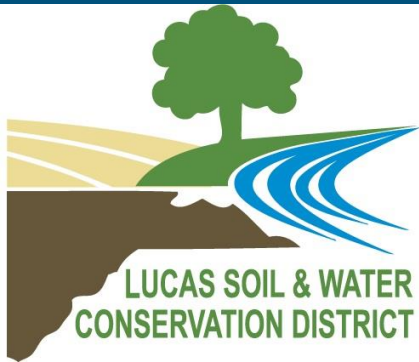


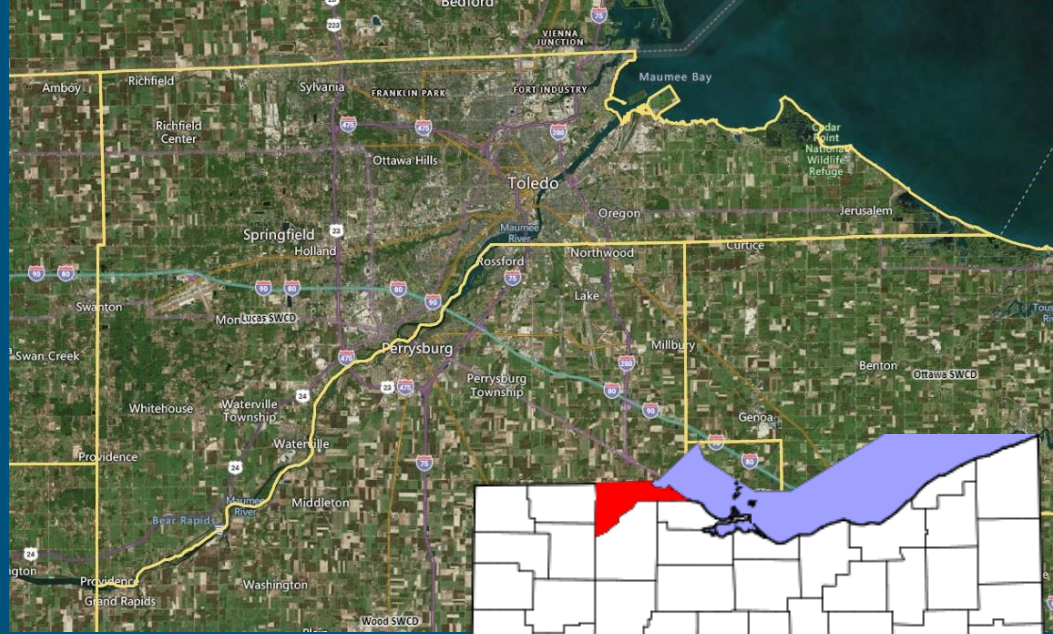
H2Ohio in Lucas County

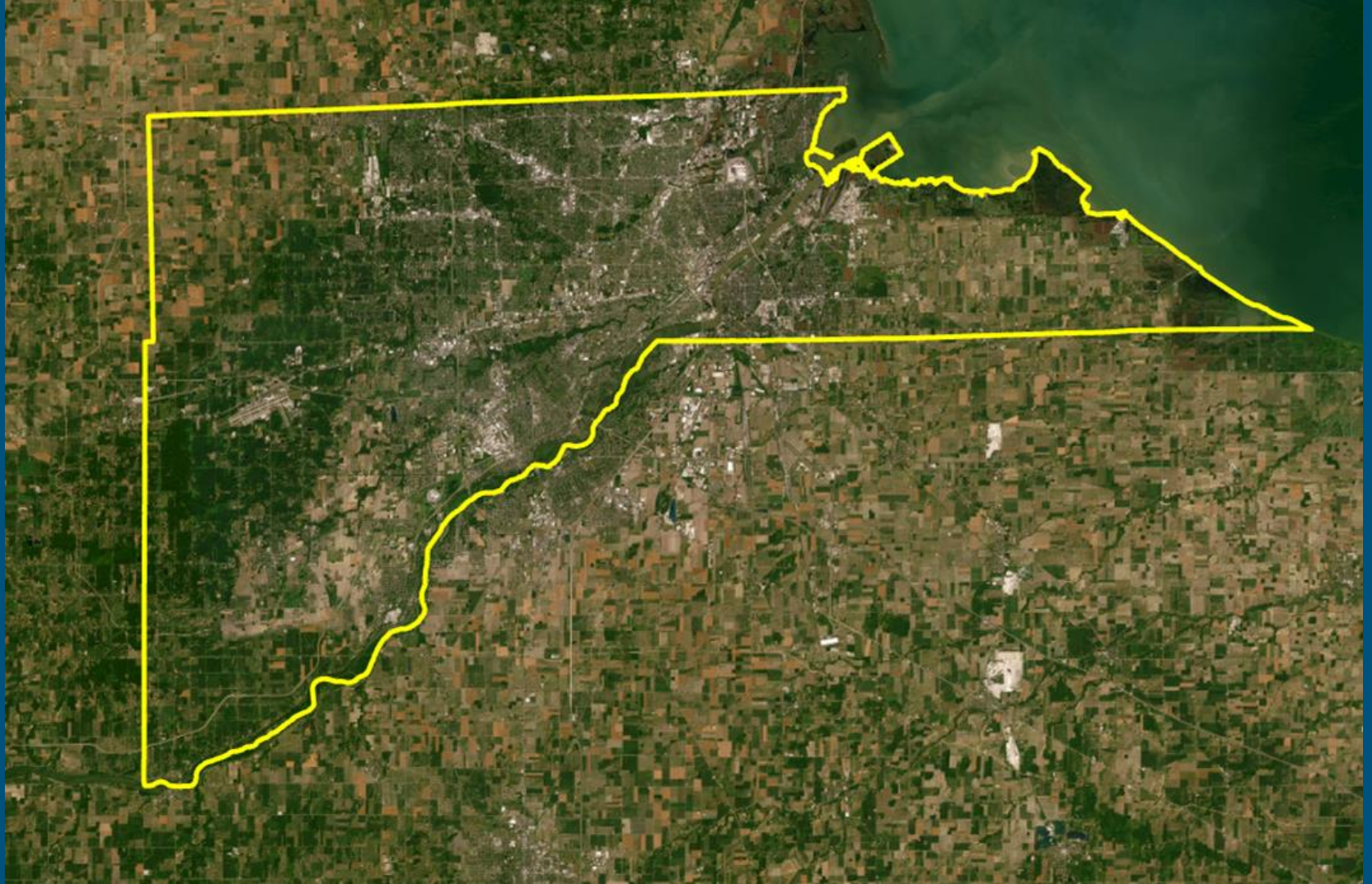
Matthew Browne
H2Ohio Technician
Lucas Soil & Water Conservation District



Lucas County, Ohio

- Population: 432,000
 - 6th largest county in Ohio
- Total Land Area: 340 sq mi
 - 4th smallest county in Ohio
- Approximately 30% of the land area is agriculture.







