

Conservation Security Program (CSP)
Enhancement Compatibility Matrix

Effective for Fiscal Year 2020

Code	Enhancement Name	Crop Annual/Mixed	Crop Perennial	Pasture	Range	Forest	Associated Ag Land	Farmstead	Not Compatible											
E314A	Brush management for improved structure and composition			X	X	X	X		E315A	E327A	E666B	E666C	E666D	E666E	E666F	E666J				
E315A	Herbaceous weed treatment to create desired plant communities consistent with the ecological site			X	X	X	X		E314A											
E327A	Conservation cover for pollinators and beneficial insects	X	X			X	X	X	E327B	E314A	Not compatible with any 338 enhancements									
E327B	Establish Monarch butterfly habitat	X	X				X	X	E512I	E327A										
E328A	Resource conserving crop rotation	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements										
E328B	Improved resource conserving crop rotation	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements										
E328C	Conservation crop rotation on recently converted CRP grass/legume cover	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements										
E328D	Leave standing grain crops unharvested to benefit wildlife	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements										
E328E	Soil health crop rotation	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements										
E328F	Modifications to improve soil health and increase soil organic matter	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements										
E328G	Conservation crop rotation on recently converted CRP grass/legume cover for soil organic matter improvement	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements										
E328H	Conservation crop rotation to reduce the concentration of salts	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements										
E328I	Conservation crop rotation to reduce water quality degradation by utilization and removal of excess soil nutrients with forage harvest	X	X						RCCR or IRCCR	Not compatible with any other 328 associated enhancements										
E328J	Improved crop rotation to provide benefits to pollinators	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements										
E329A	No till to reduce soil erosion	X							Not compatible with any other 329 or any 345 associated enhancements											
E329B	No till to reduce tillage induced particulate matter	X							E376A	Not compatible with any other 329 or any 345 associated enhancements										
E329C	No till to increase plant-available moisture	X							Not compatible with any other 329 or any 345 associated enhancements											
E329D	No till system to increase soil health and soil organic matter content	X							Not compatible with any other 329 or any 345 associated enhancements											
E329E	No till to reduce energy	X							Not compatible with any other 329 or any 345 associated enhancements											

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E334A	Controlled traffic farming to reduce compaction	X	X																			
E338A	Strategically planned, patch burning for grazing distribution and wildlife habitat				X				Not compatible with any 327 associated enhancements (first year) EXCEPT E327B					Not compatible with any 612 associated enhancements								
E338B	Short-interval burns to promote a healthy herbaceous plant community					X			E338B	E338C	E666F	E666H	Not compatible with any 612 associated enhancements					Not compatible with any 327 associated enhancements (first year) EXCEPT E327B				
									E666A	E666C	E666I	E666L except in oak/hickory	E666O	E327A not compatible in first year					E327A			
E338C	Sequential patch burning					X			E338B	Not compatible with any 612 associated enhancements					Not compatible with any 327 associated enhancements EXCEPT E327B and after 1st year E327A							
E340A	Cover crop to reduce soil erosion	X	X						Not compatible with any other 340 associated enhancements													
E340B	Intensive cover cropping to increase soil health and soil organic matter content	X							Not compatible with any other 340 associated enhancements													
E340C	Use of multi-species cover crops to improve soil health and increase soil organic matter	X	X						Not compatible with any other 340 associated enhancements													
E340D	Intensive cover cropping (orchard/vineyard floor) to increase soil health and soil organic matter content		X						Not compatible with any other 340 associated enhancements													
E340E	Use of soil health assessment to assist with development of cover crop mix to improve soil health and increase soil organic matter	X							Not compatible with any other 340 associated enhancements													
E340F	Cover crop to minimize soil compaction	X	X						Not compatible with any other 340 associated enhancements													
E340G	Cover crop to reduce water quality degradation by utilizing excess soil nutrients	X	X						Not compatible with any other 340 associated enhancements													
E340H	Cover crop to suppress excessive weed pressures and break pest cycles	X	X						Not compatible with any other 340 associated enhancements													
E345A	Reduced tillage to reduce soil erosion	X							Not compatible with any other 345 or any 329 associated enhancements													

