

## **APPENDIX D**

**Conservation Practices, Natural Resources Conservation  
Service Environmental Evaluation Worksheet, and  
Conservation Practice Exemplars**



**Table D-1. Conservation Practices**

Code	Practice	Agriculture Best Management Practices on Dairy	Agriculture Best Management Practices on Cropland/Grazing	Winter Water Holding Plus Agriculture Best Management Practices
102	Comprehensive Nutrient Management Plan (CAP)	X		
104	Nutrient Management Plan (CAP)	X	X	X
118	Irrigation Water Management Plan (CAP)		X	X
130	Drainage Water Management Plan (CAP)	X	X	X
309	Agrichemical Handling Facility	X	X	X
313	Waste Storage Facility	X		
314	Brush Management		X	X
315	Herbaceous Weed Control	X	X	X
316	Animal Mortality Facility	X		
317	Composting Facility	X		
327	Conservation Cover	X	X	X
328	Conservation Crop Rotation		X	X
329	Residue and Tillage Management, No Till/Strip Till/Direct Seed		X	X
330	Contour Farming		X	X
331	Contour Orchard and Other Perennial Crops		X	X
332	Contour Buffer Strips		X	X
338	Prescribed Burning		X	X
340	Cover Crop	X	X	X
342	Critical Area Planting	X	X	X
345	Residue and Tillage Management, Reduced Till		X	X
350	Sediment Basin	X	X	X
351	Well Decommissioning	X		
356	Dike	X	X	X
359	Waste Treatment Lagoon	X		
360	Closure of Waste Impoundments	X		
362	Diversions	X	X	X

Code	Practice	Agriculture Best Management Practices on Dairy	Agriculture Best Management Practices on Cropland/Grazing	Winter Water Holding Plus Agriculture Best Management Practices
367	Roofs and Covers	X		
378	Pond	X	X	X
381	Silvopasture Establishment		X	X
382	Fence	X	X	X
386	Field Border	X	X	X
390	Riparian Herbaceous Cover	X	X	X
391	Riparian Forest Buffer	X	X	X
393	Filter Strip	X	X	X
410	Grade Stabilization Structure	X	X	X
412	Grassed Waterway	X	X	X
430	Irrigation Pipeline (Manure Transfer Only)	X		
436	Irrigation Reservoir		X	X
441	Irrigation system, Microirrigation		X	X
442	Irrigation System, Sprinkler		X	X
443	Irrigation System, Surface & Subsurface		X	X
449	Irrigation Water management		X	X
462	Precision Land Forming		X	X
464	Irrigation Land Leveling		X	X
468	Lined Waterway or Outlet	X	X	X
484	Mulching	X	X	X
490	Tree/Shrub Site Preparation	X	X	X
511	Forage Harvest Management	X	X	X
512	Forage And Biomass Planting	X	X	X
516	Pipeline	X	X	X
528	Prescribed Grazing	X	X	X
533	Pumping Plant	X	X	X
550	Range Planting		X	X

<b>Code</b>	<b>Practice</b>	<b>Agriculture Best Management Practices on Dairy</b>	<b>Agriculture Best Management Practices on Cropland/Grazing</b>	<b>Winter Water Holding Plus Agriculture Best Management Practices</b>
554	Drainage Water Management	X	X	X
557	Row Arrangement		X	X
558	Roof Runoff Structure	X		
561	Heavy Use Area Protection	X	X	X
575	Animal Trails and Walkways	X	X	X
578	Stream Crossing	X	X	X
580	Streambank and Shoreline Protection	X	X	X
587	Structure for Water Control	X	X	X
590	Nutrient Management	X	X	X
591	Amendments for the Treatment of Agricultural Waste	X		
595	Integrated Pest Management		X	X
601	Vegetative Barrier	X	X	X
607	Surface Drain, Field Ditch	X	X	X
612	Tree/Shrub Establishment	X	X	X
614	Watering Facility	X	X	X
620	Underground Outlet	X	X	X
629	Waste Treatment	X		
632	Solid/Liquid Waste Separation Facility	X		
634	Waste Transfer	X		
635	Vegetated Treatment Area	X	X	X
638	Water and Sediment Control Basin	X	X	X
642	Water Well		X	X
644	Wetland Wildlife Habitat Management		X	X
646	Shallow Water Development and Management		X	X

**ENVIRONMENTAL EVALUATION WORKSHEET**

**A. Client Name:**

**B. Conservation Plan ID # (as applicable):**  
**Program Authority (optional):**

**C. Identification # (farm, tract, field #, etc. as required):**

**D. Client's Objective(s) (purpose):**

<b>E. Need for Action:</b>	<b>H. Alternatives</b>		
	<i>No Action</i> ✓ if RMS <input type="checkbox"/>	<i>Alternative 1</i> ✓ if RMS <input type="checkbox"/>	<i>Alternative 2</i> ✓ if RMS <input type="checkbox"/>

**Resource Concerns**

In Section "F" below, analyze, record, and address concerns identified through the Resources Inventory process. (See FOTG Section III - Resource Planning Criteria for guidance).