TOXIC IN TOLEDO

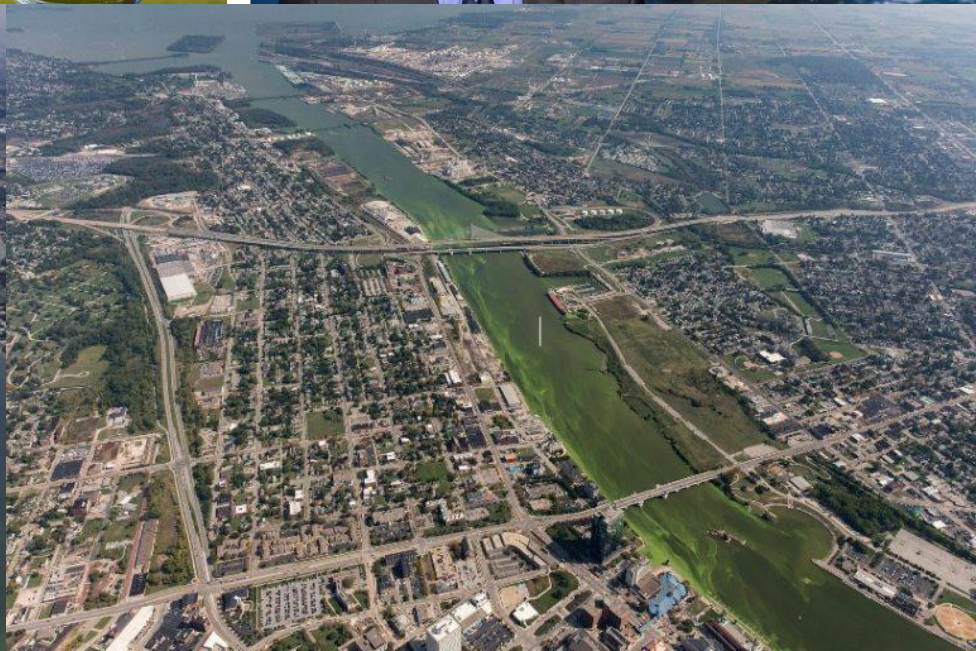
400,000 WITHOUT DRINKING WATER

abc NEWS
com
#ABWorldNews



Toledo's Water Crisis: 'This Is Not Over Yet'

Toxins from an algae bloom in Toledo's water source, Lake Erie, triggered a weekend-long crisis Saturday morning.



H2Ohio -How It Started

- Proposed by the Dewine Administration and approved by the Ohio General Assembly in 2019.
- H2Ohio Phosphorus Reduction Program Rollout Meeting for SWCDs in Maumee Watershed on Jan. 29th 2020.
- Public meeting hosted by Lucas & Wood SWCDs on Feb. 4th 2020 had 300+ attendees.
- Many attending farmers left contact info to set up meetings to learn more and/or sign-up for H2Ohio. Sign-up period gets extended.



- Sign-up period gets shortened.
- Rush to get contracts completed.
- Eventually contracts have to get redone to account for shortened program length.

SWCD Work-flow

- Meeting with Producer to review applicable practices.
- Producer signs program application form & submits documents for Nutrient Management Plan creation or review.
 - Soil Tests, Crop Rotations, Yield Averages, Field Maps, etc.
 - CNMP or NMP created by NRCS or 4R retailer are acceptable.
- NMP gets created or reviewed by SWCD staff.

Producer Name	DEVELOP NMP	Follow NMP	Variable Rate Fertilizer	Substitution Nutrient Placement	Manure Income + Poultry	Manure Income - Other	Crop Rotation - All	Crop Rotation - Small	Crop Rotation - Forage	Overseer Cover Crop	DNR 600 Man	DNR 600 Man	DNR 600 Man
Brown's	2	3	1	1	1	1	1	1	1	1	1	1	1
Doc's & Goulets	7	2	1	1	1	1	1	1	1	1	1	1	1
Earl Courdons	9	2	1	1	1	1	1	1	1	1	1	1	1
W's CP & Bolew	4	2	1	1	1	1	1	1	1	1	1	1	1
Al Mathre	3	2	1	1	1	1	1	1	1	1	1	1	1
Elston E	3	2	1	1	1	1	1	1	1	1	1	1	1

Ohio Voluntary Nutrient Management Plan

Name: Joe Box Phone: _____

Field Name: Mary Location: _____

FSA Farm #: 1365 FSA Tract #: 1266 Field Size: 9.0 Ac.

Soil Test Results

Soil Test Date	LN/P/K	Soil Test Units	ppm	Soil Test Phosphorus Method	Bray P1
Great Lakes Lab	P	K	CEC	Soil Test Comments	
	28	224	3.2		

Crop Rotation, Yield, & Removal/Recommendation

Year	Crop	Average Yield	n*	P ₂ O ₅	K ₂ O
2021	Wheat	90 Bu	110	57	0
2022	Corn	200 Bu	245	74	0
2023	Corn	200 Bu	245	74	0
2024			0	0	0

Nutrient Application Plan


Target Crop	Source	Rate - Pounds Recommended per Acre	Time	Plan
Wheat	6-20-20	1.5	150 lbs	0
Corn	6-20-20	1.5	150 lbs	0

Custom Fertilizer

Year	Fertilizer	2021	2022	2023	2024	Units				
N	P	K	Units	28-0-0	1.670	0	0	0	0	0
S	20	28	Units	4-20-20	1.100	0	0	0	0	0

SWCD Work-flow

- Board Approves Application and Nutrient Management Plan.
 - VNMP Development payment can be made.
- ODA/SWCD create project in Beehive.
- Producer goes forward with farming and practice implementation.

PROGRAM APPLICATION FORM 

Producer Contact Name: Lonnie Perry

Entity Name: Lonnie Perry Farms Ltd.

