



2012 National Initiatives

EQIP Energy Initiative EQIP Organic Initiative EQIP Seasonal High Tunnel Initiative

For FY 2012, NRCS is offering funding under three national initiatives. The practices available under these initiatives were determined by the NRCS Chief after consultation with farm and industry groups.

There will be three application periods for these initiatives. All eligible applications received by **February 3, 2012** will be ranked and funded first. All eligible applications received by **March 30, 2012** will be funded next. The final application period will close **June 1, 2012**; all eligible applications will be ranked by June 11, 2012.

It is the applicant's responsibility to meet all person and land eligibility requirements, which include identifying the resource concern to be addressed, by the application period deadline.

Applications for these initiatives must follow all regular EQIP rules and policies, plus:

Seasonal High Tunnel Initiative:	
All applicants must apply for and implement the Seasonal High Tunnel practice, or have an existing high tunnel (with crops grown directly in the soil).	Payment for Seasonal High Tunnels is limited to 5% of one acre per farming operation. Additional tunnels can be constructed at the applicant's expense.
All other practices included in a SHT initiative contract are limited to the extent required to address resource concerns related to the planned or existing seasonal high tunnel on the applicant's land. Payment rates listed here with an "acre" unit are converted to sq. ft. payment rates in the contract.	Applicants may also apply to develop a Nutrient Management Plan, Integrated Pest Management Plan, Irrigation Water Management Plan, or Conservation Plan Supporting Organic Transition for the areas farmed under Seasonal High Tunnels under this initiative.
Energy Initiative:	
On-farm energy conservation related to the production of agricultural products is the only resource concern available to address under this initiative.	Applicants may apply to develop an Agricultural Energy Management Plan (AEMP) for either their headquarters area, or their landscape/crop production area, or both.
Applicants must provide documentation for the projected energy savings from the implementation of the contracted practices.	To be eligible for the practice "Farmstead Energy Improvement", a completed Energy Audit or AEMP less than five years old must be provided to NRCS.
Organic Initiative:	
Applicants may also apply to develop a Nutrient Management Plan, Integrated Pest Management Plan, Irrigation Water Management Plan, or Conservation Plan Supporting Organic Transition for the areas farmed under Seasonal High Tunnels under this initiative.	
Transitioning to Organic applicants must self-certify that they agree to develop and implement an Organic System Plan (OSP) before the contract is approved.	Transitioning to Organic applicants must also provide NRCS the contact information of the USDA accredited organic certifying agent with whom they are working.
Certified organic applicants must provide NRCS with a copy of their Organic System Plan (OSP); and organic certification must be maintained for the life of the contract.	Exempt organic applicants will be ranked with certified organic applicants if they self-certify that they agree to develop and implement an OSP.
All organic initiative contracts have a payment limitation of \$20,000 per federal fiscal year AND \$80,000 per 6-year period.	NRCS will establish minimum ranking thresholds for each application period under this initiative. Applications below the threshold will defer to the next application period.

Lifespan: 10 years	472: ACCESS CONTROL (ac)
Programs: ORG	Barrier to Protect Critical Areas, Organic
Land uses: Lvstk	A permanent barrier to exclude livestock from critical areas, such as streams or wetlands. Cost is based on treated wooden posts, 8' on center, one top wood rail, 48" woven wire, and all associated hardware and bracing.
Unit of Measure: linear feet	
Payment Rate: \$5.20 Regular \$6.24 HU	
Lifespan: 10 years	575: ANIMAL TRAILS AND WALKWAYS (ft)
Programs: ORG	Connecting Paths
Land uses: Lvstk	A gravel stabilized lane installed to facilitate animal movement in a rotational grazing system where constant animal travel has led to compaction and erosion concerns. Cost is based on a 6-8' wide walkway, and includes minor grading, installation of geotextile and gravel, with smoothing and compaction of the gravel by machine roller.
Unit of Measure: linear feet	
Payment Rate: \$14.96 Regular \$17.96 HU	
Lifespan: 10 years	314: BRUSH MANAGEMENT (ac)
Programs: ORG	Mechanical Treatment
Land uses: Lvstk	A brush hog/mower is used to manage the competing, undesirable brush (under 2" in diameter) over 15 acres to promote forage productivity and improve desirable plant community health, vigor, and biodiversity, thereby improving nutritive value and palatability. Typically a 60 HP tractor with a brush hog/mower attachment can complete the mowing at a rate of 2 acres per hour.
Unit of Measure: acre	
Payment Rate: \$33.64 Regular \$40.37 HU	
Lifespan: 10 years	372: COMBUSTION SYSTEM IMPROVEMENT (ea)
Programs: ENRGY	Renewable Power for Livestock Water
Land uses: Lvstk	A stand-alone solar power source installed for a livestock operation where water is to be pumped to permanent watering facilities, installation of buried electric lines is cost-prohibitive, and other sources of power such as diesel pumps would cause air quality issues (PM 2.5 and ozone). The system will be sized to power only pumping plants of 5 HP or less.
Unit of Measure: each	
Payment Rate: \$2,705.25 Regular \$3,246.30 HU	
<i>Policy for all engines: Eligible on land that has been irrigated 2 of the past 5 years only, as per EQIP policy. Engine being replaced must be functioning and serving an existing irrigation system; evidence that engine was completely disabled must be provided before payment is made. Replacement engine must be properly sized for the existing irrigation system. Any HP exceeding system requirements are at the expense of the applicant.</i>	
Programs: ENRGY	Interim Tier 4 Engine, 75 to 180 HP, for Irrigation
Land uses: Cropland	A 5-year old or older functioning 75 - 180 HP gas or diesel engine being used to pump irrigation water is removed from use and permanently disabled from any further ability to function. It is replaced by the same or smaller HP new diesel engine that meets EPA Interim Tier 4 air quality standards, to irrigate the same field(s) and system while reducing PM 2.5 emissions.
Unit of Measure: HP	
Payment Rate: \$101.25 Regular \$121.50 HU	
Programs: ENRGY	Tier 4 Engine, 25 to 74 HP, for Irrigation
Land uses: Cropland	A 5-year old or older functioning 25 - 74 HP gas or diesel engine being used to pump irrigation water is removed from use and permanently disabled from any further ability to function. It is replaced by the same or smaller HP new diesel engine that meets EPA Tier 4 air quality standards, to irrigate the same field(s) and system while reducing PM 2.5 emissions.
Unit of Measure: HP	
Payment Rate: \$127.50 Regular \$153.00 HU	
Lifespan: 15 years	317: COMPOSTING FACILITY (ea)
<i>Policy: Producers interested in receiving payment to implement a composting facility must have a Comprehensive Nutrient Management plan (CNMP) in place prior to application. No TSP funds may be added to EQIP contracts to develop CNMPs; producers interested in receiving financial assistance to develop a CNMP may sign up for a Conservation Activity Plan contract (std 102). Payment is limited to the extent required to compost manure generated by the applicant's livestock only.</i>	
Programs: ORG	Windrows
Land uses: Lvstk	Where base soils are suitable, shape and grade a compost pad for windrow-type composting of animal wastes. Cost is based on site preparation with a dozer/road grader, excess spoil removal, final grading, and seeding with mulch of all disturbed areas adjacent to the compost pad. Does not include obstruction removal, clearing, roof, access road, solids separation, or vegetated treatment area.
Unit of Measure: square feet	
Payment Rate: \$0.08 Regular \$0.09 HU	
Programs: ORG	Compost Bins
Land uses: Lvstk	Where wastes will be moved from one bin to another to aerate the piles, install a 3-sided concrete structure for composting of animal wastes. Cost is based on use of precast concrete blocks, and includes site work, gravel subbase material, poured concrete floor with welded wire mesh reinforcement, final grading, installation of blocks, gravel apron, and seeding with mulch of all disturbed areas.
Unit of Measure: square feet	
Payment Rate: \$11.78 Regular \$14.14 HU	
Lifespan: 5 years	327: CONSERVATION COVER (ac)
Programs: ORG	Permanent Cover Between Rows
Land uses: Cropland	A permanent cool season cover planted between rows of a perennial crop to enhance soil quality, reduce erosion, and reduce herbicide use. Cost is based on a 25 acre conversion, with low-growing grass and legume species in the seed mix. Includes between-row disking to prepare the seedbed, seed purchase, planting, one post-seeding herbicide application, and one mowing during initial year for weed control.
Unit of Measure: acre	
Payment Rate: \$118.39 Regular \$142.07 HU	

