



Voluntary Stewardship Program Lincoln County Work Group



Presented by

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March 7, 2017

Presentation Overview

- Follow-up from February Meeting
 - Work Plan Volume 1 – level of detail discussion
 - Stewardship Practice Photos
- Review Comments Received to Date
 - Summary of comments and major discussion items
 - Questions and feedback
- Protection and Enhancement Benchmarks
- Next Steps

Plan Framework Discussion

Work Plan - Two volume approach

Volume 1: Work Plan (for producers/general public)

- **Executive Summary (1-2 pages)**
- User-friendly Work Plan (shorten to 20 pages)
 - **VSP Introduction and FAQs**
 - **Regional setting**
 - **Introduction to critical areas and functions/
baseline conditions**
 - Agricultural viability
 - **Protection and enhancement strategies**
 - Goals and benchmarks
 - Implementation
- **Self-Assessment Checklist (3 – 5 pages)**

Volume 2: Technical Appendices

- Appendix A - 2011 Existing Conditions Summary
- Appendix B – Goals, Benchmarks, and Measurements
- Appendix C – Analysis Unit Profiles
- Appendix D – Outreach and Implementation Plan
- Appendix E – Existing Plans and Regulations

Stewardship Practices Photos

Direct Seed



Nutrient/Pest Management



Grassed Waterway





Summary of Comments

Overview of Comments

- Editorial comments (thank you!)
- Consider making Volume 1 shorter
- Avoid use of acronyms and spell out critical area names
- Soils Map: consider using an alternate soil grouping map such as the general soil map units
- Remove unknown streams layer from stream miles table
 - Qualify that “unknown” streams layer mapped by DNR are likely ephemeral topographic lows
- Add moose and cougar



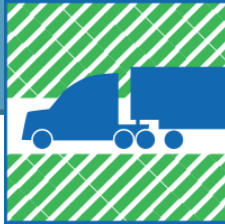
Overview of Comments

- Monitoring Data:
 - Add discussion on summer flows and reference watershed flow data
 - Who is paying for monitoring?
 - LCCD has well monitoring data
 - Is there historical flow data from the Lincoln County drainage basins?
- VSP Indicators:
 - How will “no net loss of suitable agriculture soils” be monitored?
 - How will baseline be identified for “no net loss of soil health”?
 - Has there been changes in PHS habitat areas over past years to indicate trends?

Protection and Enhancement Benchmarks

Goals: Protect – Voluntary Enhancement

Ag.
Viability



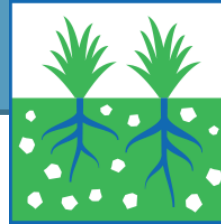
Water
Quality



Hydrology



Soil
Health



Habitat



Objectives: Protect Through Conservation Practices



Direct Seed, Mulch Till/ Range Watering/Nutrient Management/ Pest Management/ Prescribed Grazing/ Fencing/ Range Planting...

Measurable Benchmark: Protect/ Enhance Critical Areas functions and values



CARA



FFA



F & W



GHA



WET

Direct and Indirect Effects



Stewardship Strategies – Key Practices for Direct Intersects

Stewardship Strategies	
Type	Key Practices
Habitat Management	<ul style="list-style-type: none"> • Conservation Cover • Critical Area Planting • Riparian Forest Buffer • Tree/Shrub Establishment • Access Control • Hedgerow Planting • Wind Break • Fencing

Discuss whether key practices:

- Address resource concerns and critical areas function protections; and
- Are widely implemented, anticipated for continued application, or
- Are identified as major practice trends anticipated in the future.

