

**Resource Assessment Worksheet (Optional)**

**Attach to Conservation Assistance Notes**

**Cooperator** \_\_\_\_\_

**Date** \_\_\_\_\_

**Tract/Field No.** \_\_\_\_\_

**Planner** \_\_\_\_\_

Land Use/Land Cover <sup>†</sup>	Grazed	Irrigated	Wildlife
_____ Associated Ag Land	_____	_____	_____
_____ Crop	_____	_____	_____
_____ Designated Protected Area	_____	_____	_____
_____ Developed Land	_____	_____	_____
_____ Farmsteads	_____	_____	_____
_____ Forest	_____	_____	_____
_____ Other Rural Land	_____	_____	_____
_____ Pasture	_____	_____	_____
_____ Range	_____	_____	_____
_____ Water	_____	_____	_____

- Resource Assessments Completed <sup>‡</sup>**
- \_\_\_\_\_ Client input / planner observation
  - \_\_\_\_\_ CO IWM 449 FIRI 2014.1
  - \_\_\_\_\_ Colorado Nitrogen Leaching Index
  - \_\_\_\_\_ Colorado Phosphorus Runoff Index
  - \_\_\_\_\_ Crop Tolerance to Blowing Soil, NAM Table 502-1
  - \_\_\_\_\_ Ecological Site Descriptions (CO eFOTG, Section II)
  - \_\_\_\_\_ Field measurement - aerial extent
  - \_\_\_\_\_ Inventory plots and transect analyses
  - \_\_\_\_\_ Livestock Forage-Animal Balance
  - \_\_\_\_\_ NRCS Energy Estimator Tools
  - \_\_\_\_\_ Animal Housing \_\_\_\_\_ Irrigation \_\_\_\_\_ Nitrogen \_\_\_\_\_ Tillage
  - \_\_\_\_\_ Nutrient budget (Nutrient Management 590 Job Sheet)
  - \_\_\_\_\_ Observation of soil and/or plant condition
  - \_\_\_\_\_ Pasture Condition Score (PCS)
  - \_\_\_\_\_ Proper Functioning Condition (PFC)
  - \_\_\_\_\_ Lentic (wetland) \_\_\_\_\_ Lotic (riparian area)
  - \_\_\_\_\_ Rangeland Health Assessment (RHA)
  - \_\_\_\_\_ Revised Universal Soil Loss Equation (RUSLE2)
  - \_\_\_\_\_ Similarity Index Worksheet
  - \_\_\_\_\_ Soil diagnostic evaluations
  - \_\_\_\_\_ Soil volume x bulk density calculation
  - \_\_\_\_\_ Species-specific habitat assessment tools
  - \_\_\_\_\_ Surface Irrigation Soil Loss (SISL) model
  - \_\_\_\_\_ Stream Visual Assessment Protocol (SVAP2)
  - \_\_\_\_\_ USDA approved Energy Audit
  - \_\_\_\_\_ Visual Inspection
  - \_\_\_\_\_ Water Availability Resource Inventory
  - \_\_\_\_\_ Water Quality Sampling and Analysis
  - \_\_\_\_\_ Wind Erosion Prediction System (WEPS)
  - \_\_\_\_\_ WIN-PST/ Pesticide Mitigation Worksheet