Programs: ORG		Continuous Cover
Land uses: Cropland		Plant a low maintenance grass/legume mix for a minimum 3-year cover. Practice is used to transition from conventional to organic production, or when recommended by Rutgers Cooperative Extension to rebuild damaged soils. Cost is based on orchardgrass seeded at 25 pounds per acre (25 #/ac), creeping red fescue (10 #/ac), redbtop (1 #/ac), alsike clover (3 #/ac), and white clover (3 #/ac). Includes two passes with a disk and planting.
Unit of Measure: acre		
Payment Rate:	\$171.15 Regular \$205.38 HU	

Programs: ORG **Pollinator Habitat Establishment**

Policy: A minimum of 1/4 acre of pollinator habitat area is required for each 25 acres of cropland. Pollinator habitat area established must abut active cropland.

Land uses: Cropland		Odd areas on the farm are converted to native herbaceous vegetation and shrubs to attract and support native pollinators. Requires specialized seeding followed by hand planting of shrubs. Typically at least 3-4 lb/acre of a variety of wildflowers are in the seed mix and 20 shrubs are planted in random groups. Includes pre-seeding herbicide application, field disking to prepare the seedbed, herbaceous seeding with specialized equipment, hand planting of shrubs, one post-seeding herbicide application, and one mowing during initial year for weed control.
Unit of Measure: acre		
Payment Rate:	\$470.70 Regular \$564.84 HU	

Lifespan: 1 year **328: CONSERVATION CROP ROTATION (ac)**

Policy: The practice must meet all criteria listed in the practice standard for the applicable resource concern selected in ranking. For the energy initiative, the energy criteria apply; for the organic and seasonal high tunnel initiatives, the soil quality criteria apply. There must be an actual change in the typical rotation documented on the farm for the practice to be eligible.

Programs: ENRGY, ORG		Rotational Cropping System
Land uses: Cropland		The producer implements a planned rotation sequence to improve soil quality, reduce soil additives, and build organic matter in the soil. Nitrogen-fixing crops are typically planted in the rotation to reduce the need of commercial fertilizers. The system is planned to complement the cropping system so there should be no loss in crop income. A planned rotational cropping system includes the planned crop sequence, total length of rotation, crop types grown, and the length of time each crop will be grown.
Unit of Measure: acre		
Payment Rate:	\$16.92 Regular \$20.30 HU	
Programs: SHT		
Unit of Measure: each		
Payment Rate:	\$1.05 Regular \$1.26 HU	

Lifespan: 5 years **332: CONTOUR BUFFER STRIPS (ac)**

Programs: ORG		Buffer Strips on the Contour
Land uses: Cropland		15' strips of permanent, herbaceous cover are established on the contour and alternated with wider cropped strips that are farmed on the contour to reduce sheet and rill erosion. Strips are planted with cool season grasses at a seed rate of 14 pounds per acre. The seedbed is prepared with a pre-plant herbicide and disking. Buffer strips are not part of a normal crop rotation, remain in the location where they were established, and are designed to have at least 95% ground cover during periods when erosion is expected to occur. Land is taken out of production to establish the permanent strip.
Unit of Measure: acre		
Payment Rate:	\$104.84 Regular \$125.80 HU	

Lifespan: 5 years **330: CONTOUR FARMING (ac)**

Programs: ORG		Row Crops on the Contour
Land uses: Cropland		Ridges and furrows are formed on the contour over 20 acres by tillage, planting, and other farming operations to change the direction of runoff from directly down slope to around the hillside. Increased time is necessary during each farming operation to form the ridges and furrows. Approximately 20% more time is required for tillage, 15% for planting, and 10% during harvesting.
Unit of Measure: acre		
Payment Rate:	\$10.15 Regular \$12.18 HU	
Programs: SHT		
Unit of Measure: each		
Payment Rate:	\$1.05 Regular \$1.26 HU	

Lifespan: 10 years **331: CONTOUR ORCHARD AND OTHER PERENNIAL CROPS (ac)**

Programs: ORG		Perennial Crops on the Contour
Land uses: Cropland		The orchards, vineyards, or other perennial crops are planted so that all cultural operations are done on or near the contour to reduce soil erosion caused by runoff. Increased time is necessary during each farming operation to plant on the contour. More labor and equipment time is required during establishment to plant on the contour. Once established, contouring can improve access to fields, facilitate maintenance, and improve energy efficiency.
Unit of Measure: acre		
Payment Rate:	\$10.15 Regular \$12.18 HU	

Lifespan: 1 year

340: COVER CROP (ac)

Policy: Cover crop is a structural practice. It is not required to be implemented on the same land each year if the applicant wishes to schedule cover crop for multiple years on a contract. However, (1) cover crop must be scheduled in the first year of the contract; (2) if cover crop is scheduled for more than one year, it must be scheduled in consecutive years on the contract; and (3) once applied successfully to a field, that field is not eligible for additionally scheduled cover crop on any future contract even if it was only applied once to that field. All land scheduled for cover crop in any year must be implemented or the contract will be in violation of the terms and conditions.

Programs: ENRGY	Grass Species Cover Crop
Land uses: Cropland	Establish a seasonal living cover of grass or small grain species on cropland immediately after the primary production crop harvest and until the next crop establishment sequence begins using minimum or no till methods. The cover crop will prevent soil erosion, increase soil health, break pest cycles, and/or sequester excess nitrogen for the subsequent primary crop. After sufficient growth and dry matter production, the cover crop will be terminated by chemical methods in preparation for establishment of the next primary crop.
Unit of Measure: acre	
Payment Rate: \$73.25 Regular \$87.90 HU	

Programs: ENRGY	Mixed Species Cover Crop
Land uses: Cropland	Establish a seasonal living cover of mixed small grain/legume/radish species on cropland after the primary production crop harvest until the next crop establishment sequence period begins using minimum or no till methods. The cover crop will prevent soil erosion, increase soil health, break pest cycles, sequester excess nitrogen, and/or provide a nitrogen source for subsequent primary crop. After sufficient growth and dry
Unit of Measure: acre	
Payment Rate: \$89.10 Regular \$106.92 HU	

Programs: ORG	Organic Grass Species Cover Crop
Land uses: Cropland	Establish seasonal living cover of grass or small grain species on organic cropland after the primary production crop harvest until the next crop establishment sequence begins using conventional tillage methods. The cover crop will prevent soil erosion, increase soil health, break pest cycles, and/or sequester excess nitrogen for a subsequent primary crop. After sufficient growth and dry matter production, the cover crop will be terminated through winter kill and/or by tillage conducted for next primary crop.
Unit of Measure: acre	
Payment Rate: \$74.93 Regular \$89.92 HU	