(If producer wants payment to go to Farm or Entity)

Address: 8636 Yawberg Road

City: Whitehouse State: OH Zip: 43571

Phone: (419) 466-9157 Email: lperry8400@gmail.com

Tax ID Number: _____ Date: _____

Location of Farm Headquarters - Latitude: 41.484440 Longitude: -83.843140

Soil & Water Conservation District: Lucas

Please indicate if you are one of the following:
 SWCD Staff* SWCD Board Member * ODA Staff

* SWCD staff and SWCD board member applications must be submitted to The ODA Division of Soil and Water Conservation at: 2222 East 22nd Ave or 16 525EC, RR# 1, Allen Street, Reynoldsburg, Ohio 43084

Voluntary Nutrient Management Plan Development: \$2,000/Ac. 1,147.2 Acres **\$ 2,294.40**

Nutrient management plan development is a one-time payment and must be approved prior to any other practices.

Practice	2021		2022		2023	
	Acres/Day	Dollars	Acres/Day	Dollars	Acres/Day	Dollars
1. Voluntary Nutrient Management Plan Implementation	1,147.2	\$ 2,294.40	1,147.2	\$ 2,294.40	1,147.2	\$ 2,294.40
2. Variable Rate Phosphorus Application - SR 200ac	700.0	\$ 8,100.00	800.0	\$ 9,600.00	500.0	\$ 6,000.00
3. Nutrient Phosphorus Payment - SR 200ac	700.0	\$ 8,100.00	800.0	\$ 9,600.00	500.0	\$ 6,000.00
4a. Manure Incorporation - Hefty 100ac - \$5.00/Ac						
4b. Manure Incorporation - All other manure 200.00/Ac						
5a. Conservation Crop Rotation - Corn Soybeans 200.00/Ac						
5b. Conservation Crop Rotation - Forage 200.00/Ac						
6. Overwintering Cover Crops - 200.00/Ac						
7. Changing Water Management - 400.00/Ac - \$1,500/acre						
8. Changing Water Management - 400.00/Ac - \$4,500/acre						
Annual Total		\$ 2,294.40				
Yearly Total \$		\$ 33,680.20		\$ 26,362.60		\$ 21,481.60

1. Pending additional program funds.

Revised - 2020-06-09

[Save Form](#) [Print Form](#) [Clear Form](#)

H2Ohio - Ronau Farms LLC Lucas SWCD Project

Technical Properties Documents

Identification

Name: H2Ohio - Ronau Farms LLC

Project Description: H2Ohio Phosphorus Reduction Program project for brothers Doug & Doyle Ronau.

Project Type: Technical

Status: Open

Project Category: Cropland

Initiative Type:

Program Type: H2Ohio

Certification: OACI Certification

Details

Start Date: 08/10/2020

Note: 4/25/23 - Board approved Assignment of Payment form.
4/4/23 - Doug came to the office to complete the Assignment of Payment and a new W-9.
4/3/23 - Doug called and asked about changing payment of H2Ohio practices to a new family LLC. Went over the logistics and required paperwork, then set up a meeting.

Grant

Grant Funds: \$ 0.00

Grant:

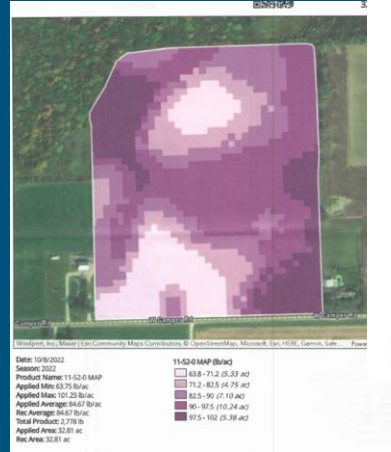
[Save](#) [Cancel](#) [Delete](#)

Date	Status	Event Type	Name
3/15/2023	Completed	Cropland Management	H2Ohio-6- Overwintering Cover Crop
3/15/2023	Completed	Cropland Management	H2Ohio-4- Manure Incorpor. - All Other
3/15/2023	Completed	Cropland Management	H2Ohio-5a- Cons. Crop Rota. - S. Grain
3/15/2023	Completed	Cropland Management	H2Ohio-5b- Cons. Crop Rota. - Forage
4/28/2022	Completed	Cropland Management	H2Ohio-1- VNMP Implementation
4/28/2022	Completed	Cropland Management	H2Ohio-2- VRT Phosphorus Application
3/15/2023	Completed	Cropland Management	H2Ohio-5- Cons. Crop Rota. - S. Grain

1506/27704

SWCD Work-flow

- Upon completion of a practice, the farmer submits relevant documentation to SWCD.
- SWCD completes field checks as applicable.
- SWCD reviews documentation and verifies practice is completed to H2Ohio specifications.



Donna Box: Pollock-West Drive 2345 200 Acres Corn

Date of application	Rate & acres of application	Farmer contact and email address	Name of applicator	Name of Company/Tractor	Soil conditions at time of application	Application method	Weather conditions, temp, precipitation at time of application	Weather forecast for next 12 to 24 hours	Was the ground frozen or too wet for application (circle)
5.11.22	159 lbs 20.0	17-13-0 B18028a	DOUG BOY	JOE BOY	DRY	INJECT SPLIT PLANTED	85° DRY		NO
6.1.22	107 lbs 20.0	32-0-0 214028a	JOE BOY	JOE BOY	DRY	INJECT	87° DRY		NO
5.11.22	214 lbs 20.0	32-0-0 125050a	DANA FRANK FRANKS	DANA FRANK FRANKS	DRY	SPRAY	88° DRY		NO



H2Ohio PRODUCER VERIFICATION CHECKLIST

Nutrient Management Plan - Implementation

Producer Name: _____

Comprehensive nutrient management plan

Checklist	Completed
Complete nutrient application records provided to SWCD	
Nutrient application records consistent with Nutrient Management Plan	
- Crop rotation	
- Crop yield	
- Nutrient sources and analysis	
- Application location, methods, rates, and timing	

Verifications from written plan? Yes No

If Yes, are changes consistent with H2Ohio guidelines? Yes No

Crop Year: _____

Acres Completed: _____

Nutrient Management Plan Expiration: _____

I hereby state that I have completed this verification form accurately to the best of my knowledge and that I have provided supporting documentation to show that all items above have been completed. I understand the terms and conditions contained herein and have authority to sign this verification.