Stewardship Strategies – Key Practices for Indirect Intersects

Stewardship Strategies	
Type	Key Practices
Residue/Tillage Management	<ul style="list-style-type: none"> • Reduced Till • No Till
Pest Management	<ul style="list-style-type: none"> • Pest Management
Nutrient Management	<ul style="list-style-type: none"> • Nutrient Management
Water Management	<ul style="list-style-type: none"> • Irrigation Water Management • Irrigation System Sprinkler
Livestock Management	<ul style="list-style-type: none"> • Prescribed Grazing • Stock Watering Facilities (Water Wells, Watering Facilities, Pumping Plants)
Soil Management	<ul style="list-style-type: none"> • Cover Crop • Conservation Crop Rotation • Cross Wind Ridges • Field Border

Discuss whether key practices:

- Address resource concerns and critical areas function protections; and
- Are widely implemented, anticipated for continued application, or
- Are identified as major practice trends anticipated in the future.

Protection Benchmarks (Maintain Baseline Conditions)

Stewardship Strategies	Protection Benchmark
Residue/Tillage Management	No net loss of acres managed under stewardship strategies
Pest Management	
Nutrient Management	
Water Management	
Livestock Management	
Soil Management	
Habitat Management	

Measurable Benchmarks

- Protection benchmarks:
 - Maintain 2011 baseline conditions
 - Estimated annual disenrollment rates for key NRCS practices from the 2011 baseline per 2011 – 2016 enrollment data
 - Need to include additional LCCD-led projects into the baseline
 - A more accurate estimate and understanding of which practices are discontinued can be used to modify these benchmarks
- Benchmarks are anticipated to be adapted:
 - As new technologies and practices are applied by producers
 - To address unanticipated changes in environmental and market conditions

Measurable Benchmarks – Protection/2011 Baseline

Stewardship Strategies	Historic Enrollment (2011 – 2016)		Protection Benchmarks	
	Average Annual Enrollment	Estimated Yearly Disenrollment	2021 Predicted Benchmark (disenrollment x 10)	2026 Predicted Benchmark (disenrollment x 15)
Residue/Tillage Management	9,571 acres	574 acres (6%)	5,742 acres	8,614 acres
Pest Management	6,090 acres	365 acres (6%)	3,654 acres	5,481 acres
Nutrient Management	4,564 acres	274 acres (6%)	2,738 acres	4,108 acres
Water Management	3,379 acres	101 acres (3%)	1,014 acres	1,521 acres

Measurable Benchmarks – Protection/2011 Baseline

Stewardship Strategies	Historic Enrollment (2011 – 2016)		Protection Benchmarks	
	Average Annual Enrollment	Estimated Yearly Disenrollment	2021 Predicted Benchmark (disenrollment x 10)	2026 Predicted Benchmark (disenrollment x 15)
Livestock Management	2,202 acres 11 watering facilities	132 acres (6%) 0.3 watering facilities (3%)	1,321 acres 3 watering facilities	1,982 acres 5 watering facilities
Soil Management	456 acres 10 feet	27 acres (6%) 0.6 feet (6%)	273 acres 6 feet	410 acres 10 feet
Habitat Management	334 acres 13,984 feet	20 acres (6%) 420 feet (3%)	200 acres 4,195 feet	300 acres 6,293 feet

Enhancement Benchmarks (above 2011 Baseline)

Stewardship Strategies	Enhancement Benchmark
Residue/Tillage Management	<p>Discuss Options:</p> <ul style="list-style-type: none"> • Option 1: Average annual practices implemented based on: <ul style="list-style-type: none"> ▪ Historic enrollment (annual average) ▪ Future projections for practices based on market trends and other factors • Option 2: <ul style="list-style-type: none"> ▪ Based on known and anticipated (highly probable) future funding • Enhancement Plus <ul style="list-style-type: none"> ▪ Option 1 or 2 + desired funding for additional targeted enhancements ▪ E.g., promote additional recharge
Pest Management	
Nutrient Management	
Water Management	
Livestock Management	
Soil Management	
Habitat Management	

