



# Flowage Easement Informational Meetings

March 14 - 22, 2022





# Thank you for joining us!

The Cass County Joint Water Resource District, Moorhead-Clay County Joint Powers Authority, and the Metro Flood Diversion Authority are dedicated to answering your questions about the Project



# Agenda for Open House Meeting



- Presentation (6:15)
- Question & Answer Session (15-30 minutes)
- Open House Meet with Land Agents (until 9:00)
- Arrange Follow-Up Meeting with Land Agents

## **Presentation** Outline



rightarrow Flowage Easement Development



Flowage Easement Frequently Asked Questions



Mitigation Zones and Impacts Summary



Flowage Easement Appraisal Process



Crop Insurance Programs

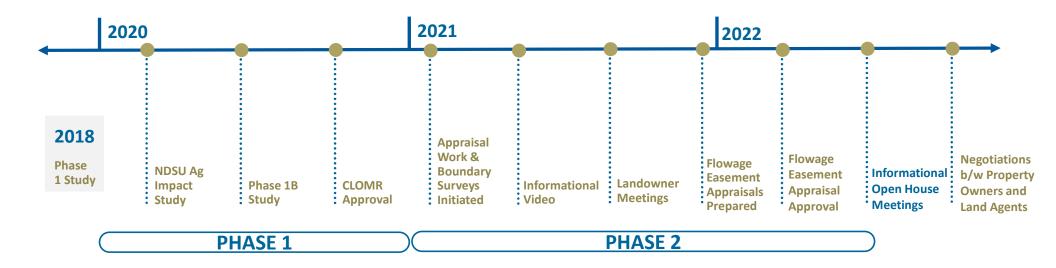


**Post-Operation Programs** 

# Flowage Easement Development



#### **History of Flowage Easement Development**



## **Frequently Asked Questions**



Frequently Asked Questions

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- Agreement between a landowner and one of the member entities of the Metro Flood Diversion Authority (MFDA)
- Payment to landowner
- Right to periodically and temporarily store floodwater during Project operation

What does the Flowage	Easement p	payment	cover?
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- Legal right to periodically and temporarily store floodwater during Project operation
- Restriction on development rights





Frequently Asked Questions

# Why does there need to be a Flowage Easement on my property?

- Required by federal and state regulatory agencies
- Property right needed

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#### Who will be obtaining the Flowage Easements?

- North Dakota, the Cass County Joint Water Resource District (CCJWRD)
- Minnesota, the City of Moorhead, Clay County, or Moorhead Clay County Joint Powers Authority (MCCJPA)



Frequently Asked Questions

#### When can I expect the payment?

- CCJWRD or MCCJPA will provide an "Agreement to Acquire a Flowage Easement"
- Agreement includes payment terms
- Compensation for a Flowage Easement is a one-time payment
- Payment at closing





Frequently Asked Questions

#### How often is floodwater going to be stored on my property?

 The USACE and the MFDA determined how much operation of the Project would increase the depth of floodwater on each property ("depth difference")

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See the Depth Duration and Frequency Table

 (available on website at www.FMDiversion.gov/FlowageEasements)

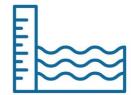
#### Depth, Duration, Frequency Impact Table by OIN