Producer Initial: _____ Date: _____

SWCD Initial: _____

SWCD Date: _____

Asset Search: %h2ohio

H2Ohio - Douglas L. Box Technical

Lucas SWCD Project

Properties Documents

Identification Details

Name: H2Ohio - Douglas L. Box Start Date: 08/04/2020

H2Ohio - Douglas L. Box Technical

Cropland Management

H2Ohio-1- VNMP Implementation

Summary

Name: H2Ohio-1- VNMP Implementation

BMP Name: H2Ohio-1- VNMP Implementation

Assigned To: Matthew Browne

Status: Completed Installed Date: 09/12/2022

Note: Check #001033

APOW Goal Override

Details

Map Indicators Contacts Documents

Cost Share	Location
Crop Year: 2022	Actual Instances:
Instances Enrolled:	Actual Acres: 72.00
Acres Enrolled: 96.1	Actual Feet:
Feet Enrolled:	Township: Providence
Cost Share Enrollment Date: 08/04/2020	State Senate District: 11
Cost Share Amount Appropriated: \$ 192.20	State House District: 42
Cost Share Amount Paid: \$ 144.00	Watershed (HUC8): 04100009
Cost Share Payment Date: 10/26/2022	Watershed (HUC10): 0410000908
Cost Share Paid: <input checked="" type="checkbox"/>	Watershed (HUC12): 041000090802
Technical Assistance Amount Paid: \$ 0.00	

Save Cancel Delete Print

- Query Menu**
- Assets
 - Education Events
 - Pollution Complaints
 - Technical Events**
 - All BMP Events
 - All BMP Events (YTD)
 - BMP Indicators
 - H2Ohio Agreements
 - Cropland Management**
 - Drainage Design & Construction
 - Livestock Manure Management
 - Pasture/Forage Management
 - Pollution Investigation/Resolution
 - Rural - Erosion & Stormwater
 - SWCD Services
 - Urban - Erosion & Stormwater
 - Wildlife Damage & Nuisance
 - Floodplain Management
 - Drainage Maintenance
 - Mining & Reclamation
 - Wildlife Habitat Assistance
 - Woodland Management
- Query Menu
- Query Layout

Technical Events > Cropland Management

276 Rows Clear Filters Excel Export Σ Totals

Drag here to set row groups

District	Project	Project Status	Program Ty...	Certification	Name	Status	AssignedTo	Installed Date	BMI
Lucas SWCD	H2Ohio - Joseph Box	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	03/23/2021	
Lucas SWCD	H2Ohio - Sander Farms LLC	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	10/27/2020	
Lucas SWCD	H2Ohio - Luke Ryan	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	04/19/2021	
Lucas SWCD	H2Ohio - Mark Langenderfer	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	01/29/2021	
Lucas SWCD	H2Ohio - Keith Hannewald	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	01/29/2021	
Lucas SWCD	H2Ohio - Douglas L. Box	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	03/23/2021	
Lucas SWCD	H2Ohio - Donna Box	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	03/23/2021	
Lucas SWCD	H2Ohio - Toledo Alfalfa Mills Inc	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	02/23/2021	
Lucas SWCD	H2Ohio - Michael Hannewald	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	01/29/2021	
Lucas SWCD	H2Ohio - HD Grain Farms LLC	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	04/19/2021	
Lucas SWCD	H2Ohio - Chris Weimer	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	04/19/2021	
Lucas SWCD	H2Ohio - William Ryan	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	03/23/2021	
Lucas SWCD	H2Ohio - Ronau Farms LLC	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	06/22/2021	
Lucas SWCD	H2Ohio - Mark Ryan	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	03/23/2021	
Lucas SWCD	H2Ohio - Fritschfield Farms LLC	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	09/16/2020	
Lucas SWCD	H2Ohio - Beth Bench	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	04/27/2021	
Lucas SWCD	H2Ohio - Lonnie Perry Farms Ltd.	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	04/19/2021	
Lucas SWCD	H2Ohio - WRJ Myers Farms LLC	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	07/30/2021	
Lucas SWCD	H2Ohio - Loeffler Farms	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	DSWC	03/19/2021	
Lucas SWCD	H2Ohio - David Barber	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	12/15/2020	
Lucas SWCD	H2Ohio - Loeffler Farms	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	DSWC	01/04/2023	
Lucas SWCD	H2Ohio - Arik Bench Family Farms LLC	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Development	Completed	Matthew Browne	04/27/2021	
Lucas SWCD	H2Ohio - Donna Box	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Implementation	Pending	Matthew Browne		
Lucas SWCD	H2Ohio - Chris Weimer	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Implementation	Completed	Matthew Browne	05/31/2022	
Lucas SWCD	H2Ohio - Arik Bench Family Farms LLC	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Implementation	Completed	Matthew Browne	06/03/2022	
Lucas SWCD	H2Ohio - WRJ Myers Farms LLC	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Implementation	Completed	Matthew Browne	03/15/2023	
Lucas SWCD	H2Ohio - WRJ Myers Farms LLC	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Implementation	Pending			
Lucas SWCD	H2Ohio - Joseph Box	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Implementation	Completed	Matthew Browne	09/12/2022	
Lucas SWCD	H2Ohio - Fritschfield Farms LLC	Open	H2Ohio	OACI Certification	H2Ohio-1- VNMP Implementation	Completed	Matthew Browne	08/05/2022	



^ District Summaries

Annual Report

Voucher - Itemized Summary

Voucher - Summary

^ Employee Summaries

Employee Timesheet

Employee Timesheet Comments

Asset

Map

Timesheet

Leave

Query

Reports

SWCD District: Begin Date: End Date: Program Type:

Crop Year: Project: Certification:

Navigation: < 1 of 1 > Refresh 100% Print Find | Next



H2Ohio Program

Lucas SWCD- Itemized Voucher Summary

5/17/2023

Total Funds Requested all Projects: **\$5,598.80** Total # of BMPs: **2**

Total # of Projects: **1**

Verified by: _____

Reviewed & Approved by: _____

SWCD or ODA - OSWC Tech. Representative Signature

SWCD Board Rep. or ODA-OSWC Authorized Signature

If the "Voucher - Itemized Summary" is used in conjunction with and to document approval of ACH payments to participants, two SWCD Board or Staff members with signing authority on the H2Ohio Cost-share Account must sign the Voucher in lieu of the two-signature requirement on the check.

Project Name	BMP Name	Installed Date	# of BMPs	Actual Ac/Ft/Inst	Unit	Producer Payment	Crop Year
H2Ohio - John Gradel & Sons Farms Inc	H2Ohio-1- VNMP Implementation	4/25/2022	1	1,175.40	Acre	\$2,350.80	2022
	H2Ohio-2- VRT Phosphorus Application	4/25/2022	1	406.00	Acre	\$3,248.00	2022
			2			\$5,598.80	

SWCD Work-flow

- SWCD staff enters necessary information into Beehive.
- SWCD staff prepares payment voucher for Board approval.
- SWCD Board approves payment.
- Payment is sent to Producer.



