



OHIO DEPARTMENT OF
NATURAL RESOURCES
H2OHIO PROGRAM

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Wetlands for Water Quality

**ERIC
SAAS**

H2Ohio Program Manager



OHIO DEPARTMENT OF
**NATURAL
RESOURCES**

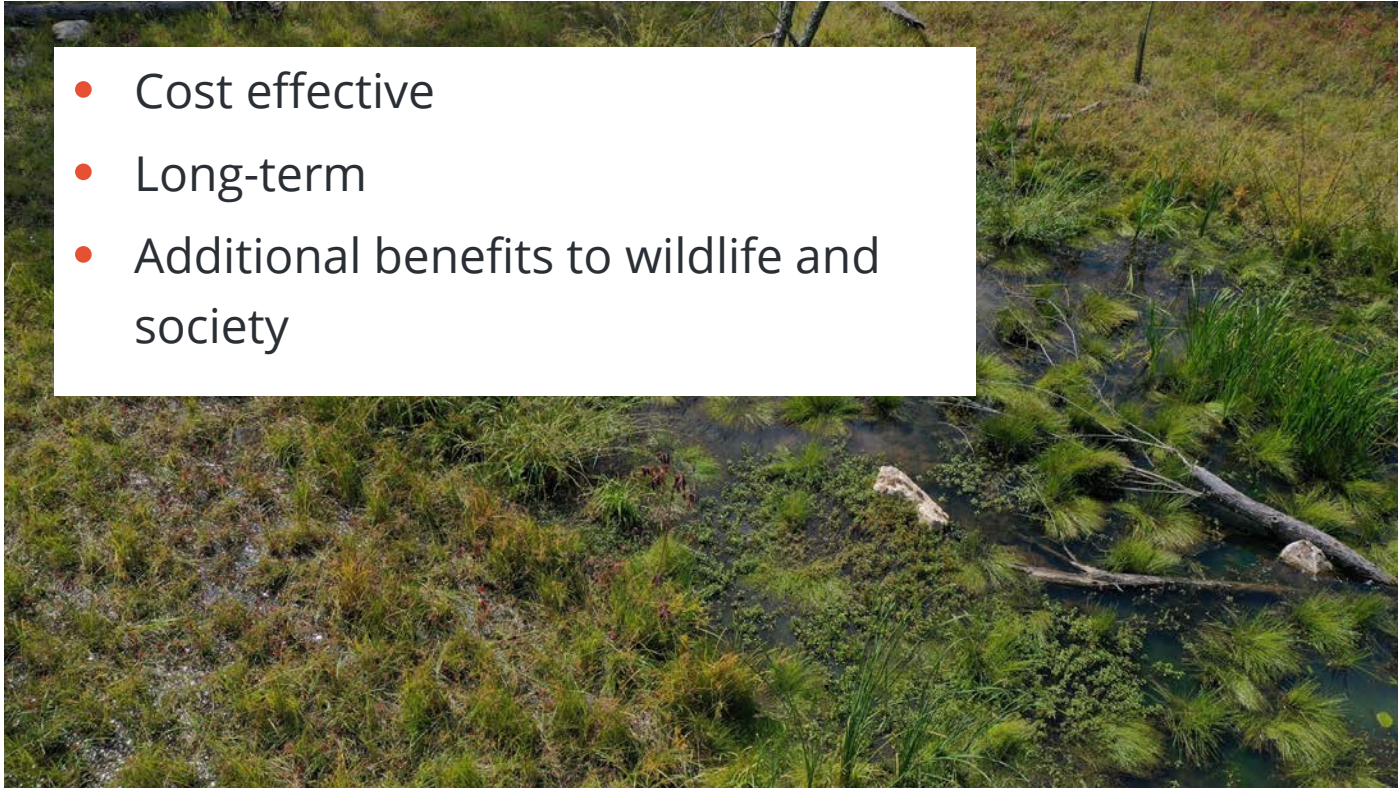
**7 Contributing Divisions: Wildlife, Parks,
Natural Areas and Preserves
Coastal Management, Water Resources,
Mineral Resources, Forestry**



OHIO DEPARTMENT OF NATURAL RESOURCES

NATURAL INFRASTRUCTURE APPROACH

- Cost effective
- Long-term
- Additional benefits to wildlife and society



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Phosphorus Reduction Impact

1



Soil testing:
Testing results give farmers information on where to place fertilizer and fertilizer application rate.