METRO

FLOOD DIVERSION

#### Depth Duration Frequency Table



		ELEVATIONS WITHOUT DIVERSION (Existing Conditions)							ELEVATIONS WITH DIVERSION (With-Project Conditions)									
		20-Ye	ar Flood	50-Year Flood		100-Year Flood		500-Ye	500-Year Flood		20-Year Flood		50-Year Flood		100-Year Flood		500-Year Flood	
OIN	*Approx Min Field Elevation	Max Water Surface Elevation	Approx Days Above Field Elevation	Max Water Surface Elevation	Approx Days Above Field Elevation	Max Water Surface Elevation	Approx Days Above Field Elevation	Max Water Surface Elevation	Approx Days Above Field Elevation	Max Water Surface Elevation	Approx Days Above Field Elevation	Max Water Surface Elevation	Approx Days Above Field Elevation	Max Water Surface Elevation	Approx Days Above Field Elevation	Max Water Surface Elevation	Approx Days Above Field Elevation	
23	910.0	905.5	0.0	910.7	4.5	911.7	10.0	912.5	15.0	912.7	9.5	918.7	10.0	920.9	11.0	922.0	14.5	
24	909.0	905.5	0.0	910.7	7.5	911.7	12.5	912.5	17.5	912.7	11.0	918.7	10.5	920.9	12.0	922.0	15.0	
27	907.0	905.5	0.0	910.7	11.5	911.7	15.5	912.5	20.5	912.7	12.5	918.7	11.5	920.9	13.0	922.0	17.5	
28	906.0	905.5	0.0	910.7	13.0	911.7	16.5	912.5	22.0	912.7	13.0	918.7	12.5	920.9	13.5	922.0	18.5	
29	908.0	906.1	0.0	910.8	11.0	911.8	15.0	912.6	19.5	912.7	11.5	918.7	11.5	920.9	13.0	922.0	16.0	
30	912.5	909.9	0.0	913.7	5.5	914.0	9.5	914.5	13.5	912.7	2.5	918.7	9.0	920.9	10.5	922.0	13.0	
176	924.0	915.5	0.0	918.4	0.0	921.1	0.0	925.7	6.0	915.7	0.0	920.4	0.0	923.1	0.0	925.9	9.0	
213	905.0	905.0	1.0	910.7	13.5	911.7	17.0	912.5	23.0	912.7	31.5	918.7	31.5	920.9	32.0	921.9	32.0	
232	915.5	915.4	0.0	916.1	5.5	916.3	9.0	916.8	12.0	914.9	0.0	918.7	8.5	920.9	10.5	922.0	13.0	
249	908.5	910.3	27.5	912.4	29.0	913.6	29.5	915.1	31.0	910.8	6.5	918.5	12.0	921.0	16.0	922.4	31.5	
250	912.0	910.3	0.0	912.3	3.0	913.6	7.5	915.0	25.5	910.8	0.0	918.5	9.5	921.0	11.5	922.4	27.5	
251	910.0	910.6	3.0	913.0	9.0	914.5	13.5	916.5	31.0	911.1	4.0	918.6	11.5	921.1	14.5	922.6	31.0	
255	905.5	910.0	9.5	912.0	14.5	913.3	22.0	914.7	32.5	910.7	37.5	918.6	37.5	921.1	37.5	922.5	37.5	
809	900.0	910.4	15.5	912.6	21.0	913.9	32.0	915.5	33.5	910.9	16.0	918.6	21.0	921.0	32.0	922.4	33.5	
816	910.0	911.5	8.5	913.8	15.0	914.0	18.0	914.5	23.5	912.7	11.0	918.7	13.0	920.9	14.5	922.0	19.5	
817	910.5	911.5	8.5	913.8	15.0	914.0	18.0	914.5	23.0	912.7	8.5	918.7	10.0	920.9	11.0	922.0	15.0	
818	910.0	911.5	8.5	913.8	15.0	914.0	18.0	914.5	23.5	912.7	11.0	918.7	13.0	920.9	14.5	922.0	19.5	
821	911.0	911.5	6.5	913.8	13.5	914.0	16.5	914.5	22.0	912.7	7.5	918.7	9.5	920.9	11.0	922.0	14.5	
824	911.0	909.9	0.0	913.7	8.0	914.0	11.0	914.5	15.5	912.7	7.5	918.7	10.0	920.9	12.5	922.0	15.5	
825	911.0	909.9	0.0	913.7	8.0	914.0	11.0	914.5	15.5	912.7	7.5	918.7	10.0	920.9	12.5	922.0	15.5	
827	911.0	909.9	0.0	913.7	8.0	914.0	11.0	914.5	15.5	912.7	7.5	918.7	10.0	920.9	12.5	922.0	15.5	
828	911.0	909.9	0.0	913.7	8.0	914.0	11.0	914.5	15.5	912.7	7.5	918.7	10.0	920.9	12.5	922.0	15.5	
829	912.0	909.9	0.0	913.7	6.5	914.0	10.0	914.5	14.5	912.7	4.5	918.7	9.5	920.9	10.5	922.0	13.5	
830	913.0	912.5	0.0	913.7	4.5	913.9	8.5	914.5	13.0	914.6	5.0	918.7	13.5	920.9	15.0	921.9	16.5	
832	915.0	912.5	0.0	913.7	0.0	913.9	0.0	914.5	0.0	914.6	0.0	918.7	7.5	920.9	9.0	921.9	11.5	
833	915.5	912.5	0.0	913.7	0.0	913.9	0.0	914.5	0.0	914.6	0.0	918.7	7.0	920.9	8.5	921.9	11.0	
835	916.0	915.4	0.0	916.1	2.0	916.3	5.5	916.8	9.0	914.9	0.0	918.7	7.5	920.9	9.0	922.0	12.0	
836	916.0	915.4	0.0	916.1	2.0	916.3	5.5	916.8	9.0	914.9	0.0	918.7	7.5	920.9	9.0	922.0	12.0	
838	917.0	915.4	0.0	916.1	0.0	916.3	0.0	916.8	0.0	914.9	0.0	918.7	5.5	920.9	8.0	922.0	10.5	
840	908.5	915.1	12.0	915.9	19.0	916.1	21.5	916.6	30.5	913.8	13.0	918.7	19.0	921.0	21.5	922.1	31.5	

Data based on the hydraulic model that was approved by FEMA as part of the 2020 Conditional Letter of Map Revision (CLOMR), FEMA Case Number 19-08-0683R. \*Approximate Minimum Field Elevation may not represent the elevation of the entire parcel (OIN). Page 1 of 17