<b>F. Resource Concerns and Existing/ Benchmark Conditions</b> (Analyze and record the existing/benchmark conditions for each identified concern)	<b>I. Effects of Alternatives</b>					
	<i>No Action</i>		<i>Alternative 1</i>		<i>Alternative 2</i>	
	<b>Amount, Status, Description</b> <i>(Document both short and long term impacts)</i>	✓ if does NOT meet PC	<b>Amount, Status, Description</b> <i>(Document both short and long term impacts)</i>	✓ if does NOT meet PC	<b>Amount, Status, Description</b> <i>(Document both short and long term impacts)</i>	✓ if does NOT meet PC
<b>SOIL: EROSION</b>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		NOT meet PC		NOT meet PC		NOT meet PC
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		NOT meet PC		NOT meet PC		NOT meet PC
<b>SOIL: SOIL QUALITY DEGRADATION</b>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		NOT meet PC		NOT meet PC		NOT meet PC
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		NOT meet PC		NOT meet PC		NOT meet PC
<b>WATER: EXCESS / INSUFFICIENT WATER</b>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		NOT meet PC		NOT meet PC		NOT meet PC
<b>WATER: WATER QUALITY DEGRADATION</b>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		NOT meet PC		NOT meet PC		NOT meet PC
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		NOT meet PC		NOT meet PC		NOT meet PC

F. Resource Concerns and Existing/ Benchmark Conditions (Analyze and record the existing/benchmark conditions for each identified concern)	I. (continued)					
	No Action		Alternative 1		Alternative 2	
	Amount, Status, Description <i>(Document both short and long term impacts)</i>	√ if does NOT meet PC	Amount, Status, Description <i>(Document both short and long term impacts)</i>	√ if does NOT meet PC	Amount, Status, Description <i>(Document both short and long term impacts)</i>	√ if does NOT meet PC
<b>AIR: AIR QUALITY IMPACTS</b>						
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		NOT meet PC		NOT meet PC		NOT meet PC
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		NOT meet PC		NOT meet PC		NOT meet PC
<b>PLANTS: DEGRADED PLANT CONDITION</b>						
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		NOT meet PC		NOT meet PC		NOT meet PC
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		NOT meet PC		NOT meet PC		NOT meet PC
<b>ANIMALS: INADEQUATE HABITAT FOR FISH AND WILDLIFE</b>						
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		NOT meet PC		NOT meet PC		NOT meet PC
<b>ANIMALS: LIVESTOCK PRODUCTION LIMITATION</b>						
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		NOT meet PC		NOT meet PC		NOT meet PC
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		NOT meet PC		NOT meet PC		NOT meet PC
<b>ENERGY: INEFFICIENT ENERGY USE</b>						
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		NOT meet PC		NOT meet PC		NOT meet PC
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
		NOT meet PC		NOT meet PC		NOT meet PC
<b>HUMAN: ECONOMIC AND SOCIAL CONSIDERATIONS</b>						

**Special Environmental Concerns: Environmental Laws, Executive Orders, policies, etc.**

**In Section "G" complete and attach Environmental Procedures Guide Sheets for documentation as applicable. Items with a "•" may require a federal permit or consultation/coordination between the lead agency and another government agency. In these cases, effects may need to be determined in consultation with another agency. Planning and practice implementation may proceed for practices not involved in consultation.**

G. Special Environmental Concerns (Document existing/ benchmark conditions)	J. Impacts to Special Environmental Concerns					
	No Action		Alternative 1		Alternative 2	
	Document all impacts (Attach Guide Sheets as applicable)	√ if needs further action	Document all impacts (Attach Guide Sheets as applicable)	√ if needs further action	Document all impacts (Attach Guide Sheets as applicable)	√ if needs further action
•Clean Air Act <i>Guide Sheet FS1 FS-2</i>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
•Clean Water Act / Waters of the U.S. <i>Guide Sheet Fact Sheet</i>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
•Coastal Zone Management <i>Guide Sheet Fact Sheet</i>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Coral Reefs <i>Guide Sheet Fact Sheet</i>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
•Cultural Resources / Historic Properties <i>Guide Sheet Fact Sheet</i>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
•Endangered and Threatened Species <i>Guide Sheet Fact Sheet</i>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Environmental Justice <i>Guide Sheet Fact Sheet</i>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
•Essential Fish Habitat <i>Guide Sheet Fact Sheet</i>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Floodplain Management <i>Guide Sheet Fact Sheet</i>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Invasive Species <i>Guide Sheet Fact Sheet</i>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
•Migratory Birds/Bald and Golden Eagle Protection Act <i>Guide Sheet Fact Sheet</i>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Natural Areas <i>Guide Sheet Fact Sheet</i>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Prime and Unique Farmlands <i>Guide Sheet Fact Sheet</i>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Riparian Area <i>Guide Sheet Fact Sheet</i>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Scenic Beauty <i>Guide Sheet Fact Sheet</i>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