Programs: ORG	Organic Mixed Species Cover Crop
Land uses: Cropland	Establish a seasonal living cover of mixed small grain/legume/radish species on organic cropland between primary crop harvest and next primary crop establishment sequence using conventional tillage to prevent soil erosion, increase soil health, break pest cycles, sequester excess nitrogen, and/or provide a nitrogen source for subsequent primary crops. After sufficient growth and dry matter production, the cover crop will be terminated through winter kill and/or by tillage conducted for next primary crop.
Unit of Measure: acre	
Payment Rate: \$107.31 Regular \$128.77 HU	

Programs: ORG, SHT	Seasonal High Tunnel - Legume
Land uses: Cropland	A cover crop of organic hairy vetch, oats and forage radish is established in the early fall after vegetable harvest. Residual nitrogen is captured by the cover crop, phosphorus buildup is reduced. Cover crop is terminated in the spring. Organic matter is improved, soil compaction is alleviated and energy is saved through the use of legume nitrogen versus Haber-Bosch nitrogen. All work for seeding and termination is done using hand labor, e.g. rototiller, hand broadcast seeder, etc.
Unit of Measure: each	
Payment Rate: \$48.79 Regular \$58.55 HU	

Lifespan: 10 years

342: CRITICAL AREA PLANTING (ac)

Policy: This practice is not used as an outlet area for other conservation practices.

Programs: SHT	Planting, No Grading
Land uses: All land uses	A one acre degraded area is rehabilitated with permanent vegetation that cannot be stabilized using normal establishment techniques in order to stabilize the soil. The seedbed is prepared by disking. Based on site evaluations, soil amendments (lime and fertilizer) are added. The area is broadcast seeded and mulched with a seed mix according to the standard. A higher seeding rate is used due to the critical nature of these sites compared to typical permanent seeding establishment.
Unit of Measure: acre	
Payment Rate: \$461.30 Regular \$553.56 HU	

Programs: ORG	Organic Planting, No Grading
Land uses: All land uses	A one acre degraded area is rehabilitated with permanent, organic vegetation that cannot be stabilized using normal establishment techniques in order to stabilize the soil. The seedbed is prepared by disking. Based on site evaluations, soil amendments (lime and fertilizer) are added. The area is broadcast seeded and mulched with a seed mix according to the standard. A higher seeding rate is used due to the critical nature of these sites compared to typical permanent seeding establishment.
Unit of Measure: acre	
Payment Rate: \$634.89 Regular \$761.87 HU	

Programs: ORG, SHT	Planting with Fine Grading
Land uses: All land uses	A 12,000 square foot area is rehabilitated with permanent vegetation that cannot be stabilized using normal establishment techniques in order to stabilize the soil. The gullies and rills are leveled and filled with deposition to allow equipment operation and ensure proper site and seedbed preparation. Based on soil conditions, there is no need for lime or fertilizer. The area is mulched and conventionally seeded.
Unit of Measure: square feet	
Payment Rate: \$0.09 Regular \$0.11 HU	

Lifespan: 10 years

362: DIVERSION (ft)

Programs: ORG, SHT	Diversion, Seeded and Mulched
Land uses: Cropland, Lvstk	A diversion channel with berm installed across a slope to divert water from a critical area. Cost is based on the equipment, labor and material to construct, seed and mulch a diversion 20'- 25' wide. Construction requires no cuts or fills greater than 3'. Does not include a provision for any crossing (std 561).
Unit of Measure: linear feet	
Payment Rate: \$4.40 Regular \$5.28 HU	

Lifespan: 10 years

374: FARMSTEAD ENERGY MANAGEMENT (no)

Policy: A Farmstead Energy Audit that meets NRCS standards must be provided by the applicant to NRCS prior to contract obligation. Items contracted must be recommended in the completed energy audit to be eligible for inclusion in the contract. If the audit does not provide adequate documentation for NRCS to determine energy savings, it is the responsibility of the applicant to provide such documentation.

Programs: ENRGY		Exhaust Fan
Land uses: HQ, Cropland		Replacement of conventional 48" exhaust fan with 48" exhaust fan with 19200 cfm, and 20.7 cfm Watt rating to provide suitable air quality and reduce overall power requirements (kW) compared to the existing ventilation system as evidenced in an energy audit. Models installed should be previously tested by BESS Lab or the Air Movement and Control Association. Practice certification will be through receipts and pictures from the applicant.
Unit of Measure: each		
Payment Rate: \$600.00 Regular \$720.00 HU		
Programs: ENRGY		Circulation Fan
Land uses: HQ, Cropland		Replacement of a conventional 48" circulation fan with 4a 8" panel circulation fan with a thrust of 30.62 (lbf) and a thrust efficiency of 25.6 (lbf/kW) to provide suitable air quality and reduce overall power requirements (kW) compared to the existing air circulation system as evidenced in an energy audit. Practice certification will be through receipts and before and after pictures from the applicant.
Unit of Measure: each		
Payment Rate: \$337.50 Regular \$405.00 HU		
Programs: ENRGY		Lighting, LED
Land uses: HQ, Cropland		Install Dimmable LEDs to replace incandescent lamps on a one-for-one basis. Light fixtures do not have to be replaced. A typical ag structure has 48 fixtures. LED requirements: minimum 6 Watt, 3700 Kelvin, dimmable, grow-out bulb; industrial grade; suitably protected from dirt accumulation. In high humidity environments or areas subject to wash down, gasketed or weatherproof housings are required to prevent corrosion and premature failure. Use of LED lamps to replace less efficient lighting can be used for any type of operation as evidenced by the energy audit.
Unit of Measure: each		
Payment Rate: \$34.87 Regular \$41.85 HU		
Programs: ENRGY		Lighting, CFL
Land uses: HQ, Cropland		Install Dimmable CFLs to replace incandescent lamps on a one-for-one basis. Light fixtures do not have to be replaced. A typical ag structure has 48 fixtures. CFL requirements: minimum 8 Watt, 4100 Kelvin, dimmable, grow-out bulb; industrial grade; suitably protected from dirt accumulation. In high humidity environments or areas subject to wash down, gasketed or weatherproof housings are required to prevent corrosion and premature failure. Use of CFLs to replace less efficient lighting can be used for any type of operation as evidenced by the energy audit.
Unit of Measure: each		
Payment Rate: \$12.37 Regular \$14.85 HU		
Programs: ENRGY		Lighting, Fluorescent Fixture with Bulbs
Land uses: HQ, Cropland		The replacement of fixtures with fluorescent tubes in existing agricultural buildings. The following types of fixtures are examples: T5 High-Output (HO) fixtures; T12 lighting fixtures with either High Performance (HP) T8 or T5 High-Output (HO) fluorescent fixtures. Practice certification will be through receipts and before and after pictures from the applicant. Appropriate disposal of existing bulbs, ballasts and other materials is required.
Unit of Measure: each		
Payment Rate: \$130.31 Regular \$156.38 HU		
Programs: ENRGY		Building Envelope, Greenhouse Energy/Shade Screens
Land uses: HQ, Cropland		The greenhouse is fitted with a mechanically controlled energy screen (thermal blanket) installed truss-to-truss or gutter-to-gutter, with side screens as necessary, reducing heat loss in the greenhouse. The system consists of a drive motor, support cables, controls, and shade material, which may be woven, knitted, or non-woven strips of aluminum fiber, polyethylene, nylon or other synthetic material.
Unit of Measure: square feet		
Payment Rate: \$1.71 Regular \$2.05 HU		
Programs: ENRGY		VSD Controller
Land uses: HQ, Cropland		Reduce energy use through use of a VSD to control electric motors. The motor speed can be adjusted to reduce power requirements and better match varied flow or pressure requirements. Motor sizes range from 5 to 30 HP. The typical scenario consists of a variable speed drive and appurtances attached to an electric motor used to drive a ventilation fan, irrigation pumps, vacuum pump, or simillar equipment involved with agricultural production.
Unit of Measure: HP		
Payment Rate: \$161.25 Regular \$193.50 HU		
Programs: ENRGY		Grain Dryer
Land uses: HQ, Cropland		A replacement continuous dryer rated for 860 bushel/per hour capacity includes a microcomputer-based control system that adjusts the amount of time the crop remains in the dryer in order to achieve a consistent moisture content in the dried product; these automatic controls operate with better precision than is possible with manual control. The primary inputs to the controller are incoming moisture content, plenum temperature, and outgoing moisture content of the grain. The controller employs an anticipatory logic which adjusts the speed of the unloading augur, thereby changing the residence time of the grain in the dryer. The controller also adjusts plenum temperature based on the incoming grain moisture content. Alternate types of replacement dryers which reduce energy use are acceptable as evidenced by the energy audit.
Unit of Measure: auger length, feet		
Payment Rate: \$2,265.23 Regular \$2,718.27 HU		