#### Depth, Duration, Frequency Impact Table by OIN

Locate your		_		ELEVATIONS WITHOUT DIVERSION (Existing Conditions)									
property OIN				20-Ye	ar Flood	50-Ye	ar Flood	100-Ye	ar Flood	500-Y€	ar Flood	2	
		OIN	*Approx Min Field Elevation	Max Water Surface Elevation	Approx Days Above Field Elevation	Max Water Surface Elevation	Approx Days Above Field Elevation	Max Water Surface Elevation	Approx Days Above Field Elevation	Max Water Surface Elevation	Approx Days Above Field Elevation	Ma Wat Surfa Eleva	
		23	910.0	905.5	0.0	910.7	4.5	911.7	10.0	912.5	15.0	912	
		24	909.0	905.5	0.0	910.7	7.5	911.7	12.5	912.5	17.5	912	
Follow the		27	907.0	905.5	0.0	910.7	11.5	911.7	15.5	912.5	20.5	912	
horizontal data		28	906.0	905.5	0.0	910.7	13.0	911.7	16.5	912.5	22.0	912	
nonzontal data	1	29	908.0	906.1	0.0	910.8	11.0	911.8	15.0	912.6	19.5	912	
		30	912.5	909.9	0.0	913.7	5.5	914.0	9.5	914.5	13.5	912	
		176	924.0	915.5	0.0	918.4	0.0	921.1	0.0	925.7	6.0	915	
		713	1 905.0 1	905.0	1.0	910.7	13.5	911./	17.0	917.5	23.0	912	
Example:	OIN <sup>r</sup>	176						Арр	rox Mi	n Fiel	d Eleva	ition :	= 924.0
Existing Conditions		Wate	er = 915.5 ays = 0.0	5 •	5 <mark>0 year</mark> Max Wa Approx			-	<mark>ear</mark> x Water prox Day		•	-	<b>ater =</b> 925.7 2 <b>Days =</b> 6.0



#### **Depth, Duration, Frequency Impact Table by OIN**

Locate your						ELEVATIONS WITH DIVERSION (With-Project Conditions)						
-			20-Ye	ar Flood	50-Ye	ar Flood	100-Ye	ar Flood	500-Ye	ar Flood		
property OIN	OIN	*Approx Min Field Elevation	Max Water Surface Elevation	Approx Days Above Field Elevation	Max Water Surface Elevation	Approx Days Above Field Elevation	Max Water Surface Elevation	Approx Days Above Field Elevation	Max Water Surface Elevation	Approx Days Above Field Elevation		
Follow the	23 24	910.0 909.0	912.7 912.7 912.7	9.5 11.0 12.5	918.7 918.7 918.7	10.0 10.5 11.5	920.9 920.9 920.9	11.0 12.0 13.0	922.0 922.0 922.0	14.5 15.0 17.5		
horizontal data	27 28 29	907.0 906.0 908.0	912.7 912.7	13.0 11.5	918.7 918.7	12.5 11.5	920.9 920.9	13.5 13.0	922.0 922.0	18.5 16.0		
	30 176	912.5 924.0	912.7 915.7	2.5 0.0	918.7 920.4	9.0 0.0	920.9 923.1	10.5 0.0	922.0 925.9	13.0 9.0		
xample:	OIN 176		97.7	31.5	918.7	د.اد ا ۸	Approx	Min Fi	eld Ele	evation		
· Nith-Project	20 year		50	year		1	00 year			500 yea		

- With **Conditions**
- Max Water = 915.7
  - **Approx Days =** 0.0

- Max Water = 920.4
- **Approx Days =** 0.0

#### Max Water = 923.1

- **Approx Days =** 0.0
- Max Water = 925.9
- Approx Days = 9.0



Frequently Asked Questions



# Why are my restrictions different from others going through this process?

- USACE, North Dakota, and Minnesota have different flowage easement requirements
- The Upstream Mitigation Area (UMA) has been divided into four mitigation zones

#### Will I need to clean up my land after the water recedes?

• MFDA has committed to assisting property owners with cleanup from impacts caused by Project operation



Frequently Asked Questions



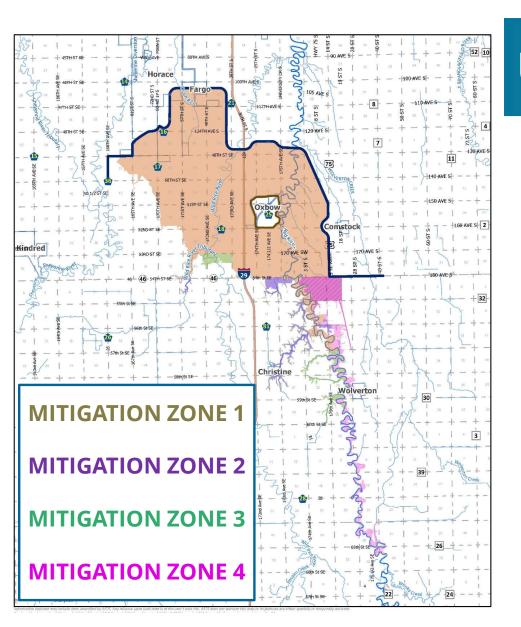
#### Can I still farm or lease my land?

