

Code	Practice	Component	Units	Unit Cost
311	Alley Cropping	Single row bareroot planting stock with tree shelters	Ea	\$0.75
311	Alley Cropping	Single row bareroot planting stock	Ea	\$0.20
311	Alley Cropping	Single row container planting stock, less than 2 gallons	Ea	\$0.75
311	Alley Cropping	Single row container planting stock, less than 2 gallon with tree shelters	Ea	\$1.55
314	Brush Management	Removal of Invasive Woody Understory, Heavy	ac	\$56.15
314	Brush Management	Light Brush Management	ac	\$4.98
314	Brush Management	Medium Brush Management	ac	\$8.18
314	Brush Management	Heavy Brush Management	ac	\$19.60
314	Brush Management	Very Heavy Brush Management	ac	\$32.02
314	Brush Management	Linear Tree Removal for Grassland Bird Habitat	ac	\$125.38
314	Brush Management	Removal of Invasive Woody Understory, Light	ac	\$8.90
314	Brush Management	Removal of Invasive Woody Understory, Medium	ac	\$12.75
315	Herbaceous Weed Control	Medium Spot Treatments	ac	\$9.20
315	Herbaceous Weed Control	Chemical, Spot	ac	\$6.40
315	Herbaceous Weed Control	hand and chemical	ac	\$12.38
315	Herbaceous Weed Control	Aquatic Areas Weed Control	ac	\$32.42
315	Herbaceous Weed Control	Tree & Shrub Post-planting Weed Control	ac	\$11.88
315	Herbaceous Weed Control	Blanket Treatment Multi Pass	ac	\$13.56
315	Herbaceous Weed Control	Blanket Treatment One Pass	ac	\$6.25
315	Herbaceous Weed Control	Light Spot Treatment	ac	\$3.18
319	On-Farm Secondary Containment Facility	Modular Block Containment Wall	sq ft	\$2.69
319	On-Farm Secondary Containment Facility	Concrete Containment Wall	CuYd	\$97.44
319	On-Farm Secondary Containment Facility	Corrugated Metal Wall Containment	sq ft	\$2.84
319	On-Farm Secondary Containment Facility	Earthen Containment	CuYd	\$12.03
319	On-Farm Secondary Containment Facility	Double Wall Tank	gal	\$0.14
327	Conservation Cover	Introduced with Forgone Income	ac	\$52.88
327	Conservation Cover	Native Species with Forgone Income	ac	\$59.01
327	Conservation Cover	Monarch Species Mix - Interseeding	ac	\$48.67
327	Conservation Cover	Monarch Species Mix	ac	\$140.48

Code	Practice	Component	Units	Unit Cost
327	Conservation Cover	Pollinator Species	ac	\$108.97
327	Conservation Cover	Orchard or Vineyard Alleyways	ac	\$10.44
327	Conservation Cover	Native Species	ac	\$18.91
327	Conservation Cover	Introduced Species	ac	\$15.46
327	Conservation Cover	Pollinator Species with Forgone Income	ac	\$149.07
328	Conservation Crop Rotation	Specialty Crops Organic and Non-Organic	ac	\$3.27
328	Conservation Crop Rotation	Basic Rotation Organic and Non-Organic	ac	\$1.23
329	Residue and Tillage Management, No Till	No-Till/Strip-Till	ac	\$2.18
338	Prescribed Burning	Woodland, >10 acres	ac	\$7.86
338	Prescribed Burning	Woodland, Small acreage (<=10 acres)	ac	\$11.36
338	Prescribed Burning	Grassland, > 10 acres	ac	\$3.06
338	Prescribed Burning	Grassland, Small acreage (<=10 acres)	ac	\$3.93
340	Cover Crop	Cover Crop - Basic (Organic and Non-organic)	ac	\$6.77
340	Cover Crop	Cover Crop - Adaptive Management	Ea	\$230.89
340	Cover Crop	Cover Crop - Multiple Species (Organic and Non-organic)	ac	\$7.58
340	Cover Crop	Winter Kill Cover Crop Species	ac	\$3.75
342	Critical Area Planting	Native or Introduced Vegetation - Normal Tillage (Organic and Non-Organic)	ac	\$18.17
342	Critical Area Planting	Native or Introduced Vegetation - Moderate Grading (Organic and Non-Organic)	ac	\$56.20
342	Critical Area Planting	Small Area Disturbance	kSqFt	\$0.49
345	Residue and Tillage management, Reduced till	Residue and Tillage Management, Reduced Till	ac	\$2.57
374	Farmstead Energy Improvement	Ventilation - Heat Recovery System	Ea	\$1,140.00
374	Farmstead Energy Improvement	Motor - > 1 to <10 HP Electric Motor Upgrade	HP	\$16.30
374	Farmstead Energy Improvement	Motor - 10 - <50 HP Electric Motor Upgrade	HP	\$13.05
374	Farmstead Energy Improvement	Motor - >= 50 HP Electric Motor Upgrade	HP	\$14.39
374	Farmstead Energy Improvement	Motor - Variable Speed Electric (Split Phase)	HP	\$23.64
374	Farmstead Energy Improvement	Heating - Radiant Systems	kBTU/Hr	\$1.19
374	Farmstead Energy Improvement	Heating - Building	kBTU/Hr	\$1.25
374	Farmstead Energy Improvement	Heating - Attic Heat Recovery Vents	Ea	\$15.96
374	Farmstead Energy Improvement	Motor - <= 1 HP Electric Motor Upgrade	HP	\$58.72
374	Farmstead Energy Improvement	Controller - Single Function	Ea	\$13.43
374	Farmstead Energy Improvement	Controller - Variable Speed Drive for <=1 HP Motor	HP	\$81.62

Code	Practice	Component	Units	Unit Cost
374	Farmstead Energy Improvement	Grain Dryer	Bu/Hr	\$9.48
374	Farmstead Energy Improvement	Controller - Multi-Function, Multiple Environmental Condition	Ea	\$399.91
374	Farmstead Energy Improvement	Controller - Multi-Function, Single Environmental Condition	Ea	\$136.08
374	Farmstead Energy Improvement	Controller - Variable Speed Drive for >= 50 HP Motor	HP	\$10.97
374	Farmstead Energy Improvement	Controller - Variable Speed Drive for >1 to <10 HP Motor	HP	\$65.07
374	Farmstead Energy Improvement	Refrigeration - Compressor Heat Recovery System	Ea	\$377.78
374	Farmstead Energy Improvement	Refrigeration - Scroll Compressor	HP	\$84.18
374	Farmstead Energy Improvement	Refrigeration - Plate Cooler	Ea	\$471.04
374	Farmstead Energy Improvement	Ventilation - Cool Cell, Evaporative Cooling System	sq ft	\$2.55
374	Farmstead Energy Improvement	Ventilation - Horizontal Air Flow/Stir Fan	Ea	\$21.65
374	Farmstead Energy Improvement	Ventilation - Exhaust	Ea	\$136.33
374	Farmstead Energy Improvement	Controller - Variable Speed Drive for 10 to <50 HP Motor	HP	\$37.43
378	Pond	Embankment, 8in-12in Pipe	CuYd	\$0.46
378	Pond	Embankment, 4in-6in Pipe	CuYd	\$0.44
378	Pond	Embankment, Tile Conduit	CuYd	\$0.33
378	Pond	Embankment, >12in Pipe	CuYd	\$0.46
380	Windbreak/Shelterbelt Establishment	1 row windbreak, container trees, less than 2 gallons	ft	\$0.07
380	Windbreak/Shelterbelt Establishment	1 row windbreak, container trees, less than 2 gallon with temporary irrigation	ft	\$0.11
380	Windbreak/Shelterbelt Establishment	1 row windbreak, container shrubs, less than 2 gallon	ft	\$0.16
380	Windbreak/Shelterbelt Establishment	1 row windbreak, bareroot shrubs with temporary irrigation	ft	\$0.07
380	Windbreak/Shelterbelt Establishment	1 row windbreak, bareroot shrubs	ft	\$0.06
380	Windbreak/Shelterbelt Establishment	1 row windbreak, bareroot trees with temporary irrigation	ft	\$0.05
380	Windbreak/Shelterbelt Establishment	1 row windbreak, bareroot trees	ft	\$0.04
380	Windbreak/Shelterbelt Establishment	3 row windbreak, bareroot seedling planting stock, temporary irrigation	ft	\$0.52
380	Windbreak/Shelterbelt Establishment	3 row windbreak, bareroot seedling planting stock	ft	\$0.12
380	Windbreak/Shelterbelt Establishment	3 row windbreak, containerized planting stock, temporary irrigation	ft	\$0.84
380	Windbreak/Shelterbelt Establishment	3 row windbreak, containerized planting stock	ft	\$0.44
380	Windbreak/Shelterbelt Establishment	1 row windbreak, container shrubs, less than 2 gallon with temporary irrigation	ft	\$0.22
381	Silvopasture Establishment	Container Trees and Shrubs, less than 2 gallon	Ea	\$0.62
381	Silvopasture Establishment	Bareroot Trees and Shrubs, with Tree Shelters	Ea	\$0.33
381	Silvopasture Establishment	Bareroot Trees and Shrubs	Ea	\$0.09

