

NATIONAL RANKING TEMPLATE

TEMPLATE NAME

MRBI - Amended October 2022

PROGRAM

CSP

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 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	40	60	<input checked="" type="checkbox"/>
Classic gully erosion	20	30	60	<input checked="" type="checkbox"/>
Ephemeral gully erosion	20	30	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	5	5	15	<input checked="" type="checkbox"/>
Pesticides transported to groundwater	5	50	95	<input checked="" type="checkbox"/>
Pesticides transported to surface water	5	50	95	<input checked="" type="checkbox"/>
Total		100		
Field Sediment, Nutrient, and Pathogen Loss	20	25	65	<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	5	15	<input type="checkbox"/>
Subsidence	0	15	100	<input type="checkbox"/>
Total		100		
Source Water Depletion	0	5	5	<input type="checkbox"/>
Groundwater depletion	0	10	10	<input type="checkbox"/>
Inefficient irrigation water use	5	80	100	<input type="checkbox"/>
Surface water depletion	0	10	10	<input type="checkbox"/>
Total		100		
Storage and Handling of Pollutants	10	20	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	15	20	<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 and enhancements are available in this template but actual availability will be limited by MRBI watershed assessment. Refer to MRBI National Instruction 440-307.27 for additional guidance. Some practices may be checked, but not available for use in CSP. Do not include any practices not allowed in CSP - refer to current FY guidance.													
RANKING COMPONENT WEIGHTS	Min%	Default	Max%	Max Point	Ranking Algorithm Adjustments									
					Default	A	B	C	D	E	F	G	H	I
Vulnerabilities	14	20	40		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>							
Planned Practice Points	10	15	15		<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
Resource Priorities	20	50	60		<input checked="" type="checkbox"/>									
Program Priorities	5	5	15		<input checked="" type="checkbox"/>									
Efficiency	10	10	10		<input checked="" type="checkbox"/>						<input type="checkbox"/>			
Total		100												
PREPARED BY:	Martin Lowenfish													
APPROVED BY:														

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
B000BFF1	Buffer Bundle#1	X
B000CPL10	YEAR 1 Irrigated Cropland (MRBI/Ogallala)	X
B000CPL11	YEAR 2+ Irrigated Cropland (MRBI/Ogallala)	X
B000CPL12	Non-Irrigated Precision Ag (MRBI)	X
B000CPL13	Non-Irrigated Cropland (MRBI)	X
B000CPL14	YEAR 1 Irrigated Precision Ag Cropland (MRBI)	X
B000CPL15	YEAR 2+ Irrigated Precision Ag Cropland (MRBI)	X
B000CPL16	Non-Irrigated Cropland with Water Bodies (MRBI)	X

Practice Code	Practice Name	Include
B000CPL17	Non-Irrigated Cropland with Water Bodies Riparian Forest Buffer (MRBI)	X
B000CPL18	Crop Bundle #18 - Precision Ag	X
B000CPL19	Crop Bundle #19 - Soil Health Precision Ag	X
B000CPL20	Crop Bundle #20 - Soil Health Assessment	X
B000CPL21	Crop Bundle #21 - Crop Bundle (Organic)	X
B000CPL22	Crop Bundle #22 - Erosion Bundle (Organic)	X
B000CPL23	Crop Bundle #23 – Pheasant and quail habitat	X
B000CPL24	Crop Bundle #24 – Cropland Soil Health Management System	X
B000CPL25	Climate Smart Advanced Soil Health	X
B000FST1	Forest Bundle#1	X
B000FST2	Forest Bundle #2 - Post-fire Management	X
B000FST3	Forest Bundle #3	X
B000FST4	Forest Bundle #4	X
B000GRZ1	Grazing Bundle 1 - Range and Pasture	X
B000GRZ2	Grazing Bundle 2 - Range and Pasture	X
B000GRZ3	Grazing Bundle 3 - Range and Pasture	X
B000GRZ4	Grazing Bundle 4 - Range and Pasture	X
B000GRZ5	Grazing Bundle 5 - Range and Pasture	X
B000LLP1	Longleaf Pine Bundle#1	X
B000LLP2	Longleaf Pine Bundle#2	X
B000LLP3	Longleaf Pine Bundle#3	X
B000LLP4	Longleaf Pine Bundle#4	X
B000LLP5	Longleaf Pine Bundle#5	X
B000LLP6	Longleaf Pine Bundle#6	X
B000PST5	Pasture Bundle 5	X
B000PSTX	Pasture Bundle #6 - Pasture	X
B000RNG2	Range Bundle 2	X
B000RNG4	Range Bundle 4	X
B00BFF2	Buffer Bundle#2	X
E199A	Comprehensive Conservation Plan	X
E300EAP1	Existing Activity Payment-Land Use	X
E300EAP2	Existing Activity Payment-Resource Concern	X
E300GCI	Grassland Conservation Initiative	X
E313A	Bedded Pack - Sidewall Curtain Management	X
E314A	Brush management to improve wildlife habitat	X
E315A	Herbaceous weed treatment to create desired plant communities consistent with the ecological site	X
E327A	Conservation cover for pollinators and beneficial insects	X
E327B	Establish Monarch butterfly habitat	X
E328A	Resource conserving crop rotation	X
E328B	Improved resource conserving crop rotation	X
E328C	Conservation crop rotation on recently converted CRP grass/legume cover	X
E328D	Leave standing grain crops unharvested to benefit wildlife	X
E328E	Soil health crop rotation	X
E328F	Modifications to improve soil health and increase soil organic matter	X
E328G	improvement	X
E328H	Conservation crop rotation to reduce the concentration of salts	X