Lifespan: 20 years

382: FENCE (ft)

Policy: Livestock operations must have existing fence that effectively contains livestock. Fence that currently contains livestock, regardless of condition, is not eligible for replacement. Fence used to separate ownership (property boundaries) or exclude livestock from transportation networks, including farm roads, or residential, commercial, or industrial areas is ineligible. Only existing livestock (average AUs over the previous 36 months) can be treated as an existing resource concern for all programs.

Woven wire and high tensile scenarios are primarily intended to provide interior fencing to improve pasture rotation for small livestock (woven wire) and large livestock (high tensile). The amount of fence included in a contract shall be the minimum needed to efficiently implement the number of pastures calculated on the Pasture Forage Budget Worksheet or Prescribed Grazing Plan. Fencing to create additional pastures, if desired by the applicant, is not eligible for payment.

Under EQIP, boundary fence on land being converted from cropland to pasture is not eligible for payment, regardless of whether the additional acres are recommended on the Pasture Forage Budget Worksheet. However, boundary fence that replaces non-functioning fence on land that has a grazing history (within the past 3 years) is eligible, as long as the re-fenced area is identified as required to meet the rotation needs on the Pasture Forage Budget Worksheet. All existing fence condition will be fully documented in the contract file.

Programs: ORG	Woven Wire
Land uses: Lvstk	Typically, 1800 ft woven wire fencing is installed with two 12' gates for critical exclusion around a hazardous and/or environmentally sensitive area using galvanized 12.5 gauge woven wire 48" high with 10' spacing.
Unit of Measure: linear feet	
Payment Rate: \$2.57 Regular	The four corners require additional bracing/wiring and support. The posts can be installed using a 60 HP
\$3.08 HU	Tractor with a post hole attachment.
Programs: ORG	High Tensile Wire - 3 Strand or less
Land uses: Lvstk	A permanent interior fence with two 12' gates is installed within a pasture as part of a prescribed grazing plan. Typical installation is 2000 ft of a 2 strand electric fence with 40 ft spacing. The corners require additional bracing/wiring and support. Energizer and additional equipment is installed to operate the electric wire. Typically the posts can be installed using a 60 HP Tractor with a post hole attachment.
Unit of Measure: linear feet	
Payment Rate: \$1.31 Regular	
\$1.57 HU	

Programs: ORG	High Tensile Wire - 4 Strand or greater
Land uses: Lvstk	A more durable 5 strand high tensile wire or barbed wire fence with two 12' gates is installed to ensure restricted access to a surface water body. A typical installation is 2000 ft of 5 strand electric fence with 20 ft spacing. The corners require additional bracing/wiring and support. The posts can be installed using a 60 HP Tractor with a post hole attachment.
Unit of Measure: linear feet	
Payment Rate: \$2.84 Regular	
\$3.41 HU	
Programs: ORG	Chain Link/Safety Fence/Heavy Duty Fence
<i>Policy: Chain link or safety fence is allowable for safety and security reasons around farm structures. It is not used for pasture fencing.</i>	
Land uses: Cropland, Lvstk	Due to the critical sensitivity of the area a chain link or other heavy duty fence is necessary to ensure restricted access to a hazardous area. Typical installation is 250 ft of 5 ft high chain link fence with two 12' gates installed around the perimeter of the hazardous area such as a waste storage structure and/or high concentrated confinement area. Safety signs are typically needed to provide warning of the hazardous/environmentally situation present.
Unit of Measure: linear feet	
Payment Rate: \$18.36 Regular	
\$22.04 HU	

Lifespan: 10 years	386: FIELD BORDER (ac)
Programs: ORG	Field Border, organic production
Land uses: Cropland	A 30' wide strip of cool season grasses planted on an organic farm at the edge of a field to provide for access, turning, or protection from spray drift while creating habitat diversity. Includes labor, equipment and materials to prepare the seedbed, apply necessary organic nutrients, plant a certified organic seed mix of native and/or introduced grasses and legumes, and two post-plant mowings to control weeds.
Unit of Measure: acre	
Payment Rate: \$175.28 Regular	
\$210.33 HU	

Lifespan: 10 years	393: FILTER STRIP (ac)
Programs: ORG	Filter Strip, organic production
Land uses: Cropland	A strip of cool season grasses planted on an organic farm along a water course such as a field ditch or small stream to protect water quality. Cost is based on a 30' wide strip. Includes labor, equipment and materials to prepare the seedbed, apply necessary organic nutrients, plant a seed mix of native and/or introduced grasses and legumes, and two post-plant mowings to control weeds.
Unit of Measure: acre	
Payment Rate: \$175.28 Regular	
\$210.33 HU	

Lifespan: 5 years	512: FORAGE AND BIOMASS PLANTING (ac)
Programs: ORG	Organic Grass Mix
Land uses: Lvstk	A 5 acre organic pasture/hayland is seeded with an organic grass and legume mix to provide adequate quantity and quality of feed and forage. The seedbed is prepared using organic fertilizer, lime, primary tillage, and light tillage..
Unit of Measure: acre	
Payment Rate: \$208.96 Regular	
\$250.72 HU	

Lifespan: 15 years	410: GRADE STABILIZATION STRUCTURE (ea)
Programs: ORG	Straight Drop Spillway
Land uses: All land uses	A weir control structure is required at the end of another practice to ensure a stable outlet. Typically installed in an open area where no additional clearing is required but where limited space precludes the use of a pipe drop structure, and based on 10-year storm flows of 100 cfs or less, a weir length of 12 feet and a fall of 4 feet. Includes excavation, compaction of a small berm around the inlet, outlet apron, seepage control measures, final grading, and seeding with mulch of all disturbed areas.
Unit of Measure: linear feet of weir	
Payment Rate: \$1,028.81 Regular	
\$1,234.58 HU	

