

NATIONAL RANKING TEMPLATE

TEMPLATE NAME

NWQI - Amended October 2022

PROGRAM

EQIP

LAND USES

MODIFIERS (the modifiers- must be met and are not or but and)

	Included		Included		Included		Included		Included		Included		Included		Included		Included		Included
Crop	<input checked="" type="checkbox"/>	Grazed	<input type="checkbox"/>	Wildlife	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>	Hayed	<input type="checkbox"/>	Drained	<input type="checkbox"/>	Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Urban	<input type="checkbox"/>
Forest	<input checked="" type="checkbox"/>	Grazed	<input type="checkbox"/>	Wildlife	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>					Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Urban	<input type="checkbox"/>
Range	<input checked="" type="checkbox"/>	Grazed	<input type="checkbox"/>	Wildlife	<input type="checkbox"/>			Hayed	<input type="checkbox"/>			Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Urban	<input type="checkbox"/>
Pasture	<input checked="" type="checkbox"/>	Grazed	<input type="checkbox"/>	Wildlife	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>	Hayed	<input type="checkbox"/>	Drained	<input type="checkbox"/>	Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Urban	<input type="checkbox"/>
Farmstead	<input checked="" type="checkbox"/>	Grazed	<input type="checkbox"/>	Wildlife	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>					Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Urban	<input type="checkbox"/>
Developed Land	<input type="checkbox"/>			Wildlife	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>					Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Urban	<input type="checkbox"/>
Water	<input checked="" type="checkbox"/>			Wildlife	<input type="checkbox"/>							Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Urban	<input type="checkbox"/>
Other Rural Land	<input checked="" type="checkbox"/>	Grazed	<input type="checkbox"/>	Wildlife	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>					Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Urban	<input type="checkbox"/>
Associated Ag Land	<input checked="" type="checkbox"/>	Grazed	<input type="checkbox"/>	Wildlife	<input type="checkbox"/>	Irrigated	<input type="checkbox"/>	Hayed	<input type="checkbox"/>			Organic	<input type="checkbox"/>	Water Feature	<input type="checkbox"/>	Protected	<input type="checkbox"/>	Urban	<input type="checkbox"/>

RESOURCE CONCERN CATEGORIES

	Min%	Default	Max%	Included
Air Quality emissions	0	0	0	<input type="checkbox"/>
Emissions of airborne reactive nitrogen				<input type="checkbox"/>
Emissions of greenhouse gases - GHGs				<input type="checkbox"/>
Emissions of ozone precursors				<input type="checkbox"/>
Emissions of particulate matter (PM) and PM precursors				<input type="checkbox"/>
Objectionable odor				<input type="checkbox"/>
Total		0		
Aquatic Habitat	0	5	10	<input checked="" type="checkbox"/>
Aquatic habitat for fish and other organisms	0	50	100	<input checked="" type="checkbox"/>
Elevated water temperature	0	50	100	<input checked="" type="checkbox"/>
Total		100		
Concentrated Erosion	10	15	40	<input checked="" type="checkbox"/>
Bank erosion from streams, shorelines, or water conveyances channels	20	50	60	<input checked="" type="checkbox"/>
Classic gully erosion	20	35	60	<input checked="" type="checkbox"/>
Ephemeral gully erosion	15	15	60	<input checked="" type="checkbox"/>
Total		100		
Degraded Plant Condition	0	0	0	<input type="checkbox"/>
Plant productivity and health				<input type="checkbox"/>
Plant structure and composition				<input type="checkbox"/>
Total		0		
Field Pesticide Loss	0	5	5	<input checked="" type="checkbox"/>
Pesticides transported to groundwater	0	60	100	<input checked="" type="checkbox"/>
Pesticides transported to surface water	0	40	100	<input checked="" type="checkbox"/>
Total		100		
Field Sediment, Nutrient, and Pathogen Loss	20	30	80	<input checked="" type="checkbox"/>
Nutrients transported to groundwater	10	20	60	<input checked="" type="checkbox"/>
Nutrients transported to surface water	10	20	60	<input checked="" type="checkbox"/>