- Identified Resource Concerns <sup>‡</sup>**
- SOIL EROSION**
  - \_\_\_\_\_ 1. Sheet and rill, wind, or irrigation-Induced
  - \_\_\_\_\_ 2. Classic or ephemeral gully concentrated flow
  - \_\_\_\_\_ 3. Excessive bank erosion from streams, shorelines or water conveyance channels
  - SOIL QUALITY DEGRADATION**
  - \_\_\_\_\_ 4. Subsidence
  - \_\_\_\_\_ 5. Compaction
  - \_\_\_\_\_ 6. Organic matter depletion
  - \_\_\_\_\_ 7. Concentration of salts or other chemicals
  - EXCESS/INSUFFICIENT WATER**
  - \_\_\_\_\_ 8. Excess (Ponding, flooding, seasonal high water table, seeps, and drifted snow)
  - \_\_\_\_\_ 9. Insufficient (Inefficient moisture management)
  - \_\_\_\_\_ 10. Insufficient (Inefficient use of irrigation water)
  - WATER QUALITY DEGRADATION**
  - \_\_\_\_\_ 11. Excess nutrients in surface and ground waters
  - \_\_\_\_\_ 12. Pesticides transported to surface and groundwater
  - \_\_\_\_\_ 13. Excess pathogens / chemicals from manure, bio-solids or compost applications
  - \_\_\_\_\_ 14. Excessive salts in surface and groundwater
  - \_\_\_\_\_ 15. Petroleum, heavy metals, and other pollutants transported to receiving waters
  - \_\_\_\_\_ 16. Excessive sediment in surface waters
  - \_\_\_\_\_ 17. Elevated water temperature
  - DEGRADED PLANT CONDITION**
  - \_\_\_\_\_ 18. Undesirable plant productivity and health
  - \_\_\_\_\_ 19. Inadequate structure and composition
  - \_\_\_\_\_ 20. Excessive plant pest pressure
  - \_\_\_\_\_ 21. Wildfire hazard, excess biomass accumulation
  - INADEQUATE HABITAT FOR FISH AND WILDLIFE**
  - \_\_\_\_\_ 22. Habitat degradation
  - LIVESTOCK PRODUCTION LIMITATION**
  - \_\_\_\_\_ 25. Inadequate livestock water
  - \_\_\_\_\_ 23. Inadequate feed and forage
  - \_\_\_\_\_ 24. Inadequate livestock shelter
  - INEFFICIENT ENERGY USE**
  - \_\_\_\_\_ 26. Equipment and facilities
  - \_\_\_\_\_ 27. Farming/ranching practices and field operations
  - AIR QUALITY IMPACTS**
  - \_\_\_\_\_ 28. Particulate Matter (PM) & PM Precursor Emissions
  - \_\_\_\_\_ 29. Emissions of Greenhouse Gases (GHGs)
  - \_\_\_\_\_ 30. Emissions of Ozone Precursors
  - \_\_\_\_\_ 31. Objectionable odors

<sup>†</sup> See National Planning Procedures Handbook Circular 180-14-1 for revised Land Use Designations and Modifiers  
<sup>‡</sup> See National and State Resource Concerns and Planning Criteria (Colorado eFOTG, Section III, Resource Planning Criteria) for Resource Assessments that are required by Resource Concern and Land Use/Land Cover designation.



Land Use/Land Cover <sup>†</sup> and Resource Assessments <sup>‡</sup>

Associated Ag Land	Crop	Designated Protected Area	Developed Land	Farmsteads	Forest	Other Rural Land	Pasture	Range	Water	Grazed	Irrigated	Wildlife	Land Use/Land Cover <sup>†</sup>
													Resource Assessments <sup>‡</sup>
X	X	X	X	X	X	X	X	X	X	X			Client input / planner observation
X	X	X	X	X	X	X	X	X			X		CO IWM 449 FIRI 2014.1
	X						X						Colorado Nitrogen Leaching Index
	X						X						Colorado Phosphorus Runoff Index
X	X	X	X	X		X							Crop Tolerance to Blowing Soil
X		X			X		X	X	X				Ecological Site Descriptions
X	X	X	X	X	X	X	X	X					Field measurement - aerial extent
X	X	X	X	X	X	X	X	X	X				Inventory plots and transect analyses
X	X	X	X	X	X	X	X	X		X			Livestock Forage-Animal Balance
X	X	X	X	X	X	X	X	X	X				NRCS Energy Estimator Tools
X	X	X	X	X	X	X	X	X	X				Nutrient budget
X	X	X			X	X		X					Observation of soil and/or plant condition
							X						Pasture Condition Score (PCS)
X	X	X	X	X	X	X	X	X	X				Proper Functioning Condition (PFC)
								X					Rangeland Health Assessment (RHA)
X	X	X	X	X		X	X						Revised Universal Soil Loss Equation (RUSLE2)
								X					Similarity Index Worksheet
X	X			X			X	X					Soil diagnostic evaluations
X	X	X	X	X	X	X	X	X					Soil volume x bulk density calculation
								X				X	Species-specific habitat assessment tools
	X	X	X	X		X	X						Surface Irrigation Soil Loss (SISL) model
X	X	X	X	X	X	X	X	X	X				Stream Visual Assessment Protocol (SVAP2)
X	X	X	X	X	X	X	X	X	X				USDA approved Energy Audit
					X								Visual Inspection
										X			Water Availability Resource Inventory
										X			Water Quality Sampling and Analysis
X	X	X	X	X		X	X						Wind Erosion Prediction System (WEPS)
X	X	X	X	X	X	X	X	X	X				WIN-PST / Pesticide Mitigation Worksheet

<sup>†</sup> See National Planning Procedures Handbook Circular 180-14-1 for revised Land Use Designations and Modifiers

<sup>‡</sup> See National and State Resource Concerns and Planning Criteria (Colorado eFOTG, Section III, Resource Planning Criteria) for Resource Assessments that may be required by Resource Concern and Land Use/Land Cover designation.