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E345B	Reduced tillage to reduce tillage induced particulate matter	X							E376A	Not compatible with any other 345 or any 329 associated enhancements											
E345C	Reduced tillage to increase plant-available moisture	X							Not compatible with any other 345 or any 329 associated enhancements												
E345D	Reduced tillage to increase soil health and soil organic matter content	X							Not compatible with any other 345 or any 329 associated enhancements												
E345E	Reduced tillage to reduce energy use	X							Not compatible with any other 345 or any 329 associated enhancements												
E374A	Install variable frequency drive(s) on pump(s)	X	X	X			X	X	E374B												
E374B	Switch fuel source for pump motor(s)	X	X	X			X	X	E374A												
E376A	Modify field operations to reduce particulate matter	X	X						E329B	E345B											
E381A	Silvopasture for wildlife habitat			X			X														
E382A	Incorporating "wildlife friendly" fencing for connectivity of wildlife food resources.			X	X																
E383A	Grazing-maintained fuel break to reduce the risk of fire				X	X															
E384A	Biochar production from woody residue					X	X														
E386A	Enhanced field borders to reduce soil erosion along the edge(s) of a field	X	X				X		Not compatible with any other 386 associated enhancements												
E386B	Enhanced field borders to increase carbon storage along the edge(s) of the field	X	X				X		Not compatible with any other 386 associated enhancements												
E386C	Enhanced field borders to decrease particulate emissions along the edge(s) of the field	X	X				X		Not compatible with any other 386 associated enhancements												
E386D	Enhanced field borders to increase food for pollinators along the edge(s) of a field	X	X				X		Not compatible with any other 386 associated enhancements												
E386E	Enhanced field borders to increase wildlife food and habitat along the edge(s) of a field	X	X				X		Not compatible with any other 386 associated enhancements												
E390A	Increase riparian herbaceous cover width for sediment and nutrient reduction	X	X						E390B	Not compatible with any 391 enhancements											
E390B	Increase riparian herbaceous cover width to enhance wildlife habitat	X	X	X	X		X	X	E390A	Not compatible with any 391 enhancements											
E391A	Increase riparian forest buffer width for sediment and nutrient reduction	X	X			X	X		E391B	E391C	Not compatible with any 390 enhancements										

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Code	Enhancement Name	Crop Annual/Mixed	Crop Perennial	Pasture	Range	Forest	Associated Ag Land	Farmstead	Not Compatible												
E391B	Increase stream shading for stream temperature reduction	X	X	X	X	X	X	X	E391A	E391C	Not compatible with any 390 enhancements										
E391C	Increase riparian forest buffer width to enhance wildlife habitat	X	X	X	X	X	X	X	E391A	E391B	Not compatible with any 390 enhancements										
E393A	Extend existing filter strip to reduce water quality impacts	X	X				X														
E395A	Stream habitat improvement through placement of woody biomass	X	X	X	X	X	X														
E399A	Fishpond management for native aquatic and terrestrial species	X	X	X	X	X	X	X	E666P												
E449A	Complete pumping plant evaluation for water savings	X	X	X			X														
E449B	Alternated Wetting and Drying (AWD) of rice fields	X							E449D	Not compatible with any 646 enhancements				E449C							
E449C	Advanced Automated IWM – Year 2-5, soil moisture monitoring	X	X	X					E449D	E449B											
E449D	Advanced Automated IWM - Year 1. Equipment and soil moisture or water level monitoring	X	X	X					E449B	E449C											
E472A	Manage livestock access to streams, ditches, and other waterbodies to reduce nutrients or pathogens to surface water.	X	X	X	X	X	X	X													
E484A	Mulching to improve soil health	X							RCCR or IRCCR												
E484B	Reduce particulate matter emissions by using woody material mulch		X																		
E511A	Harvest of crops (hay or small grains) using conservation measures that allow desired species to flush or escape	X	X																		
E511B	Forage harvest management that helps maintain wildlife habitat cover, shelter or continuity	X	X	X																	
E512A	Cropland conversion to grass-based agriculture to reduce soil erosion	X	X							E512C	E512E	E512G									
E512B	Forage and biomass planting to reduce soil erosion or increase organic matter to build soil health			X					Not compatible with any other 512 associated enhancements												
E512C	Cropland conversion to grass-based agriculture for soil organic matter improvement	X	X						E512A	E512E	E512G										
E512D	Forage plantings that help increase organic matter in depleted soils			X					Not compatible with any other 512 associated enhancements												

