Wisconsin P Trade Report – Webinar #4



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DNR Bureau of Runoff Management and Water Quality

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WI P Trade Report

- What is the P Trade Report?
- How to create the report?
- How to use the report?
- DNR Guidance posted. Comment period open until May 11, 2015
 - Appendix A Agricultural Nonpoint Source Implementation Handbook for Adaptive Management and Water Quality Trading
 - <u>http://dnr.wi.gov/news/input/guidance.html</u>
 - <u>DNRNPSProgram@Wisconsin.gov</u>



What is the P Trade Report?

- Created using SNAP+ software <u>www.snapplus.wisc.edu</u>
- Created for WQ Trading or Adaptive Management compliance strategy for point source discharge permits
- Shows annual pounds of phosphorus from a field or pasture entering surface waters – current farm practices
- Calculates phosphorus reduction from additional or new farm practices
- Use report outputs with DNR Trade Ratio(s) to determine P credits for WO Trading



WI P Trade Report Calculation Basics

Estimate phosphorus from a field delivered to stream:

- From eroding sediment
- Released from soil, manure or fertilizer on the surface and dissolved in runoff

Practices to reduce phosphorus delivery to stream:

- Reduce erosion and/or runoff (transport)
- Reduce phosphorus at the soil surface that is vulnerable to erosion and/or runoff (source)



WI P Trade Report CAVEATS

- P Trade Report <u>does not account</u> for sediment-bound P lost in gully erosion on field
 - Field may not eligible for WQ Trading
- Report must include at least two prior years of farm data/ practices and must be accurate
- Report uses field 'predominant' soil to calculate P loss to surface waters
 - More accurate estimate of field P loss compared to WI P Index = planning tool; dominant critical soil used to estimate field P loss
- All fields owned or operated by the 'farm' should be included in SNAP+ database

 Prevents 'shifting' P losses to other fields



Gully Erosion Examples - Sediment P



How to create the report



Step 1 – Complete Baseline Inventory

Required Information for P Trade report (lb P/yr):





- Interview farmer/agronomist to find out crops and field management
 - tillage, manure and fertilizer, soil erosion, filter strips, etc.
- Soil sample fields routine analysis for crop fields
- Use soil maps to identify soil type, slope, slope length

You can use existing SnapPlus nutrient management plans that have been updated after each crop season to reflect what happened on a field





Enter the farm's typical/ current field management for all fields and for all years up to the end of the proposed trade contract period.

Use SnapPlus screen 'tabs' to enter data





Step 2 – Enter field data from online Soil Maps

http://www.manu	readvisorysystem.wi.gov
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🙀 🔤 httpnifa.usda 🔚 USDA - NASS, Census of 🔂 Grassland, Soil and Water .	🛐 INFOS Yahara - Hydraulic 🌔 Customer Log In Box 🚻 University of Wisconsin 🚺 Agriculture.com Mobile
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✓ Waterbodies	
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ONR Wetland Inventory	
Wetland Inventory	
🖃 🗹 Base Layers	
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✓ City-Village	KhB2 = Kewaunee silt loam. 2 – 6% slopes. eroded
✓ Transportation	

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PT. OF NATURAL RESOURCES





READ ONLY: AboveAverageFarm baseline.snapDb

Location: C:\Users\craiga\AppData\Local\Temp\Temp1_P Trade for Andrew.zip\P Trade for Andrew\Above Average Farm 2015



Ensure all WQ trade project years have all manure generated on the farm distributed in planned applications

In 2016, almost half of the manure generated on farm has not been applied



Need to go back and distribute all of the manure



Step 2 - All Fields Need All Management for All Project Years

Enter crop rotation with current typical tillage and manure/fertilizer applications

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•	1	Corn silage	-	15.1-20	•	Fall Chisel, disked	-						
	2	Corn silage	•	15.1-20	•	Fall Chisel, disked	-						
	3	Corn silage	•	15.1-20	•	Fall Chisel, disked	-						
	4	Oat-Pea Forage w/ Alfalfa	•	2.0-3.5	•	Fall Chisel, disked	-						
	5	Alfalfa	•	3.6-4.5	•	None							
	6	Alfalfa	•	3.6-4.5	•	None							
	7	Alfalfa	•	3.6-4.5	•	None							
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Agronomists Can Help with P Trade



Confused? Need Help?

Consulting Agronomists who are certified to do management planning have the skills to use SnapPlus and generate P Trade

Report DATCP offers classes to learn how to use SNAP+

County Land and Water staff may also help



Current Practices in all Project Years? Now you can run the Baseline P Trade Report

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Earm Fields Soil Tests Nutrients Cro		Location: D: Desktop P Trade	eve trade exampleva	bove Average	e Farm 201	5						
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Step 3 – Run Baseline P Trade Report

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Field	Acres	PTP	PTP	PTP	PTP	PTP	PTP	PTP	PTP
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80 1	21.0	37	50	18	18	14	35	175	170
80 2	10.0	19	13	12	7	33	58	59	19
80 3	12.0	10	10	7	5	36	59	66	19
80 4	20.0	10	23	131	89	31	22	18	14
80 6	12.0	20	13	9	7	45	99	78	23
HOME 1	22.0	156	158	41	20	19	14	34	168
HOME 2	12.0	7	19	68	67	25	16	13	10
HOME 3	10.0	29	49	6	26	35	8	6	4
HOME 4	9.0	14	9	43	147	161	44	17	16
HOME 5	7.0	8	20	66	75	23	13	13	10
MART 1	2.0	6	9	3	3	3	2	3	11
MART 2	23.0	26	15	18	14	22	44	80	20
MART 3	4.0	1	1	1	1	1	1	1	1
PASTURE East	3.0	44	45	46	46	47	47	48	48
PASTURE West	13.0	16	16	14	16	21	21	21	21
TILLIES 1	13.0	146	215	51	16	15	10	39	183
TILLIES 2	11.0	7	5	18	66	94	21	10	9
TILLIES 3	10.0	53	81	16	13	14	5	14	76
TILLIES 4	16.0	33	16	15	17	36	114	141	33
TILLIES 5	11.0	17	17	86	92	18	11	8	5
TILLIES 6	10.0	7	5	3	13	48	82	16	7
Total	251	667	788	671	757	741	726	859	867

