

Enhancement Compatability Matrix

Code	Enhancement Name	Crop Annual/Mixed	Crop Perennial	Pasture	Range	Forest	Associated Ag Land	Farmstead	Not Compatible												
E315132Z	Herbaceous weed control that helps create desired plant communities and habitats consistent with the ecological site.			X		X			E315134Z												
E315133Z	Herbaceous weed control (for inadequate structure and composition) that helps create desired plant communities and habitats consistent with the ecological site				X	X			E315134Z												
E315134Z	Herbaceous weed control for plant pest pressures that helps create desired plant communities and habitats consistent with the ecological site.			X	X	X	X		E315132Z	E315133Z											
E327136Z1	Conservation cover to provide food habitat for pollinators and beneficial insects	X	X			X	X	X	E327136Z2	E327137Z	E327139Z										
E327136Z2	Establish Monarch butterfly habitat	X	X				X	X	E512139Z3												
E327137Z	Conservation cover to provide cover and shelter habitat for pollinators and beneficial insects	X	X			X	X		E327136Z1	E327136Z2	E327139Z										
E327139Z	Conservation cover to provide habitat continuity for pollinators and beneficial insects	X	X			X	X		E327136Z1	E327136Z2	E327137Z										
E328101I	Improved resource conserving crop rotation to reduce water erosion	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements											
E328101R	Resource conserving crop rotation to reduce water erosion	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements											
E328101Z	Conservation crop rotation on recently converted CRP grass/legume cover for water erosion	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements											
E328106I	Improved resource conserving crop rotation for soil organic matter improvement	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements											
E328106R	Resource conserving crop rotation for soil organic matter improvement	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements											
E328106Z1	Soil health crop rotation	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements											
E328106Z2	Modifications to improve soil health and increase soil organic matter	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements											
E328106Z3	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											
E328107I	Improved resource conserving crop rotation to improve soil compaction	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements											

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E328107R	Resource conserving crop rotation to improve soil compaction	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements				
E328134I	Improved resource conserving crop rotation to relieve plant pest pressure	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements				
E328134R	Resource conserving crop rotation to relieve plant pest pressure	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements				
E328136Z	Leave standing grain crops unharvested to benefit wildlife food sources	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements				
E328137Z	Leave standing grain crops unharvested to benefit wildlife cover and shelter	X							RCCR or IRCCR	Not compatible with any other 328 associated enhancements				
E329101Z	No till to reduce water erosion	X							Not compatible with any other 329 or any 345 associated enhancements					
E329106Z	No till system to increase soil health and soil organic matter content	X							Not compatible with any other 329 or any 345 associated enhancements					
E329114Z	No till to increase plant-available moisture: irrigation water	X							Not compatible with any other 329 or any 345 associated enhancements					
E329115Z	No till to increase plant-available moisture: moisture management	X							Not compatible with any other 329 or any 345 associated enhancements					
E329128Z	No till to reduce tillage induced particulate matter	X							E376128Z	Not compatible with any other 329 or any 345 associated enhancements				
E329144Z	No till to reduce energy	X							Not compatible with any other 329 or any 345 associated enhancements					
E340101Z	Cover crop to reduce water erosion	X	X						Not compatible with any other 340 associated enhancements					
E340106Z1	Intensive cover cropping to increase soil health and soil organic matter content	X	X						Not compatible with any other 340 associated enhancements					
E340106Z2	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					
E340106Z3	Intensive cover cropping (orchard or vineyard floor) to increase soil health and soil organic matter content		X						Not compatible with any other 340 associated enhancements					
E340106Z4	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					
E340107Z	Cover crop to minimize soil compaction	X	X						Not compatible with any other 340 associated enhancements					
E340118Z	Cover crop to reduce water quality degradation by utilizing excess soil nutrients-surface water	X	X						Not compatible with any other 340 associated enhancements					
E340119Z	Cover crop to reduce water quality degradation by utilizing excess soil nutrients-ground water	X							Not compatible with any other 340 associated enhancements					
E340134Z	Cover crop to suppress excessive weed pressures and break pest cycles	X	X						Not compatible with any other 340 associated enhancements					