Code	Practice	Component	Units	Unit Cost
381	Silvopasture Establishment	Container Trees and Shrubs, less than 2 gallon with tree shelters	Ea	\$1.45
382	Fence	Permanent Woven Wire	ft	\$0.24
382	Fence	Temporary - Portable for Small Livestock	ft	\$0.16
382	Fence	Safety	ft	\$0.52
382	Fence	Temporary/Portable Fence	ft	\$0.05
382	Fence	Permanent High Tensile, Minimum 4 Strand, Single H brace	ft	\$0.18
382	Fence	Permanent High Tensile, Minimum 4 Strand, Double H bracing	ft	\$0.23
382	Fence	Permanent High Tensile Electric Single Strand	ft	\$0.10
382	Fence	Permanent Barbed Wire Multi Strand	ft	\$0.21
382	Fence	Permanent High Tensile Electric 2-3 Strand	ft	\$0.15
386	Field Border	Field Border, Native Species, Forgone Income	ac	\$53.09
386	Field Border	Field Border, Introduced Species, Forgone Income	ac	\$40.73
386	Field Border	Field Border, Pollinator, Forgone Income	ac	\$145.55
390	Riparian Herbaceous Cover	Native Grass	ac	\$63.54
390	Riparian Herbaceous Cover	Pollinator	ac	\$143.79
391	Riparian Forest Buffer	Direct Seeding	ac	\$81.34
391	Riparian Forest Buffer	Bareroot trees and shrubs	ac	\$90.13
393	Filter Strip	Filter Strip, Introduced species, Forgone Income	ac	\$58.19
393	Filter Strip	Filter Strip, Native species, Forgone Income	ac	\$59.77
394	Firebreak	Constructed - Light Equipment	ft	\$0.01
394	Firebreak	Constructed - Handline	ft	\$0.01
394	Firebreak	Vegetated permanent firebreak	ft	\$0.02
395	Stream Habitat Improvement and Management	Riparian Zone Improvement, Forested	ac	\$396.86
395	Stream Habitat Improvement and Management	Instream wood placement	ac	\$1,268.35
395	Stream Habitat Improvement and Management	Instream rock placement	ac	\$1,312.51
395	Stream Habitat Improvement and Management	Rock and wood structures	ac	\$1,689.59
395	Stream Habitat Improvement and Management	Wood with Lunkers	ac	\$736.95
396	Aquatic Organism Passage	Concrete Dam Removal	ft	\$45.43
396	Aquatic Organism Passage	Culvert Replacement	Ea	\$503.97
410	Grade Stabilization Structure	Grouted Rock Rip Rap Chute	CuYd	\$10.51
410	Grade Stabilization Structure	Concrete Block Chute	sq ft	\$1.04

Code	Practice	Component	Units	Unit Cost
410	Grade Stabilization Structure	Concrete Drop Structure	CuYd	\$81.81
410	Grade Stabilization Structure	Open Flow Drop Spillway-High overfall or sheet pile	sq ft	\$25.03
410	Grade Stabilization Structure	Gabion Chute	CuYd	\$30.21
410	Grade Stabilization Structure	Rock Rip Rap Chute	CuYd	\$7.55
410	Grade Stabilization Structure	Full Flow Straight Pipe	DialInFt	\$0.58
410	Grade Stabilization Structure	Pipe Drop, Smooth Steel or CMP, <1000 CY Earthfill	sq ft	\$1.11
410	Grade Stabilization Structure	Embankment Tile Conduit	CuYd	\$0.33
410	Grade Stabilization Structure	Embankment >12in	CuYd	\$0.46
410	Grade Stabilization Structure	Embankment 8in-12in Pipe	CuYd	\$0.46
410	Grade Stabilization Structure	Embankment 4in-6in Pipe	CuYd	\$0.44
410	Grade Stabilization Structure	Geotextile Reinforced Vegetated Outlet	sq ft	\$0.27
410	Grade Stabilization Structure	Open Flow Drop Spillway	sq ft	\$14.17
412	Grassed Waterway	>55 foot top width	ac	\$417.53
412	Grassed Waterway	>55 foot top width with checks	ac	\$533.59
412	Grassed Waterway	<35 foot top width with checks	ac	\$432.42
412	Grassed Waterway	35-55 foot top width	ac	\$342.84
412	Grassed Waterway	<35 foot top width	ac	\$323.60
412	Grassed Waterway	35-55 foot top width with checks	ac	\$465.87
422	Hedgerow	3 row hedgerow, container planting stock	ft	\$0.34
422	Hedgerow	1 row hedgerow, container trees planting stock	ft	\$0.10
422	Hedgerow	1 row hedgerow, container shrubs planting stock	ft	\$0.17
422	Hedgerow	3 row hedgerow, bareroot seedling planting stock	ft	\$0.14
422	Hedgerow	1 row hedgerow, bareroot tree seedling planting stock	ft	\$0.03
422	Hedgerow	1 row hedgerow, bareroot shrub seedling planting stock	ft	\$0.05
430	Irrigation Pipeline	Pipe System <= 8 in Diameter, <= 50 ft Installation	ft	\$2.27
430	Irrigation Pipeline	Pipe System 10-12 in Diameter, >50 ft Installation	ft	\$1.86
430	Irrigation Pipeline	Pipe System <=8 in Diameter, >50 ft Installation	ft	\$1.41
430	Irrigation Pipeline	Microirrigation Pipeline	ft	\$0.31
430	Irrigation Pipeline	Pipe System 10-12 in Diameter, <= 50ft Installation	ft	\$2.79
441	Irrigation System, Microirrigation	Trees and Shrubs Microirrigation System	ft	\$0.05
441	Irrigation System, Microirrigation	Specialty Crop Microirrigation System	ac	\$180.52

Code	Practice	Component	Units	Unit Cost
441	Irrigation System, Microirrigation	Potted Plant or Nursery Microirrigation System	sq ft	\$0.03
441	Irrigation System, Microirrigation	Seasonal High Tunnel Microirrigation System	Ea	\$35.01
442	Sprinkler System	Sprinkler Conversion to Low Pressure	ft	\$0.78
442	Sprinkler System	Pod System	Ea	\$26.14
442	Sprinkler System	Traveling Gun System, > 3in Hose	Ea	\$4,796.20
442	Sprinkler System	Traveling Gun System, 2in to 3in Hose	Ea	\$2,424.07
442	Sprinkler System	Traveling Gun System, < 2in Hose	Ea	\$1,838.60
442	Sprinkler System	Wheel Line System	ft	\$1.76
442	Sprinkler System	Conversion to Center Pivot or Linear Move System	ft	\$8.06
442	Sprinkler System	Solid Set System	ac	\$496.57
449	Irrigation Water Management	IWM for microirrigation systems and specialty crops	ac	\$6.06
449	Irrigation Water Management	Advanced IWM	ac	\$1.86
449	Irrigation Water Management	Soil Moisture Sensors with Data Recorder	Ea	\$192.37
449	Irrigation Water Management	IWM for row crops	ac	\$1.19
449	Irrigation Water Management	IWM for Seasonal High Tunnels	Ea	\$45.45
449	Irrigation Water Management	Soil Moisture Sensors	Ea	\$129.09
464	Irrigation Land Leveling	Irrigation Land Leveling	ac	\$28.57
472	Access Control	Animal exclusion from sensitive areas	ac	\$4.30
484	Mulching	Erosion Control Blanket for Endangered Species, Vegetation Establishment	ac	\$852.30
484	Mulching	Synthetic Material, Soil Moisture Management, Seasonal High Tunnel	Ea	\$7.50
484	Mulching	Natural Material, Soil Moisture Management, Seasonal High Tunnel	Ea	\$3.25
484	Mulching	Tree and Shrub, Individual Treatment, Soil Moisture Management	Ea	\$0.24
484	Mulching	Natural Material, Soil Moisture Management	ac	\$30.88
484	Mulching	Erosion Control Blanket, Vegetation Establishment	ac	\$689.26
484	Mulching	Natural Material, Vegetation Establishment	ac	\$23.87
484	Mulching	Synthetic Material, Soil Moisture Management	ac	\$148.05
490	Tree/Shrub Site Preparation	Heavy Mechanical with Chemical	ac	\$48.55
490	Tree/Shrub Site Preparation	Chemical Application	ac	\$6.39
490	Tree/Shrub Site Preparation	Light Mechanical	ac	\$12.65
490	Tree/Shrub Site Preparation	Light Mechanical with Chemical	ac	\$19.04
511	Forage Harvest Management	Perennial Crops - Delayed Mowing	ac	\$0.62