- Yes, the Flowage Easement allows farming to continue
- Development will be restricted
- Landowners retain right to farm, lease the land, and install drainage

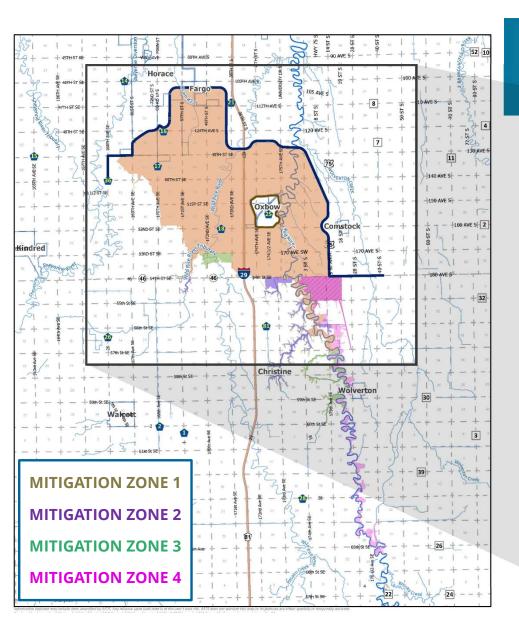
#### Will this impact my crop insurance?

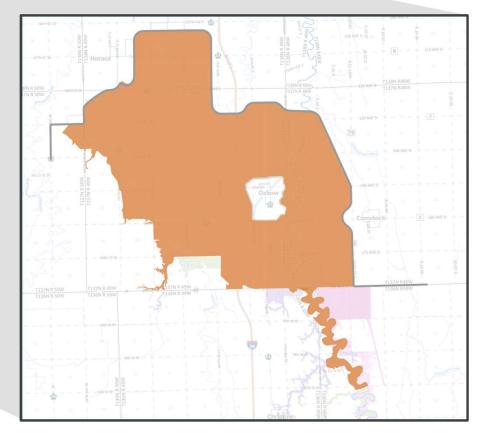
- No, ability to purchase federal crop insurance remains unchanged
- MFDA agreed to providing supplemental crop loss protections not covered by federal crop insurance

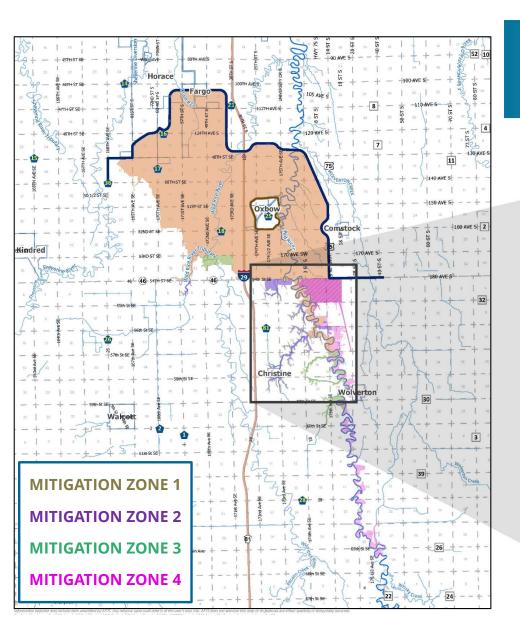
# Mitigation Zones and Impact Summary

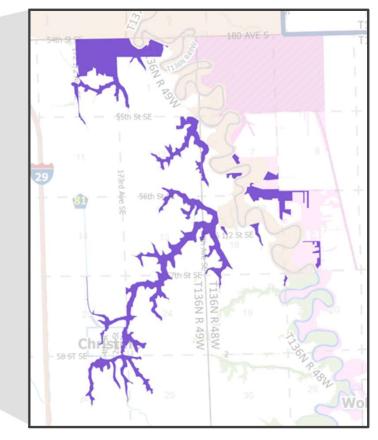


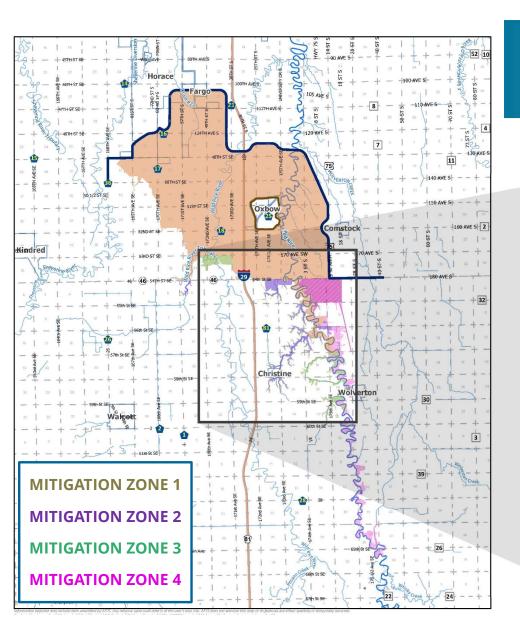
 USACE, North Dakota, and Minnesota each have different Flowage Easement requirements