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									E512A	E512B	E512C	E512G						
E512E	Forage and biomass planting that produces feedstock for biofuels or energy production	X	X						E512A	E512B	E512C	E512G						
E512F	Native grass or legumes in forage base to improve plant community structure and composition or productivity and health or wildlife food.			X					E512G									
E512G	Native grasses or legumes in forage base		X	X			X		E512A	E512C	E512D	E512E	E512F					
E512H	Forage plantings that enhance bird habitat cover and shelter or structure and composition			X			X		Not compatible with any other 512 associated enhancements									
E512I	Establish pollinator and/or beneficial insect and/or monarch habitat			X			X	X	E512F									
E512J	Establish wildlife corridors to provide habitat continuity or access to water			X			X	X										
E528A	Maintaining quantity and quality of forage for animal health and productivity			X	X		X		Not compatible with any other 528 associated enhancements									
E528B	Grazing management that improves monarch butterfly habitat				X				Not compatible with any other 528 associated enhancements									
E528C	Incorporating wildlife refuge areas in contingency plans for wildlife.			X	X				Not compatible with any other 528 associated enhancements									
E528D	Grazing management for improving quantity and quality of food for wildlife			X	X	X			Not compatible with any other 528 associated enhancements							Not compatible with any 612 associated enhancements unless plantings are protected		
E528E	Grazing management for improving quantity and quality of plant structure and composition for wildlife			X	X		X		Not compatible with any other 528 associated enhancements									
E528F	Stockpiling cool season forage to improve structure and composition or plant productivity and health			X			X		Not compatible with any other 528 associated enhancements									
E528G	Improved grazing management for plant productivity and health through monitoring activities			X					Not compatible with any other 528 associated enhancements									
E528H	Prescribed grazing that improves or maintains riparian and watershed function-elevated water temperature				X				Not compatible with any other 528 associated enhancements									
E528I	Grazing management that protects sensitive areas - surface or ground water from nutrients			X	X				Not compatible with any other 528 associated enhancements									
E528J	Prescribed grazing on pastureland that improves riparian and watershed function impairment from nutrients or pathogens and chemicals or minimizes sediment.			X					Not compatible with any other 528 associated enhancements									
E528K	Improved grazing management for soil compaction on pasture through monitoring activities			X					Not compatible with any other 528 associated enhancements									

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E528L	Prescribed grazing that improves or maintains riparian and watershed function-erosion			X	X	X			Not compatible with any other 528 associated enhancements					Not compatible with any 612 associated enhancements unless plantings are protected						
E528M	Grazing management that protects sensitive areas from gully erosion			X	X				Not compatible with any other 528 associated enhancements											
E528N	Improved grazing management through monitoring activities				X				Not compatible with any other 528 associated enhancements											
E550A	Range planting for increasing/maintaining organic matter	X	X		X				E550B											
E550B	Range planting for improving forage, browse, or cover for wildlife	X	X		X				E550A											
E578A	Stream crossing elimination	X	X	X	X	X	X	X												
E580A	Stream corridor bank stability improvement	X	X	X	X	X	X	X	E580B											
E580B	Stream corridor bank vegetation improvement	X	X	X	X	X	X	X	E580A											
E590A	Improving nutrient uptake efficiency and reducing risk of nutrient losses	X	X						Not compatible with any other 590 associated enhancement											
E590B	Reduce risks of nutrient losses to surface water by utilizing precision agriculture technologies to plan and apply nutrients	X	X						Not compatible with any other 590 associated enhancement											
E595A	Reduce risk of pesticides in surface water by utilizing precision pesticide application techniques	X	X																	
E595B	Reduce risk of pesticides in water and air by utilizing IPM PAMS techniques	X	X	X																
E595D	Increase the size requirement of refuges planted to slow pest resistance to Bt crops	X																		
E595E	Eliminate use of chemical treatments to control pests and to increase the presence of dung beetles			X	X															
E612A	Cropland conversion to trees or shrubs	X	X						E528L unless plantings are protected		E528D unless plantings are protected									
E612B	Planting for high carbon sequestration rate	X	X	X	X	X	X	X	Not compatible with 338-associated enhancements during the contract period.				E528D unless plantings are protected		E528L unless plantings are protected					
E612C	Establishing tree/shrub species to restore native plant communities				X	X	X		Not compatible with 338-associated enhancements during the contract period.				E528D unless plantings are protected		E528L unless plantings are protected					

