0025
June 26, 2018



OSLO, MN AREA HYDRAULIC ANALYSIS – PHASE 2

Middle-Snake-Tamarac Rivers Watershed District
Walsh County Water Resource District

- Houston Engineering completed a 402 pg. hydraulic study to explore the benefits of modifying bridge structures in conjunction with modifying roads and removing obstructions.
- MN Legislature and ND State Water Commission jointly funded the \$360,000 study.
- A 3-year study

WATER-FLOW OBSTRUCTIONS

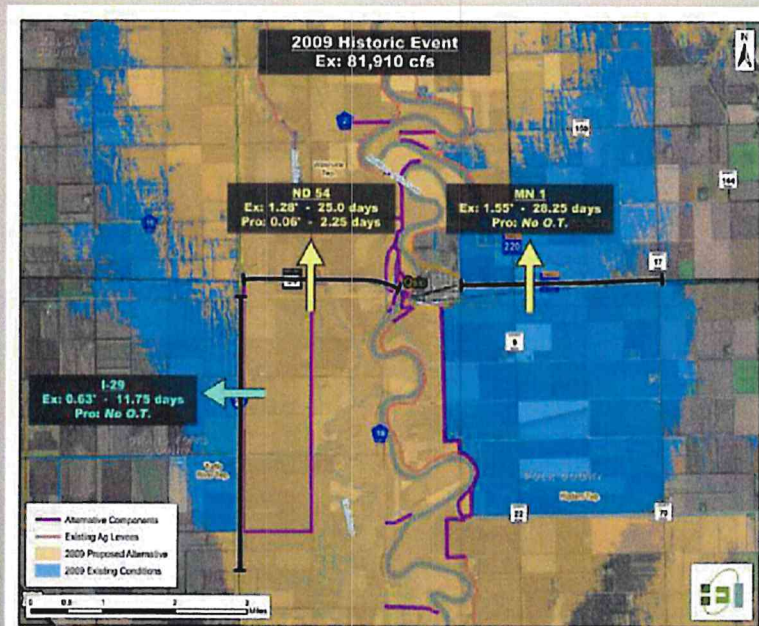
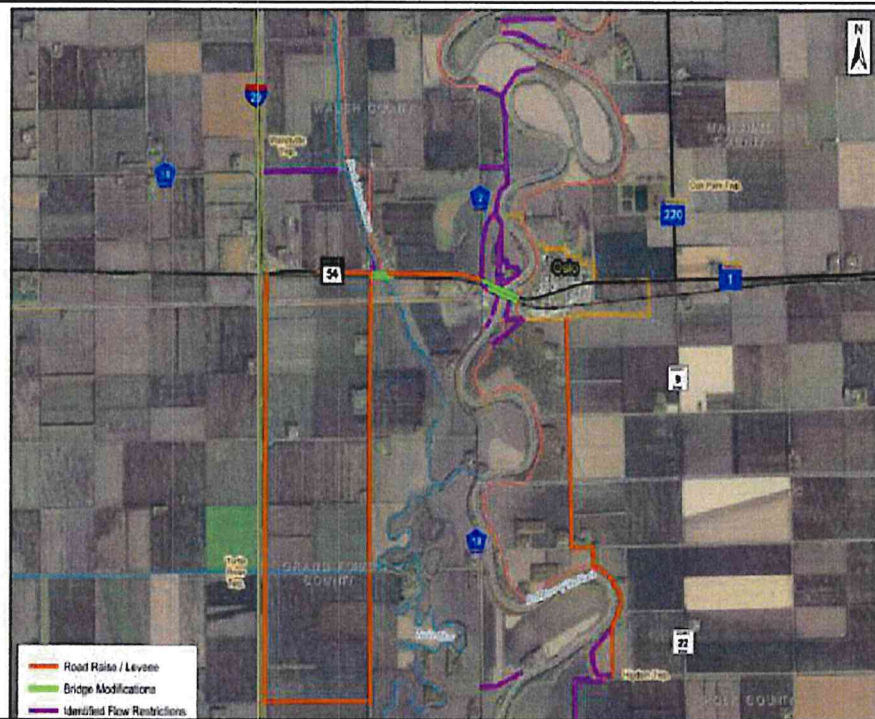
BTAG as local experts identified 70 obstructions to Red River waterflow. Houston study included 40 of the most obvious obstructions, including:

- MN Hwy 1/ ND Hwy 54 bridge at Oslo
- Northern Plains Rail Bridge (1905) at Oslo
- ND Hwy 17/ MN Hwy 317 bridge
- Spoilbanks
- Abandoned driveways
- Field roads
- Old farmer dike

UPSTREAM/DOWNSTREAM EFFECTS

- Houston study considered water levels from EGF/GF to Drayton, ND.
- Removing obstructions lowers water levels.
- Adding protections for infrastructures, requires management of water levels.
- Downstream water levels never showed concerns.
- The project specifications were adjusted to address upstream water level concerns.