Projecting Future Enhancement

Stewardship Strategies	Funding Opportunities			
Key Practices	Program	Lead Entity	\$ per Year	# of Projects
Direct Seed	RCPP (WRIA 34)	LCCD		
	Centennial Clean Water Funds	LCCD/ECY		
Residue and Tillage Management	RCPP (WRIA 34)	LCCD		
Enhanced Pest Management	Conservation Stewardship Program	NRCS		
Enhanced Nutrient Management	Conservation Stewardship Program	NRCS		
Enhanced Water Management	Conservation Stewardship Program	NRCS		
Enhanced Grazing Management	Conservation Stewardship Program	NRCS		
Livestock Watering Facility	RCPP (WRIA 34)	LCCD		
Solar Livestock Watering Facility	Cost Share	LCCD/WSCC		
Pasture/Hayland Management	Cost Share	LCCD/WSCC		
Field Borders	Cost Share	LCCD, NRCS, FSA		
Terrace	Cost Share	LCCD/WSCC		
Enhanced Habitat Management	Conservation Stewardship Program	NRCS		
Grassed Waterway Rebuild	Cost Share	LCCD/WSCC		
Windbreak	Cost Share	LCCD/WSCC		
Riparian Buffer	RCPP (WRIA 34)	LCCD		
Wildlife Habitat	RCPP (WRIA 34)	LCCD		

Measurable Benchmarks - Enhancement

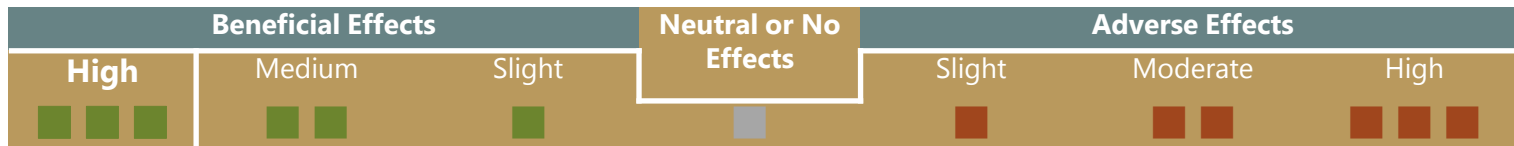
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	Average Annual Enrollment	Estimated Yearly Disenrollment ²	2021 Benchmark (annual avg x 10 or other basis??)	2026 Benchmark (annual avg x 15 or other basis??)
Residue/Tillage Management	9,571 acres	574 acres (6%)	xx acres	xx acres
Pest Management	6,090 acres	365 acres (6%)	xx acres	xx acres
Nutrient Management	4,564 acres	274 acres (6%)	xx acres	xx acres
Water Management	3,379 acres	101 acres (3%)	xx acres	xx acres