Pathogens and chemicals from manure, biosolids, or compost applications transported to groundwater	10	20	60	<input type="checkbox"/>
Pathogens and chemicals from manure, biosolids, or compost applications transported to surface water	10	20	60	<input type="checkbox"/>
Sediment transported to surface water	10	20	60	<input type="checkbox"/>
Total		100		
Fire Management	0	0	0	<input type="checkbox"/>
Wildfire hazard from biomass accumulation				<input type="checkbox"/>
Total		0		
Inefficient Energy Use	0	0	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		
Livestock Production Limitation	0	0	0	<input type="checkbox"/>
Feed and forage balance				<input type="checkbox"/>
Inadequate livestock shelter				<input type="checkbox"/>
distribution				<input type="checkbox"/>
Total		0		
Long-term Protection of Land	0	0	0	<input type="checkbox"/>
Loss of functions and values				<input type="checkbox"/>
Threat of Conversion				<input type="checkbox"/>
Total		0		
Pest Pressure	0	0	0	<input type="checkbox"/>
Plant pest pressure				<input type="checkbox"/>
Total		0		
Salt Losses to Water	0	5	10	<input type="checkbox"/>
Salt transported to groundwater	0	50	100	<input type="checkbox"/>
Salt transported to surface water	0	50	100	<input type="checkbox"/>
Total		100		
Soil Quality Limitations	0	5	10	<input type="checkbox"/>
Aggregate instability	0	20	100	<input type="checkbox"/>
Compaction	0	20	100	<input type="checkbox"/>
Concentration of salts or other chemicals	0	20	100	<input type="checkbox"/>
Organic matter depletion	0	20	100	<input type="checkbox"/>
Soil organism habitat loss or degradation	0	10	100	<input type="checkbox"/>
Subsidence	0	10	100	<input type="checkbox"/>
Total		100		
Source Water Depletion	0	5	20	<input type="checkbox"/>
Groundwater depletion	0	25	100	<input type="checkbox"/>
Inefficient irrigation water use	0	50	100	<input type="checkbox"/>
Surface water depletion	0	25	100	<input type="checkbox"/>
Total		100		
Storage and Handling of Pollutants	10	25	50	<input type="checkbox"/>
Nutrients transported to groundwater	10	30	70	<input type="checkbox"/>
Nutrients transported to surface water	10	30	70	<input type="checkbox"/>
Petroleum, heavy metals, and other pollutants transported to groundwater	10	20	70	<input type="checkbox"/>
Petroleum, heavy metals, and other pollutants transported to surface water	10	20	70	<input type="checkbox"/>

Total		100			
Terrestrial Habitat	0	0	0	<input type="checkbox"/>	
Terrestrial habitat for wildlife and invertebrates				<input type="checkbox"/>	
Total	0				
Weather Resilience	0	0	0	<input type="checkbox"/>	
Drifted snow				<input type="checkbox"/>	
Naturally available moisture use				<input type="checkbox"/>	
Ponding and flooding				<input type="checkbox"/>	
Seasonal high water table				<input type="checkbox"/>	
Seeps				<input type="checkbox"/>	
Total	0				
Wind and Water Erosion	5	5	5	<input checked="" type="checkbox"/>	
Sheet and rill erosion	10	80	100	<input checked="" type="checkbox"/>	
Wind erosion	0	20	90	<input checked="" type="checkbox"/>	
Total		100			
Resource Concern Categories Total		100			
Conservation Activities	CART Practices				
Practices	All conservation practices are available in this template but actual availability will be limited by NWQI watershed assessment. Refer to NWQI National Instruction 440-307.28 for additional guidance				
RANKING COMPONENT WEIGHTS	Min%	Default	Max%	Max Point	Ranking Algorithm Adjustments
					Default A B C D E F G H I
Vulnerabilities	15	20	40		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Planned Practice Points	10	15	15		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Resource Priorities	20	50	60		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Program Priorities	5	5	15		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Efficiency	10	10	10		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Total		100			