Infrastructure Protection



COMMERCE INTERRUPTION

I-29



Loaded Truck
Containers crossing into
US from Canada
(U.S. Border Crossing
Data)

- 14,969 trucks/month
- 498 trucks/day

14

Interstate 29
April 10, 2020



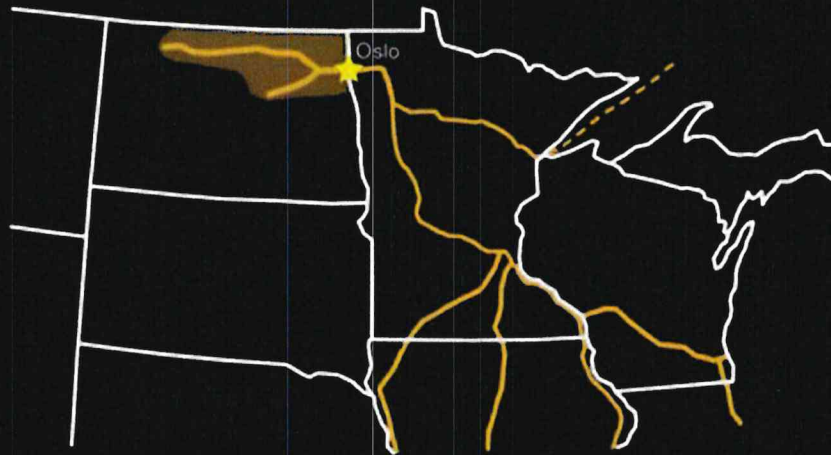
