

## NATIONAL RANKING TEMPLATE

**TEMPLATE NAME** WaterSMART Initiative (WSI)

**PROGRAM** EQIP

LAND USES		MODIFIERS (the modifiers- must be met and are not or but and)													
	Included	Grazed	Included	Irrigated	Included	Drained	Included	Organic	Included	Water Feature	Included	Protected	Included	Hayed	Included
Crop	<input checked="" type="checkbox"/>	Grazed	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>	Drained	<input type="checkbox"/>	Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Hayed	<input type="checkbox"/>
Forest	<input checked="" type="checkbox"/>	Grazed	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>	Drained	<input type="checkbox"/>	Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Hayed	<input type="checkbox"/>
Range	<input checked="" type="checkbox"/>	Grazed	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>	Drained	<input type="checkbox"/>	Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Hayed	<input type="checkbox"/>
Pasture	<input checked="" type="checkbox"/>	Grazed	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>	Drained	<input type="checkbox"/>	Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Hayed	<input type="checkbox"/>
Protected	<input type="checkbox"/>	Grazed	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>	Drained	<input type="checkbox"/>	Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Hayed	<input type="checkbox"/>
Farmstead	<input checked="" type="checkbox"/>	Grazed	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>	Drained	<input type="checkbox"/>	Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Hayed	<input type="checkbox"/>
Developed Land	<input checked="" type="checkbox"/>	Grazed	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>	Drained	<input type="checkbox"/>	Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Hayed	<input type="checkbox"/>
Water	<input checked="" type="checkbox"/>	Grazed	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>	Drained	<input type="checkbox"/>	Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Hayed	<input type="checkbox"/>
Other Rural Land	<input checked="" type="checkbox"/>	Grazed	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>	Drained	<input type="checkbox"/>	Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Hayed	<input type="checkbox"/>
Associated Ag Land	<input checked="" type="checkbox"/>	Grazed	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>	Drained	<input type="checkbox"/>	Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Hayed	<input type="checkbox"/>
Undetermined	<input type="checkbox"/>	Grazed	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>	Drained	<input type="checkbox"/>	Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Hayed	<input type="checkbox"/>

RESOURCE CONCERN CATEGORIES	Min%	Default	Max%	Included	Notes (Reasons for Inclusions)
<b>Air Quality emissions</b>	0	0	0	<input type="checkbox"/>	
Emmissions of airborne reactive nitrogen				<input type="checkbox"/>	
Emmissions of greenhouse gases - GHGs				<input type="checkbox"/>	
Emmissions of ozone precursors				<input type="checkbox"/>	
Emmissions of particulate matter (PM) and Objectionable odor	0	0	0	<input type="checkbox"/>	
Total		0			
<b>Aquatic Habitat</b>	0	0	10	<input checked="" type="checkbox"/>	
Aquatic habitat for fish and other organisms				<input checked="" type="checkbox"/>	
Elevated water temperature	0	100	100	<input type="checkbox"/>	
Total		100			
<b>Concentrated Erosion</b>	0	0	0	<input type="checkbox"/>	
Bank erosion from streams, shorelines, or water conveyances channels	0	0	0	<input type="checkbox"/>	
Classic gully erosion	0	0	0	<input type="checkbox"/>	
Ephemeral gully erosion	0	0	0	<input type="checkbox"/>	
Total		0			
<b>Degraded Plant Condition</b>	0	5	5	<input checked="" type="checkbox"/>	
Plant productivity and health	0	100	100	<input checked="" type="checkbox"/>	
Plant structure and composition	0	0	0	<input type="checkbox"/>	
Total		100			

<b>Field Sediment, Nutrient, and Pathogen Loss</b>	0	5	10	<input checked="" type="checkbox"/>
Nutrients transported to groundwater	0	0	50	<input checked="" type="checkbox"/>
Nutrients transported to surface water	0	0	50	<input checked="" type="checkbox"/>
Pathogens and chemicals from manure, biosolids, or compost applications transported to groundwater	0	0	0	<input type="checkbox"/>
Pathogens and chemicals from manure, biosolids, or compost applications transported to surface water	0	0	0	<input type="checkbox"/>
Sediment transported to surface water	0	100	100	<input checked="" type="checkbox"/>
Total		100		
<b>Field Pesticide Loss</b>	0	0	0	<input type="checkbox"/>
Pesticides transported to groundwater	0	0	0	<input type="checkbox"/>
Pesticides transported to surface water	0	0	0	<input type="checkbox"/>
Total		0		
<b>Fire Management</b>		0		<input type="checkbox"/>
Wildfire hazard from biomass accumulation				<input type="checkbox"/>
Total		0		
<b>Inefficient Energy Use</b>		0		<input type="checkbox"/>
Energy efficient equipment and facilities				<input type="checkbox"/>
Energy efficient farming/ranching practices and field operations				<input type="checkbox"/>
Total		0		
<b>Livestock Production Limitation</b>		0		<input type="checkbox"/>
Feed and forage balance				<input type="checkbox"/>
Inadequate livestock shelter				<input type="checkbox"/>
Inadequate livestock water quantity, quality, and distribution				<input type="checkbox"/>
Total		0		
<b>Pest Pressure</b>		0		<input type="checkbox"/>
Plant pest pressure				<input type="checkbox"/>
Total		0		
<b>Salt Losses to Water</b>	0	0	5	<input checked="" type="checkbox"/>
Salt transported to groundwater	0	50	100	<input checked="" type="checkbox"/>
Salt transported to surface water	0	50	100	<input checked="" type="checkbox"/>
Total		100		
<b>Soil Quality Limitations</b>	0	15	15	<input checked="" type="checkbox"/>
Aggregate instability	0	20	100	<input checked="" type="checkbox"/>
Compaction	0	20	100	<input checked="" type="checkbox"/>
Concentration of salts or other chemicals	0	20	100	<input checked="" type="checkbox"/>
Organic matter depletion	0	20	100	<input checked="" type="checkbox"/>
Soil organism habitat loss or degradation	0	20	100	<input checked="" type="checkbox"/>
Subsidence	0	0	100	<input checked="" type="checkbox"/>
Total		100		