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E345101Z	Reduced tillage to reduce water erosion	X							Not compatible with any other 345 or any 329 associated enhancements												
E345106Z	Reduced tillage to increase soil health and soil organic matter content	X							Not compatible with any other 345 or any 329 associated enhancements												
E345114Z	Reduced tillage to increase plant-available moisture: irrigation water	X							Not compatible with any other 345 or any 329 associated enhancements												
E345115Z	Reduced tillage to increase plant-available moisture: moisture management	X							Not compatible with any other 345 or any 329 associated enhancements												
E345128Z	Reduced tillage to reduce tillage induced particulate matter	X							E376128Z	Not compatible with any other 345 or any 329 associated enhancements											
E345144Z	Reduced tillage to reduce energy use	X							Not compatible with any other 345 or any 329 associated enhancements												
E374144Z1	Install variable frequency drive(s) on pump(s)	X	X	X			X	X	E374144Z2												
E374144Z2	Switch fuel source for pump motor(s)	X	X	X			X	X	E374144Z1												
E382136Z	Incorporating "wildlife friendly" fencing for connectivity of wildlife food resources.			X	X																
E386101Z	Enhanced field borders to reduce water induced erosion along the edge(s) of a field	X	X				X		Not compatible with any other 386 associated enhancements												
E386106Z	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												
E386128Z	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												
E386136Z	Enhanced field border to provide wildlife food for pollinators along the edge(s) of a field	X	X				X		Not compatible with any other 386 associated enhancements												
E386137Z	Enhanced field border to provide wildlife cover or shelter along the edge(s) of a field	X	X				X		Not compatible with any other 386 associated enhancements												
E386139Z	Enhanced field border to provide wildlife habitat continuity along the edge(s) of a field	X	X				X		Not compatible with any other 386 associated enhancements												
E391118Z	Increase riparian forest buffer width for nutrient reduction	X	X			X	X		E391126Z	E391127Z	E391136Z										
E391126Z	Increase riparian forest buffer width to reduce sediment loading	X	X			X	X	X	E391118Z	E391127Z	E391136Z										
E391127Z	Increase stream shading for stream temperature reduction	X	X	X	X	X	X	X	E391118Z	E391126Z	E391136Z										
E391136Z	Increase riparian forest buffer width to enhance wildlife habitat	X	X	X	X	X	X	X	E391118Z	E391126Z	E391127Z										
E393118Z	Extend existing filter strip to reduce excess nutrients in surface water	X	X				X		E393122Z	E393126Z											
E393122Z	Extend existing filter strip to reduce excess pathogens and chemicals in surface water	X	X				X		E393118Z	E393126Z											

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E393126Z	Extend existing filter strip to reduce excess sediment in surface water	X	X				X	X	E393118Z	E393122Z										
E395137X	Stream habitat improvement through placement of woody biomass	X	X	X	X	X	X													
E399137X	Fishpond management for native aquatic and terrestrial species	X	X	X	X	X	X	X												
E449114Z1	Advanced IWM--Soil moisture is monitored, recorded, and used in decision making	X	X	X					E449114Z2	E449114Z4										
E449114Z2	Advanced IWM--Weather is monitored, recorded and used in decision making. Actual evapotranspiration is calculated and used in forecasting future irrigation	X	X	X					E449114Z1	E449114Z4										
E449114Z3	Complete pumping plant evaluation for all pumps on a farm to determine the potential to install a variable frequency drive.	X	X	X					E449144Z											
E449144Z	Complete pumping plant evaluation for all pumps on a farm.	X	X	X			X		E449114Z3											
E472118Z	Manage livestock access to streams, ditches, and other waterbodies to reduce nutrients in surface water	X	X	X	X	X	X	X	E472122Z											
E472122Z	Manage livestock access to streams, ditches, and other waterbodies to reduce pathogens in surface water	X	X	X	X	X	X	X	E472118Z											
E484106Z	Mulching to improve soil health	X							RCCR or IRCCR											
E512101Z1	Cropland conversion to grass-based agriculture to reduce water erosion	X	X						E512102Z	E512106Z1	E512126Z	E512132Z1	E512140Z							
E512101Z2	Forage and biomass planting for water erosion to improve soil health			X					Not compatible with any other 512 associated enhancements											
E512106Z1	Cropland conversion to grass-based agriculture for soil organic matter improvement	X	X						E512101Z1	E512102Z	E512126Z	E512132Z1	E512140Z							
E512106Z2	Forage plantings that can help increase organic matter in depleted soils			X					Not compatible with any other 512 associated enhancements											
E512126Z	Cropland conversion to grass-based agriculture to reduce sediment loading	X	X						E512101Z1	E512102Z	E512106Z1	E512132Z1	E512140Z							
E512132Z1	Cropland conversion to grass-based agriculture to improve plant condition	X	X						E512101Z1	E512101Z2	E512102Z	E512106Z1	E512126Z	E512140Z						