Practice Code	Practice Name	Include
101	CNMP Design and Implementation Activity	X
102	Comprehensive Nutrient Management Plan	X
103	Comprehensive Nutrient Management Plan - Applied	X
104	Nutrient Management Plan - Written	X
105	Nutrient Management Plan - Applied	X
106	Forest Management Plan	X
107	Forest Management Plan - Applied	X
108	Feed Management Plan - Written	X
109	Feed Management Plan - Applied	X
110	Grazing Management Plan	X
111	Grazing Management Plan - Applied	X
112	Prescribed Burning Plan - Written	X
113	Prescribed Burning Plan - Applied	X
114	Integrated Pest Management Plan - Written	X
115	Integrated Pest Management Plan - Applied	X
116	Soil Health Management Plan	X
117	Soil Health Management Plan - Applied	X
118	Irrigation Water Management Plan - Written	X
119	Irrigation Water Management Plan - Applied	X
120	Agricultural Energy Design	X
122	Agricultural Energy Management Plan, Headquarters - Written	X
123	Agricultural Energy Management Plan, Headquarters - Applied	X
124	Agricultural Energy Management Plan, Landscape - Written	X
125	Agricultural Energy Management Plan, Landscape - Applied	X
128	Agricultural Energy Management Plan - Written	X
129	Ag Energy Management Plan - Applied	X
130	Drainage Water Management Plan - Written	X
131	Drainage Water Management Plan - Applied	X
132	Soil Resources Planning - Written	X
133	Soil Resources Planning - Applied	X
136	Ag Energy Design Plan - Written	X
137	Ag Energy Design Plan - Applied	X
138	Conservation Plan Supporting Organic Transition	X
139	Conservation Plan Supporting Organic Transition - Applied	X
140	Organic Transition Design and Implementation Activity	X
142	Fish and Wildlife Habitat Plan - Written	X
143	Fish and Wildlife Habitat Plan - Applied	X
144	Fish and Wildlife Habitat Design and Implementation Activity	X
146	Pollinator Habitat Plan - Written	X
147	Pollinator Habitat Plan - Applied	X
148	Pollinator Habitat Design and Implementation Activity	X
150	Spill Prevention, Control and Countermeasure (SPCC) Plan - Written	X
151	Spill Prevention, Control and Countermeasure (SPCC) Plan - Applied	X
154	IPM Herbicide Resistance Weed Conservation Plan - Written	X
155	IPM Herbicide Resistance Weed Conservation Plan - Applied	X
157	Nutrient Management Design and Implementation Activity	X
158	Feed Management Design and Implementation Activity	X

Practice Code	Practice Name	Include
159	Grazing Management Design and Implementation Activity	X
160	Prescribed Burning Design and Implementation Activity	X
161	Pest Management Conservation System Design and Implementation Activity	X
162	Soil Health Design and Implementation Activity	X
163	Irrigation Water Management Design and Implementation Activity	X
164	Drainage Water Management Design and Implementation Activity	X
165	Forest Management Design and Implementation Activity	X
199	Conservation Plan	X
201	Edge-of-Field Water Quality Monitoring-Data Collection and Evaluation	X
202	Edge-of-Field Water Quality Monitoring-System Installation	X
207	Soil Assessment and Soil Testing for Contaminants Activity	X
209	PFAS Testing in Water or Soil	X
216	Soil Health Testing	X
217	Soil and Source Testing for Nutrient Management	X
218	Carbon Sequestration and Greenhouse Gas Mitigation Assessment	X
221	Soil Organic Carbon Stock Monitoring	X
222	Indigenous Stewardship Methods Evaluation	X
223	Forest Management Assessment	X
224	Aquifer Flow Test	X
228	Agricultural Energy Assessment Activity	X
297	Feral Swine Damage Assessment	X
309	Agrichemical Handling Facility	X
311	Alley Cropping	X
313	Waste Storage Facility	X
314	Brush Management	X
315	Herbaceous Weed Treatment	X
316	Animal Mortality Facility	X
317	Composting Facility	X
318	Short Term Storage of Animal Waste and Byproducts	X
319	On-Farm Secondary Containment Facility	X
320	Irrigation Canal or Lateral	X
324	Deep Tillage	X
325	High Tunnel System	X
326	Clearing and Snagging	X
327	Conservation Cover	X
328	Conservation Crop Rotation	X
329	Residue and Tillage Management, No-Till	X
330	Contour Farming	X
331	Contour Orchard and Other Perennial Crops	X
332	Contour Buffer Strips	X
333	Amending Soil Properties with Gypsum Products	X
334	Controlled Traffic Farming	X
336	Soil Carbon Amendment	X
338	Prescribed Burning	X
340	Cover Crop	X
342	Critical Area Planting	X
345	Residue and Tillage Management, Reduced Till	X