COMMERCE INTERRUPTION

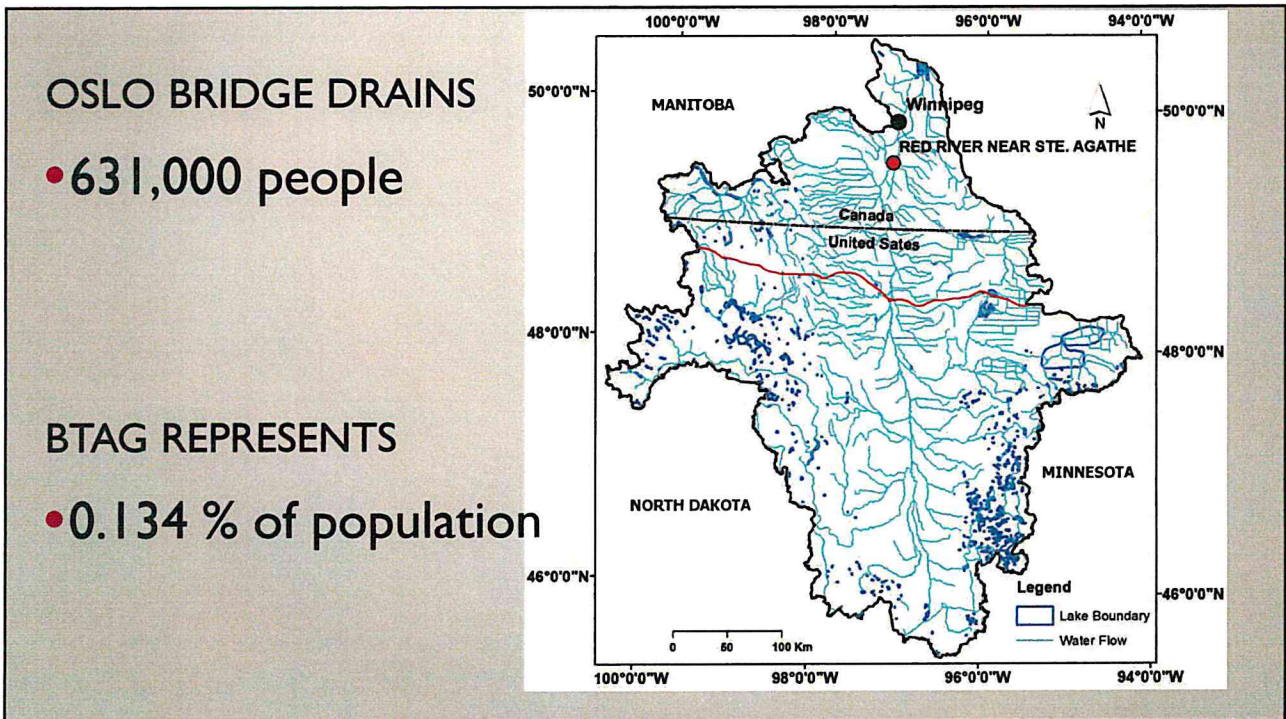
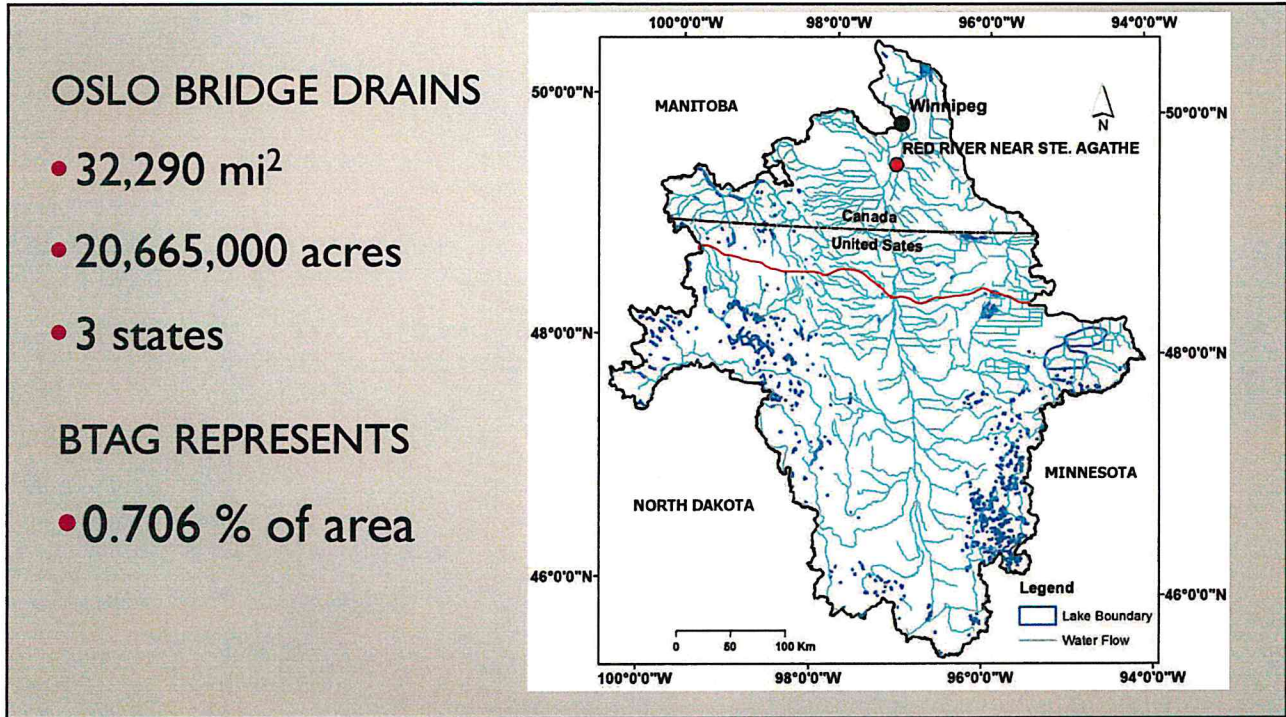
Northern Plains Railroad



- \$1,000,000 of product/day
- 17% of ND wheat export
- 3% of US wheat production
- 3% of US wheat export