<ul style="list-style-type: none"> <li>Wetlands <i>Guide Sheet</i>    <i>Fact Sheet</i></li> </ul>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>																											
<ul style="list-style-type: none"> <li>Wild and Scenic Rivers <i>Guide Sheet</i>    <i>Fact Sheet</i></li> </ul>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>																											
<b>K. Other Agencies and Broad Public Concerns</b>	<i>No Action</i>		<i>Alternative 1</i>		<i>Alternative 2</i>																												
Easements, Permissions, Public Review, or Permits Required and Agencies Consulted.																																	
Cumulative Effects Narrative (Describe the cumulative impacts considered, including past, present and known future actions regardless of who performed the actions)																																	
<b>L. Mitigation</b> (Record actions to avoid, minimize, and compensate)																																	
<b>M. Preferred Alternative</b>	√ preferred alternative	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																											
	Supporting reason																																
<b>N. Context</b> (Record context of alternatives analysis)																																	
The significance of an action must be analyzed in several contexts such as society as a whole (human, national), the affected region, the affected interests, and the locality.																																	
<b>O. Determination of Significance or Extraordinary Circumstances</b>																																	
<p><b>Intensity:</b> Refers to the severity of impact. Impacts may be both beneficial and adverse. A significant effect may exist even if the Federal agency believes that on balance the effect will be beneficial. Significance cannot be avoided by terming an action temporary or by breaking it down into small component parts.</p> <p><b>If you answer ANY of the below questions "yes" then contact the State Environmental Liaison as there may be extraordinary circumstances and significance issues to consider and a site specific NEPA analysis may be required.</b></p>																																	
<table border="0"> <tr> <td>Yes</td> <td>No</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>• Is the preferred alternative expected to cause significant effects on public health or safety?</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>• Is the preferred alternative expected to significantly affect unique characteristics of the geographic area such as proximity to historic or cultural resources, park lands, prime farmlands, wetlands, wild and scenic rivers, or ecologically critical areas?</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>• Are the effects of the preferred alternative on the quality of the human environment likely to be highly controversial?</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>• Does the preferred alternative have highly uncertain effects or involve unique or unknown risks on the human environment?</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>• Does the preferred alternative establish a precedent for future actions with significant impacts or represent a decision in principle about a future consideration?</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>• Is the preferred alternative known or reasonably expected to have potentially significant environment impacts to the quality of the human environment either individually or cumulatively over time?</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>• Will the preferred alternative likely have a significant adverse effect on ANY of the special environmental concerns? Use the Evaluation Procedure Guide Sheets to assist in this determination. This includes, but is not limited to, concerns such as cultural or historical resources, endangered and threatened species, environmental justice, wetlands, floodplains, coastal zones, coral reefs, essential fish habitat, wild and scenic rivers, clean air, riparian areas, natural areas, and invasive species.</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>• Will the preferred alternative threaten a violation of Federal, State, or local law or requirements for the protection of the environment?</td> </tr> </table>							Yes	No		<input type="checkbox"/>	<input type="checkbox"/>	• Is the preferred alternative expected to cause significant effects on public health or safety?	<input type="checkbox"/>	<input type="checkbox"/>	• Is the preferred alternative expected to significantly affect unique characteristics of the geographic area such as proximity to historic or cultural resources, park lands, prime farmlands, wetlands, wild and scenic rivers, or ecologically critical areas?	<input type="checkbox"/>	<input type="checkbox"/>	• Are the effects of the preferred alternative on the quality of the human environment likely to be highly controversial?	<input type="checkbox"/>	<input type="checkbox"/>	• Does the preferred alternative have highly uncertain effects or involve unique or unknown risks on the human environment?	<input type="checkbox"/>	<input type="checkbox"/>	• Does the preferred alternative establish a precedent for future actions with significant impacts or represent a decision in principle about a future consideration?	<input type="checkbox"/>	<input type="checkbox"/>	• Is the preferred alternative known or reasonably expected to have potentially significant environment impacts to the quality of the human environment either individually or cumulatively over time?	<input type="checkbox"/>	<input type="checkbox"/>	• Will the preferred alternative likely have a significant adverse effect on ANY of the special environmental concerns? Use the Evaluation Procedure Guide Sheets to assist in this determination. This includes, but is not limited to, concerns such as cultural or historical resources, endangered and threatened species, environmental justice, wetlands, floodplains, coastal zones, coral reefs, essential fish habitat, wild and scenic rivers, clean air, riparian areas, natural areas, and invasive species.	<input type="checkbox"/>	<input type="checkbox"/>	• Will the preferred alternative threaten a violation of Federal, State, or local law or requirements for the protection of the environment?
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<input type="checkbox"/>	<input type="checkbox"/>	• Will the preferred alternative threaten a violation of Federal, State, or local law or requirements for the protection of the environment?																															
<b>P. To the best of my knowledge, the data shown on this form is accurate and complete:</b>																																	
In the case where a non-NRCS person (e.g. another MS TIG Trustee) assists with planning they are to sign the first signature block and then NRCS is to sign the second block to verify the information's accuracy.																																	
<input type="text"/> <b>Signature (TSP if applicable)</b>		<input type="text"/> <b>Title</b>		<input type="text"/> <b>Date</b>																													
<input type="text"/> <b>Signature (NRCS)</b>		<input type="text"/> <b>Title</b>		<input type="text"/> <b>Date</b>																													
If preferred alternative is not a federal action where NRCS has control or responsibility and this NRCS-CPA-52 is shared with someone other than the client then indicate to whom this is being provided.																																	