H2Ohio Program

Lucas SWCD - Itemized Voucher Summary

4/21/2023

Total Funds Requested all Projects: **\$53,486.20** Total # of Projects: **8** Total # of BMPs: **26**

Verified by: Matthew Brown
SWCD - SWCD - SWCD Tech. Representative Signature

Reviewed & Approved by: Kevin Z. Jones
SWCD Board Rep. or SWCD Board Member Signature

(The "Producer" - Itemized Summary" is used in conjunction with and to document approval of ACP payments to participants, not SWCD Board or SWCD members with agency authority on the H2Ohio Cost Share Account must sign the Voucher in lieu of the two signatures requirement on the check.

Project Name	BMP Name	Installed Date	# of BMPs	Actual Ac/Ft/Inst	Unit	Producer Payment	Crop Year
H2Ohio - Arik Bench Family Farms LLC	H2Ohio-1- VNMP Implementation	6/3/2022	1	472.00	Acre	\$944.00	2022
	H2Ohio-5b- Cons. Crop Rota. - Forage	3/15/2023	1	72.00	Acre	\$2,520.00	2022
	H2Ohio-6- Overwintering Cover Crop	3/15/2023	1	398.60	Acre	\$9,965.00	2022
			3			\$13,429.00	
H2Ohio - Beth Bench	H2Ohio-1- VNMP Implementation	12/31/2022	1	79.00	Acre	\$158.00	2022
			1			\$158.00	
H2Ohio - David Barber	H2Ohio-1- VNMP Implementation	5/5/2022	1	55.00	Acre	\$110.00	2022
	H2Ohio-5a- Cons. Crop Rota. - S. Grain	3/15/2023	1	20.00	Acre	\$700.00	2022
				2			\$810.00
H2Ohio - Keith Hannewald	H2Ohio-1- VNMP Implementation	6/3/2022	1	877.30	Acre	\$1,754.60	2022
	H2Ohio-2- VRT Phosphorus Application	6/3/2022	1	212.40	Acre	\$1,699.20	2022
	H2Ohio-3- Subsurface Phosphorus Place	6/3/2022	1	23.40	Acre	\$702.00	2022

Financial Process - H2Ohio Funds

\$300,000 in personnel funds were originally given to districts for 5 years.


- Each year, \$60,000 is transferred from the District Fund to the Special Fund to help cover the H2Ohio employee's payroll costs, benefits, trainings, and supplies.
- When the funds run out for the year, the remaining costs are paid by other funds in the Special Fund.

Financial Process - H2Ohio Funds

A separate Bank is used for the lump funds that were received for producer payments for H2Ohio.

- Checks and mailing supplies are paid for out of that account as well.
- Interest accrues in the account, which can be taken out and used for other SWCD business.

Reporting is completed semi-annually and sent to ODA for their records and reporting requirements.

 **H2Ohio Maumee Watershed Staffing - SWCD Semi-annual Report**

This report documents activity and fiscal status relative to the \$300,000 Subsidy provided to your SWCD for H2Ohio Staffing Assistance, July 2020 to June 2023

SWCD Lucas REPORT PERIOD July 1, 2021 through December 31, 2021

A. Program Staffing – staffing changes adopted to implement and/or administer the H2Ohio program since July 2021.
-No changes.

B. Education and Outreach

1. List types of outreach/education activities the District completed to promote H2Ohio program since July 2021.
-H2Ohio Extension Meeting - The Lucas SWCD staff hosted an in-person public meeting on November 10th, 2021 with a total of 5 participants.
-Ottawa River Watershed Talk - December 15th, 2021 virtual event hosted by the Nature Conservancy where Lucas SWCD was able to discuss H2Ohio and other conservation programs with 14 total participants.
-Fliers/Ads/Articles shared and posted in local newspapers.
-Phone calls, and emails to producers to encourage sign-up for new enrollment period

2. List materials produced and distributed to promote H2Ohio program
-Fliers/handouts for Extension Meeting
-Blurbs/Articles for newspapers.
-Videos for Ottawa River Watershed Talk

3. Number of meetings hosted (including online Meetings) 1

4. Number of one-on-one producer contacts (including virtual) 12

C. Implementation (Cumulative for Second Sign-up)

1. Number of Applications Received (Second Sign-up) 0

2. Number of Agreements Approved & Signed by the Board/OSWC 0

3. Number of VNMPs reviewed and approved 1

D. Fiscal Administration

1. Complete the following table entering funds paid out from \$300,000 by category:

Beginning Balance (as of July 1, 2021):	\$
Revenue	
Additional Funds Received	\$
Expenses	
Wages:	\$
Fringe Benefits:	\$
Equipment & Supplies:	\$
Travel:	\$
Employee Training:	\$
Other:	\$
End Balance (as of December 31, 2021):	\$

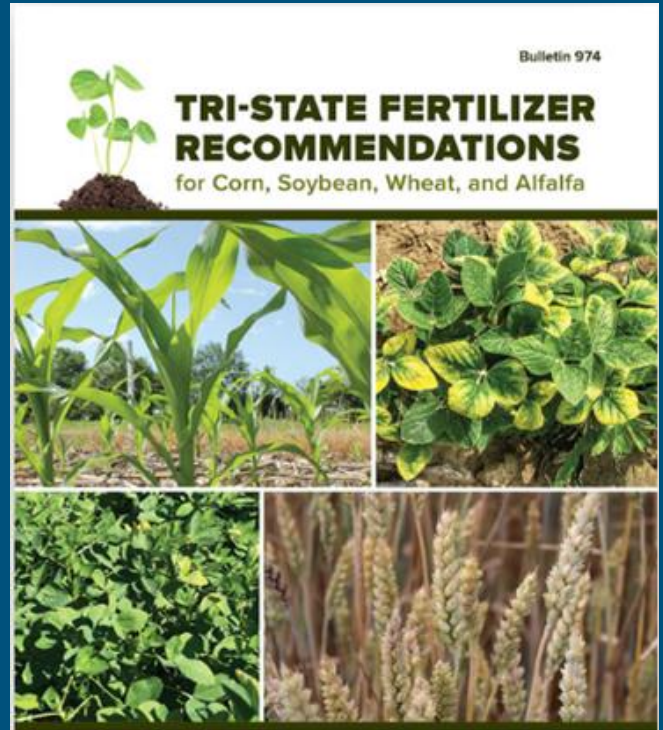
2. Attach a financial summary using the SWCD fiscal management software as a separate document.