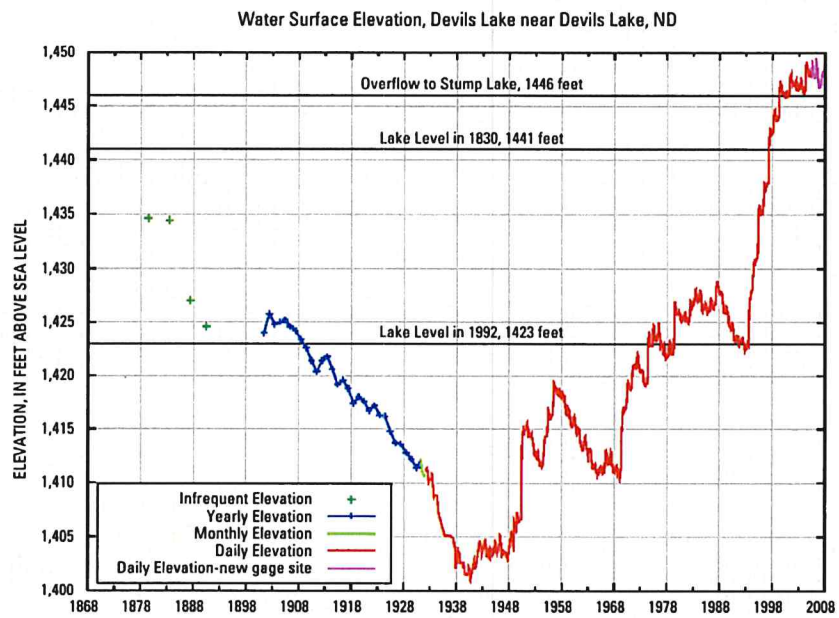
17% of North Dakota's wheat moves through the rail line in Oslo.