Programs: ORG		Pipe drop spillway with riser
Land uses: All land uses		A pipe outlet having a catch basin or riser inlet with a trash rack and discharge CPT pipe, required at the end of another practice to ensure a stabile outlet. Cost is based on installation in an open area where limited clearing is required, and 10-year storm flows of 50 cfs or less. Includes excavation, compaction of a small berm around the inlet, outlet apron, anti-seep collars, final grading, and seeding with mulch of all disturbed areas.
Unit of Measure: each		
Payment Rate: \$7,500.00 Regular \$9,000.00 HU		
Programs: ORG		Hooded Inlet
Land uses: All land uses		A drop structure is required at the end of another practice to ensure a stabile outlet. Typically installed in an open area where limited clearing is required, includes a 100' long structure consisting of an 80 foot pipe conduit with inlet and outlet aprons of 10' each, designed to handle 10-year storm flows of 50 cfs or less, with the inlet end of the pipe cut at an angle and with an anti-vortex plate. Includes excavation, earthfill, inlet and outlet rock aprons, anti-seep collars, final grading, and seeding with mulch of all disturbed areas.
Unit of Measure: linear feet of pipe		
Payment Rate: \$65.84 Regular \$79.01 HU		
Programs: ORG		Rock Chute
Land uses: All land uses		Rock riprap installed over geotextile on a moderate slope as an outlet for another practice. Cost is based on a chute width 20' or less, designed to handle flows of 50 cfs or less with 8" - 12" rock. Includes a 50 foot chute length and 10' long inlet and outlet aprons, excavation, earthfill, final grading, and seeding with mulch of all disturbed areas. Does not include clearing.
Unit of Measure: square feet		
Payment Rate: \$6.14 Regular \$7.37 HU		
Programs: ORG		Grouted Rock Chute
Land uses: All land uses		Grouted rock riprap installed over geotextile, or a reinforced concrete chute installed on a steep slope as an outlet for another practice. Cost is based on a chute designed to handle flows of 100 cfs or less with a bottom width of 15' or less and with a length of 50 feet, using 8" - 12" rock. Includes cut-off wall at inlet, 10' long inlet and outlet aprons, excavation, earthfill, final grading, and seeding with mulch of all disturbed areas. Does not include clearing.
Unit of Measure: square feet		
Payment Rate: \$7.05 Regular \$8.46 HU		
Lifespan: 10 years		412: GRASSED WATERWAY (ac)
Programs: ORG, SHT		Grassed Waterway, Seeded & Mulched
Land uses: Cropland		Install a grassed waterway, typically less than 30' wide, to move water safely down a moderate slope. Cost is based on construction that requires no cuts or fills greater than 2'. Includes labor and equipment to shape and grade a parabolic channel, provide a finish grade, and seed with mulch. Does not include companion tile (std 606) or rock lining (std 468), if needed.
Unit of Measure: square feet		
Payment Rate: \$0.19 Regular \$0.23 HU		
Programs: ORG, SHT		With Biodegradable Erosion Control
Land uses: Cropland		Install a grassed waterway, typically less than 30' wide, to move water safely down a moderately erosive slope that requires no cuts or fills greater than 2'. Includes labor and equipment to shape and grade a parabolic channel, provide a finish grade, seed, and secure with a biodegradable erosion control blanket for the length of the waterway. Does not include companion tile (std 606) if needed.
Unit of Measure: square feet		
Payment Rate: \$0.32 Regular \$0.38 HU		
Programs: ORG, SHT		Stone Center Waterway
Land uses: Cropland		Install a grassed waterway where prolonged flows or seepage is expected. Cost is based on construction with no cuts or fills greater than 2', and is typically less than 30' wide. Includes rough grading of a parabolic channel, 2" stone installed across the center 1/2 of the waterway for the length of the waterway, finish grading, and seeding with mulch of all disturbed areas. Does not include companion tile (std 606) if needed.
Unit of Measure: square feet		
Payment Rate: \$0.44 Regular \$0.52 HU		
Lifespan: 10 years		561: HEAVY USE AREA PROTECTION (ac)
Programs: ORG		Gravel with Geotextile
<i>Policy: Gravel HUAPs are designed for protection around permanent watering facilities, when soil conditions or animal density require.</i>		
Land uses: Cropland, Lvstk		An 8" thick, compacted gravel pad (50' x 50') with underlain geotextile is installed in a low-use livestock area in order to protect water quality and reduce soil erosion. The foundation is prepared by excavating and compacting the area to provide a stable base prior to placement of the geotextile material and gravel.
Unit of Measure: square feet		
Payment Rate: \$1.28 Regular \$1.54 HU		
<i>Policy for remaining scenarios: The HUAP must be included in an approved Comprehensive Nutrient Management Plan with provisions for managing the deposited manure prior to inclusion in an EQIP contract. Payment is limited to areas intensively used by animals during periods when pastures are not available, based on the number of animals that the available pasture normally supports during the growing season. Larger areas can be treated at applicant's expense. Areas designed exclusively for feeding are not eligible; for areas where feeding and loafing are combined, the area devoted to feeding must be subtracted from the sq footage contracted.</i>		
Programs: ORG		Concrete - Flat
Land uses: Lvstk		A 5" thick, flat concrete pad (typically 40' x 40') is installed in areas associated with manure handling, heavy animal use, and/or equipment use in order to protect water quality. The foundation is prepared by excavating 1 foot of material and installing a 4" gravel base in order to support the design load.
Unit of Measure: square feet		
Payment Rate: \$3.24 Regular \$3.89 HU		
Programs: ORG		Concrete with Curbs
Land uses: Lvstk		A 5 inch thick, reinforced steel concrete pad (typically 50' x 100') with curbs is installed at the Headquarters under high-use livestock areas in order to protect water quality. A concrete pad is necessary due to the load based on type and frequency of traffic (vehicular, animal, or human). Concrete curbing is installed to facilitate the management of contaminated runoff to prevent ground water or surface water contamination.
Unit of Measure: square feet		
Payment Rate: \$6.47 Regular \$7.76 HU		

Programs: ORG	Concrete with Curbs - Steep Site
Land uses: Lvstk	A 5 inch thick, reinforced concrete pad (typically 50' x 100') with curbs is installed on a steep slope within the Headquarters in order to protect water quality and reduce soil erosion. A concrete pad is necessary due to the load based on type and frequency of traffic (vehicular, animal, or human). Concrete curbing is installed to facilitate the management of contaminated runoff to prevent ground water or surface water contamination.
Unit of Measure: square feet	
Payment Rate: \$9.12 Regular \$10.94 HU	

Programs: ORG	Concrete with Curbs and Buckwall
Land uses: Lvstk	A 5 inch thick, reinforced concrete pad (typically 50' x 100') with curbs and buckwall is installed to facilitate collection, scraping, and handling (not storage) of livestock waste and to facilitate a runoff management system within a high use animal area in order to protect water quality and reduce soil erosion. In order to comply with federal, state, and local laws and regulations, a conservation nutrient management plan or similar may be required if this practice is being used for livestock waste handling.
Unit of Measure: square feet	
Payment Rate: \$10.25 Regular \$12.30 HU	

Lifespan: 15 years **422: HEDGEROW PLANTING (ft)**

Programs: ORG	Wildlife Corridor Hedge
Land uses: Cropland	A hedgerow installed in an open field to provide a corridor for wildlife movement, cover and food. Cost is based on a 150' long 50' wide hedge randomly planted with containerized (quart to 1 gallon) trees and shrubs at a 5' - 7' spacing. Includes preparation of the area for planting, plant material, installation by hand planting, tree shelters, and frequent weed control.
Unit of Measure: square feet	
Payment Rate: \$0.06 Regular \$0.07 HU	

Lifespan: 5 years **315: HERBACEOUS WEED CONTROL (ac)**
Policy: Not applicable on cropland (see IPM std 595). Not applicable on any land contracted for vegetation establishment (std 327, 386, 393, 390, 391, 512, 647), or forest stand improvement (612, 666) in the establishment year, as control of invasives is included in those scenarios. Only one payment is authorized per treatment area every five years, regardless if multiple treatments are needed.