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Code	Enhancement Name	Crop Annual/Mixed	Crop Perennial	Pasture	Range	Forest	Associated Ag Land	Farmstead	Not Compatible										
E512132Z2	Native grasses or legumes in forage base to improve plant productivity and health			X					E512133Z1	E512136Z2	E512140Z								
E512133Z1	Native grasses or legumes in forage base to improve plant community structure and composition			X			X		E512132Z2	E512136Z2	E512140Z								
E512133Z2	Forage plantings that enhance bird habitat (structure and composition)			X			X		Not compatible with any other 512 associated enhancements										
E512136Z1	Establish pollinator and/or beneficial insect food habitat			X					E512139Z2										
E512136Z2	Native grass or legumes in forage base to provide wildlife food			X					E512132Z2	E512133Z1	E512140Z								
E512137Z	Forage plantings that enhance bird habitat (cover and shelter)			X					Not compatible with any other 512 associated enhancements										
E512139Z1	Establish wildlife corridors to provide habitat continuity			X			X	X	E512138Z										
E512139Z2	Establish pollinator and/or beneficial insect habitat continuity (space)			X			X	X	E512136Z1										
E512139Z3	Establish Monarch butterfly habitat in pastures			X			X	X	E327136Z2										
E512140Z	Native grasses or legumes in forage base		X	X			X		E512132Z2	E512133Z1	E512136Z2								
E528104Z	Grazing management that protects sensitive areas from gully erosion			X	X				Not compatible with any other 528 associated enhancements										
E528105Z	Prescribed grazing that improves or maintains riparian and watershed function-erosion			X	X				Not compatible with any other 528 associated enhancements										
E528118Z1	Prescribed grazing on pastureland that maintains/improves riparian and watershed function impairment from nutrients.			X					Not compatible with any other 528 associated enhancements										
E528119Z	Grazing management that protects sensitive areas-ground water from nutrients			X	X				Not compatible with any other 528 associated enhancements										
E528122Z	Prescribed grazing on pastureland that maintains/improves riparian and watershed function impairment from pathogens/chemicals.			X					Not compatible with any other 528 associated enhancements										
E528126Z	Prescribed grazing on pastureland that maintains/improves riparian and watershed function through minimizing sediment in surface water.			X					Not compatible with any other 528 associated enhancements										

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E528132Z1	Improved grazing management for plant productivity and health through monitoring activities			X					Not compatible with any other 528 associated enhancements											
E528132Z2	Stockpiling cool season forage to improve plant productivity and health			X					Not compatible with any other 528 associated enhancements											
E528133Z1	Stockpiling cool season forage to improve structure and composition.			X			X		Not compatible with any other 528 associated enhancements											
E528133Z2	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											
E528136Z1	Grazing management for improving quantity and quality of food for wildlife			X	X				Not compatible with any other 528 associated enhancements											
E528137Z1	Grazing management for improving quantity and quality of cover and shelter for wildlife			X	X				Not compatible with any other 528 associated enhancements											
E528137Z2	Incorporating wildlife refuge areas in contingency plans for prescribed grazing where pastureland is the predominant land use, for wildlife cover and shelter.			X	X				Not compatible with any other 528 associated enhancements											
E528140Z1	Maintaining quantity and quality of forage for animal health and productivity			X	X		X		Not compatible with any other 528 associated enhancements											
E578139X	Stream crossing elimination	X	X		X	X	X	X												
E590118X	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											
E590118Z	Improving nutrient uptake efficiency and reducing risk of nutrient losses to surface water	X	X						Not compatible with any other 590 associated enhancement											
E590119Z	Improving nutrient uptake efficiency and reducing risk of nutrient losses to groundwater	X	X						Not compatible with any other 590 associated enhancement											
E590130Z	Improving nutrient uptake efficiency and reducing risks to air quality – emissions of greenhouse gases (GHGs)	X	X						Not compatible with any other 590 associated enhancement											
E595116X	Reduce risk of pesticides in surface water by utilizing precision pesticide application techniques	X	X						E595116Z	E595129Z										
E595116Z	Reduce risk of pesticides in surface water by utilizing IPM PAMS techniques	X	X						E595116X	E595129Z										
E595129Z	Reduce ozone precursor emissions related to pesticides by utilizing IPM PAMS techniques	X	X						E595116Z	E595116X										