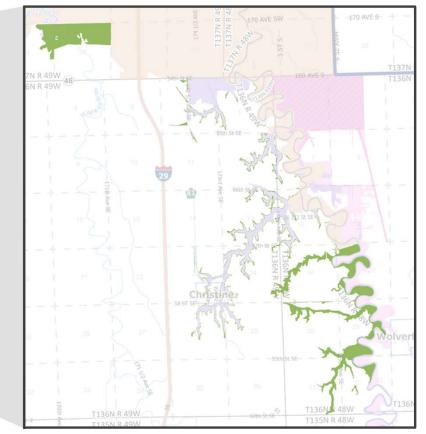


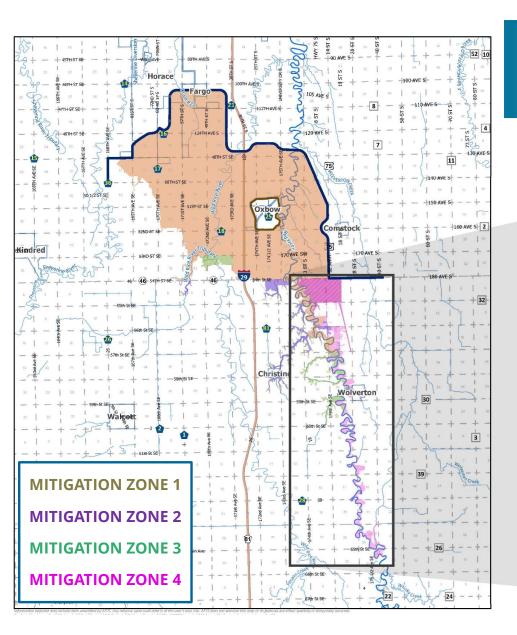


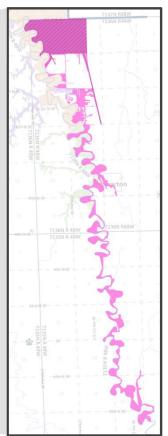




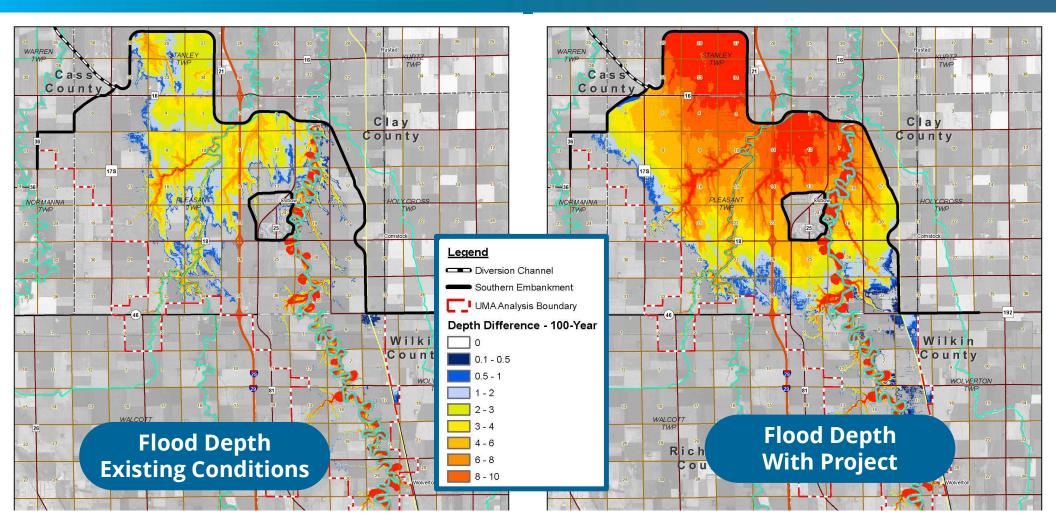




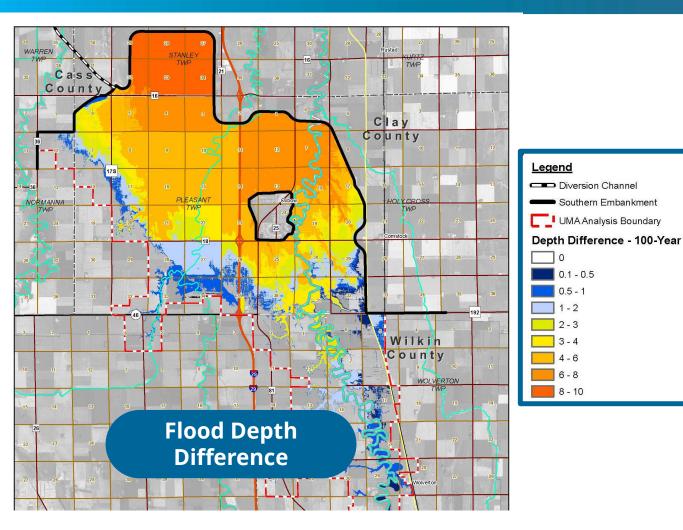




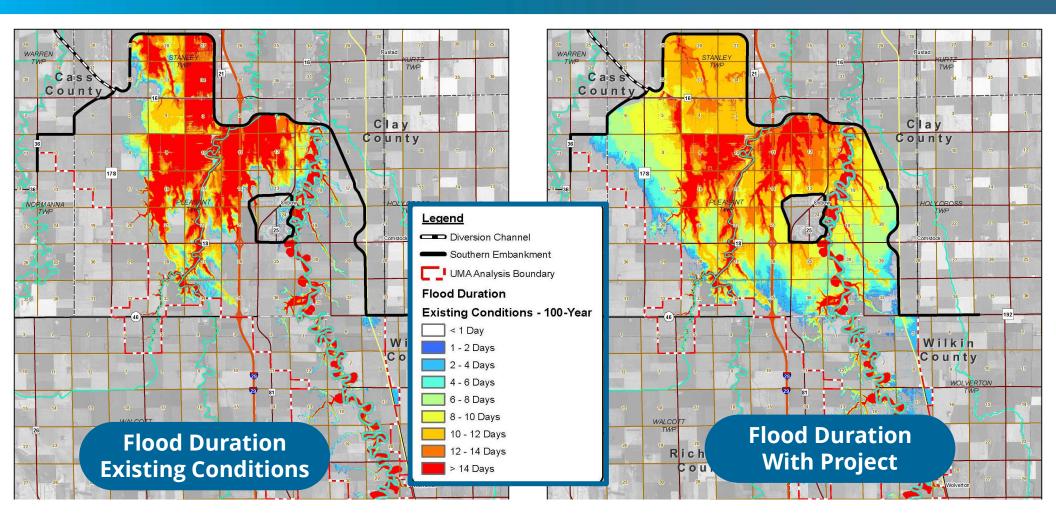




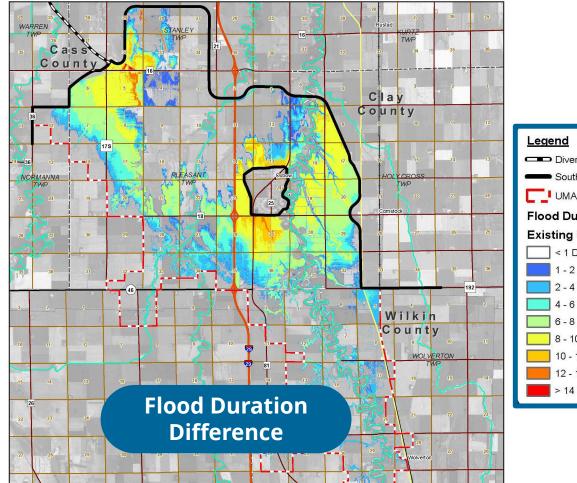


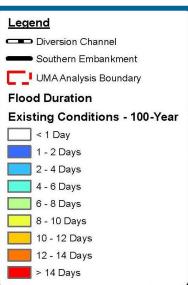












## **Appraisal Process Summary**



# Property Rights TodayProperty Rights After the ProjectImage: The propertyImage: The property<td



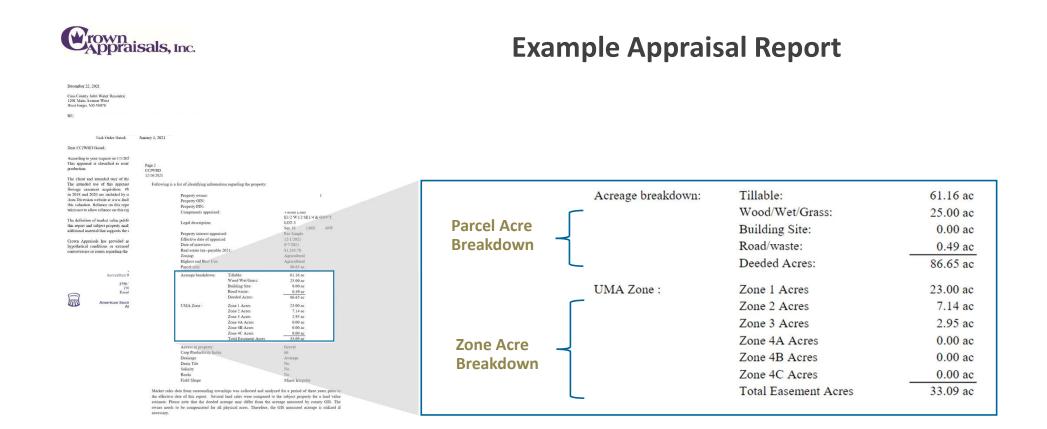


#### **Applying Findings to Farmland**

- **8% to 10% C** Loss of Development Rights (depending on Zone)
- + 7% to 30%\* < Increased Flood Risk (typical range)
- = 15% to 40% < Total Reduction in Value (percentage of Ag Land)

\*Depends on depth, duration and frequency







Flowage

Offer

**Easement** 

Amount

Subject to the contingent and limiting conditions attached to this appraisal, our final opinion of just compensation for the flowage easement acquisition on the subject real estate, as of December 1, 2021 is:

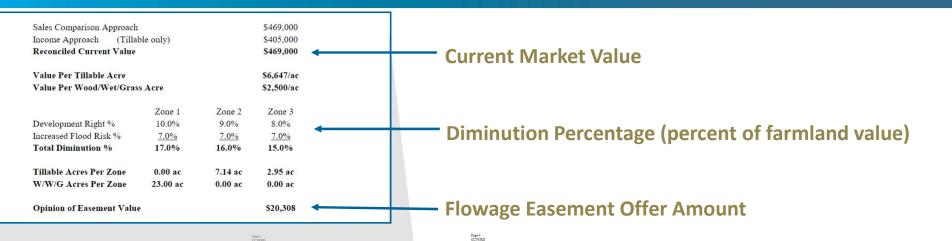
\$20,308

Brian Field, ARA, MAI

ND #: CG-21016

Appraiser License MIN #: 20586763

Sincerely,



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contingent and limiting conditions attached to this appraisal, our final opinion of just t the flowage easement acquisition on the subject real estate, as of December 1, 2021 is: COR 248

Sincerely,

ND #: CG-1050

Jeffrey L. Berg, ARA, ASA

Appraiser License #: MN 4002404;

Thank you for this opportunity to be of service.

Brin Field ARA MAI

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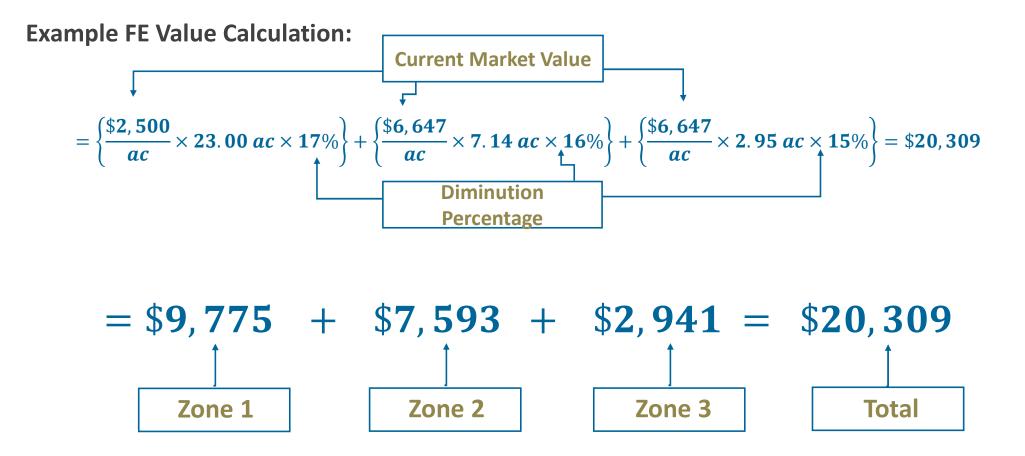
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supporting intends on the object property when the diversion papers is operated. The property ensure more more componentia for have signific . Breas or der to see Marci A. 24. How the more for diversion of equipations the import on who ambiendow to those rights. It is also important to morison that a pectice of the Ranse start and the more research process and the second start and the second start and the direct and the start and the second start and the second start and the second start and direct and a start and a start and the second start and the start and the start and direct and a start and the start and the start and the start and the start and direct and a start and the start and the start and the start and the start and direct and the start and the start and the start and the start and direct and the start and direct and the start and direct and the start and direct and the start and direct and the start and direct and the start and direct and the start and direct and the start and direct and the start and direct and the start and the st

	Sales Comparison Approach							
Income Approach (Tilla	ble enly)		\$405,000					
Reconciled Current Value			\$469,000					
Value Per Tillable Acre	Value Per Tillable Acre							
Value Per Wood Wet Gray	Value Per Wood/Wet/Grass Acre							
	Zone 1	Zear 2	Zone 3					
Development Right %	10.0%	9.0%	8.0%					
Increased Flood Risk %	7.0%	7.0%	7.0%					
Total Diminution %	17.0%	16.0%	15.0%					
Tillable Acres Per Zone	0.00 ac	7.14 ac	2.95 ac					
W/W/G Acres Per Zone	23.00 ac	0.00 sc	0.00 ac					
Opinion of Essement Valu			\$20,308					

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Mitigation Programs for Landowners and Ag Producers Programs for UMA Landowners and Ag Producers





#### THE MFDA IS COMMITTED TO EASING POTENTIAL BURDENS ON LANDOWNERS AND AGRICULTURAL PRODUCERS IN THE UMA

- All existing farmland in the Upstream Mitigation Area (UMA) remain arable and eligible for federal crop insurance
- Additional mitigation programs to further protect agricultural producers
  - Supplemental Crop Insurance Programs
  - Debris Removal after Project Operation

#### Programs for UMA Landowners and Ag Producers





#### MFDA RETAINED WATTS & ASSOCIATES (W&A)

- Develop supplemental insurance policies to compensate producers for losses
- New supplemental crop insurance policy to compensate producers for:
  - Prevented Planting
  - Summer Crop Losses as a result of operation of the Project
- W&A has begun working with a producer focus group to walk through the design process, address concerns, and customize the design