Code	Practice	Component	Units	Unit Cost
511	Forage Harvest Management	Improved Forage Quality	ac	\$0.54
512	Forage and Biomass Planting	Pasture Renovation Utilizing Interim Seeding	ac	\$31.17
512	Forage and Biomass Planting	Introduced Perennial & Native Grass Mix, foregone income	ac	\$48.47
512	Forage and Biomass Planting	Native Grass Establishment or Renovation - with fertility Organic	ac	\$42.11
512	Forage and Biomass Planting	Native Grass Establishment or Renovation - with fertility	ac	\$41.86
512	Forage and Biomass Planting	Native Grass Establishment or Renovation - no fertility Organic	ac	\$38.62
512	Forage and Biomass Planting	Native Grass Establishment or Renovation - no fertility	ac	\$37.54
512	Forage and Biomass Planting	Introduced Grass Establishment or Renovation Organic	ac	\$25.67
512	Forage and Biomass Planting	Introduced Grass Establishment or Renovation	ac	\$23.59
512	Forage and Biomass Planting	Interseed Legumes and/or forbs Organic	ac	\$16.37
512	Forage and Biomass Planting	Interseeding Legumes and/or forbs	ac	\$15.65
516	Livestock Pipeline	Cased Pipeline with Boring	ft	\$10.86
516	Livestock Pipeline	Buried Pipeline, < 2in Plastic	ft	\$0.26
516	Livestock Pipeline	Buried Pipeline, 2in - 3in Plastic	ft	\$0.37
516	Livestock Pipeline	Buried Pipeline, >3in	ft	\$0.66
516	Livestock Pipeline	Bedded Pipeline	ft	\$0.42
516	Livestock Pipeline	Above Ground Pipeline	ft	\$0.11
528	Prescribed Grazing	High Density Grazing	ac	\$8.24
528	Prescribed Grazing	Deferment, >=210 days	ac	\$7.74
528	Prescribed Grazing	Biological Control with Grazing Animals	ac	\$79.73
528	Prescribed Grazing	Deferment, 90 - 209 days	ac	\$5.68
528	Prescribed Grazing	Enhanced - Strip Grazing	ac	\$7.28
528	Prescribed Grazing	High Intensity, <=2 Day Rotation Frequency	ac	\$6.09
528	Prescribed Grazing	Low Intensity, > 7 Day Rotation Frequency	ac	\$2.83
528	Prescribed Grazing	Medium Intensity, 7-3 Days Rotation Frequency	ac	\$4.25
533	Pumping Plant	Livestock Water, Shallow Well Pump (<= 25ft deep) with Above Ground Pump House	Ea	\$218.70
533	Pumping Plant	Windmill-Powered Pump	ft	\$97.74
533	Pumping Plant	Livestock Non-Electric Pump	Ea	\$121.65
533	Pumping Plant	Solar Pump for Deep Well	Ea	\$1,090.53
533	Pumping Plant	Vacuum Pump	Ea	\$559.72
533	Pumping Plant	Milk Transfer Pump	Ea	\$61.05

Code	Practice	Component	Units	Unit Cost
533	Pumping Plant	Livestock Water, Deep Well Pump (> 25ft deep) with Above Ground Pump House	Ea	\$260.46
533	Pumping Plant	Livestock Water, Deep Well Pump (> 25 ft deep) with Buried Pump House	Ea	\$406.80
533	Pumping Plant	Livestock Water, Deep Well Pump (>25 ft deep)	Ea	\$178.02
533	Pumping Plant	Livestock Water, Shallow Well Pump (<= 25 ft deep) with Buried Pump House	Ea	\$365.51
533	Pumping Plant	Solar Pump for Pond	Ea	\$290.49
533	Pumping Plant	Solar Pump for Shallow Well or Spring Development	Ea	\$322.72
533	Pumping Plant	Pump with Sump	Ea	\$363.66
533	Pumping Plant	Microirrigation Pump	Ea	\$142.53
533	Pumping Plant	Irrigation Pump	Ea	\$3,170.46
533	Pumping Plant	Large Wastewater Fuel Driven Pump > 50 Hp	Ea	\$3,280.03
533	Pumping Plant	Small Wastewater Fuel Driven Pump <= 50 Hp	Ea	\$2,537.62
533	Pumping Plant	Manure Pump >5 Hp	Ea	\$815.72
533	Pumping Plant	Wastewater Pump 1-5 Hp	Ea	\$336.71
533	Pumping Plant	Wastewater Pump < 1 Hp	Ea	\$127.91
533	Pumping Plant	Livestock Water, Shallow Well Pump (<= 25 ft deep)	Ea	\$136.27
554	Drainage Water Management	>10 Acres per Structure	ac	\$0.64
554	Drainage Water Management	<=10 acres per Structure with Training	ac	\$1.13
554	Drainage Water Management	>10 acres per Structure with Training	ac	\$0.75
554	Drainage Water Management	<=10 Acres per Structure	ac	\$0.96
558	Roof Runoff Structure	Roof Gutter, Small	ft	\$0.90
558	Roof Runoff Structure	Roof Gutter, Medium	ft	\$1.48
558	Roof Runoff Structure	Roof Gutter, Large	ft	\$2.63
558	Roof Runoff Structure	Rock Trench Drain	ft	\$0.87
558	Roof Runoff Structure	Concrete Channel with Wall	LnFt	\$5.89
561	Heavy Use Area Protection	Gravel with Geotextile, Thick	sq ft	\$0.14
561	Heavy Use Area Protection	Geocell and Gravel HUA	sq ft	\$0.35
561	Heavy Use Area Protection	Gravel without Geotextile, Regular Thickness	sq ft	\$0.08
561	Heavy Use Area Protection	Gravel with Geotextile, Regular Thickness	sq ft	\$0.11
561	Heavy Use Area Protection	Gravel without Geotextile, Thick	sq ft	\$0.11
561	Heavy Use Area Protection	Winter Feeding station with gravel	sq ft	\$0.55
561	Heavy Use Area Protection	Concrete HUA	sq ft	\$0.43