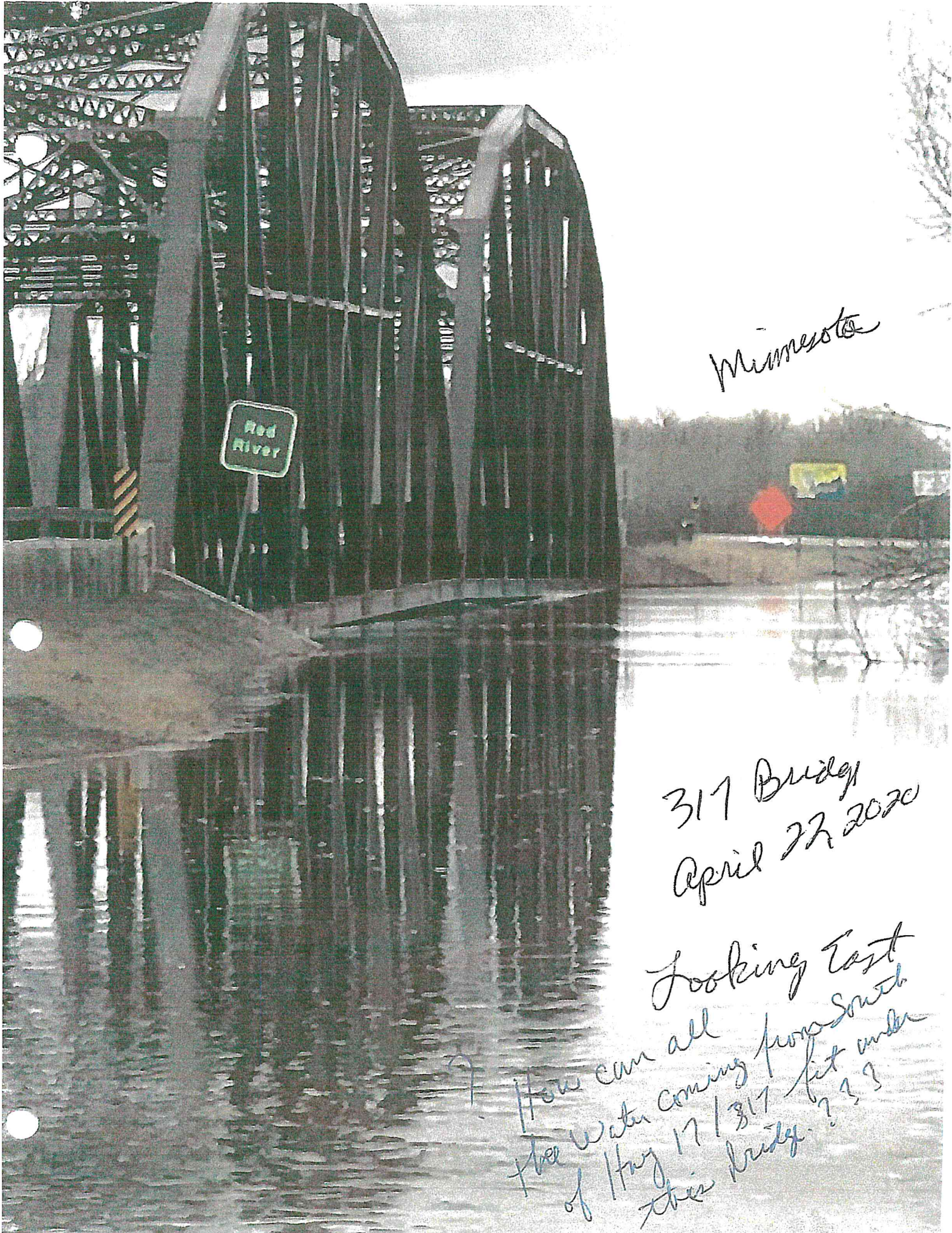




QUESTIONS?

20

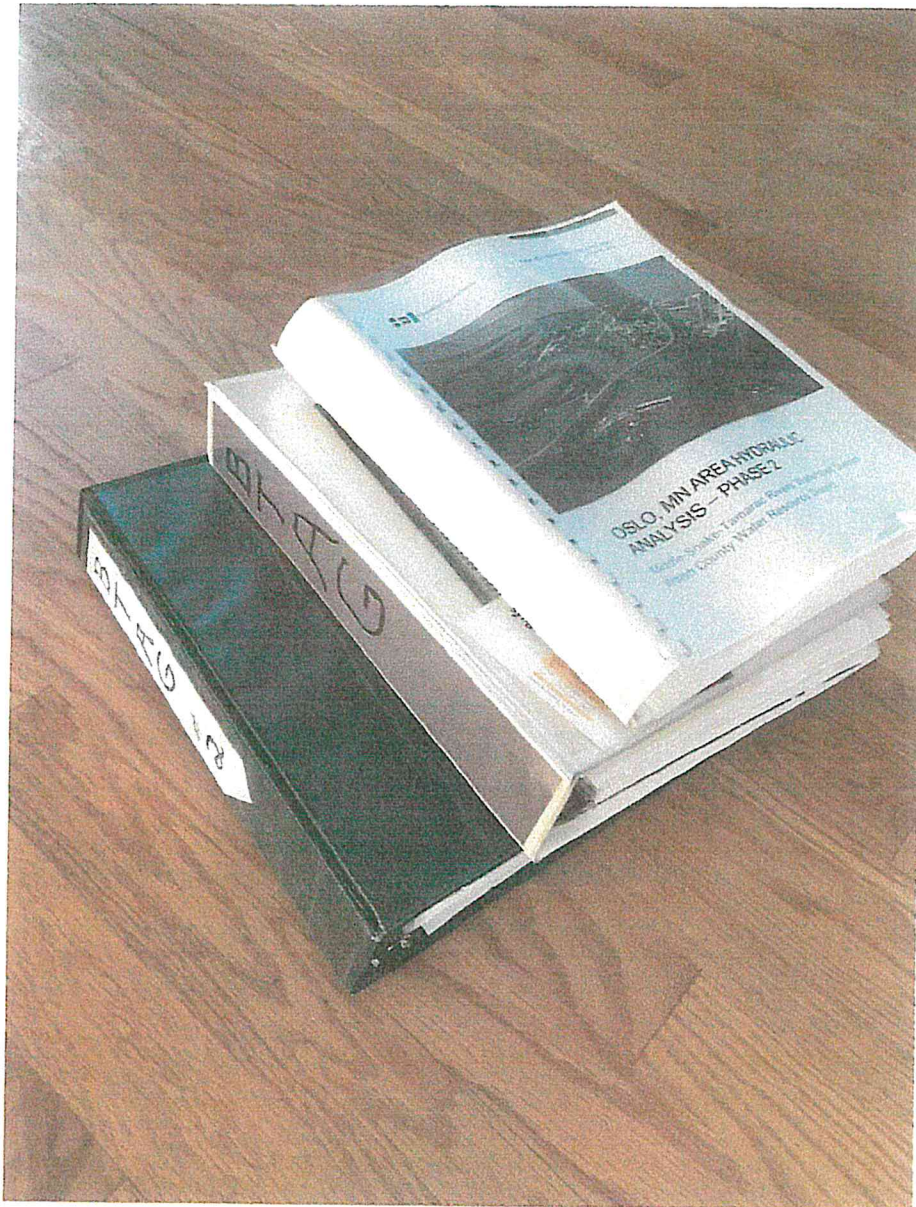




Minnesota

317 Bridge
April 22 2020

Looking East
How can all
the water coming from South
of Hwy 17/317 fit under
this bridge? ? ?