<b>Source Water Depletion</b>	20	50	60	<input checked="" type="checkbox"/>	
Groundwater depletion	0	25	100	<input checked="" type="checkbox"/>	
Inefficient irrigation water use	0	50	100	<input checked="" type="checkbox"/>	
Surface water depletion	0	25	100	<input checked="" type="checkbox"/>	
Total		100			
<b>Storage and Handling of Pollutants</b>	0	0	0	<input type="checkbox"/>	
Nutrients transported to groundwater	0	0	0	<input type="checkbox"/>	
Nutrients transported to surface water	0	0	0	<input type="checkbox"/>	
Petroleum, heavy metals, and other pollutants transported to groundwater	0	0	0	<input type="checkbox"/>	
Petroleum, heavy metals, and other pollutants transported to surface water	0	0	0	<input type="checkbox"/>	
Total		0			
<b>Terrestrial Habitat</b>	0	0	10	<input checked="" type="checkbox"/>	
Terrestrial habitat for wildlife and invertebrates	0	100	100	<input checked="" type="checkbox"/>	
Total		100			
<b>Weather Resilience</b>	0	15	15	<input checked="" type="checkbox"/>	
Drifted snow	0	0	10	<input checked="" type="checkbox"/>	
Naturally available moisture use	0	100	100	<input checked="" type="checkbox"/>	
Ponding and flooding	0	0	20	<input checked="" type="checkbox"/>	
Seasonal high water table	0	0	50	<input checked="" type="checkbox"/>	
Seeps	0	0	20	<input checked="" type="checkbox"/>	
Total		100			
<b>Wind and Water Erosion</b>	0	10	10	<input checked="" type="checkbox"/>	
Sheet and rill erosion	0	100	100	<input checked="" type="checkbox"/>	
Wind erosion	0	0	100	<input checked="" type="checkbox"/>	
Total		100			
<b>Long-term Protection of Land</b>	0	0	0	<input type="checkbox"/>	
Threat of Conversion	0	0	0	<input type="checkbox"/>	
Loss of functions and values	0	0	0	<input type="checkbox"/>	
Total		0			
<b>Resource Concern Categories Total</b>		100			
<b>Conservation Activities</b>	List Activities (see tabs)				
Structural	See list of practices on the standards tab				
Vegetative	See list of practices on the standards tab				
Management	See list of practices on the standards tab				

Enhancements	none
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Easement Practices	none
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<b>RANKING COMPONENT WEIGHTS</b>	Min%	Default	Max%
Vulnerabilities	15	20	40
Planned Practice Points	10	15	15
Resource Priorities	20	50	60
Program Priorities	5	5	15
Efficiency = (Planned Practice Points divided by Average Practice Cost)	10	10	10
<b>Total</b>		100	

<b>PREPARED BY:</b>	Dan Dostie, Areawide Planning Branch
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<b>APPROVED BY:</b>	
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<b>Practice Code</b>	<b>Practice Name</b>	<b>Include</b>
163	Irrigation Water Management Design and Implementation Activity	Yes
311	Alley Cropping	Yes
314	Brush Management	Yes
315	Herbaceous Weed Treatment	Yes
320	Irrigation Canal or Lateral	Yes
324	Deep Tillage	Yes
325	High Tunnel System	Yes
327	Conservation Cover	Yes
328	Conservation Crop Rotation	Yes
329	Residue and Tillage Management, No-Till	Yes
330	Contour Farming	Yes
331	Contour Orchard and Other Perennial Crops	Yes
332	Contour Buffer Strips	Yes
333	Amending Soil Properties with Gypsum Products	Yes
334	Controlled Traffic Farming	Yes
338	Prescribed Burning	Yes
340	Cover Crop	Yes
342	Critical Area Planting	Yes
345	Residue and Tillage Management, Reduced Till	Yes
348	Dam, Diversion	Yes
350	Sediment Basin	Yes
351	Well Decommissioning	Yes
356	Dike	Yes
362	Diversion	Yes
367	Roofs and Covers	Yes
378	Pond	Yes
379	Multi-Story Cropping	Yes
380	Windbreak/Shelterbelt Establishment	Yes
381	Silvopasture Establishment	Yes
383	Fuel Break	Yes
384	Woody Residue Treatment	Yes
386	Field Border	Yes
388	Irrigation Field Ditch	Yes
390	Riparian Herbaceous Cover	Yes
391	Riparian Forest Buffer	Yes
394	Firebreak	Yes
395	Stream Habitat Improvement and Management	Yes
399	Fishpond Management	Yes
402	Dam	Yes
412	Grassed Waterway	Yes
420	Wildlife Habitat Planting	Yes
422	Hedgerow Planting	Yes
423	Hillside Ditch	Yes
428	Irrigation Ditch Lining	Yes