Report Prepared by: _____ Date 11/1/21

Name Matthew Browne _____

Voluntary Nutrient Management Plans

- Soil Tests (Less than 4 years old)
- Tri-State Fertility Recommendations
- OVNMP Spreadsheet Tool



Owner: Wj Myers Farms LLC (WF)
Field: A1 Machin Farm
Sample Date: 3/25/22
Season: 2022
Sample Depth: 6 in
Field Area: 29.90 ac

Field Summary		1	2	3	4	5	6	7	8	9	10		
Min	Avg	Max											
pH	5.90	6.42	6.80	6.30	6.20	6.70	6.40	6.90	6.50	6.80	6.20	6.60	
P (ppm)	16.0	23.9	65.0	16.0	32.0	32.0	30.0	30.0	31.0	65.0	29.0	29.0	
K (ppm)	212	244	286	232	231	212	270	232	277	286	223	248	
pH Buffer	6.70	6.83	7.20	6.70	6.80	6.90	6.80	6.80	6.80	7.20	6.70	6.90	
CEC (meq/100g)	17.7	22.3	24.0	23.1	30.7	21.6	23.4	22.6	23.6	22.5	17.7	24.9	25.3
CN (%)	3.80	4.49	5.10	4.50	3.80	4.20	4.60	4.70	5.10	5.10	3.90	4.60	4.40
Ca (ppm)	2,198	3,135	3,415	2,941	2,898	3,387	3,345	3,211	3,415	3,202	2,196	3,301	3,317
Mg (ppm)	305	439	583	510	382	387	428	422	412	583	305	501	496
S (ppm)	13.0	15.3	21.0	13.0	14.0	15.0	15.0	13.0	14.0	21.0	14.0	15.0	14.0
Zn (ppm)	2.10	2.39	2.40	2.20	2.50	2.30	2.50	2.10	2.50	2.40	2.40	2.40	2.30
Mn (ppm)	7.00	13.8	39.0	39.0	14.0	15.0	9.0	7.0	7.0	11.0	13.0	11.0	12.0
B (ppm)	0.50	0.95	1.40	0.80	0.70	0.90	1.10	1.00	1.20	1.40	0.50	0.90	1.00
Cu (ppm)	3.40	4.92	6.20	3.60	4.40	5.00	6.30	6.00	6.20	5.70	3.40	5.40	5.90
Fe (ppm)	171	253	337	171	227	225	337	292	311	186	317	296	296
K (%)	2.40	2.83	3.30	2.80	2.90	2.50	3.00	2.80	3.00	3.30	2.40	2.80	
Ca (%)	62.1	70.1	77.2	63.5	70.1	77.2	71.6	71.1	72.3	72.6	62.1	66.3	74.4
Mg (%)	14.4	16.4	21.6	16.4	15.1	14.8	18.2	15.6	14.5	21.6	14.4	16.9	17.4
H (%)	2.50	16.8	20.3	15.8	11.8	5.3	10.3	10.8	10.2	2.8	26.3	14.5	6.4
PO ₄	7.27	14.1	27.1	7.3	12.3	13.9	15.6	14.3	15.8	11.9	27.1	12.1	12.8
Ca %K%	19.4	25.0	30.9	24.4	24.2	30.9	23.7	23.7	24.1	22.0	19.4	27.6	28.8
Ca %Mg %	3.36	4.34	5.22	3.45	4.51	5.22	4.71	4.56	4.99	3.36	4.31	5.91	4.28

Ohio Voluntary Nutrient Management Plan - Tri-State 2020

Name		Phone	
Field Information			
Field Name	Field Location		
FSA Farm #	FSA Tract #	Field Size	Ac
Soil Test Results			
Soil Test Date	Soil Test Lab	Soil Test Method	Soil Test Comments
Crop Rotation, Yield, & Removal/Recommendation			
Year	Crop	Average Yield	Removal / Recommendation
Nutrient Application Plan			
Target Crop	Source	Rate - Pounds Recommended per Acre	Time
Custom Fertilizer			
N	P	K	Units
Fertilizer Summary			
N	P	K	Units
Other			

VNMPs

Reviewing a Voluntary Nutrient Management Plan

Max Soil Test Level H2Ohio			
P1 PPM	P1 LB	M3 PPM	M3 LB
50	100	70	140

- Sample or Test Date:** It is important that we are reviewing the date of when the sample was taken.
- Phosphorus Level:** Either labeled Phosphorus, P, or P1. If soil tests are over 40 ppm or 80 lbs/A there should be a 0 for recommendations for application. (Wheat/Alfalfa in rotation then 50ppm/100 lbs/A).
- Acres:** Take note of the amount of acres that represent each soil sample. Some may have a corresponding map of

Table 12. Recommended Mehlich-3 Soil Test Phosphorus and Potassium Levels (Critical Level and Maintenance Limit) for Field Crops in the Tri-State Region

Crop	Mehlich-3 Phosphorus Maintenance Range	Mehlich-3 Potassium Maintenance Range	
		Sandy soils (CEC <5 meq/ 100g)	Loam and clay soils (CEC >5 meq/ 100g)
Corn (grain or forage), Soybean	20–40 ppm	100–130 ppm	120–170 ppm
Wheat, Alfalfa	30–50 ppm	100–130 ppm	120–170 ppm

5. Fields receiving manure must have soil tests showing Bray P1 levels of 50 ppm or less. Grid sampled fields must have an average Bray P1 soil test phosphorus of 50 ppm or less (Mehlich-III soil test level of 70 ppm or less)

VNMPs



PRODUCER VERIFICATION CHECKLIST

Nutrient Management Plan - Implementation

Producer Name: _____

Comprehensive Nutrient Management Plan

Checklist	Completed
Complete nutrient application records provided to SWCD	
Nutrient application records compliant with Nutrient Management Plan	
- Crop rotations	
- Crop yields	
- Nutrient sources and analyses	
- Application locations, methods, rates, and timing	

Variations from written plan? Yes No

If Yes, are changes consistent with H2Ohio guidelines? Yes No

Crop Year: _____

Acres Completed: _____

Nutrient Management Plan Expiration: _____

I hereby state that I have completed this verification form accurately to the best of my knowledge and have provided supporting documentation to show that all items above have been completed. I understand the terms and conditions contained herein and have authority to sign this verification.