2010 Flood

ALL data removed

16 Flood events

FEMA

County Sites (all)	1,120,705.85	
Co. Red River Sites	458,980.45	
Acton Twp	21,773.21	→ all expenses
Pulaski Twp	183,355.70	
St Andrews Twp	16,923.46	
Walshville Twp	201,192.06	
Total RRV Twps	423,244.43	30%
Total All Twps	1,405,907.96	

18 Event 1999

- 2000
- 2001
- 2002
- 2004
- 2005
- 2006
- 2009
- 2010
- 2011
- 2013
- 2013R
- 2017
- 2019
- 2019F
- 2020

2011 Flood

County Sites (all)	732,002.48	
Co. Red River Sites	610,966.09	
Acton Twp	50,371.80	
Pulaski Twp	145,977.85	
Walshville Twp	173,752.83	
Total RRV Twps	370,102.48	63%
Total All Twps	585,451.23	

Total County Wide	1,317,453.71	
Total RRV	981,068.57	74%

2013 Spring Flood

County Sites (all)	313,051.25	
Co. Red River Sites	17,924.63	
Acton Twp	1,761.13	
Pulaski Twp	26,244.49	
St Andrews Twp	2,814.95	
Walshville Twp	11,961.61	
Total RRV Twps	42,782.18	18%
Total All Twps	235,590.19	

Total County Wide	548,641.44	
Total RRV	60,706.81	11%

Been w/ Co. for 22 years
 * "64% chance of Flood event."

2013 Rain Event

County Sites (all)	95,807.75	
Co. Red River Sites	674.43	
Acton Twp	0.00	
Pulaski Twp	0.00	
St Andrews Twp	0.00	
Walshville Twp	0.00	
Total RRV Twps	0.00	0%
Total All Twps	123,398.68	
Total County Wide	219,206.43	
Total RRV	674.43	0%

2017 Flood

County Sites (all)	657,136.00	
Co. Red River Sites	251,645.14	\$200,000 Silewski Site
Acton Twp	0.00	
Pulaski Twp	0.00	
St Andrews Twp	0.00	
Walshville Twp	0.00	
Total RRV Twps	0.00	0%
Total All Twps	233,005.88	
Total County Wide	890,141.88	
Total RRV	251,645.14	28%

2019 Spring Flood

County Sites (all)	1,182,442.13	
Co. Red River Sites	719,165.96	
Acton Twp	14,097.47	
Pulaski Twp	93,429.30	
St Andrews Twp	5,470.47	
Walshville Twp	249,089.78	
Total RRV Twps	362,087.02	78%
Total All Twps	463,276.17	
Total County Wide	1,645,718.30	
Total RRV	1,081,252.98	66%

2019 Fall Flood

County Sites (all)	81,782.46	
Co. Red River Sites	81,782.46	
Acton Twp	0.00	
Pulaski Twp	91,799.90	
St Andrews Twp	0.00	
Walshville Twp	14,893.65	
Total RRV Twps	106,693.55	100%
Total All Twps	106,693.55	
Total County Wide	188,476.01	
Total RRV	188,476.01	100%

2020 Spring Flood (ESTIMATED)

County Sites (all)	853,347.41	
Co. Red River Sites	827,447.41	
Acton Twp	0.00	
Pulaski Twp	58,884.90	
St Andrews Twp	12,180.00	
Walshville Twp	430,785.10	
Total RRV Twps	501,850.00	96%
Total All Twps	523,741.82	
Total County Wide	1,377,089.23	

Total RRV 1,329,297.41 97%

Total CUF 11 years

In USLO REGION
In the past

15 years

Multi Peril Crop Insurance

has paid out

one BILLION

Dollars for
Prevent Plant.

Walsh County only