#### Programs for UMA Landowners and Ag Producers





#### **POLICY MATERIALS ARE IN DEVELOPMENT**

- Project is not expected to be fully operational until the 2027 crop year
- Policy materials are in development now and will be made available to producers in draft form by the end of the 2022 crop season
- It is important for farmers to understand that crop risk is dynamic





#### **PREVENT-PLANT CROP INSURANCE PROGRAM**

- Will apply if, due to operation of the Project, producers are unable to plant crops by the established late-planting dates set by federal crop insurance
- Reimburse at the same coverage level that producers purchased through federal crop insurance
- Will be provided at no cost to producers
- Ensure producers' Actual Production History (APH) yield is not adversely affected by a reduced yield caused by Project operation





#### **GROWING SEASON SUPPLEMENTAL CROP LOSS PROGRAM**

• During the growing season when the Project operates this will cover 100 percent of resulting crop loss for any crop type





#### **ELIGIBILITY FOR CROP PROGRAMS**

- Producers in the Upstream Mitigation Area (UMA) must be growing agricultural crops and participating in federal crop insurance prior to any losses
- To participate in these programs, growers will work through their crop insurance agent to signup via a no-cost rider made available by the MFDA





#### **DEVELOPMENT PROCESS**

- How will farmers enroll each year?
- How are farmers determined?
- How much are premiums and who pays them?
- How will claims function?
- When to farmers get indemnified and who is the payee?
- How are disputes addressed and what recourse exists?



#### **COVERAGE SCOPE EXAMPLES**

#### Who Pays (MPCI, Supplemental Coverage, Someone Else)?

<ul> <li>Torrential sleet and a biblical-scale downpour destroys crops after</li></ul>	Regular Crop
they have emerged.	Insurance
<ul> <li>Crop land is submerged throughout the planting season, the</li></ul>	Supplemental
diversion gates are closed through the final planting dates.	Crop Insurance
<ul> <li>Crop land is submerged throughout the planting season, the diversion gates are never closed.</li> </ul>	Regular Crop Insurance
<ul> <li>There is an early spring flood and gates are closed. Water recedes and the crop is planted about two weeks later than it would be in a typical year. The crop is about 10% less than average.</li> </ul>	Supplemental Crop Insurance



#### POST-OPERATION DEBRIS REMOVAL AND PROPERTY DAMAGE RESTORATION AND CLEANUP PLAN

- For private lands defines cleanup boundaries based on flood event, notify property owners, MFDA will retain contractors to implement the program
- **On public lands** mirrors FEMA's disaster assistance, allow government entities to contract for repair and cleanup

ADDITIONAL MITIGATION PROGRAM INFORMATION Please contact your land agent and visit www.FMDiversion.gov/Lands for additional details





#### **ALTERNATIVE DISPUTE RESOLUTION BOARD**

- The Alternative Dispute Resolution Board was created as an independent board
- Hears claims against the MFDA if real property was damaged by operation of the Project
- Modeled after a process created by the North Dakota Department of Water Resources for the Devils Lake outlet Project

## Next Steps

### Flowage Easement Appraisal Process







# Project Website Additional Information

Project Website



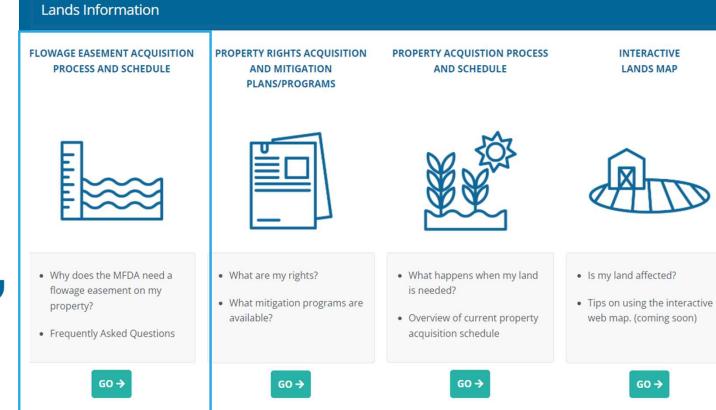
# Additional information is found on the website

# www.fmdiversion.gov/lands

## Project Website



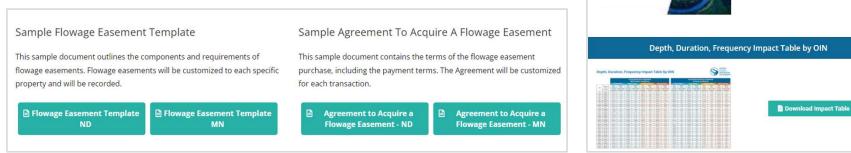




### Project Website

Within the Flowage Easement page, you'll find information regarding:

- Acquisition Process and Schedule
- Upstream Mitigation Area Maps
- Land Agents
- Frequently Asked Questions
- Background Information and Development



#### Additional downloadable information:



Download Presentation Slides

Download Presentation Slides

Flowage Easement Appraisal Process

**Flowage Easement Valuation Presentation** 

FLOOD

Appraisal Process

Flowage East

Valuation Presentatio

### **Contact Information**

## Land Agent Contact Info



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## Questions / Discussion