**The following sections are to be completed by the Responsible Federal Official (RFO)**

NRCS is the RFO if the action is lead federal agency for NRDA-funded actions planned by NRCS.

**Q. NEPA Compliance Finding (check one)**

The preferred alternative:

Action required

<input type="checkbox"/>	1) is a federal action that has been sufficiently analyzed in an existing NEPA document to which this environmental evaluation is tiered because the expected effects are within the range of those described in the applicable NEPA document and there are no predicted significant adverse environmental effects or extraordinary circumstances.	Document in "R.1" below. No additional analysis is required.
<input type="checkbox"/>	2) is a federal action that has <b>NOT</b> been sufficiently analyzed or may involve predicted significant adverse environmental effects or extraordinary circumstances and may require an EA or EIS.	Contact the State Environmental Liaison. Further NEPA analysis required.

**R. Rationale Supporting the Finding**

R.1

Findings Documentation

*I have considered the effects of the alternatives on the Resource Concerns, Economic and Social Considerations, Special Environmental Concerns, and Extraordinary Circumstances as defined by Agency regulation and policy and based on that made the finding indicated above.*

**S. Signature of Responsible Federal Official:**

Signature

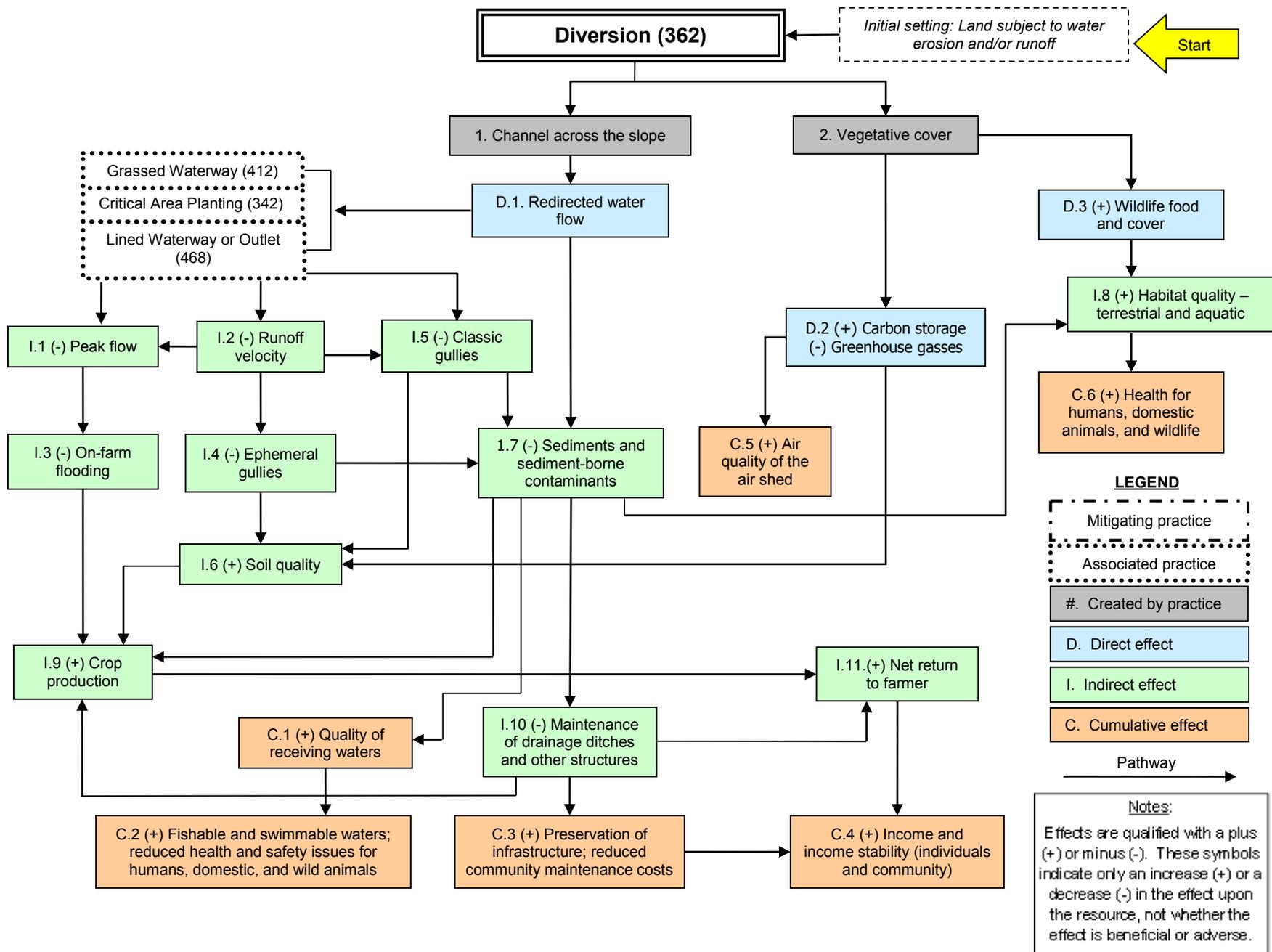
Title

Date

**Additional notes**

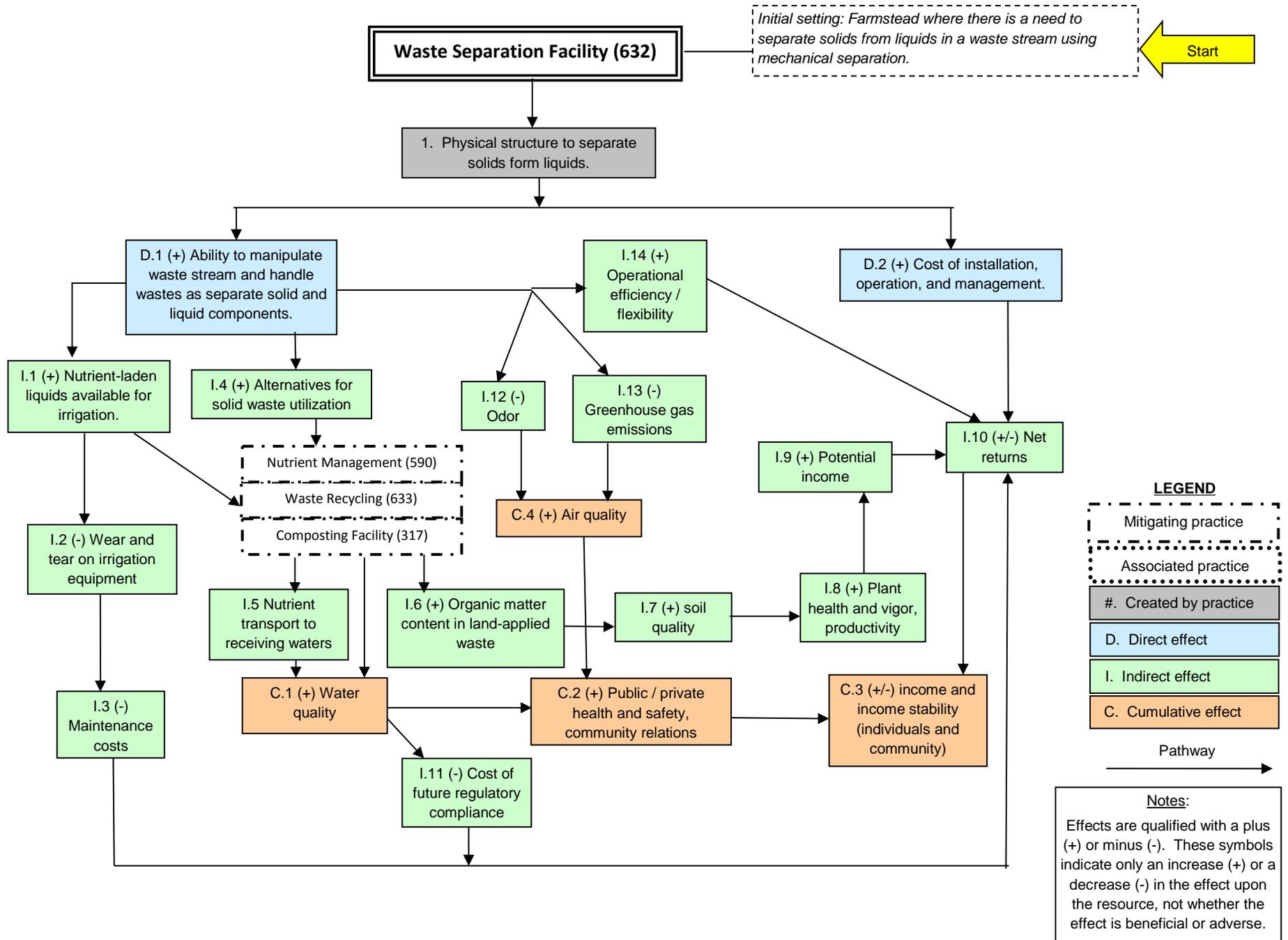
# NRCS CONSERVATION PRACTICE EFFECTS - NETWORK DIAGRAM