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561	Heavy Use Area Protection	Fly Ash on Geotextile	sq ft	\$0.20
561	Heavy Use Area Protection	Winter Feeding Station	sq ft	\$0.85
561	Heavy Use Area Protection	Bituminous Concrete Pavement	sq ft	\$0.29
570	Stormwater Runoff Control	Stormwater Runoff Control	ac	\$162.81
574	Spring Development	Vertical Collection and Storage Pipe	Ea	\$202.15
574	Spring Development	Collection Structure	Ea	\$126.39
574	Spring Development	Horizontal Collection Pipe	Ea	\$97.06
574	Spring Development	Horizontal Pipe with Collection Box	Ea	\$236.17
578	Stream Crossing	Culvert Installation	DialnFt	\$0.36
578	Stream Crossing	Concrete Crossing	sq ft	\$0.67
578	Stream Crossing	Gravel Crossing	sq ft	\$0.11
578	Stream Crossing	Rip Rap Crossing	sq ft	\$0.35
580	Streambank and Shoreline Protection	Bank Shaping	ft	\$1.00
580	Streambank and Shoreline Protection	Weir/Riffle Small	Ea	\$358.70
580	Streambank and Shoreline Protection	Bankfull Bench, Wood Toe	LnFt	\$16.27
580	Streambank and Shoreline Protection	Bankfull Bench, Rock Toe	CuYd	\$31.60
580	Streambank and Shoreline Protection	Weir/Riffle Large	Ea	\$958.52
580	Streambank and Shoreline Protection	Weir/Riffle Medium	Ea	\$728.12
580	Streambank and Shoreline Protection	Stone Toe protection with vegetation	ft	\$5.06
580	Streambank and Shoreline Protection	Stream Barb/LPSTP-Longitudinal Peaked Stone Toe Protection-small Streams	ft	\$5.20
580	Streambank and Shoreline Protection	Bioengineered	ft	\$2.13
580	Streambank and Shoreline Protection	Stream Barb/Bendway Weir-large stream	ft	\$8.55
580	Streambank and Shoreline Protection	Structural	CuYd	\$6.14
587	Structure for Water Control	Weir Box Inlet WCS, Surface Water Control, <=16 in. dia. Pipe.	Ea	\$306.67
587	Structure for Water Control	Straight Pipe, Surface Water Control, >=12 in. dia. Pipe (w/o adjustable control)	ft	\$5.51
587	Structure for Water Control	Straight Pipe, Surface Water Control, <=10 in. dia. Pipe (w/o adjustable control)	ft	\$4.58
587	Structure for Water Control	Inline WCS, Subsurface Drainage Control, float activated head pressure valve	Ea	\$108.21
587	Structure for Water Control	Inline WCS, Subsurface Drainage Control, >10 in. dia. Pipe	Ea	\$244.21
587	Structure for Water Control	Weir Box Inlet WCS, Surface Water Control, >16 in. dia. Pipe.	Ea	\$416.96
587	Structure for Water Control	Inline Stoplog WCS, Surface Water Control, >18 in. dia. Pipe	Ea	\$608.22
587	Structure for Water Control	Inline Stoplog WCS, Surface Water Control, 12-18 in. dia. Pipe	Ea	\$447.59

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587	Structure for Water Control	Inline Stoplog WCS, Surface Water Control, 6-10 in. dia. Pipe	Ea	\$269.38
587	Structure for Water Control	Inline WCS, Subsurface Drainage Control, <=10 in. dia. Pipe	Ea	\$177.77
590	Nutrient Management	Basic NM with Manure Injection or Incorporation	ac	\$3.44
590	Nutrient Management	Basic Precision NM (Non-Organic/Organic)	ac	\$5.14
590	Nutrient Management	Adaptive NM	Ea	\$255.15
590	Nutrient Management	Basic NM (Non-Organic/Organic)	ac	\$0.82
590	Nutrient Management	Basic NM with Manure and/or Compost (Non-Organic/Organic)	ac	\$1.77
590	Nutrient Management	Small Farm NM (Non-Organic/Organic)	Ea	\$28.51
595	Integrated Pest Management	Basic IPM Fruit/Veg >1RC	ac	\$16.67
595	Integrated Pest Management	Advanced IPM Orchard All RCs	ac	\$25.65
595	Integrated Pest Management	Basic IPM Orchard >1RC	ac	\$21.79
595	Integrated Pest Management	Advanced IPM Fruit/Veg All RCs	ac	\$23.08
595	Integrated Pest Management	Basic IPM Fruit/Veg 1RC	ac	\$7.70
595	Integrated Pest Management	Advanced IPM Field All RCs	ac	\$3.20
595	Integrated Pest Management	Basic IPM Field >1RC	ac	\$1.68
595	Integrated Pest Management	Basic IPM Field 1RC	ac	\$1.12
595	Integrated Pest Management	Basic IPM Orchard 1RC	ac	\$18.59
604	Saturated Buffer	Saturated Buffer	ft	\$0.61
605	Denitrifying Bioreactor	Denitrifying Bioreactor, without liner, no soil cover	CuYd	\$4.71
605	Denitrifying Bioreactor	Denitrifying Bioreactor with liner, no soil cover	CuYd	\$5.23
605	Denitrifying Bioreactor	Denitrifying Bioreactor, without Liner, Soil Cover	CuYd	\$5.73
605	Denitrifying Bioreactor	Denitrifying Bioreactor, with liner and soil cover	CuYd	\$6.59
606	Subsurface Drain	6in CPP	ft	\$0.28
606	Subsurface Drain	8in CPP	ft	\$0.60
606	Subsurface Drain	10in CPP	ft	\$0.77
606	Subsurface Drain	12in CPP	ft	\$0.93
606	Subsurface Drain	>= 15in CPP	ft	\$1.18
606	Subsurface Drain	Enveloped Corrugated Plastic Pipe (CPP), Single-Wall, <= 6 inch	ft	\$0.45
606	Subsurface Drain	Secondary Main Retrofit for DWM	ft	\$0.82
606	Subsurface Drain	<= 5in CPP	ft	\$0.21
612	Tree/Shrub Establishment	Hardwood Establishment, Bareroot, Pasture Conversion	ac	\$49.16

Code	Practice	Component	Units	Unit Cost
612	Tree/Shrub Establishment	Bareroot Trees and Shrubs, Hand Planting	Ea	\$0.26
612	Tree/Shrub Establishment	Bareroot Trees and Shrubs, with Tree Shelters, Each	Ea	\$0.33
612	Tree/Shrub Establishment	Bareroot Trees and Shrubs, Each	Ea	\$0.09
612	Tree/Shrub Establishment	Shrub Establishment, Bareroot	ac	\$164.39
612	Tree/Shrub Establishment	Hardwood Establishment, Bareroot	ac	\$77.19
612	Tree/Shrub Establishment	Direct Seeding	ac	\$81.34
612	Tree/Shrub Establishment	Direct Seeding, no Foregone Income	ac	\$41.23
612	Tree/Shrub Establishment	Conifer Establishment, Bareroot	ac	\$75.61
614	Watering Facility	Above Ground Storage, 1,000 - 3,000 gallons	Ea	\$294.71
614	Watering Facility	Access Ramp	sq ft	\$0.29
614	Watering Facility	Frost Free Waterer	Ea	\$137.50
614	Watering Facility	Permanent Tank, <450 gallons	Ea	\$48.57
614	Watering Facility	Above Ground Storage, >3,000 gallons	Ea	\$493.59
614	Watering Facility	Large Permanent Tank, 450 -1000 gallons, or Fountain	Ea	\$121.97
614	Watering Facility	Tire Tank	Ea	\$119.01
614	Watering Facility	Portable Tank	Ea	\$13.02
614	Watering Facility	Underground Storage Tank	Ea	\$481.65
620	Underground Outlet	Trickle Flow Collector	ft	\$6.08
620	Underground Outlet	10in Diameter Pipe	ft	\$0.84
620	Underground Outlet	>=12in Diameter Pipe	ft	\$1.03
620	Underground Outlet	8in Diameter Pipe	ft	\$0.65
620	Underground Outlet	6in Diameter Pipe	ft	\$0.35
620	Underground Outlet	<=5in Diameter Pipe	ft	\$0.27
620	Underground Outlet	>=12in Diameter Pipe with Risers	ft	\$1.22
620	Underground Outlet	10in Diameter Pipe with Risers	ft	\$0.91
620	Underground Outlet	8in Diameter Pipe with Risers	ft	\$0.64
620	Underground Outlet	Blind Inlet	ft	\$6.22
620	Underground Outlet	6in Diameter Pipe with Risers	ft	\$0.37
620	Underground Outlet	<= 5in Diameter Pipe with Risers	ft	\$0.30
620	Underground Outlet	Perforated Pipe Riser	Ea	\$28.74