Measurable Benchmarks - Enhancement

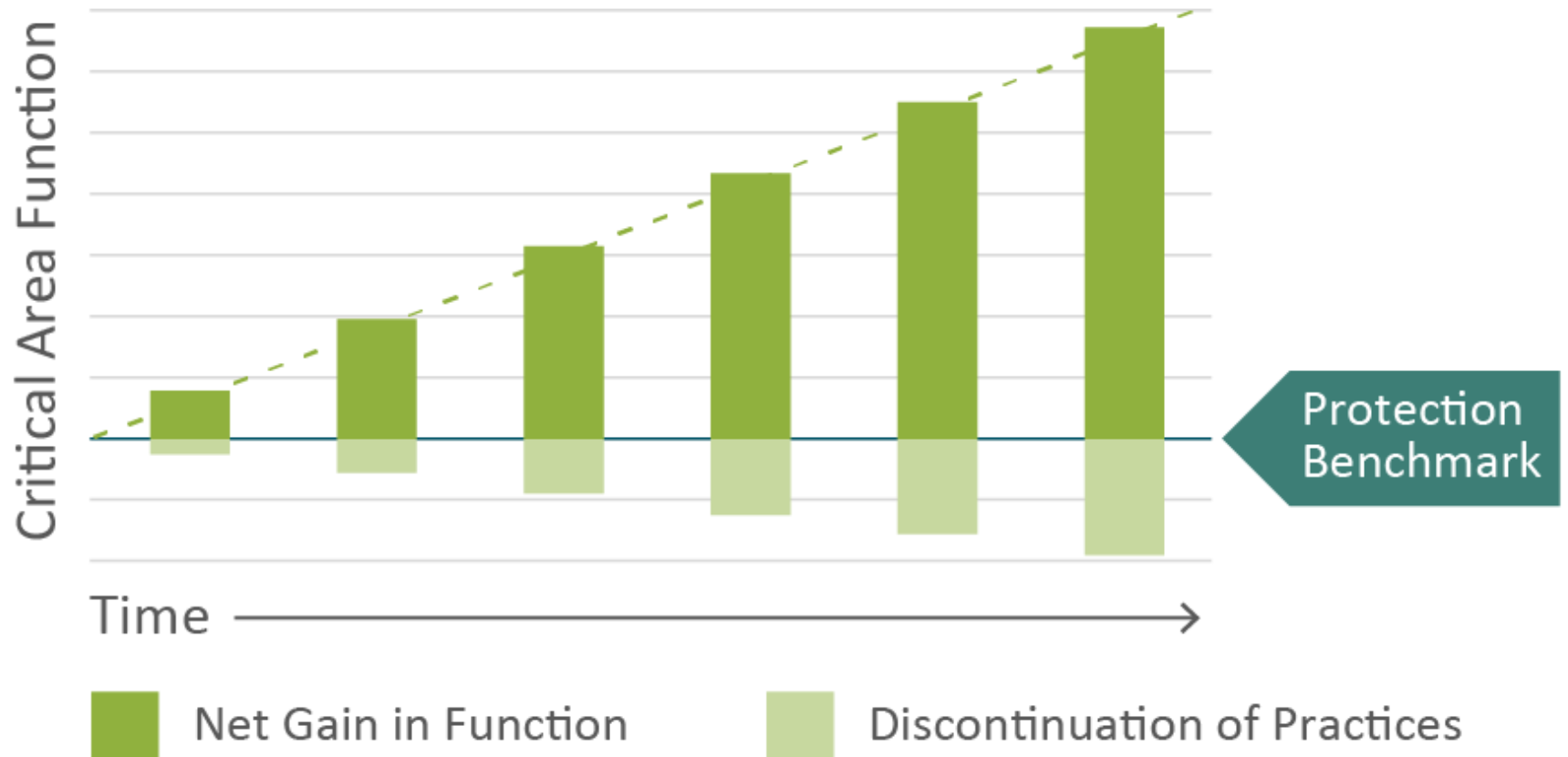
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Soil Management	456 acres 10 feet	27 acres (6%) 0.6 feet (6%)	xx acres xx feet	xx acres xx feet
Habitat Management	334 acres 13,984 feet	20 acres (6%) 420 feet (3%)	xx acres xx feet	xx acres xx feet

Using CPPE to relate conservation practices benefits to critical areas functions and values

Stewardship Activity	CPPE Function Effects Score (Averaged score for key practices)				Critical Areas				
	Habitat Effect	Hydrology Effect	Water Quality Effect	Soil Health Effect	WET	HAB	CARA	GHA	FFA
Residue and Tillage Management	■	■	■	■	■	■	■	■	■
Pest Management	■	■	■	■	■	■	■	■	■
Nutrient Management	■	■	■	■	■	■	■	■	■
Water Management	■	■ ■	■ ■	■	■	■	■	■	■
Livestock Management	■	■	■	■	■	■	■	■	■
Soil Management	■	■	■	■	■	■	■	■	■
Habitat Management	■ ■	■	■	■	■	■	■	■	■



Relate Conservation Practices Benefits to Critical Areas Functions and Values



Next Steps

Next Steps - Discuss

- April 18 – Work Group Meeting (2 – 4 PM?)
 - Develop updated Work Plan and Stewardship Checklist
 - Updated goals and benchmarks
- June 6 (6 - 8 PM?) – Final Work Group Meeting
 - Further discuss Work Plan edits
- Anchor QEA prepare updated draft by June 30
- Continue efforts in fall 2017 based on funding