2



Variable-rate fertilization:
Applying specific fertilizer levels based on the need of each sub-acre to reduce fertilizer application without risk of losing yield.

3



Subsurface nutrient application:
Applying specific fertilizer below the surface to reduce nutrient loss.

4



Manure incorporation:
Mixing manure into the soil to keep it in place and minimize nutrient loss.

5



Conservation crop rotation:
Planting certain crops that reduce erosion and enrich the soil thus reducing runoff and sediment delivery.

6



Cover crops:
When planted after the main harvest, cover crops reduce erosion, hold nutrients in the soil, and improve soil health.

7



Drainage water management:
Slowing down runoff to give phosphorus more time to settle back in the soil.

8



Two-stage ditch construction:
Creating modified drainage ditches to slow water flow and allow the phosphorus to settle.

9



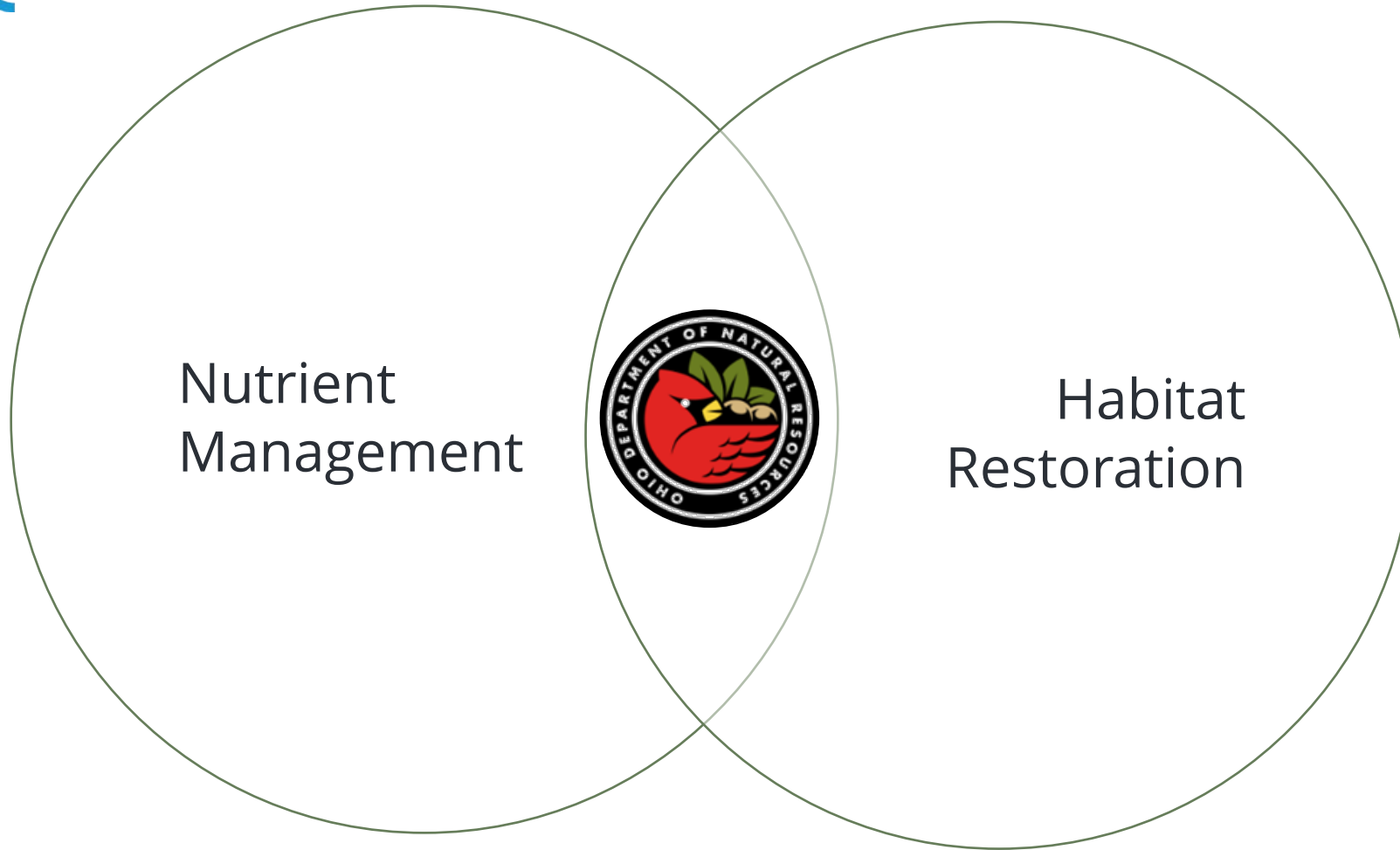
Edge-of-field buffers:
When trees, shrubs or strips of grass are planted along farm fields in the right place, the plants hold on to phosphorus and prevent its release into the water.