Resource Assessments	Client input / planner observation	CO IWM 449 FRI 2014.1	Colorado Nitrogen Leaching Index	Colorado Phosphorus Runoff Index	Crop Tolerance to Blowing Soil	Ecological Site Descriptions	Field measurement - aerial extent calc	Inventory plots and transect analyses	Livestock Forage-Animal Balance	NRCS Energy Estimator	Nutrient budget	Observation, soil and/or plant condition	Pasture Condition Score (PCS)	Proper Functioning Condition (PFC)	Rangeland Health Assessment (RHA)	Revised Universal Soil Loss Eq. (RUSLE2)	Similarity Index Worksheet	Soil diagnostic evaluations	Soil loss volume x bulk density calculation	Species-specific habitat assessmt	Surface Irrigation Soil Loss (SISL) model	Stream Visual Assessmt Protocol (SVAP2)	USDA approved Energy Audit	Visual Inspection	Water Availability Resource Inventory	Water Quality Sampling and Analysis	Wind Erosion Prediction System (WEPS)	WIN-PST / CO-Pesticide Mitigation Wrkshst
Resource Concerns																												
1. SOIL EROSION - Sheet and rill, wind and/or irrigation-induced															X	X				X				X				
2. SOIL EROSION - Concentrated flow							X												X									
3. SOIL EROSION - Excessive bank erosion from stream banks or conveyance channels													X	X								X						
4. SOIL QUALITY DEGRADATION - Subsidence	X																											
5. SOIL QUALITY DEGRADATION - Compaction	X											X	X		X													
6. SOIL QUALITY DEGRADATION - Organic matter depletion	X												X		X	X											X	
7. SOIL QUALITY DEGRADATION - Concentration of salts or other chemicals																		X										
8. EXCESS WATER - Ponding, flooding, high water table, seeps and/or drifted snow	X																											
9. INSUFFICIENT WATER - Inefficient moisture management	X												X		X													
10. INSUFFICIENT WATER - Inefficient use of irrigation water		X																										
11. WATER QUALITY DEGRADATION - Excess nutrients in surface and groundwater	X		X	X						X		X																
12. WATER QUALITY DEGRADATION - Pesticides in surface and groundwater	X																											X
13. WATER QUALITY DEGRADATION - Pathogens, manure, biosolids or compost	X		X	X																								
14. WATER QUALITY DEGRADATION - Excessive salts, surface and groundwater	X																											
15. WATER QUALITY DEGRADATION - Petroleum, heavy metals, other pollutants	X																											
16. WATER QUALITY DEGRADATION - Excessive sediment in surface waters	X													X	X	X			X		X	X					X	
17. WATER QUALITY DEGRADATION - Elevated water temperature	X													X								X						
18. DEGRADED PLANT CONDITION - Undesirable plant productivity and health	X				X			X					X		X		X											
19. DEGRADED PLANT CONDITION - Inadequate structure and composition					X			X							X		X											
20. DEGRADED PLANT CONDITION - Excessive plant pest pressure	X							X					X		X													
21. DEGRADED PLANT CONDITION - Wildfire hazard, excessive biomass accumulation	X							X																				
22. INADEQUATE HABITAT FOR FISH AND WILDLIFE - Habitat degradation														X						X		X						
23. LIVESTOCK PRODUCTION LIMITATION - Inadequate feed and forage	X								X																			
24. LIVESTOCK PRODUCTION LIMITATION - Inadequate livestock shelter	X																											
25. LIVESTOCK PRODUCTION LIMITATION - Inadequate livestock water	X																							X	X			
26. INEFFICIENT ENERGY USE - Equipment and facilities	X									X													X					
27. INEFFICIENT ENERGY USE - Farming / ranching practices and field operations	X									X													X					
28. AIR QUALITY IMPACTS - Emissions of particulate matter (PM) and PM precursors	X																											
29. AIR QUALITY IMPACTS - Emissions of greenhouse gasses (GHGs)	X																											
30. AIR QUALITY IMPACTS - Emissions of ozone precursors	X																											
31. AIR QUALITY IMPACTS - Objectionable odors	X																											