Practice Code	Practice Name	Include
E328I	Forage harvest to reduce water quality impacts by utilization of excess soil nutrients	X
E328J	Improved crop rotation to provide benefits to pollinators	X
E328K	Multiple crop types to benefit wildlife	X
E328L	Leaving tall crop residue for wildlife	X
E328M	Diversify crop rotation with canola or sunflower to provide benefits to pollinators	X
E328N	Intercropping to Improve Soil Health	X
E328O	Perennial Grain Conservation Crop Rotation	X
E328P	Low Nitrogen Requirement Annual Crop Rotation	X
E329A	No till to reduce soil erosion	X
E329B	No till to reduce tillage induced particulate matter	X
E329C	No till to increase plant-available moisture	X
E329D	No till system to increase soil health and soil organic matter content	X
E329E	No till to reduce energy	X
E334A	Controlled traffic farming to reduce compaction	X
E338A	Strategically planned, patch burning for grazing distribution and wildlife habitat	X
E338B	Short-interval burns to promote a healthy herbaceous plant community	X
E338C	Sequential patch burning	X
E340A	Cover crop to reduce soil erosion	X
E340B	Intensive cover cropping to increase soil health and soil organic matter content	X
E340C	Use of multi-species cover crops to improve soil health and increase soil organic matter	X
E340D	Intensive orchard/vineyard floor cover cropping to increase soil health	X
E340E	health	X
E340F	Cover crop to minimize soil compaction	X
E340G	Cover crop to reduce water quality degradation by utilizing excess soil nutrients	X
E340H	Cover crop to suppress excessive weed pressures and break pest cycles	X
E340I	Using cover crops for biological strip till	X
E345A	Reduced tillage to reduce soil erosion	X
E345B	Reduced tillage to reduce tillage induced particulate matter	X
E345C	Reduced tillage to increase plant-available moisture	X
E345D	Reduced tillage to increase soil health and soil organic matter content	X
E345E	Reduced tillage to reduce energy use	X
E373A	Dust suppressant re-application for stabilization	X
E374A	Install variable frequency drive(s) on pump(s)	X
E374B	Switch fuel source for pump motor(s)	X
E376A	Modify field operations to reduce particulate matter	X
E381A	Silvopasture to improve wildlife habitat	X
E382A	Incorporating "wildlife friendly" fencing for connectivity of wildlife food resources	X
E382B	Installing electrical fence offsets and wire for cross-fencing to improve grazing management	X
E383A	Grazing-maintained fuel break to reduce the risk of fire	X
E384A	Biochar production from woody residue	X
E386A	Enhanced field borders to reduce soil erosion along the edge(s) of a field	X
E386B	Enhanced field borders to increase carbon storage along the edge(s) of the field	X
E386C	Enhanced field borders to decrease particulate emissions along the edge(s) of the field	X
E386D	Enhanced field borders to increase food for pollinators along the edge(s) of a field	X
E386E	Enhanced field borders to increase wildlife food and habitat along the edge(s) of a field	X
E390A	Increase riparian herbaceous cover width for sediment and nutrient reduction	X
E390B	Increase riparian herbaceous cover width to enhance wildlife habitat	X