10



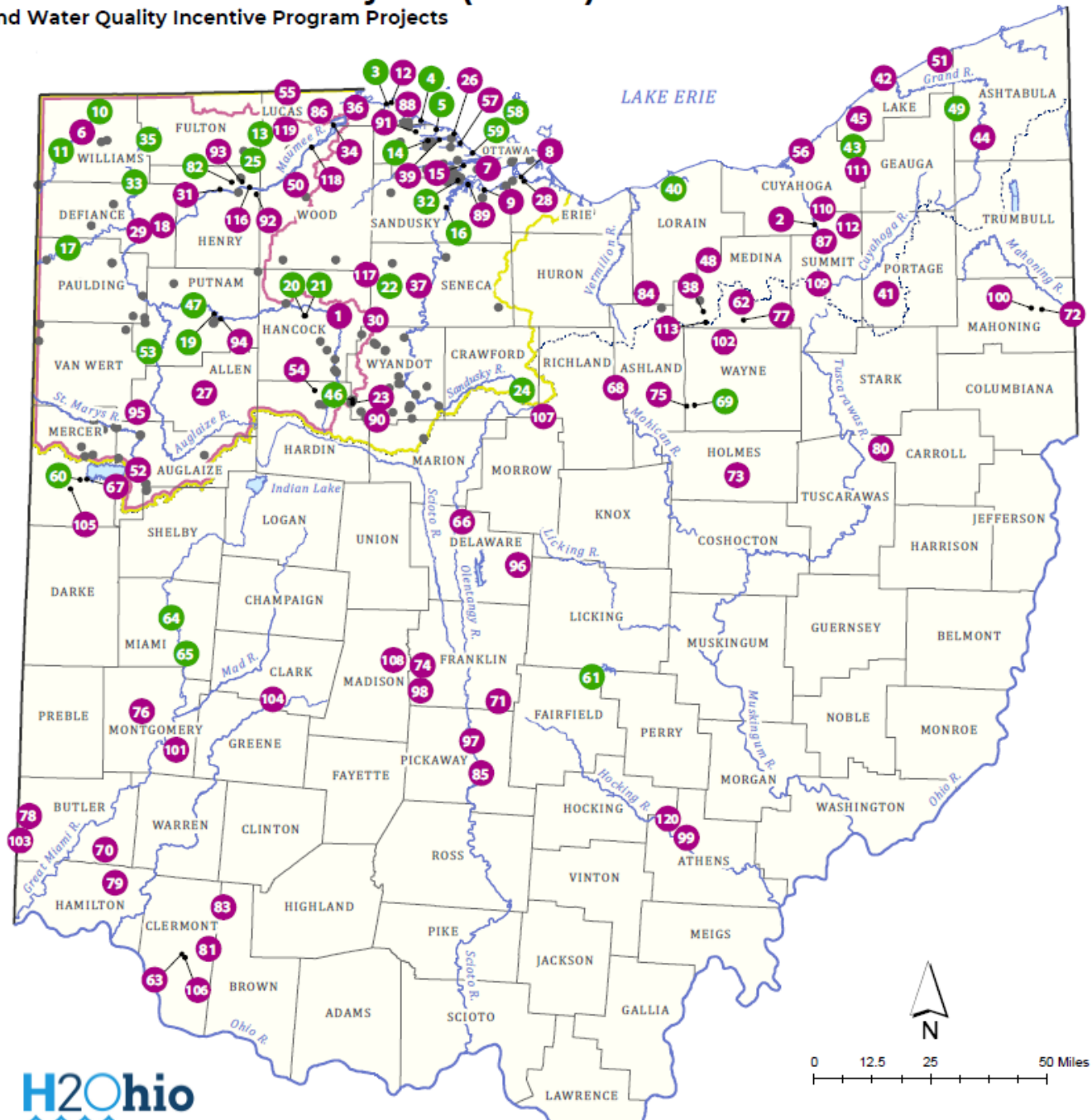
Wetlands:
Wetland vegetation and soils absorb phosphorus, slow down the movement of water, offer a natural filtering process, and allow phosphorus to settle.