Programs: ORG	Mechanical Control
Land uses: Lvstk	The undesirable species present can be managed by using a brush hog/mower to inhibit growth during periods of the year when weed species are most vulnerable and will promote restoration of the native or desired plant communities. Typically a 60 HP tractor with brush hog/mower attachment can complete the mowing at a rate of 2 acres per hour to remove weeds and small trees of non-sprouting species in pastures in areas of 30% infestation. Some herbaceous weed control activities can be effective when applied within a single year; others may require multiple years of treatment to achieve desired objectives.
Unit of Measure: acre	
Payment Rate: \$33.65 Regular \$40.37 HU	

Lifespan: 5 years **603: HERBACEOUS WIND BARRIERS (ac)**
Policy: Vegetation must be established in the fall using 340 Cover Crop establishment dates in order to ensure adequate height of crop for spring wind protection. Acres/fields contracted for 603 shall not be contracted for 340 Cover Crop at the same time.

Programs: ORG	Permanent Barrier Establishment
Land uses: Cropland	Rye, wheat or oats are planted in the fall and plowed under in the early spring leaving narrow strips or barriers parallel to row crops and perpendicular to prevailing wind erosion direction to provide early season wind protection. The stiff stemmed herbaceous vegetation established across the prevailing wind erosion direction reduces soil erosion from wind by trapping soil particles and sheltering an area down wind. The seedbed is prepared by disking and conventionally seeded with cereal rye on 20 acres. The field is disked again in the spring to produce the narrow strips.
Unit of Measure: acre	
Payment Rate: \$87.04 Regular \$104.44 HU	

Lifespan: 1 year **595: INTEGRATED PEST MANAGEMENT (ac)**
Policy: An integrated pest management plan is required to be developed at the applicant's expense prior to implementing this practice. If the NJ contracting schedule provides for approval of a Conservation Activity Plan at least 3 months before the growing season, and that the plan is expected to be completed prior to April 15, then IPM may be contracted for the same acreage. If contracted, IPM must be scheduled in the first year of the contract. Additional consecutive years, if requested by the applicant, must be for the same fields or for the same crop if located on different fields. All land scheduled for IPM in any year must be implemented or the contract will be in violation of the terms and conditions. Contracts (CPA-1155) should specify a date for providing annual records to the field office for review and certification.

Programs: ORG	Organic IPM for Field Crops
Land uses: Cropland	Implementation of Prevention, Avoidance, and Monitoring (PAM) measures on cropland according to Land Grant University guidelines. Implementation of PAM measures will mitigate high risk suppression activities identified in a required IPM plan using approved risk assessment tools. Monitoring program is implemented using economic thresholds for known pests.
Unit of Measure: acre	
Payment Rate: \$19.27 Regular \$23.12 HU	

Programs: ORG	Organic IPM for Specialty Crops
Land uses: Cropland	Implementation of Prevention, Avoidance, and Monitoring (PAM) measures on cropland supporting specialty crops (vegetables, orchards, vineyards, nursery, sod, greenhouses) according to Land Grant University guidelines. Implementation of PAM measures will mitigate high risk suppression activities identified in a previously developed IPM plan using approved risk assessment tools. Monitoring program is implemented using economic thresholds for known pests. Implementation includes adoption of specialized precision technologies to reduce required suppression activities and material amounts to lower environmental risk.
Unit of Measure: acre	
Payment Rate: \$60.73 Regular \$72.87 HU	

Programs: ORG, SHT		Seasonal High Tunnel
Land uses: Cropland		The risks from pesticides and pest suppression activities have been assessed and are being appropriately mitigated as described in Integrated Pest Management (595) practice standard and Agronomy Technical Note No. 5. An IPM plan is based on Land Grant University guidance. Pests are monitored and sprayed based on threshold exceedence. Water, soil, and air quality is protected from leaching, runoff and drift of applied pesticides. Pollinator and beneficial species populations are preserved.
Unit of Measure: each		
Payment Rate: \$215.29 Regular \$258.35 HU		
Lifespan: 15 years		441: IRRIGATION SYSTEM, MICROIRRIGATION (ac)
<i>Policy: All contracts must include 3 years of Irrigation Water Management to ensure proper utilization of the system. The system design review will include all zones from a single water source, regardless of how much is being implemented under the current contract. All system reviews must be completed prior to installation of the mainline, if contracted, or any component of practice 441. For EQIP, the land must have a history of irrigation to be eligible.</i>		
Programs: ORG		Container Nursery
Land uses: Cropland		A permanent, micro-irrigation system is installed over 10 acres for container-grown nursery stock. Additional labor is required to install the emitters plant-by-plant. The system is installed with all fittings, control valves, pressure reducing/regulating valves, air/vacuum release, screen/disc filters, pressure gauges, submain, lateral lines, computerized soil moisture sensor system, and emitters to deliver water to the plants at or below the soil infiltration rate on a typical 10 acre site.
Unit of Measure: acre		
Payment Rate: \$6,110.10 Regular \$7,332.12 HU		
Programs: ORG		Perennial Crops
Land uses: Cropland		A permanent, micro-irrigation system is installed over 20 acres for perennial crops such as berries, vines, or field nursery stock. Durable, UV resistant tube/tape is used for a multi-year system. The system is installed with all fittings, control valves, pressure reducing/regulating valves, air/vacuum release, screen/disc filters, pressure gauges, submain, lateral lines, computerized soil moisture sensor system, and emitters to deliver water to the plants at or below the soil infiltration rate on a typical 10 acre site. Water supply is not filtered.
Unit of Measure: acre		
Payment Rate: \$1,741.80 Regular \$2,090.21 HU		
Programs: SHT		
Unit of Measure: each		
Payment Rate: \$58.06 Regular \$87.09 HU		
Programs: ORG		Perennial Crops, with Filtration
<i>Policy: An automatic back flushing sand media or automatic back flushing disc filter system is required to be installed under this scenario. If an</i>		
Land uses: Cropland		A permanent, micro-irrigation system is installed over 20 acres for perennial crops such as berries, vines, or field nursery stock. Durable, UV resistant tube/tape is used for a multi-year system. The system is installed with all fittings, control valves, pressure reducing/regulating valves, air/vacuum release, screen/disc filters, pressure gauges, submain, lateral lines, computerized soil moisture sensor system, and emitters to deliver water to the plants at or below the soil infiltration rate on a typical 10 acre site. An additional automatic-cleaning sand filtration system or its equivalent is needed to prevent the passage of solids in sizes or quantities from the water source that might obstruct the emitter openings to ensure proper efficiency and uniformity of irrigation system.
Unit of Measure: acre		
Payment Rate: \$2,300.59 Regular \$2,760.71 HU		
Programs: SHT		
Unit of Measure: each		
Payment Rate: \$76.69 Regular \$115.03 HU		
Programs: ORG		Annual Crops
Land uses: Cropland		A permanent, micro-irrigation system is installed over 10 acres of vegetable crops. The system is installed with all fittings, control valves, pressure reducing/regulating valves, air/vacuum release, screen/disc filters, pressure gauges, submain, lateral lines, computerized soil moisture sensor system, and emitters to deliver water to the plants at or below the soil infiltration rate on a typical 10 acre site. The lateral lines are not included.
Unit of Measure: acre		
Payment Rate: \$857.81 Regular \$1,029.37 HU		
Programs: SHT		
Unit of Measure: each		
Payment Rate: \$28.59 Regular \$42.89 HU		
Programs: ORG		Annual Crops, with Filtration
<i>Policy: An automatic back flushing sand media or automatic back flushing disc filter system is required to be installed under this scenario. If an</i>		
Land uses: Cropland		A permanent, micro-irrigation system is installed over 10 acres of vegetable crops, installed with all fittings, control valves, pressure reducing/regulating valves, air/vacuum release, screen/disc filters, pressure gauges, submain, lateral lines, computerized soil moisture sensor system, and emitters to deliver water to the plants at or below the soil infiltration rate on a typical 10 acre site. The lateral lines are not included. An additional automatic-cleaning sand filtration system or its equivalent is needed to prevent the passage of solids in sizes or quantities from the water source that might obstruct the emitter openings to ensure proper efficiency and uniformity of irrigation system.
Unit of Measure: acre		
Payment Rate: \$1,304.06 Regular \$1,564.87 HU		
Programs: SHT		
Unit of Measure: each		
Payment Rate: \$43.47 Regular \$65.20 HU		