430	Irrigation Pipeline	Yes
432	Dry Hydrant	Yes
436	Irrigation Reservoir	Yes
441	Irrigation System, Microirrigation	Yes
442	Sprinkler System	Yes
443	Irrigation System, Surface and Subsurface	Yes
447	Irrigation System, Tailwater Recovery	Yes
449	Irrigation Water Management	Yes
450	Anionic Polyacrylamide (PAM) Application	Yes
453	Land Reclamation, Landslide Treatment	Yes
455	Land Reclamation, Toxic Discharge Control	Yes
460	Land Clearing	Yes
462	Precision Land Forming	Yes
464	Irrigation Land Leveling	Yes
466	Land Smoothing	Yes
468	Lined Waterway or Outlet	Yes
472	Access Control	Yes
484	Mulching	Yes
490	Tree/Shrub Site Preparation	Yes
511	Forage Harvest Management	Yes
512	Forage and Biomass Planting	Yes
516	Livestock Pipeline	Yes
520	Pond Sealing or Lining, Compacted Soil Treatment	Yes
521	Pond Sealing or Lining, Geomembrane or Geosynthetic Clay	Yes
522	Pond Sealing or Lining - Concrete	Yes
528	Prescribed Grazing	Yes
533	Pumping Plant	Yes
548	Grazing Land Mechanical Treatment	Yes
550	Range Planting	Yes
554	Drainage Water Management	Yes
555	Rock Barrier	Yes
557	Row Arrangement	Yes
558	Roof Runoff Structure	Yes
570	Stormwater Runoff Control	Yes
574	Spring Development	Yes
580	Streambank and Shoreline Protection	Yes
582	Open Channel	Yes
584	Channel Bed Stabilization	Yes
585	Stripcropping	Yes
587	Structure for Water Control	Yes
588	Crosswind Ridges	Yes
590	Nutrient Management	Yes
600	Terrace	Yes
601	Vegetative Barrier	Yes
603	Herbaceous Wind Barriers	Yes
604	Saturated Buffer	Yes
607	Surface Drain, Field Ditch	Yes

608	Surface Drain, Main or Lateral	Yes
609	Surface Roughening	Yes
610	Salinity and Sodic Soil Management	Yes
612	Tree/Shrub Establishment	Yes
614	Watering Facility	Yes
620	Underground Outlet	Yes
633	Waste Recycling	Yes
636	Water Harvesting Catchment	Yes
638	Water and Sediment Control Basin	Yes
640	Waterspreading	Yes
642	Water Well	Yes
643	Restoration of Rare or Declining Natural Communities	Yes
644	Wetland Wildlife Habitat Management	Yes
645	Upland Wildlife Habitat Management	Yes
647	Early Successional Habitat Development/Management	Yes
650	Windbreak/Shelterbelt Renovation	Yes
657	Wetland Restoration	Yes
658	Wetland Creation	Yes
659	Wetland Enhancement	Yes
740	Pond Sealing and Lining, Soil Cement	Yes
751	Individual Terrace	Yes
753	Infiltration Ditches	Yes
755	Well Plugging	Yes
775	Drainage Ditch Covering	Yes
782	Phosphorous Removal System	Yes
796	Milking Center Wastewater Treatment	Yes
800	Controlling Retain Flowing Wells	Yes
803	Water Well Disinfection	Yes
808	Soil Carbon Amendment	Yes
810	Annual Forages for Grazing System	Yes
812	Managing Above Ground Crop Systems For Urban Ag	Yes
815	Groundwater Recharge Basin or Trench	Yes
817	On-Farm Recharge	Yes
428A	Irrigation Water Conveyance, Ditch and Canal Lining, Plain Concrete	Yes
428B	Irrigation Water Conveyance, Ditch and Canal Lining, Flexible Membrane	Yes
428C	Irrigation Water Conveyance, Ditch and Canal Lining, Galvanized Steel	Yes
521A	Pond Sealing or Lining, Flexible Membrane	Yes
521B	Pond Sealing or Lining, Soil Dispersant	Yes
521C	Pond Sealing or Lining, Bentonite Sealant	Yes
521D	Pond Sealing or Lining, Compacted Clay Treatment	Yes
589C	Cross Wind Trap Strips	Yes