May 2016



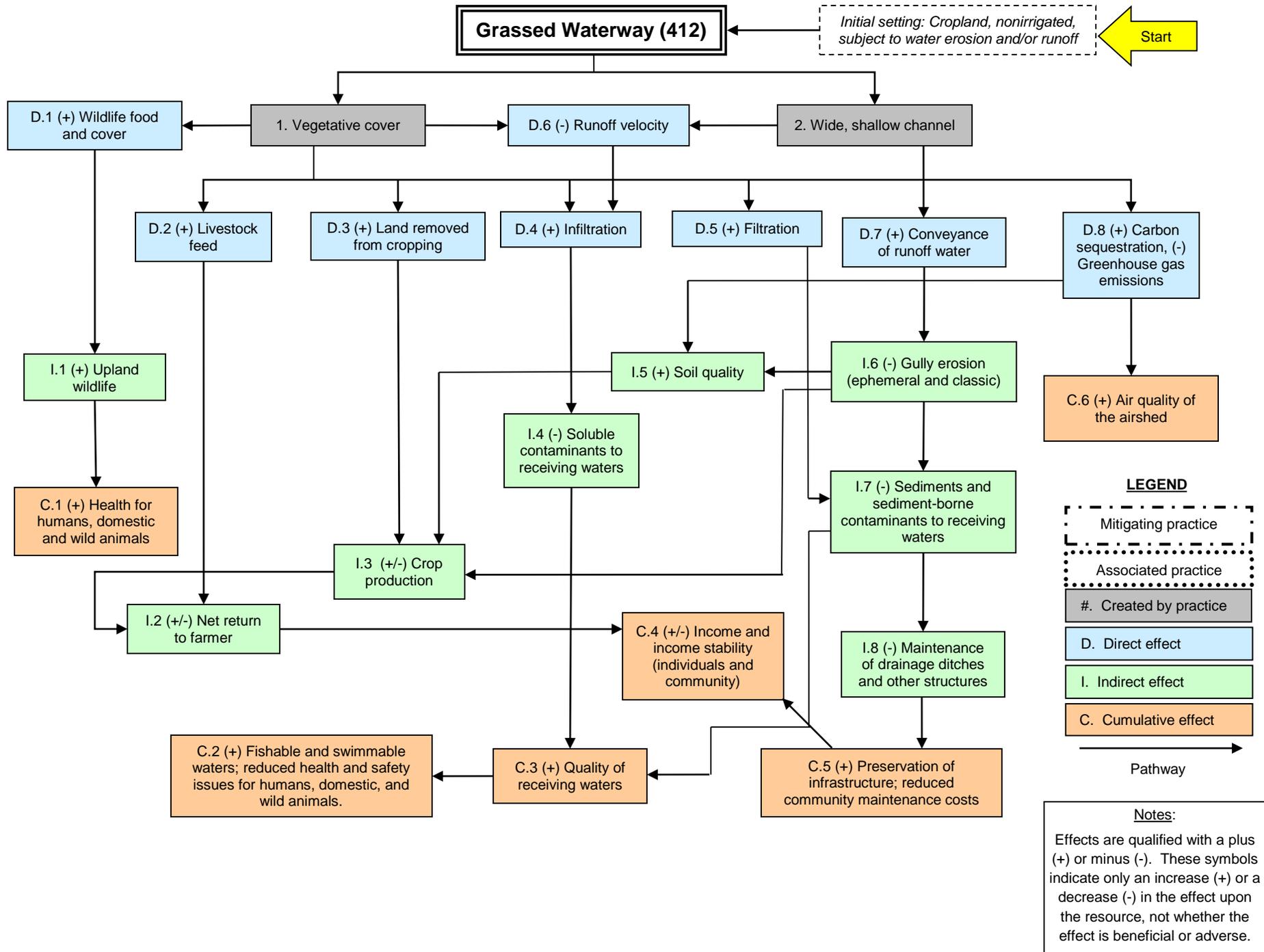
# NRCS CONSERVATION PRACTICE EFFECTS - NETWORK DIAGRAM