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E612D	Adding food-producing trees and shrubs to existing plantings	X	X	X	X	X	X	X	Not compatible with 338-associated enhancements during the contract period.					E528D unless plantings are protected		E528L unless plantings are protected		
E612E	Cultural plantings			X	X	X	X	X	Not compatible with 338-associated enhancements during the contract period.					E528D unless plantings are protected		E528L unless plantings are protected		
E612F	Sugarbush management					X	X	X	Not compatible with 338-associated enhancements during the contract period.					E528D unless plantings are protected		E528L unless plantings are protected		
E612G	Tree/shrub planting for wildlife food	X	X	X	X	X	X	X	Not compatible with 338-associated enhancements during the contract period.					E528D unless plantings are protected		E528L unless plantings are protected		
E643A	Restoration of sensitive coastal vegetative communities				X	X												
E643B	Restoration and management of rare or declining habitat					X												
E644A	Managing Flood-Irrigated Landscapes for Wildlife	X	X	X					Not compatible with any 646 enhancements									
E645A	Reduction of attractants to human-subsidized predators in sensitive wildlife species habitat	X	X	X	X	X	X	X										
E646A	Close structures to capture and retain rainfall to provide winter habitat for waterfowl and other wading birds	X							E646B	E449B	E644A							
E646B	Extend retention of captured winter rainfall to provide late winter habitat for migratory waterfowl and wading birds	X							E646A	E449B	E644A							
E646C	Manipulate vegetation and maintain closed structures to retain rainfall to provide mid summer habitat for shorebirds	X							E646D	E449B	E644A							
E646D	Manipulate vegetation and maintain closed structures to retain rainfall to provide late summer habitat for shorebirds	X							E646C	E449B	E644A							
E647A	Manipulate vegetation on fields where rainfall is captured and retained to enhance winter habitat for waterfowl and wading birds	X																
E647B	Provide early successional habitat between first rice crop and ratoon crop to enhance shorebird habitat	X																

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E647C	Establish and maintain most soil vegetation on cropland edges to enhance waterfowl and shorebird habitat	X																			
E647D	Establish and maintain wildlife habitat by providing early successional, naturally occurring vegetation in ditches and ditch bank borders	X																			
E666A	Maintaining and improving forest soil quality					X			E338B	E666J	E666M	E666N	E666R								
E666B	Converting loblolly and slash pine plantations to longleaf pine					X			E666B	E666J	E666N	E666Q	E666R								
E666C	Implementing sustainable practices for pine straw raking					X	X		E338B	E338B	E666J	E666M	E666N	E666R							
E666D	Forest management to enhance understory vegetation					X			E666E	E666F	E666J	E666L	E666M	E666N	E314A						
E666E	Reduce height of the forest understory to limit wildfire risk					X			E666D	E666F	E666J	E666L	E666M	E666N	E314A						
E666F	Reduce forest stand density to improve a degraded plant community					X			E666D	E666E	E666H	E666J	E666L	E666M	E666N	E666P	E314A				
E666G	Reduce forest density and manage understory along roads to limit wildfire risk					X			E666J	E666M	E666N										
E666H	Increase on-site carbon storage					X	X	X	E338B	E666J	E666K	E666M									
E666I	Crop tree management for mast production					X	X	X	E338B	E666J	E666M	E666N									
E666J	Facilitating oak forest regeneration					X	X		E314A	Not compatible with any other 666 associated enhancements											
E666K	Creating structural diversity with patch openings					X	X	X	E666J	E666L	E666M	E666N	E666P	E666Q							
E666L	Forest Stand Improvement to rehabilitate degraded hardwood stands					X			E666D	E666E	E666F	E666G	E666J	E666K	E666M	E666N	E338B except in oak/hickory				
E666M	Maintaining structural diversity in dry Western forests					X	X		Not compatible with any other 666 associated enhancements				E314A								

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E666N	Creating structural diversity in dry Western forests					X	X		Not compatible with any other 666 associated enhancements				E314A						
E666O	Snags, den trees, and coarse woody debris for wildlife habitat					X	X	X	E338B	E666J	E666M	E666N							
E666P	Summer roosting habitat for native forest-dwelling bat species					X	X	X	E338B	E399A	E666F	E666J	E666K	E666M	E666N				
E666Q	Increase diversity in pine plantation monocultures					X	X	X	E666B	E666J	E666K	E666M	E666N	E666R					
E666R	Forest songbird habitat maintenance					X	X	X	E666A	E666B	E666C	E666J	E666M	E666N	E666Q				