Producer Initial

Date

For Office Use

SWCD Notes



1. Voluntary Nutrient Management Plan Development & Implementation

Recordkeeping Requirements

All applicators/producers shall maintain nutrient application records. For each application of nutrients applied for the primary purpose of agricultural production, the applicator/producer shall document the following information within twenty-four hours of application:

1. The date of the application of nutrients;
2. The place of application of nutrients;
3. The number of acres applied;
4. The rate of application of nutrients;
5. The total amount of nutrients applied, by weight or volume;
6. An analysis of the nutrients applied;
7. The name of the individual who applied the nutrients;
8. The name of the certificate holder, if applicable;
9. The soil conditions at the time of the application;
10. The type of application method (soil injected, incorporated, surface, etc.);
11. The weather conditions at the time of application, including temperature and precipitation;
12. The weather forecast for the day following application; and
13. For surface application only, whether the land at the time of application was frozen and/or snow covered.

All individuals acting under the instructions and control of a certificate holder shall transmit all nutrient application records to the certificate holder within ten days of application.

Nutrient application records shall be maintained for a period of three years. If applicable, the employer of a certificate holder may elect to maintain the nutrient application records. If elected, the employer shall maintain the nutrient application records for a period of three years even if the employee-employer relationship has ended. The employer must make the records available to the certificate holder and the department of agriculture, upon request.

All fertilizer certificate holders shall transmit all nutrient application records to the farm operator within thirty days of application.

Fertilizer certificate holders are not required to submit these records to the director, but the records shall be made available to the director or the director's designee for review upon request.

Lucas County - H2Ohio Practices/Results

<u>H2Ohio CY 2021 Practice</u>	<u>Total Acres</u>	<u>Cost-Share Amount Paid</u>
VNMP Development	13,588.5	\$ 27,177.00
VNMP Implementation	13,513.8	\$ 26,805.40
VRT Phosphorus Application	4,386.5	\$ 31,361.68
Subsurface Phosphorus Placement	3,222.1	\$ 96,663.60
Manure Incorporation - All Other	28.0	\$ 1,680.00
Cons. Crop Rota. - S. Grain	769.0	\$ 26,915.00
Cons. Crop Rota. - Forage	241.5	\$ 8,452.50
Overwintering Cover Crop	1,160.1	\$ 29,002.50
Crop Year 2021 H2Ohio Payment Total:		\$ 248,057.68

Lucas County - H2Ohio Practices/Results


H2Ohio CY22 Practice	Total Acres	Cost-Share Amount Paid
VNMP Implementation	12560.3	\$ 25,120.60
VRT Phosphorus Application	3753.8	\$ 30,030.40
Subsurface Placement	4404.6	\$ 132,138.00
Manure Incorporation - All Other	57.1	\$ 3,426.00
Conservation Crop Rotation	1088.2	\$ 38,087.00
Overwintering Cover Crops	2699.7	\$ 67,497.50
OWCC Early Seeding Bonus	769	\$ 7,690.00
Total Cost-Share Paid:		\$ 303,989.50

Ohio Agriculture Conservation Initiative

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Home



Ohio Agriculture Conservation Initiative

Working Together To Recognize Ohio's Farmers And Protect Ohio's Waterways

About Us

The Ohio Agriculture Conservation Initiative (OACI) is an unprecedented partnership between agriculture, conservation, environmental, and research communities to recognize farmers for their dedication to utilize established methods to improve water quality in Ohio and to increase the number of best management practices being implemented on farms.

OACI will offer resources and education that farmers need to implement science-based practices on their farms and better show how those efforts are improving water quality over time.

By collaboratively learning and sharing information across environmental and agricultural communities, Ohio's water quality advocates stand as a united front dedicated to identifying solutions and helping farmers implement them.

Our Mission

Create a universally recognized farmer certification program, with a pilot program beginning in early 2020, that will help increase adoption of best management practices and recognize farmers who demonstrate a commitment to continuous improvement.

Create a confidential farm practices assessment that will benchmark best management practices adoption and track progress toward our goals.

Have an account? [LOG IN](#) Need to register? [REGISTER](#)


12/9/22, 9:59 AM OACI - Certification Score


Certification Score

PRINT


Sorry. Your score of 116.01/200 was not enough to pass and be certified. Please see the information icon below for more details.

Certification passing score must be (126/200) or higher.

For further details on your score select the  to expand the section.



116.01/200



✓ Soil Test Frequency	(32/40)
Soil Testing Frequency	32 / 40
✓ Soil Test Intensity	(8/40)
Soil Test Intensity	8 / 40
✓ Nutrient Application RATE	(23.34/40)
Manure Application Recommendation	N/A
Biosolids Application Recommendation	N/A
Other Organic Nutrient Sources	N/A
Commercial Phosphorus Fertilizer Recommendations	26.87 / 40
Commercial Nitrogen Fertilizer Recommendations	20 / 40
✓ Nutrient Application PLACEMENT	(12/30)
Commercial Phosphorus Fertilizer Application	15 / 30
Commercial Nitrogen Fertilizer Application	6 / 30

[RETURN TO HOME](#) [RETURN TO FARMER PROFILE](#)

<https://oaci.azurewebsites.net/main/certification-score?certificationid=2711>

1/1

Lessons Learned

- More time to prepare and adjust to changes.
- VNMPs before contract approval.
- Firmer deadlines & specifications.
- Clearer expectations early on.

Other Agencies/Organizations use of H2Ohio in Lucas County

Lake Erie CREP - Water Quality Incentive Program

Lake Erie Conservation Reserve Enhancement Program is a Federal program under the USDA that provides 15 years of soil rental rate payments and cost share for the establishment of select conservation practices on agricultural lands. To further incentivize the establishment of wooded riparian buffers and wetlands, H2Ohio funds are used to provide an additional one-time incentive payment of \$2,000 per acre through ODNR.

Currently 7 contracts in Lucas County resulting in 78.4 acres of wetland restoration treating 412 acres of drainage.