Code	Practice	Component	Units	Unit Cost
643	Restoration and Management of Rare and Declining Habitats	Development of Shallow Micro-Topographic Features with Normal Farming Equipment.	ac	\$3.97
643	Restoration and Management of Rare and Declining Habitats	Woodland Restoration, Light	ac	\$15.30
643	Restoration and Management of Rare and Declining Habitats	Woodland Restoration, Medium	ac	\$18.73
643	Restoration and Management of Rare and Declining Habitats	Woodland Restoration, Heavy	ac	\$23.99
643	Restoration and Management of Rare and Declining Habitats	Savanna or Prairie Restoration, Light	ac	\$9.00
643	Restoration and Management of Rare and Declining Habitats	Savanna or Prairie Restoration, Medium	ac	\$21.36
643	Restoration and Management of Rare and Declining Habitats	Development of Deep Micro-Topographic Features with Heavy Equipment.	ac	\$11.27
643	Restoration and Management of Rare and Declining Habitats	Habitat Monitoring and Management, High Intensity and Complexity	ac	\$2.32
643	Restoration and Management of Rare and Declining Habitats	Rare or Declining Habitat Monitoring and Management, Medium Intensity and Complexity	ac	\$1.25
643	Restoration and Management of Rare and Declining Habitats	Habitat Monitoring and Management, Low Intensity and Complexity	ac	\$0.39
643	Restoration and Management of Rare and Declining Habitats	Savanna or Prairie Restoration, Heavy	ac	\$34.40
644	Wetland Wildlife Habitat Management	Habitat Monitoring and Management, High Intensity and Complexity	ac	\$3.05
644	Wetland Wildlife Habitat Management	Topographic Feature Creation, High	ac	\$184.48
644	Wetland Wildlife Habitat Management	Topographic Feature Creation, Low	ac	\$91.98
644	Wetland Wildlife Habitat Management	Management and monitoring only, foregone income	ac	\$41.77
644	Wetland Wildlife Habitat Management	Habitat Monitoring and Management, Medium Intensity and Complexity	ac	\$1.25
644	Wetland Wildlife Habitat Management	Wetland Wildlife Habitat Monitoring and Management, Low Intensity and Complexity	ac	\$0.39
644	Wetland Wildlife Habitat Management	Development of Deep Micro-Topographic Features with Heavy Equipment.	ac	\$11.27
644	Wetland Wildlife Habitat Management	Development of Shallow Micro-Topographic Features with Normal Farming Equipment.	ac	\$3.97
645	Upland Wildlife Habitat Management	Deferred Acres	ac	\$41.74
645	Upland Wildlife Habitat Management	Macro Topography, deep	Ea	\$88.51
645	Upland Wildlife Habitat Management	Habitat Monitoring and Management, Low Intensity and Complexity	ac	\$0.39
645	Upland Wildlife Habitat Management	Habitat Monitoring and Management, Medium Intensity and Complexity	ac	\$1.25
645	Upland Wildlife Habitat Management	Habitat Monitoring and Management, High Intensity and Complexity	ac	\$3.05
645	Upland Wildlife Habitat Management	Wildlife Habitat Enhancement w/ FI	ac	\$1.81
646	Shallow Water Development and Management	Low Level Management, Natural Ponding	ac	\$3.62
646	Shallow Water Development and Management	High Level Management, Pumping	ac	\$4.82
647	Early Successional Habitat Development/Management	Mowing	ac	\$20.44
647	Early Successional Habitat Development/Management	Disking	ac	\$10.00

Code	Practice	Component	Units	Unit Cost
647	Early Successional Habitat Development/Management	Mowing and Disking	ac	\$21.51
647	Early Successional Habitat Development/Management	Mowing and Heavy Disking	ac	\$22.58
649	Structures for Wildlife	Nesting Box or Raptor Perch, Large, with Pole	Ea	\$26.01
649	Structures for Wildlife	Edgefeathering, heavy	ac	\$101.51
649	Structures for Wildlife	Edgefeathering, light	ac	\$55.82
649	Structures for Wildlife	Downed Tree Structure	Ea	\$25.30
649	Structures for Wildlife	Brush Pile, Small	Ea	\$3.47
649	Structures for Wildlife	Fence Markers, Vinyl Undersill	ft	\$0.02
649	Structures for Wildlife	Nesting Box, Large	Ea	\$8.97
649	Structures for Wildlife	Nesting Box, Small, with pole	no	\$5.76
649	Structures for Wildlife	Nesting Box, Small, without pole	Ea	\$3.60
649	Structures for Wildlife	Escape Ramp	Ea	\$4.01
650	Windbreak/Shelterbelt Renovation	Removal and/or Thinning with Chain Saw	ft	\$0.06
650	Windbreak/Shelterbelt Renovation	Within Row Replacement, Containerized Planting Stock	ft	\$0.16
650	Windbreak/Shelterbelt Renovation	Within Row Replacement, Bare-root Planting Stock	ft	\$0.04
655	Forest Trails and Landings	Water Bar Installation	Ea	\$6.06
655	Forest Trails and Landings	Log Landing Shaping and Grading with Vegetation Establishment	ac	\$174.59
655	Forest Trails and Landings	Shaping and Grading	ft	\$0.05
655	Forest Trails and Landings	Shaping and Grading with Vegetation Establishment	ft	\$0.07
666	Forest Stand Improvement	Forest Stand Improvement, Light	ac	\$11.26
666	Forest Stand Improvement	Forest Stand Improvement, Medium	ac	\$13.78
666	Forest Stand Improvement	Forest Stand Improvement, Heavy	ac	\$17.39
666	Forest Stand Improvement	Temporary Forest Openings, patch clearcuts	ac	\$29.22
B000BFF1	Buffer Bundle#1	Buffer Bundle#1	ac	\$2,253.99
B000BFF2	Buffer Bundle#2	Buffer Bundle#2	ac	\$1,785.75
B000CPL10	YEAR 1 Irrigated Cropland (MRBI/Ogallala)	YEAR 1 Irrigated Cropland (MRBI/Ogallala)	ac	\$136.16
B000CPL11	YEAR 2+ Irrigated Cropland (MRBI/Ogallala)	YEAR 2+ Irrigated Cropland (MRBI/Ogallala)	ac	\$44.67
B000CPL12	Non-Irrigated Precision Ag (MRBI)	Non-Irrigated Precision Ag (MRBI)	ac	\$45.11
B000CPL13	Non-Irrigated Cropland (MRBI)	Non-Irrigated Cropland (MRBI)	ac	\$31.14
B000CPL14	YEAR 1 Irrigated Precision Ag Cropland (MRBI)	YEAR 1 Irrigated Precision Ag Cropland (MRBI)	ac	\$143.65
B000CPL15	YEAR 2+ Irrigated Precision Ag Cropland (MRBI)	YEAR 2+ Irrigated Precision Ag Cropland (MRBI)	ac	\$52.17

Code	Practice	Component	Units	Unit Cost
B000CPL16	Non-Irrigated Cropland with Water Bodies (MRBI)	Non-Irrigated Cropland with Water Bodies (MRBI)	ac	\$42.88
B000CPL17	Non-Irrigated Cropland with Water Bodies Riparian Forest Buffer (MRBI)	Non-Irrigated Cropland with Water Bodies Riparian Forest Buffer (MRBI)	ac	\$71.32
B000CPL18	Crop Bundle #18 - Precision Ag	Crop Bundle #18 - Precision Ag	ac	\$46.42
B000CPL19	Crop Bundle #19 - Soil Health Precision Ag	Crop Bundle #19 - Soil Health Precision Ag	ac	\$46.37
B000CPL20	Crop Bundle #20 - Soil Health Assessment	Crop Bundle #20 - Soil Health Assessment	ac	\$36.69
B000CPL21	Crop Bundle #21 - Crop Bundle (Organic)	Crop Bundle #21 - Crop Bundle (Organic)	ac	\$53.10
B000CPL22	Crop Bundle #22 - Erosion Bundle (Organic)	Crop Bundle #22 - Erosion Bundle (Organic)	ac	\$39.08
B000FST1	Forest Bundle#1	Forest Bundle#1	ac	\$91.05
B000GRZ1	Grazing Bundle 1 - Range and Pasture	Grazing Bundle 1 - Range and Pasture	ac	\$86.74
B000GRZ2	Grazing Bundle 2 - Range and Pasture	Grazing Bundle 2 - Range and Pasture	ac	\$2,260.58
B000GRZ3	Grazing Bundle 3 - Range and Pasture	Grazing Bundle 3 - Range and Pasture	ac	\$1,825.55
B000GRZ4	Grazing Bundle 4 - Range and Pasture	Grazing Bundle 4 - Range and Pasture	ac	\$2,952.29
B000GRZ5	Grazing Bundle 5 - Range and Pasture	Grazing Bundle 5 - Range and Pasture	ac	\$5.95
B000PST5	Pasture Bundle 5	Pasture Bundle #5	ac	\$63.01
E314133Z	Brush management for improved structure and composition	Brush mgmt, improved structure and comp	ac	\$16.31
E314134Z	Brush management that maintains or enhances wildlife or fish habitat	Brush mgmt, enhance habitat	ac	\$16.31
E315132Z	Herbaceous weed control for desired plant communities/habitats consistent with the ecological site	Herbaceous weed control-habitats	ac	\$13.10
E315133Z	Herbaceous weed control (inadequate structure and comp) for desired plant communities/habitats	Herbaceous weed control-communities	ac	\$13.10
E315134Z	Herbaceous weed control (plant pest pressures) for desired plant communities/habitats	Herbaceous weed control-pest pressures	ac	\$13.10
E327136Z1	Conservation cover to provide food habitat for pollinators and beneficial insects	Conservation cover-pollinator food	ac	\$305.61
E327136Z2	Establish Monarch butterfly habitat	Establish monarch butterfly habitat	ac	\$1,779.37
E327137Z	Conservation cover to provide cover and shelter habitat for pollinators and beneficial insects	Conservation cover-pollinator shelter	ac	\$305.61
E327139Z	Conservation cover to provide habitat continuity for pollinators and beneficial insects	Conservation cover-habitat continuity	ac	\$305.61
E328101I	Improved resource conserving crop rotation to reduce water erosion	IRCCR water erosion	ac	\$4.80
E328101R	Resource conserving crop rotation to reduce water erosion	RCCR water erosion	ac	\$13.45
E328101Z	Conservation crop rotation on recently converted CRP grass/legume cover for water erosion	CRP trans crop rotation-water erosion	ac	\$2.88