H2Ohio Statewide Projects (Status)
and Water Quality Incentive Program Projects

November 30, 2022



1	Bright Conservation Area Wetland Restoration Initiative	61	Brooks Park Wetland Creation & Water Quality Initiative
2	Old Station Road	62	Chippewa Lake Wetland Restoration
3	Maumee Bay State Park Wetland Reconnection	63	Williamsburg Wetland Treatment System
4	Ottawa National Wildlife Refuge Wetland Reconnection Projects	64	Springcreek Confluence Off-Channel Wetlands
5	Magee Marsh Turtle Creek Bay Wetland Reconnection	65	Tipp City Off-Channel Wetland
6	OSU Montpelier High-P Wetland	66	O'Donnell Wetland Restoration and Treatment Train
7	Raccoon Creek Nature-Based Barrier Wetland	67	Mercer Wetland Complex Restoration
8	Moxley Wildlife Area Wetland Reconnection Project	68	Black Fork Forest Preserve Wetland Restoration Project
9	Pickarel Creek Floodplain Restoration	69	Funk Bottoms Wetland Restoration
10	St. Joseph Confluence Wetland Reconnection	70	Westchester Wetland Restoration
11	St. Joseph's River Restoration Project	71	Walnut Creek Treatment Wetland Restoration
12	Mallard Club Nutrient Reduction and Orchid Restoration	72	Forest Lawn Stormwater Park Restoration
13	Oak Openings Preserve Wetland Restoration	73	Killbuck Creek Restoration
14	North Ridge Hunt Club Wetland Restoration	74	Hallbranch Meadows West Wetland Restoration Project
15	Little Portage Nutrient Reduction & Coastal Wetland Restoration	75	East Funk Bottoms Restoration
16	Redhorse Bend Preserve Wetland Restoration	76	Spring Run Conservation Area Wetland Restoration Project
17	Fordner Bridge Floodplain Reconnection	77	Chippewa Creek Restoration
18	Independence Dam Canal Reconnection & Wetland Creation	78	Indian Creek - Hoffmann Wetland and Stream Restoration
19	Blanchard River Floodplain Restoration	79	Gorman Heritage Farm Treatment Wetland System
20	Oakwoods Nature Preserve Wetland Restoration Project, West	80	Taggart's Wetland Enhancement & Acid Mine Drainage Abatement
21	Oakwoods Nature Preserve Wetland Restoration Project, East	81	Lake Harsha WTT Feasibility Study
22	Frush Wetland Nature Preserve	82	Dry Creek Wetland
23	Androff Wetland Restoration	83	East Fork Riparian Reserve Wetland Treatment System
24	Sandusky River Headwaters Preserve Wetland & Habitat Restoration	84	Woodpecker Ditch - Meadowland Restoration
25	Van Order Wetland & Forest Restoration	85	Fleming Bend Protection and Restoration
26	Navarre Marsh Wetland Restoration & Reconnection	86	UT CADE Wetland and Stream Restoration
27	Baughman Partition Ditch	87	Cuyahoga River Riparian Forest and Wetland Restoration
28	Sanford Agricultural Drainage Treatment Train Project	88	Cedar Point National Wildlife Refuge Coastal Reconnection
29	Defiance East River Drive	89	Winous Point "North Marsh" / "Metzger Marsh": Planning Phase
30	Springville Marsh Wetland Extension	90	Killdeer Reservoir Wetland Project
31	Maumee River Floodplain Restoration	91	Crane Creek Lickert Wetland Restoration
32	Buehler Farms Treatment Wetland	92	Mary Jane Thurston Wetlands
33	The Weisgerber-Pohlman Nature Preserve	93	Juhaz Wetland Restoration
34	Clark Island Restoration: Planning Phase	94	Putnam Oxbow Restoration