March 2014



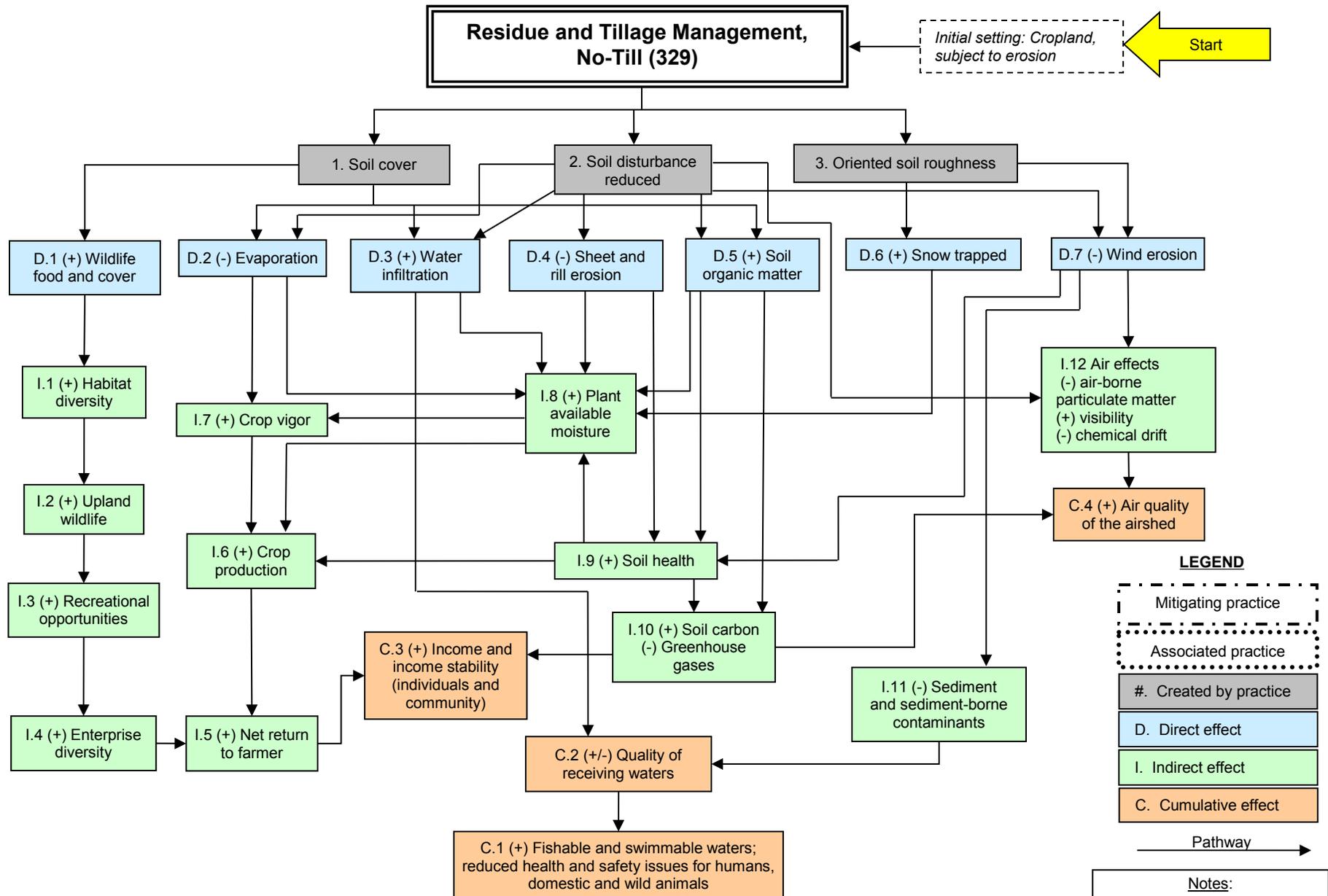
# NRCS CONSERVATION PRACTICE EFFECTS - NETWORK DIAGRAM