Code	Practice	Component	Units	Unit Cost
E328102I	Improved resource conserving crop rotation to reduce wind erosion	IRCCR wind erosion	ac	\$4.80
E328102R	Resource conserving crop rotation to reduce wind erosion	RCCR wind erosion	ac	\$13.45
E328102Z	Conservation crop rotation on recently converted CRP grass/legume cover for wind erosion	CRP trans crop rotation-wind erosion	ac	\$2.88
E328106I	Improved resource conserving crop rotation for soil organic matter improvement	IRCCR for SOM improvement	ac	\$4.80
E328106R	Resource conserving crop rotation for soil organic matter improvement	RCCR for SOM improvement	ac	\$13.45
E328106Z1	Soil health crop rotation	Soil health crop rotation	ac	\$4.80
E328106Z2	Modifications to improve soil health and increase soil organic matter	Mod to improve SH and SOM	ac	\$9.49
E328106Z3	Conservation crop rotation on recently converted CRP grass/legume cover for SOM improvement	CRP trans crop rotation-SOM	ac	\$4.80
E328107I	Improved resource conserving crop rotation to improve soil compaction	IRCCR to improve soil compaction	ac	\$4.80
E328107R	Resource conserving crop rotation to improve soil compaction	RCCR to improve soil compaction	ac	\$13.45
E328118Z	Conservation crop rotation to reduce water quality degradation by utilization and removal of excess	Rotation to improve water quality	ac	\$4.44
E328134I	Improved resource conserving crop rotation to relieve plant pest pressure	IRCCR to relieve plant pest pressure	ac	\$4.80
E328134R	Resource conserving crop rotation to relieve plant pest pressure	RCCR to relieve plant pest pressure	ac	\$13.45
E328136Z	Leave standing grain crops unharvested to benefit wildlife food sources	Leave standing grain crops for food	ac	\$5.17
E328136Z2	Improved crop rotation to provide benefits to pollinators	Rotation to benefit pollinators	ac	\$76.85
E328137Z	Leave standing grain crops unharvested to benefit wildlife cover and shelter	Leave standing grain crops for shelter	ac	\$5.17
E329101Z	No till to reduce water erosion	No till to reduce water erosion	ac	\$2.88
E329102Z	No till system to reduce wind erosion	No till system to reduce wind erosion	ac	\$2.88
E329106Z	No till system to increase soil health and soil organic matter content	No till system to increase SH and SOM	ac	\$3.84
E329114Z	No till to increase plant-available moisture: irrigation water	No till for IWM	ac	\$2.88
E329115Z	No till to increase plant-available moisture: moisture management	No till for moisture mgmt	ac	\$2.88
E329128Z	No till to reduce tillage induced particulate matter	No till to reduce PM	ac	\$2.88
E329144Z	No till to reduce energy	No till to reduce energy	ac	\$3.84
E338136Z	Short-interval burns to promote a healthy herbaceous plant community for wildlife food	Short-interval burns to promote a healthy herbaceous plant community for wildlife food	ac	\$90.36
E338137Z2	Short-interval burn	Short-interval burn	ac	\$45.98
E338140Z	Short-interval prescribed burning to promote a healthy herbaceous plant community	Short-interval prescribed burning	ac	\$87.96
E340101Z	Cover crop to reduce water erosion	Cover crop to reduce water erosion	ac	\$5.80

Code	Practice	Component	Units	Unit Cost
E340102Z	Cover crop to reduce wind erosion	Cover crop to reduce wind erosion	ac	\$5.80
E340106Z1	Intensive cover cropping to increase soil health and soil organic matter content	Cover cropping for SH and SOM	ac	\$9.02
E340106Z2	Use of multi-species cover crops to improve soil health and increase soil organic matter	Multi-species cover crops	ac	\$8.47
E340106Z3	Intensive cover cropping (orchard/vineyard floor) to increase soil health and SOM content	Cover cropping for orchards/vineyards	ac	\$7.74
E340106Z4	Use of SHA to assist with development of cover crop mix to improve soil health and increase SOM	Soil health assessment	ac	\$9.30
E340107Z	Cover crop to minimize soil compaction	Cover crop to minimize soil compaction	ac	\$7.42
E340118Z	Cover crop to reduce water quality degradation by utilizing excess soil nutrients-surface water	Cover crop for WQ nutrients-runoff	ac	\$7.42
E340119Z	Cover crop to reduce water quality degradation by utilizing excess soil nutrients-ground water	Cover crops for WQ nutrients-drainage	ac	\$7.42
E340134Z	Cover crop to suppress excessive weed pressures and break pest cycles	Cover crops for suppression	ac	\$7.74
E345101Z	Reduced tillage to reduce water erosion	Reduced tillage to reduce water erosion	ac	\$3.84
E345102Z	Reduced tillage to reduce wind erosion	Reduced tillage to reduce wind erosion	ac	\$2.88
E345106Z	Reduced tillage to increase soil health and soil organic matter content	Reduced tillage for SH and SOM	ac	\$3.84
E345114Z	Reduced tillage to increase plant-available moisture: irrigation water	Reduced tillage for IWM	ac	\$2.88
E345115Z	Reduced tillage to increase plant-available moisture: moisture management	Reduced tillage for moisture mgmt	ac	\$2.88
E345128Z	Reduced tillage to reduce tillage induced particulate matter	Reduced tillage to reduce PM	ac	\$2.88
E345144Z	Reduced tillage to reduce energy use	Reduced tillage to reduce energy use	ac	\$2.88
E374144Z1	Install variable frequency drive(s) on pump(s)	Variable frequency drives	BHP	\$216.84
E374144Z2	Switch fuel source for pump motor(s)	Switch fuel source for pump motor(s)	HP	\$7,974.70
E376128Z	Modify field operations to reduce particulate matter	Mod field ops to reduce PM	ac	\$2.88
E381133Z	Silvopasture for wildlife habitat (structure and composition)	Silvopasture-structure and comp	ac	\$70.67
E381137Z	Silvopasture for wildlife habitat (cover and shelter)	Silvopasture for wildlife habitat-food	ac	\$74.76
E382136Z	Incorporating "wildlife friendly" fencing for connectivity of wildlife food resources	Wildlife friendly fence for food access	ft	\$0.16
E386101Z	Enhanced field borders to reduce water induced erosion along the edge(s) of a field	Field borders to reduce water erosion	ac	\$706.48
E386102Z	Enhanced field borders to reduce wind induced erosion along the windward side(s) of a field	Field borders to reduce wind erosion	ac	\$706.48