Practice Code	Practice Name	Include
348	Dam, Diversion	X
350	Sediment Basin	X
351	Well Decommissioning	X
353	Monitoring Well	X
355	Groundwater Testing	X
356	Dike and Levee	X
359	Waste Treatment Lagoon	X
360	Waste Facility Closure	X
362	Diversion	X
366	Anaerobic Digester	X
367	Roofs and Covers	X
368	Emergency Animal Mortality Management	X
371	Air Filtration and Scrubbing	X
372	Combustion System Improvement	X
373	Dust Control on Unpaved Roads and Surfaces	X
374	Farmstead Energy Improvement	X
375	Dust Control From Animal Activity on Open Lot Surfaces	X
376	Field Operations Emissions Reduction	X
378	Pond	X
379	Forest Farming	X
380	Windbreak/Shelterbelt Establishment	X
381	Silvopasture Establishment	X
382	Fence	X
383	Fuel Break	X
384	Woody Residue Treatment	X
386	Field Border	X
388	Irrigation Field Ditch	X
390	Riparian Herbaceous Cover	X
391	Riparian Forest Buffer	X
393	Filter Strip	X
394	Firebreak	X
395	Stream Habitat Improvement and Management	X
396	Aquatic Organism Passage	X
397	Aquaculture Ponds	X
398	Fish Raceway or Tank	X
399	Fishpond Management	X
400	Bivalve Aquaculture Gear and Biofouling Control	X
402	Dam	X
410	Grade Stabilization Structure	X
412	Grassed Waterway	X
420	Wildlife Habitat Planting	X
422	Hedgerow Planting	X
423	Hillside Ditch	X
428	Irrigation Ditch Lining	X
428A	Irrigation Water Conveyance, Ditch and Canal Lining, Plain Concrete	X
428B	Irrigation Water Conveyance, Ditch and Canal Lining, Flexible Membrane	X
428C	Irrigation Water Conveyance, Ditch and Canal Lining, Galvanized Steel	X

Practice Code	Practice Name	Include
430	Irrigation Pipeline	X
432	Dry Hydrant	X
436	Irrigation Reservoir	X
441	Irrigation System, Microirrigation	X
442	Sprinkler System	X
443	Irrigation System, Surface and Subsurface	X
447	Irrigation System, Tailwater Recovery	X
449	Irrigation Water Management	X
450	Anionic Polyacrylamide (PAM) Application	X
453	Land Reclamation, Landslide Treatment	X
455	Land Reclamation, Toxic Discharge Control	X
457	Mine Shaft and Adit Closing	X
460	Land Clearing	X
462	Precision Land Forming	X
464	Irrigation Land Leveling	X
466	Land Smoothing	X
468	Lined Waterway or Outlet	X
472	Access Control	X
484	Mulching	X
490	Tree/Shrub Site Preparation	X
500	Obstruction Removal	X
511	Forage Harvest Management	X
512	Forage and Biomass Planting	X
516	Livestock Pipeline	X
520	Pond Sealing or Lining, Compacted Soil Treatment	X
521	Pond Sealing or Lining, Geomembrane or Geosynthetic Clay Liner	X
521A	Pond Sealing or Lining, Flexible Membrane	X
521B	Pond Sealing or Lining, Soil Dispersant	X
521C	Pond Sealing or Lining, Bentonite Sealant	X
521D	Pond Sealing or Lining, Compacted Clay Treatment	X
522	Pond Sealing or Lining - Concrete	X
527	Karst Sinkhole Treatment	X
528	Prescribed Grazing	X
533	Pumping Plant	X
543	Land Reclamation, Abandoned Mined Land	X
544	Land Reclamation, Currently Mined Land	X
548	Grazing Land Mechanical Treatment	X
550	Range Planting	X
554	Drainage Water Management	X
555	Rock Barrier	X
557	Row Arrangement	X
558	Roof Runoff Structure	X
560	Access Road	X
561	Heavy Use Area Protection	X
562	Recreation Area Improvement	X
566	Recreation Land Grading and Shaping	X
570	Stormwater Runoff Control	X