Practice Code	Practice Name	Include
E391A	Increase riparian forest buffer width for sediment and nutrient reduction	X
E391B	Increase stream shading for stream temperature reduction	X
E391C	Increase riparian forest buffer width to enhance wildlife habitat	X
E393A	Extend existing filter strip to reduce water quality impacts	X
E395A	Stream habitat improvement through placement of woody biomass	X
E399A	Fishpond management for native aquatic and terrestrial species	X
E412A	Enhance a grassed waterway	X
E420A	Establish pollinator habitat	X
E420B	Establish monarch butterfly habitat	X
E447A	Advanced Tailwater Recovery	X
E449A	Complete pumping plant evaluation for water savings	X
E449B	Alternated Wetting and Drying (AWD) of rice fields	X
E449C	Advanced Automated IWM – Year 2-5, soil moisture monitoring	X
E449D	Advanced Automated IWM – Year 1, Equipment and soil moisture or water level monitoring	X
E449E	consumption	X
E449F	Intermediate IWM— Year 1, Equipment with Soil or Water Level monitoring	X
E449G	Intermediate IWM— Years 2-5, Soil or Water Level monitoring	X
E449H	Intermediate IWM— Years 2 -5, using soil moisture or water level monitoring	X
E449I	IWM - Year 1, Retrofit Equipment with Speed Control on Sprinkler Irrigation System	X
E449J	Intermediate IWM – Reducing Water usage	X
E472A	Manage livestock access to streams, ditches, and other waterbodies to reduce nutrients and pathogens to surface water	X
E484A	Mulching to improve soil health	X
E484B	Reduce particulate matter emissions by using orchard or vineyard generated woody materials as mulch	X
E484C	Mulching with natural materials in specialty crops for weed control	X
E511A	escape	X
E511B	Forage harvest management that helps maintain wildlife habitat cover, shelter or continuity	X
E511C	Forage testing for improved harvesting methods and hay quality	X
E511D	Forage Harvest Management to Improve Terrestrial Habitat for Wildlife during Over-Winter Periods	X
E512A	Cropland conversion to grass-based agriculture to reduce soil erosion	X
E512B	health	X
E512C	Cropland conversion to grass for soil organic matter improvement	X
E512D	Forage plantings that help increase organic matter in depleted soils	X
E512E	Forage and biomass planting that produces feedstock for biofuels or energy production.	X
E512F	Establishing native grass or legumes in forage base to improve the plant community	X
E512G	Native grasses or legumes in forage base	X
E512H	Forage plantings that enhance bird habitat cover and shelter or structure and composition	X
E512I	Establish pollinator and/or beneficial insect and/or monarch habitat	X
E512J	Establish wildlife corridors to provide habitat continuity or access to water	X
E512K	Establishing Native Species into Forage to Improve Diversity for both Livestock and Wildlife	X
E512L	Diversifying Forage Base with Interseeding Forbs and Legumes to Increase Pasture Quality	X
E512M	Composition	X
E528A	Maintaining quantity and quality of forage for animal health and productivity	X
E528B	Grazing management that improves monarch butterfly habitat	X
E528C	Incorporating wildlife refuge areas in contingency plans for wildlife.	X