Code	Practice	Component	Units	Unit Cost
E386106Z	Enhanced field borders to increase carbon storage along the edge(s) of the field	Field borders to increase carbon storage	ac	\$706.48
E386128Z	Enhanced field borders to decrease particulate emissions along the edge(s) of the field	Field borders to decrease particulates	ac	\$706.48
E386136Z	Enhanced field border to provide wildlife food for pollinators along the edge(s) of a field	Field border to provide wildlife food	ac	\$706.48
E386137Z	Enhanced field border to provide wildlife cover or shelter along the edge(s) of a field	Field border to provide wildlife cover	ac	\$706.48
E386139Z	Enhanced field border to provide wildlife habitat continuity along the edge(s) of a field	Field border to provide continuity	ac	\$706.48
E390118Z	Increase riparian herbaceous cover width for nutrient reduction	Riparian herbaceous cover-nut reduction	ac	\$558.38
E390126Z	Increase riparian herbaceous cover width to reduce sediment loading	Riparian herbaceous cover-sed loading	ac	\$558.38
E390136Z	Increase riparian herbaceous cover width to enhance wildlife habitat	Riparian herbaceous cover-habitat	ac	\$746.07
E391118Z	Increase riparian forest buffer width for nutrient reduction	Riparian forest buffer-nut reduction	ac	\$1,750.10
E391126Z	Increase riparian forest buffer width to reduce sediment loading	Riparian forest buffer-sed loading	ac	\$1,772.83
E391127Z	Increase stream shading for stream temperature reduction	Shade stream to reduce temp	ac	\$1,772.83
E391136Z	Increase riparian forest buffer width to enhance wildlife habitat	Riparian forest buffer-habitat	ac	\$1,772.83
E393118Z	Extend existing filter strip to reduce excess nutrients in surface water	Extend filter strips- nut runoff	ac	\$898.61
E393122Z	Extend existing filter strip to reduce excess pathogens and chemicals in surface water	Extend filter strips-pathogen runoff	ac	\$898.61
E393126Z	Extend existing filter strip to reduce excess sediment in surface water	Extend filter strips-sediment	ac	\$898.61
E395137X	Stream habitat improvement through placement of woody biomass	Stream habitat improvement with wood	ac	\$20,969.52
E399137X	Fishpond management for native aquatic and terrestrial species	Fishpond mgmt	ac	\$1,646.82
E449114Z5	Complete pumping plant evaluation for all existing pumps on a farm.	Pumping Plant Evaluation	ac	\$5.32
E449114Z7	Advanced Automated IWM - Year 2-5, Soil moisture is monitored, recorded and used in decision making	Advanced Automated IWM - Year 2-5, soil moisture monitoring	ac	\$18.13
E449114Z8	Advanced Automated IWM - Year 1 - Equipment and soil moisture is monitored, recorded and used in dec	Advanced Automated IWM - Year 1 Equipment and soil moisture monitoring	ac	\$53.87
E449144Z	Complete pumping plant evaluation for all pumps on a farm.	Pumping plant evaluation	ac	\$5.32
E472118Z	Manage livestock access to streams/ditches/other waterbodies to reduce nutrients in surface water	Livestock access to waterbody-nutrients	ft	\$2.23
E472122Z	Manage livestock access to streams/ditches/other waterbodies to reduce pathogens in surface water	Livestock access to waterbody-pathogens	ft	\$2.23
E484106Z	Mulching to improve soil health	Mulching to improve soil health	ac	\$1.92

Code	Practice	Component	Units	Unit Cost
E484128Z	Reduce particulate matter emissions by using orchard or vineyard generated woody materials as mulch	Mulching with onsite woody materials to reduce PM emissions	ac	\$14.15
E511137Z1	Harvest of crops (hay or small grains) using measures that allow desired species to flush or escape	Harvest using wildlife friendly methods	ac	\$3.57
E511137Z2	Forage harvest management that helps maintain or improve wildlife habitat (cover and shelter)	FHM for cover and shelter	ac	\$4.43
E511139Z2	Forage harvest management that helps maintain wildlife habitat continuity (space)	FHM for habitat space continuity	ac	\$3.57
E512101Z1	Cropland conversion to grass-based agriculture to reduce water erosion	Convert crop to grass for water erosion	ac	\$5.30
E512101Z2	Forage and biomass planting for water erosion to improve soil health	Forage planting for SH	ac	\$15.22
E512102Z	Cropland conversion to grass-based agriculture to reduce wind erosion	Convert crop to grass for wind erosion	ac	\$8.10
E512106Z1	Cropland conversion to grass-based agriculture for soil organic matter improvement	Convert crop to grass for SOM	ac	\$15.21
E512106Z2	Forage plantings that can help increase organic matter in depleted soils	Forage planting for SOM	ac	\$15.76
E512132Z1	Forage and biomass planting that produces feedstock for biofuels or energy production	Forage planting for feedstocks	ac	\$37.92
E512132Z2	Native grasses or legumes in forage base to improve plant productivity and health	Native grasses/legumes-plant health	ac	\$15.61
E512133Z1	Native grasses or legumes in forage base to improve plant community structure and composition	Native grasses/legumes-structure/comp	ac	\$40.37
E512133Z2	Forage plantings that enhance bird habitat (structure and composition)	Forage planting for structure/comp	ac	\$76.49
E512136Z1	Establish pollinator and/or beneficial insect food habitat	Establish pollinator habitat-food	ac	\$58.80
E512136Z2	Native grass or legumes in forage base to provide wildlife food	Native grasses/legumes-wildlife food	ac	\$58.80
E512137Z	Forage plantings that enhance bird habitat (cover and shelter)	Forage planting for cover and shelter	ac	\$76.49
E512138Z	Establish wildlife corridors to enhance access to water	Corridors for water access	ac	\$20.22
E512139Z1	Establish wildlife corridors to provide habitat continuity	Corridors for habitat continuity	ac	\$19.56
E512139Z2	Establish pollinator and/or beneficial insect habitat continuity (space)	Establish pollinator habitat-space	ac	\$59.77
E512139Z3	Establish Monarch butterfly habitat in pastures	Establish Monarch Butterfly Habitat in pastures	ac	\$59.77
E512140Z	Native grasses or legumes in forage base	Native grasses or legumes in forage base	ac	\$39.27
E528104Z	Grazing management that protects sensitive areas from gully erosion	Grazing mgmt-sensitive areas-erosion	ac	\$1.60
E528105Z	Prescribed grazing that improves or maintains riparian and watershed function-erosion	Prescribed grazing-erosion	ac	\$9.14
E528107Z1	Improved grazing management for soil compaction through monitoring activities	Grazing mgmt to improve compaction	ac	\$7.18

Code	Practice	Component	Units	Unit Cost
E528118Z1	Prescribed grazing that maintains/improves riparian/watershed function impairment from nutrients	Prescribed grazing-nut runoff	ac	\$14.71
E528119Z	Grazing management that protects sensitive areas-ground water from nutrients	Grazing mgmt-sensitive area-nut sub water	ac	\$1.75
E528122Z	Prescribed grazing that maintains/improves riparian/watershed function-pathogens/chemicals	Prescribed grazing-pathogens	ac	\$14.71
E528126Z	Prescribed grazing that maintains/improves riparian/watershed function-min sediment in surface water	Prescribed grazing-sediment	ac	\$13.10
E528132Z1	Improved grazing mgmt for plant productivity/health through monitoring	Grazing mgmt-plant health	ac	\$8.79
E528132Z2	Stockpiling cool season forage to improve plant productivity and health	Stockpile cool season forage-plant prod	ac	\$21.09
E528133Z1	Stockpiling cool season forage to improve structure and composition.	Stockpile cool season forage-structure	ac	\$21.09
E528133Z2	Grazing management for improving quantity/quality of plant structure/composition for wildlife	Grazing mgmt-structure for wildlife	ac	\$2.82
E528136Z1	Grazing management for improving quantity and quality of food for wildlife	Grazing mgmt-food	ac	\$0.49
E528136Z2	Incorporating wildlife refuge areas in contingency plans for wildlife food	Add wildlife refuge area-food	ac	\$15.52
E528137Z1	Grazing management for improving quantity and quality of cover and shelter for wildlife	Grazing mgmt-shelter	ac	\$0.49
E528137Z2	Incorporating wildlife refuge areas in contingency plans for prescribed grazing-cover/shelter	Add wildlife refuge area-shelter	ac	\$15.52
E528138Z	Incorporating wildlife refuge areas in contingency plans for prescribed grazing-water access	Add wildlife refuge area-water	ac	\$15.52
E528140Z1	Maintaining quantity and quality of forage for animal health and productivity	Maintain forage quantity and quality	ac	\$3.60
E528140Z2	Incorporating wildlife refuge areas in contingency plans for livestock feed and forage	Add wildlife refuge area-forage	ac	\$2.60
E578139X	Stream crossing elimination	Stream crossing elimination	Ea	\$7,542.05
E580105Z	Stream corridor bank stability improvement	Stream bank stability improvement	ac	\$1,891.55
E580137Z	Stream corridor bank vegetation improvement	Stream corridor bank veg improvement	ac	\$1,891.55
E590118X	Reduce risks of nutrient losses to surface water by utilizing precision ag technologies	Precision ag for nut reduction	ac	\$16.90
E590118Z	Improving nutrient uptake efficiency and reducing risk of nutrient losses to surface water	Nut mgmt for surface water	ac	\$10.38
E590119X	Reduce risks of nutrient losses to ground water by utilizing precision agriculture technologies to p	Prec Ag reduce nut in groundwater	ac	\$16.90