35	Goll Woods Wetland Extension	95	Elizabeth St Stormwater Control
36	Duck and Otter Creek Wetland and Stream Restoration	96	Perfect Creek Treatment Wetlands
37	Clary-Boulee-McDonald Nature Preserve	97	Cooks Creek Floodplain and Wetland Restoration
38	Bluebell Preserve Restoration Project	98	Big Darby Creek Treatment Wetland
39	Rust Tract Wetland Restoration	99	Hocking River Riparian Restoration
40	Martin's Run Wetland and Stream Restoration Project	100	Stream, Floodplain, and Wetland Restoration at Mill Creek GC
41	The Bird Family Bog Rehabilitation Project	101	Holas Creek Restoration and Habitat Enhancement
42	Headlands Dunes Coastal Wetland Restoration Project	102	Killbuck Creek Headwaters Preservation & Restoration
43	Posters Run Restoration	103	Dry Fork Streambank Stabilization at Gov Bebb Metropark
44	Ashcroft Woods Scall Preserve	104	Rainbow Run Wetlands
45	Chagrin River & East Branch Corridor Restoration & Protection Project	105	Coldwater Wetlands Park
46	Upper Blanchard River Watershed Project	106	TAP Tech Deployment: Algae Harvester
47	Sugarcamp 7 Blanchard Habitat Project	107	Clear Fork Preserve
48	Litchfield Wetland Restoration	108	Little Darby Enhanced Stormwater Treatment Wetland
49	Trumbull Creek H2Ohio	109	Riverwood Project
50	Okego Schools, Wood County	110	Sagamore Hills
51	Arcola Creek Stream and Wetland Restoration Project	111	Chagrin River Headwaters Restoration
52	St. Marys Miami-Erie Canal Treatment Train	112	Twinsburg Heights Preserve
53	Targeted Phosphorous Load Reduction in WLEB	113	Little Killbuck Watershed Divide
54	Pilot Watershed RCPP Project	114	Abraham Forest Riparian Restoration
55	Ford Two Stage Ditch	115	Howard Island Acquisition & Feasibility Study
56	CHEERS Project: Boating wetlands	116	Maumee River Water Trail Mile 35 Restoration
57	Tousaint Shooting Club Reconnections	117	City of Fostoria, Mosier Floodplain Restoration
58	Bohling Marsh Wetland Reconnection	118	Maumee Floodplain Restoration
59	Darby Refuge Wetland Reconnection	119	Wiregrass Restoration
60	Burntwood-Langenkamp Wetland Conservation Area	120	Snow Fork, Acid Mine Drainage Abatement

Completed Projects

Projects In Progress

Water Quality Incentive Program Projects

Western Lake Erie Basin

Maumee River Watershed

Lake Erie/Ohio River Watershed Divide



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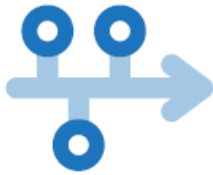
BY THE NUMBERS

121



wetland projects

\$110
million



to support wetland project
implementation

\$4.3 million



allocated to establish
independent project
monitoring program

59



nonprofit
conservation partners
engaged



110,000+

acres of watershed filtered
by wetland projects

15,000



acres of wetland
and ecosystem restoration



157

landowners incentivized to
establish wetlands and
wooded riparian buffers
through Lake Erie CREP

90



threatened or endangered
species dependent on
wetlands; many will benefit
from this additional habitat



+80K

trees have been planted in
wetland buffers



CROWD-SOURCED TIMELAPSE

Chronolog.io/project/OHO



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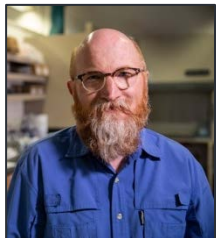
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