Programs: ORG		System Efficiency Improvement
<p><i>Note that the scenario description calls for use of a computerized water management system. Use of a computerized system is not required but was used to develop the cost data for both this practice and for management of the irrigation system under practice 449. Applicants using a manual system may experience lower out-of-pocket costs for the efficiency upgrades and higher personnel costs for management of the system, but the total cost for any IWM combination of hardware and management is approximately the same, so only one scenario is needed for payment purposes.</i></p>		
Land uses:	Cropland	Treated irrigation water is applied efficiently and uniformly over 10 acres to reduce transport to surface and groundwater reducing the negative impacts on water quality and quantity. A backflow prevention system, flow meter, computerized sensor system and all additional necessary fittings are installed.
Unit of Measure:	acre	
Payment Rate:	\$386.25 Regular \$463.50 HU	
Programs: SHT		
Unit of Measure:	each	
Payment Rate:	\$12.88 Regular \$19.31 HU	

Lifespan: 15 years

442: IRRIGATION SYSTEM, SPRINKLER (ac)

Policy: All contracts must include 3 years of Irrigation Water Management to ensure proper utilization of the system. The system design review will include all zones from a single water source, regardless of how much is being implemented under the current contract. All system reviews must be completed prior to installation of the mainline, if contracted, or any component of practice 442. For EQIP, the land must have a history of irrigation to be eligible.

Programs: ORG		Center Pivot (less than 70 ac)
Land uses:	Cropland	A fixed center pivot irrigation system is installed to apply water through a low to medium pressure system. The irrigation system is installed with all necessary appurtenances (control panel, timer, etc). The installed system efficiently applies water by means of pipes or nozzles operated under pressure to effectively irrigate 70 acres or less.
Unit of Measure:	acre	
Payment Rate:	\$979.90 Regular \$1,175.88 HU	
Programs: ORG		Center Pivot (greater than 70 ac)
Land uses:	Cropland	A fixed center pivot irrigation system is installed to apply water through a low to medium pressure system. The irrigation system is installed with all necessary appurtenances (control panel, timer, etc). The installed system efficiently applies water by means of pipes or nozzles operated under pressure to effectively irrigate over 70 acres.
Unit of Measure:	acre	
Payment Rate:	\$435.79 Regular \$522.95 HU	
Programs: ORG		Towable Center Pivot
Land uses:	Cropland	A towable center pivot is installed to apply water through low to medium pressure. The irrigation system is installed with all necessary appurtenances (control panel, timer, etc). The installed system efficiently applies water by means of pipes or nozzles operated under pressure to effectively irrigate 70 acres or less.
Unit of Measure:	acre	
Payment Rate:	\$426.23 Regular \$511.48 HU	
Programs: ORG		Linear Move System
Land uses:	Cropland	A fixed linear move system is installed to apply water through low to medium pressure. The irrigation system is installed with all necessary appurtenances (control panel, timer, etc). The installed system efficiently applies water by means of pipes or nozzles operated under pressure to effectively irrigate 10 acres.
Unit of Measure:	acre	
Payment Rate:	\$957.31 Regular \$1,148.77 HU	
Programs: ORG		Retrofit Sprinkler Nozzles
Land uses:	Cropland	An existing inefficient system (800 feet in length) is outfitted with improved, low pressure, and more efficient nozzles to apply water throw low pressure to efficiently and uniformly maintain adequate soil water for plant growth.
Unit of Measure:	linear feet	
Payment Rate:	\$5.55 Regular \$6.66 HU	

Lifespan: 15 years

447: IRRIGATION SYSTEM, TAILWATER RECOVERY (ea)

Policy: For EQIP, the land must have a history of irrigation to be eligible.

Programs: ORG		Tailwater Basin
Land uses:	Cropland	An excavated or embankment pond with 3:1 sideslopes designed to receive irrigation tailwater and provide storage for its reuse. Includes excavation, and on-site spoil disposal and seed with mulch of disturbed areas 50' around the pond. Typically installed in a series of basins where filtration already exists. Does not include a liner, inlet or outlet structures, sediment basin, pump-back system, or fence.
Unit of Measure:	acre of watershed	
Payment Rate:	\$732.17 Regular \$878.61 HU	
Programs: ORG		Basin with Filtration System
Land uses:	Cropland	An excavated or embankment pond with 3:1 sideslopes designed to receive irrigation tailwater and provide storage for its reuse. Includes a sand media filter with automatic backflush, necessary when pumping irrigation water from the tailwater recovery basin for reuse to treat for removal of organic material, pathogens, algae, iron, and sediment. Includes excavation, on-site spoil disposal and seed with mulch of disturbed areas 50' around the pond, and a 3 tank filter system with automatic backflush, secondary screen filter, and valves. Does not include construction of a liner (std 521), inlet or outlet structures (std 410 or 468), sediment basin (std 350), pump-back system (std 533), or fence (std 382).
Unit of Measure:	acre of watershed	
Payment Rate:	\$826.67 Regular \$992.01 HU	

Programs: ORG	Basin with Filtration & Chlorination
Land uses: Cropland	An excavated or embankment pond with 3:1 sideslopes designed to receive irrigation tailwater and provide storage for its reuse. Includes a sand media filter with automatic backflush to remove organic material, algae, iron, and sediment; and a treatment system that eliminates pathogens and bacteria, to protect sensitive plant stock. Includes excavation and grading of the basin, on-site spoil disposal, seed with mulch of disturbed areas, a 3 tank filtration system with automatic backflush, secondary screen filter and valves, and a pathogen treatment system (such as 2 gas chlorine cylinders, vacuum operated solution feed gas chlorinator, vacuum tubing, and water operated ejector assembly). Does not include construction of a liner, inlet or outlet structures, sediment basin, pump-back system, or fence.
Unit of Measure: acre of watershed	
Payment Rate: \$928.70 Regular \$1,114.44 HU	

Lifespan: 1 year **449: IRRIGATION WATER MANAGEMENT (ac)**

Policy: All contracts that include any irrigation system or component must include 3 years of Irrigation Water Management to ensure proper utilization of the system. The system design review will include all zones from a single water source, regardless of how much is being implemented under the current contract. For EQIP, the land must have a history of irrigation to be eligible. Contracts (CPA-1155) should specify a date for providing annual records to the field office for review and certification. The IWM will be scheduled to commence the growing season following the system installation for all acres served by the system.