Code	Practice	Component	Units	Unit Cost
E590119Z	Improving nutrient uptake efficiency and reducing risk of nutrient losses to groundwater	Nut mgmt for groundwater	ac	\$10.38
E590130Z	Improving nutrient uptake efficiency and reducing risks to air quality - emissions of GHGs	Nut mgmt for GHGs	ac	\$10.38
E595116X	Reduce risk of pesticides in surface water by utilizing precision pesticide application techniques	Pest mgmt for surface water	ac	\$12.68
E595116Z	Reduce risk of pesticides in surface water by utilizing IPM PAMS techniques	IPM PAMS techniques	ac	\$6.09
E595116Z2	Reducing routine neonicotinoid seed treatments on corn and soybean crops.	Reducing routine seed treatments	ac	\$4.80
E595129Z	Reduce ozone precursor emissions related to pesticides by utilizing IPM PAMS techniques	IPM PAMS techniques for ozone reduction	ac	\$6.09
E595136X	Increase the size requirement of refuges planted to slow pest resistance to Bt crops	Refuges for Bt crops	ac	\$12.83
E595137Z	Eliminate use of chemical treatments to control pests and increase dung beetle populations	Pest management for Dung Beetle population enhancement	ac	\$5.96
E612126Z	Cropland conversion to trees or shrubs for long term improvement of water quality	Convert crop to trees-WQ	ac	\$804.27
E612130Z	Planting for high carbon sequestration rate	Planting for high carbon sequestration	ac	\$967.38
E612132Z	Establishing tree/shrub species to restore native plant communities	Tree/shrubs-restore native communities	ac	\$652.88
E612133X1	Adding food-producing trees and shrubs to existing plantings	Adding food-producing trees and shrubs	ac	\$170.35
E612133X2	Cultural plantings	Cultural plantings	ac	\$1,409.52
E612133X3	Sugarbush management	Sugarbush management	ac	\$663.52
E612136Z	Tree/shrub planting for wildlife food	Tree/shrub planting for wildlife food	ac	\$1,376.99
E612137Z	Tree/shrub planting for wildlife cover	Tree/shrub planting for wildlife cover	ac	\$1,376.99
E643139X	Creating native plant refugia	Creating native plant refugia	ft	\$7.23
E644136Z	Managing Flood-Irrigated Landscapes for Wildlife	Manage flood irrigated landscape for wildlife food	ac	\$23.56
E645137Z	Reduction of attractants to human-subsidized predators in sensitive wildlife species habitat	Reduce human-subsidized predators	ac	\$44.84
E646136Z1	Close structures to capture/retain rainfall to improve food for waterfowl/wading birds during winter	Close structures to improve food	ac	\$26.18
E646136Z3	Shorebird habitat, late season shallow water with manipulation to improve food sources	Late season shallow water - food	ac	\$52.11
E646136Z4	Shorebird habitat, extended late season shallow water with manipulation to improve food sources	Extended late season shallow water-food	ac	\$57.78

Code	Practice	Component	Units	Unit Cost
E646137X	Renovate small, shallow pothole and playa sites which may seasonally hold water	Shallow water development and management	ac	\$1,746.30
E646137Z3	Shorebird habitat, late season shallow water with manipulation to improve cover and shelter	Late season shallow water - cover	ac	\$52.11
E646137Z4	Extended late season shallow water with manipulation to improve cover and shelter	Extended late season shallow water-cover	ac	\$57.78
E646138Z3	Shorebird habitat, late season shallow water with manipulation	Late season shallow water	ac	\$52.11
E646138Z4	Shorebird habitat, extended late season shallow water with manipulation	Extended late season shallow water	ac	\$57.78
E646139Z2	Extend retention of captured rainfall to provide habitat continuity during late winter	Extend retention - habitat continuity	ac	\$30.80
E646139Z3	Shorebird habitat, late season shallow water with manipulation to enhance habitat continuity	Late season shallow water-continuity	ac	\$52.11
E646139Z4	Shorebird habitat, extended late season shallow water with manipulation - habitat continuity	Extended late season water-continuity	ac	\$57.78
E647136Z3	Establish and maintenance of moist soil vegetation on cropland edges to increase wildlife food	Moist soil vegetation-food	ac	\$11.75
E647137Z2	Establish and maintenance of moist soil vegetation on cropland edges to increase cover/shelter	Moist soil vegetation-cover/shelter	ac	\$11.75
E647139Z1	Establish/maintain habitat continuity, naturally occurring vegetation in ditches/ditch bank borders	Naturally occurring veg in ditches	ac	\$11.75
E666106Z2	Maintaining and improving forest soil quality	Maintain/improve forest SQ	ac	\$39.39
E666107Z	Maintaining and improving forest soil quality by limiting compaction	Maintain/imrove forest compaction	ac	\$39.39
E666115Z2	Enhance development of the forest understory to improve site moisture	Forest understory to improve moisture	ac	\$240.59
E666118Z	Enhance development of the forest understory to capture nutrients in surface water	Understory-nutrients in surface water	ac	\$240.59
E666119Z	Enhance development of the forest understory to capture nutrients -ground water	Understory-nutrients in ground water	ac	\$240.59
E666130Z	Increase on-site carbon storage	Increase on-site carbon storage	ac	\$12.49
E666132Z1	Crop tree management for mast production	Crop tree management for mast production	ac	\$347.52
E666132Z2	Reduce forest stand density to improve a degraded plant community	Forest density-degraded plant community	ac	\$275.87
E666132Z3	Facilitating oak forest regeneration	Facilitating oak forest regeneration	ac	\$513.32
E666133X	Forest Stand Improvement to rehabilitate degraded hardwood stands	FSI-structure/composition in hardwoods	ac	\$495.47
E666133Z1	Creating structural diversity with patch openings	Structural diversity with patch openings	ac	\$485.45

<b>Code</b>	<b>Practice</b>	<b>Component</b>	<b>Units</b>	<b>Unit Cost</b>
E666134Z	Enhance development of the forest understory to create conditions resistant to pests	Forest understory-resistant to pests	ac	\$240.59
E666136Z1	Reduce forest density and manage understory along roads to improve wildlife food sources	Manage understory-wildlife food sources	ac	\$277.38
E666136Z2	Reduce forest stand density to improve wildlife food sources	Stand density-wildlife food sources	ac	\$275.87
E666136Z3	Create patch openings to enhance wildlife food sources and availability	Patch openings-food and availability	ac	\$305.11
E666137Z1	Snags, den trees, and coarse woody debris for wildlife habitat	Snags and den trees for wildlife	ac	\$49.14
E666137Z2	Summer roosting habitat for native forest-dwelling bat species	Summer roosting habitat for bats	ac	\$197.93
E666137Z3	Increase diversity in pine plantation monocultures	Improve pine plantation diversity	ac	\$485.45
E666137Z6	Create patch openings to enhance wildlife cover and shelter	Patch openings-cover and shelter	ac	\$305.11
E666137Z7	Enhance development of the forest understory to provide wildlife cover and shelter	Understory to provide cover/shelter	ac	\$240.59
E666137Z8	Forest songbird habitat maintenance	Forest songbird habitat maintenance	ac	\$182.58