Note year-to-year variations in estimated P loss

How to use the report



Step 4 - Reduce P runoff from fields with new or additional practices

Copy SnapPlus database & rename the copy

Identify practices on fields or pastures to reduce P in runoff – *requires farm operator input*

Enter changes into new database

Changing data for fields in: AboveAverage	e
Choose which operations to do	
I'd like to	
Add crop and application data to fields	
Ochange existing crop data or applications for fields	
Delete crop and application data from fields	

Step 4 – Example Practices to reduce P runoff

Less tillage

Reduces erosion of P-containing sediment

- Revegetated an over-used cattle lot Reduces erosion and runoff from a high P area
- Added an edge of field grass filter to 3 fields with high P runoff losses Captures P-containing sediment in runoff below field



Step 5 - Run P Trade Report with Changes

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80 1	21.0	37	50	18	18	14	24	154	145
80 2	10.0	19	13	12	7	31	71	57	19
80 3	12.0	10	10	7	5	33	87	64	20
80 4	20.0	10	23	131	89	31	22	18	14
80 6	12.0	20	13	9	7	42	106	76	23
HOME 1	22.0	156	158	41	20	19	14	24	148
HOME 2	12.0	7	19	68	61	24	12	12	10
HOME 3	10.0	29	49	6	25	34	4	4	3
HOME 4	9.0	14	9	43	129	139	42	17	16
HOME 5	7.0	8	20	66	69	23	13	13	10
MART 1	2.0	2	3	2	2	2	2	2	5
MART 2	23.0	18	13	14	12	16	27	54	14
MART 3	4.0	1	1	1	1	1	1	1	1
PASTURE East	3.0	44	45	46	26	23	23	23	23
PASTURE West	13.0	16	16	17	21	21	21	22	22
TILLIES 1	13.0	146	215	51	16	15	10	24	151
TILLIES 2	11.0	7	5	18	60	82	20	10	9
TILLIES 3	10.0	53	81	16	13	14	5	9	65
TILLIES 4	16.0	33	16	15	17	26	90	122	31
TILLIES 5	11.0	17	17	86	84	18	11	8	5
TILLIES 6	10.0	7	5	3	0	40	71	15	7
Total	251	655	780	669	691	649	679	729	741



Step 6 – Compare P Trade Reports to determine P reduction (lbs../P/year)

Project Period

	PTP	PTP	PTP	PTP	PTP
	2016	2017	2018	2019	2020
Baseline	757	741	726	859	867
Changed	691	649	679	729	741
P Reduction	66	93	47	129	126



Step 7 – Apply DNR Trade Ratio to determine P credits

- DNR Trade Ratios discussed in prior webinars and in DNR guidance
- Multiply farm wide lbs/P/year savings by DNR Trade Ratio to determine P CREDIT.
- Example: P Trade reports show 126 lbs/P/year farm wide savings x 2:1 Trade Ratio = 63 lbs. P/year CREDIT



TMDL Watersheds

- DNR WQ Trading Guidance written before the P Trade Report was created
- DNR Guidance recommends using WI P Index for:
 - Trade thresholds in TMDL approved watersheds
 - Calculating Interim and Long-term credits
- P Trade report does not follow the WI P Index when estimating annual field P losses
- DNR is seeking public comment for using P Trade report within TMDL watersheds

Summary



P Trade Report Summary

- Use SNAP+ to enter current P management practices over time period (2013-2020) and run P trade report
 - Report gives annual pounds/P/year lost from each field and over entire farm
 - Provides a baseline for comparison
 - Gully erosion on field = sediment bound P not accounted for; field may not be eligible for WQ Trading
- Make copy of SNAP+ database, select practices to reduce P losses in <u>future years</u> on same fields for same time period and run P Trade Report
 - Reduce P inputs and/or tillage
 - Establish perennial crops vs. annual crops; increase residue; cover crops
 - Buffers, contour farming
 - Stop ag practices and establish permanent vegetation over some or all of field
- Compare P trade reports to calculate P reductions (using excel or some other tool)
 - BEFORE / AFTER analysis
 - Whole farm P reductions (annual pounds/P/year) can be determined



P Trade Report Summary

- Apply DNR Trade Ratio to calculated P reduction mass
 - Multiply total lbs/P/year by DNR delivery factor (typically 2:1 or 3:1) to determine P savings
 - Example: 800 lbs/P/year farm wide savings x 2:1 delivery factor = 400 lbs. P/ year CREDIT
 - This is the mass of P prevented from reaching the receiving water.
- Include P Trade reports and P savings calculations within the Point Source's compliance plan
 - WQ Trading
 - Adaptive Management
- Point Source submits plan to DNR for review and approval. If approved, plan is incorporated into Point Source permit conditions. EPA review of permit also required.



P Trade Report Summary

- This is only a summary
- DNR guidance will provide more detail and examples for using SNAP+ P Trade reports and calculating P credits using DNR trade ratios



Questions or Comments?