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E612101Z	Cropland conversion to trees for long term water erosion control	X	X						E612102Z	E612126Z										
E612126Z	Cropland conversion to trees for long term improvement of water quality	X	X						E612102Z	E612101Z										
E612130Z	Planting for high carbon sequestration rate	X	X	X	X	X	X	X	E612136Z	E612137Z										
E612132Z	Establishing tree/shrub species to restore native plant communities				X	X	X		Not compatible with 338-associated enhancements during the contract period. <b>NOTE: all 338 E deleted fro ME</b>											
E612133X1	Adding food-producing trees and shrubs to existing plantings			X	X	X	X	X	Not compatible with 338-associated enhancements during the contract period. <b>NOTE: all 338 E deleted fro ME</b>											
E612133X2	Cultural plantings			X	X	X	X	X	Not compatible with 338-associated enhancements during the contract period. <b>NOTE: all 338 E deleted fro ME</b>											
E612133X3	Sugarbush management					X	X	X	Not compatible with 338-associated enhancements during the contract period. <b>NOTE: all 338 E deleted fro ME</b>											
E612136Z	Tree/shrub planting for wildlife food	X	X	X	X	X	X	X	E612137Z	Not compatible with 338-associated enhancements during the contract period. <b>NOTE: all 338 E deleted fro ME</b>										
E612137Z	Tree/shrub planting for wildlife cover	X	X	X	X	X	X	X	E612136Z	Not compatible with 338-associated enhancements during the contract period. <b>NOTE: all 338 E deleted fro ME</b>										
E647136Z3	Establish and maintenance of moist soil vegetation on cropland edges to increase wildlife food sources and habitat diversity	X							E647137Z2											
E647137Z2	Establish and maintenance of moist soil vegetation on cropland edges to increase wildlife cover, shelter and habitat diversity	X							E647136Z3											
E647139Z1	Establish and maintain wildlife habitat continuity by providing early successional, naturally occurring vegetation in ditches and ditch bank borders	X																		
E666106Z2	Maintaining and improving forest soil quality					X			E666107Z											
E666107Z	Maintaining and improving forest soil quality by limiting compaction					X			E666106Z2											
E666115Z2	Enhance development of the forest understory to improve site moisture					X			E666118Z	E666119Z	E666134Z	E666137Z7	E666135Z1	E666130Z	E666133X	E666132Z2	E666136Z2			
E666118Z	Enhance development of the forest understory to capture nutrients in surface water					X			E666115Z2	E666119Z	E666134Z	E666137Z7	E666135Z1	E666130Z	E666133X	E666132Z2	E666136Z2			

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E666119Z	Enhance development of the forest understory to capture nutrients and limit their movement into ground water					X			E666118Z	E666115Z2	E666134Z	E666137Z7	E666135Z1	E666130Z	E666133X	E666132Z2	E666136Z2		
E666130Z	Increase on-site carbon storage					X	X	X	Not compatible with other 666-associated enhancements except E666137Z1 and E666137Z2.										
E666132Z1	Crop tree management for mast production					X	X	X											
E666132Z2	Reduce forest stand density to improve a degraded plant community					X			E666136Z2	E666130Z	E666133X	E666135Z2	E666136Z1						
E666133Z1	Creating structural diversity with patch openings					X	X	X	E666137Z2	E666130Z	E666137Z6	E666136Z3	E666133X	E666137Z3					
E666133X	Forest Stand Improvement to restore structure and composition in degraded hardwood stands					X			E666115Z2	E666118Z	E666119Z	E666130Z	E666132Z2	E666133Z1	E666135Z1	E666136Z2	E666136Z6	E666137Z6	E666137Z7
E666134Z	Enhance development of the forest understory to create conditions resistant to pests					X			E666118Z	E666115Z2	E666135Z1	E666137Z7	E666119Z	E666130Z	E666133X	E666132Z2	E666136Z2		
E666136Z1	Reduce forest density and manage understory along roads to improve wildlife food sources					X			E666135Z2	E666130Z	E666133X	E666132Z2	E666136Z2						
E666136Z2	Reduce forest stand density to improve wildlife food sources					X			E666132Z2	E666130Z	E666133X	E666135Z2	E666136Z1						
E666136Z3	Create patch openings to enhance wildlife food sources and availability					X			E666130Z	E666133Z1	E666137Z6	E666137Z2	E666133X	E666137Z3					
E666137Z1	Snags, den trees, and coarse woody debris for wildlife habitat					X	X	X											
E666137Z2	Summer roosting habitat for native forest-dwelling bat species					X	X	X	Not compatible with other 666-associated enhancements, or with 338-associated enhancements. <b>NOTE: all 338 E deleted fro ME</b>										
E666137Z3	Increase diversity in pine plantation monocultures					X	X	X	E666137Z2	E666130Z	E666137Z6	E666136Z3	E666133Z1						
E666137Z6	Create patch openings to enhance wildlife cover and shelter					X			E666136Z3	E666130Z	E666133Z1	E666137Z2	E666133X	E666137Z3					
E666137Z7	Enhance development of the forest understory to provide wildlife cover and shelter					X			E666118Z	E666119Z	E666134Z	E666115Z2	E666135Z1	E666130Z	E666133X	E666132Z2	E666136Z2		