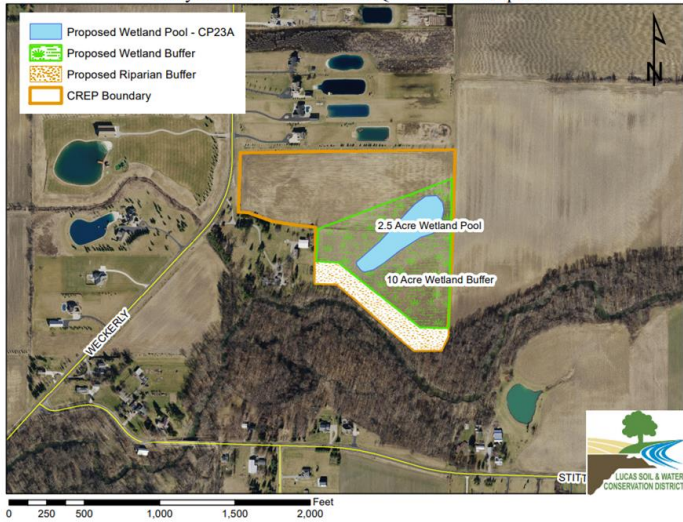
Bottom	Side Slopes	Excavation Depth
3.5	10:1	0.5' - 1.0'
4.5	10:1	0.5' - 1.0'

SIGN TABLE	
Spill Mound Side Slope Ratio	Crown Width
6:1	Varies

oints



Kelly Brothers - LE CREP WQIP - CP23A Proposal



Notes

Producer visits County FSA Office expressing interest in CREP.

```
graph TD; A[Producer visits County FSA Office expressing interest in CREP.] --> B[County FSA Office will provide the producer signed CRP1, CRP2-c and CLU map along with producer contract information to respective ODA and ODNR representative. (Step 13.1 CREP)]; B --> C[Producer will then be contacted by ODA, ODNR or SWCD with information regarding state incentive payments which would include payment process and potential for incentives. This is also when payer ID process will begin and hopefully be completed.]; B --> D[Project will be entered into Beehive by ODA staff. District's may then charge time to those projects.]; C --> E[ ]
```

County FSA Office will provide the producer signed CRP1, CRP2-c and CLU map along with producer contract information to respective ODA and ODNR representative. (Step 13.1 CREP)

Producer will then be contacted by ODA, ODNR or SWCD with information regarding state incentive payments which would include payment process and potential for incentives. This is also when payer ID process will begin and hopefully be completed.

Project will be entered into Beehive by ODA staff. District's may then charge time to those projects.



County FSA office submits approved CRP1, completed CRP2-c, CPO and approved engineering and design plan to respective ODA and ODNR representative. (Step 21.1 CREP Signup Process)



ODNR and ODA will use completed documents and the landowner payer ID to create a contract. Landowner will sign contract at this time.



County FSA submits copy of 848B signed by producer, NRCS/TSP and FSA (Step 23 CREP Signup Process)

ODNR and ODA will then create payment vouchers and begin payment process.

Lake Erie CREP - Water Quality Incentive Payments

Practice Code	Description	State Incentive Agency	State Incentive (New Enrollment)	State Incentive (ReEnrollment)
CP1	Escarpment Areas and Filter & Recharge Areas - Introduced Grasses	ODA	\$500	\$250
CP2	Escarpment Areas and Filter & Recharge Areas - Native Grasses	ODA	\$500	\$250
CP5A	Windbreaks	Both	\$0	\$0
CP21/CP 21S	Grassed Buffers/Saturated Buffers	ODA	\$500	\$250
CP22	Forested Riparian Buffers	ODNR	\$2,000	\$0
CP23 & CP23A	Wetlands	ODNR	\$2,000	\$250

ODNR - H2Ohio Wetland Grants

- Offers funding to private landowners, municipalities, non-profits, and government entities for wetland restoration projects focused on water quality improvement.
- Projects can include, but are not limited to: the restoration and enhancement of wetlands, coastal marsh and floodplain reconnection, capturing stormwater, and stream bank improvements.
- Projects can be established on residential, agricultural, or commercial properties, so long as the program criteria can be met.
- No cost-share requirement.

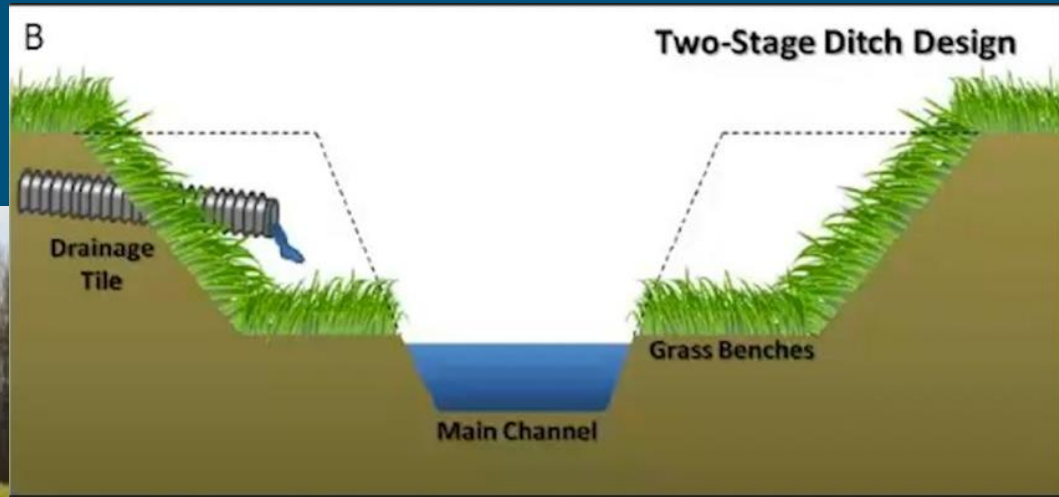
ODNR - H2Ohio Wetland Grants

Currently 7 Projects Receiving a total of \$4,385,633.00 in H2Ohio Funds.

- Ford two stage Ditch \$636,345.00 2.8 acre or 3,300 ft segment of ditch was converted to 2 stage ditch.
- Wiregrass Restoration \$395,500 14.3 acres wetland restoration.
- UT CADE Wetland \$2,229,188 12.7 acres of wetland 54 acres of total restoration.
- Tow Path Feasibility and Design \$200,000.
- Clark Island Restoration \$620,000 up to 40 acres of wetland/floodplain restoration.
- Delaware Creek Rain Gardens \$85,600 (funds used for adaptive management on already constructed rain gardens).
- The Village of Ottawa Hills \$219,000.00 23 acres of floodplain restoration.



Two-Stage Ditches



Ford Ditch - Lucas County Engineers Two-Stage Ditch

- Grant awarded in May 2022. (H2Ohio Grant funds through ODNR)
- Construction activities initiated March 2023.
- Will Install: 3,400 ft of two-stage channel & floodplain, 2.8 acres of enhanced riparian area, and adjacent 10ft buffer strips.
- Total Project Cost: \$726,354.00
 - H2Ohio: \$636,345
 - Lucas County Engineers: \$90,000



Questions?

Matt Browne

H2Ohio Technician

Lucas Soil & Water Conservation District

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