Practice Code	Practice Name	Include
572	Spoil Spreading	X
574	Spring Development	X
575	Trails and Walkways	X
576	Livestock Shelter Structure	X
578	Stream Crossing	X
580	Streambank and Shoreline Protection	X
582	Open Channel	X
584	Channel Bed Stabilization	X
585	Stripcropping	X
587	Structure for Water Control	X
588	Crosswind Ridges	X
589	Cross Wind Trap Strips	X
590	Nutrient Management	X
591	Amendments for the Treatment of Agricultural Waste	X
592	Feed Management	X
595	Integrated Pest Management	X
600	Terrace	X
601	Vegetative Barrier	X
602	Equitable Relief	X
603	Herbaceous Wind Barriers	X
604	Saturated Buffer	X
605	Denitrifying Bioreactor	X
606	Subsurface Drain	X
607	Surface Drain, Field Ditch	X
608	Surface Drain, Main or Lateral	X
609	Surface Roughening	X
610	Salinity and Sodic Soil Management	X
612	Tree/Shrub Establishment	X
614	Watering Facility	X
620	Underground Outlet	X
627	Milk House Wastewater Treatment System	X
629	Waste Treatment	X
630	Vertical Drain	X
632	Waste Separation Facility	X
633	Waste Recycling	X
634	Waste Transfer	X
635	Vegetated Treatment Area	X
636	Water Harvesting Catchment	X
638	Water and Sediment Control Basin	X
640	Waterspreading	X
642	Water Well	X
643	Restoration of Rare or Declining Natural Communities	X
644	Wetland Wildlife Habitat Management	X
645	Upland Wildlife Habitat Management	X
646	Shallow Water Development and Management	X
647	Early Successional Habitat Development/Management	X
649	Structures for Wildlife	X

Practice Code	Practice Name	Include
650	Windbreak/Shelterbelt Renovation	X
654	Road/Trail/Landing Closure & Treatment	X
655	Forest Trails and Landings	X
656	Constructed Wetland	X
657	Wetland Restoration	X
658	Wetland Creation	X
659	Wetland Enhancement	X
660	Tree-Shrub Pruning	X
666	Forest Stand Improvement	X
670	Lighting System Improvement	X
672	Building Envelope Improvement	X
724	Water Treatment Facility	X
735	Waste Gasification Facility	X
736	Crop By-Product Transfer	X
737	Reduced Water and Energy Coffee Conveyance System	X
740	Pond Sealing and Lining, Soil Cement	X
751	Individual Terrace	X
753	Infiltration Ditches	X
755	Well Plugging	X
770	Livestock Confinement Facility	X
775	Drainage Ditch Covering	X
782	Phosphorous Removal System	X
796	Milking Center Wastewater Treatment	X
800	Controlling Existing Flowing Wells	X
803	Water Well Disinfection	X
805	Amending Soil Properties with Lime	X
807	Site Assessment and Soil Testing for Contaminants	X
808	Soil Carbon Amendment	X
809	Conservation Harvest Management	X
810	Annual Forages for Grazing System	X
812	Raised Bed	X
815	Groundwater Recharge Basin or Trench	X
817	On-Farm Recharge	X
821	Low Tunnel Systems	X
823	Organic Management	X
910	TA Planning	X
911	TA Design	X
912	TA Application	X
913	TA Check-Out	X