September 2014



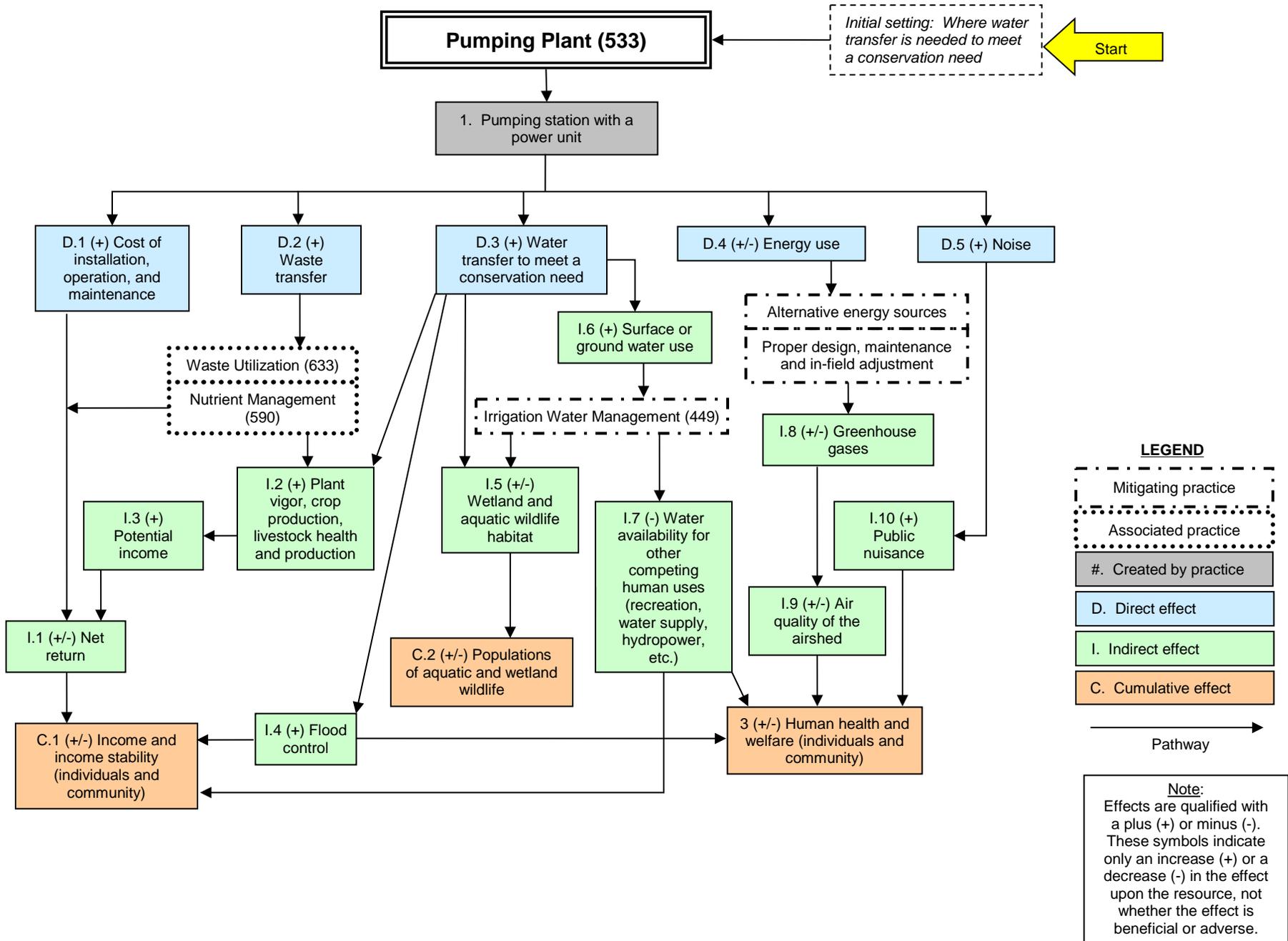
# NRCS CONSERVATION PRACTICE EFFECTS - NETWORK DIAGRAM

September 2016



# NRCS CONSERVATION PRACTICE EFFECTS - NETWORK DIAGRAM

March 2014



# NRCS CONSERVATION PRACTICE EFFECTS - NETWORK DIAGRAM

March 2014