Practice Code	Practice Name	Include
E528D	wildlife	X
E528E	Grazing management for improving quantity and quality of plant structure and composition for wildlife	X
E528F	Stockpiling cool season forage to improve structure and composition or plant productivity and health	X
E528G	Improved grazing management on pasture for plant productivity and health with monitoring activities	X
E528H	Prescribed grazing to improve/maintain riparian and watershed function-elevated water temperature	X
E528I	Grazing management that protects sensitive areas -surface or ground water from nutrients	X
E528J	Prescribed grazing on pastureland that improves riparian and watershed function.	X
E528K	Improved grazing management for soil compaction on pasture through monitoring activities	X
E528L	Prescribed grazing that improves or maintains riparian and watershed function-erosion	X
E528M	Grazing management that protects sensitive areas from gully erosion	X
E528N	Improved grazing management through monitoring activities	X
E528O	Clipping mature forages to set back vegetative growth for improved forage quality	X
E528P	Implementing Bale or Swath Grazing to increase organic matter and reduce nutrients in surface water.	X
E528Q	Use of body condition scoring for livestock on a monthly basis to keep track of herd health	X
E528R	Management Intensive Rotational Grazing	X
E528S	Soil Health Improvements on Pasture	X
E528T	Grazing to Reduce Wildfire Risk on Forests	X
E533A	Advanced Pumping Plant Automation	X
E533B	Complete pumping plant evaluation for energy savings	X
E533C	Install VFDs on pumping plants	X
E533D	Switch fuel source for pumps	X
E550A	Range planting for increasing/maintaining organic matter	X
E550B	Range planting for improving forage, browse, or cover for wildlife	X
E570A	Enhanced rain garden for wildlife	X
E578A	Stream crossing elimination	X
E580A	Stream corridor bank stability improvement	X
E580B	Stream corridor bank vegetation improvement	X
E590A	Improving nutrient uptake efficiency and reducing risk of nutrient losses	X
E590B	Reduce risks of nutrient loss to surface water by utilizing precision agriculture technologies	X
E590C	Improving nutrient uptake efficiency and reducing risk of nutrient losses on pasture	X
E590D	quality	X
E595A	techniques	X
E595B	Reduce risk of pesticides in water and air by utilizing IPM PAMS techniques	X
E595C	Reducing routine neonicotinoid seed treatments on corn and soybean crops	X
E595D	Increase the size requirement of refuges planted to slow pest resistance to Bt crops	X
E595E	beetles	X
E595F	Improving Soil Organism Habitat on Agricultural Land	X
E595G	Reduced resistance risk by utilizing PAMS techniques	X
E612A	Cropland conversion to trees or shrubs for long term improvement of water quality	X
E612B	Planting for high carbon sequestration rate	X
E612C	Establishing tree/shrub species to restore native plant communities	X
E612D	Adding food-producing trees and shrubs to existing plantings	X

Practice Code	Practice Name	Include
E612E	Cultural plantings	X
E612F	Sugarbush management	X
E612G	Tree/shrub planting for wildlife food	X
E643A	Restoration of sensitive coastal vegetative communities	X
E643B	Creating native plant refugia	X
E643C	Restore glade habitat to benefit threatened and endangered species and state species of concern	X
E644A	Managing Flood-Irrigated Landscapes for Wildlife	X
E645A	Reduction of attractants to human-subsidized predators in sensitive wildlife species habitat	X
E645B	Manage existing shrub thickets to provide adequate shelter for wildlife	X
E645C	Edge feathering for wildlife cover	X
E645D	Wildlife Habitat Management Plan for Upland Landscapes	X
E646A	Close structures to capture and retain rainfall for waterfowl and wading bird winter habitat	X
E646B	habitat	X
E646C	Manipulate vegetation and maintain closed structures for shorebird mid summer habitat	X
E646D	Manipulate vegetation and maintain closed structures for shorebird late summer habitat	X
E647A	habitat	X
E647B	Provide early successional shorebird habitat between first crop and ratoon crop	X
E647C	Maintain most soil vegetation on cropland edges to enhance waterfowl and shorebird habitat	X
E647D	Establish and maintain early successional habitat in ditches and bank borders	X
E666A	Maintaining and improving forest soil quality	X
E666B	Converting loblolly and slash pine plantations to longleaf pine	X
E666C	Implementing sustainable practices for pine straw raking	X
E666D	Forest management to enhance understory vegetation	X
E666E	Reduce height of the forest understory to limit wildfire risk	X
E666F	Reduce forest stand density to create open stand structure	X
E666G	Reduce forest density and manage understory along roads to limit wildfire risk and improve habitat	X
E666H	Increase on-site carbon storage	X
E666I	Crop tree management for mast production	X
E666J	Facilitating oak forest regeneration	X
E666K	Creating structural diversity with patch openings	X
E666L	Forest Stand Improvement to rehabilitate degraded hardwood stands	X
E666M	Maintaining structural diversity in dry Western forests	X
E666N	Creating structural diversity in dry Western forests	X
E666O	Snags, den trees, and coarse woody debris for wildlife habitat	X
E666P	Summer roosting habitat for native forest-dwelling bat species	X
E666Q	Increase diversity in pine plantation monocultures	X
E666R	Forest songbird habitat maintenance	X
E666S	Facilitating longleaf pine regeneration and establishment	X