Note that the scenario description calls for use of a computerized water management system. Use of a computerized system is not required but was used to develop the cost data for both the system efficiency improvement scenario under practice 441 and for management of the irrigation system under this practice. Applicants using a manual system may experience lower out-of-pocket costs for the efficiency upgrades and higher personnel costs for management of the system, but the total cost for any IWM combination of hardware and management is approximately the same, so only one scenario is needed for payment purposes.

Programs: ORG, ENRGY	Field Crops
Land uses: Cropland	A computerized system to monitor irrigation water applied to field crops over a 12-week growing season. Data is transmitted from monitoring site. Soil moisture data is reviewed 3 times per week at each sensor site (two sensors per site) with one sensor site per 10 acres. Subscription to real-time weather records and rainfall record keeping is used. The producer must manually turn on and off the water supply in accordance with the soil moisture readings and keep records for each irrigation cycle (run time, inches applied, and total flow recorded). Record keeping involves a weekly analysis, monthly documentation, and a year-end report.
Unit of Measure: acre	
Payment Rate: \$59.13 Regular \$70.95 HU	
Programs: SHT	
Unit of Measure: each	
Payment Rate: \$2.96 Regular \$3.55 HU	

Programs: ORG, ENRGY	Specialty Crops
Land uses: Cropland	A computerized system to monitor irrigation water applied to specialty crops over a 26-week growing season. Data is transmitted from monitoring site. Soil moisture data is reviewed 3 times per week at each sensor site (two sensors per site) with one sensor site per 10 acres. Subscription to real-time weather records and rainfall record keeping is used. The producer must manually turn on and off the water supply in accordance with the soil moisture readings and keep records for each irrigation cycle (run time, inches applied, and total flow recorded). Record keeping involves a weekly analysis, monthly documentation and a year-end report.
Unit of Measure: acre	
Payment Rate: \$71.52 Regular \$85.82 HU	
Programs: SHT	
Unit of Measure: each	
Payment Rate: \$3.58 Regular \$4.29 HU	

Lifespan: 15 years **436: IRRIGATION RESERVOIR (ac)**

Programs: ENRGY, SHT	Storage Tank
Land uses: Cropland	A 1500 gallon metal storage tank is constructed to store water to regulate available irrigation water and reduce energy consumption. The storage reservoir is planned and located to serve as an integral part of the irrigation system. The tank may also conserve water by supplementing surface and groundwater sources with runoff collected from impervious surfaces.
Unit of Measure: each	
Payment Rate: \$1,391.40 Regular \$1,669.68 HU	

Lifespan: 1 year **484: MULCHING (ac)**

Programs: ORG	First Year Application of Leaves
Land uses: Cropland	The first year transport and land application of municipally collected leaves on a typical 15 acre field that is annually planted to a low residue crop (includes vegetables, silage corn, and soybeans). The leaves will be stockpiled no more than seven days and spread with a manure spreader no more than 3" thick (total 8-10 tons/ac). Leaves will be incorporated into the soil before the field is prepared for the next crop using a chisel plow and disk. Cost includes transport with a tandem trailer or dump bed truck, spreading, incorporation, and application of nitrogen fertilization of 50 pounds per acre in the first year of application.
Unit of Measure: acre	
Payment Rate: \$53.07 Regular \$63.68 HU	

Programs: ORG	2nd and 3rd Year Application of Leaves
Land uses: Cropland	The second and third year transport and land application of municipally collected leaves on a typical 15 acre field that is annually planted to a low residue crop (includes vegetables, silage corn, and soybeans). The leaves will be stockpiled no more than seven days and spread with a manure spreader no more than 3" thick (total 8-10 tons/ac). Leaves will be incorporated into the soil before the field is prepared for the next crop using a chisel plow and disk. Cost includes transport with a tandem trailer or dump bed truck, spreading, and incorporation.
Unit of Measure: acre	
Payment Rate: \$31.62 Regular \$37.94 HU	

Lifespan: 1 year

590: NUTRIENT MANAGEMENT (ac)

Policy: A nutrient management plan is required to be developed at the applicant's expense prior to implementing this practice. If the NJ contracting schedule provides for approval of a Conservation Activity Plan at least 3 months before the growing season, and that the plan is expected to be completed prior to April 15, then Nutrient Management may be contracted for the same acreage through a separate contract. If contracted, Nutrient Management must be scheduled in the first year of the contract. Additional consecutive years, if requested by the applicant, must be for the same fields or for the same crop if located on different fields. All land scheduled for Nutrient Management in any year must be implemented or the contract will be in violation of the terms and conditions. Contracts (CPA-1155) should specify a date for providing annual records to the field office for review and certification.

Programs: ORG Land uses: Cropland Unit of Measure: acre Payment Rate: \$13.05 Regular \$15.66 HU	Basic Cropland, no manure Farmer will implement a nutrient management plan on field crops by managing the amount, placement, form and timing of the application of plant nutrients and soil amendments. Farmer will maintain and provide records of nutrient application. Farmer only uses inorganic sources of nutrients. Consultant services will be utilized through out the cropping season to provide services such as Stalk N test, tissue testing, chlorophyll.
Programs: ORG Land uses: Cropland Unit of Measure: acre Payment Rate: \$19.91 Regular \$23.89 HU	Basic Field Crops with manure Farmer will implement a nutrient management plan on field crops and pasture by managing the amount, placement, form and timing of the application of plant nutrients and soil amendments. Farmer will maintain and provide records of nutrient application. Farmer utilizes both inorganic and organic sources of nutrients. Organic sources (manure, compost, sewage sludge) will be tested annually and application equipment will be calibrated periodically. Consultant services will be utilized through out the cropping season to provide services such as stalk N test, tissue testing, chlorophyll.
Programs: ORG Land uses: Cropland Unit of Measure: acre Payment Rate: \$20.08 Regular \$24.10 HU	Advanced Field Crop, no manure Farmer will implement an existing nutrient management plan for field crops by managing the amount, placement, form and timing of the application of plant nutrients and soil amendments using such technology as GPS navigation, light bar, precision soil sampling, split application of Nitrogen, or urease inhibitors. Producer will maintain and provide records of nutrient application. Producer only uses inorganic sources of nutrients. Consultant services will be utilized through out the cropping season to provide services such as assisting in record keeping, tissue testing, and chlorophyll readings. Additional practices included in advance nutrient management GPS navigation, light bar, split application of Nitrogen, urease inhibitors.
Programs: ORG Land uses: Cropland Unit of Measure: acre Payment Rate: \$29.96 Regular \$35.95 HU	Advanced Field Crops , with manure Farmer will implement an existing nutrient management plan on field crops and hayland by managing the amount, placement, form and timing of the application of plant nutrients and soil amendments. Farmer will maintain and provide records of nutrient application. Farmer utilizes both inorganic and organic sources of nutrients. Organic sources (manure, compost, sewage sludge) will be tested annually and application equipment will be calibrated periodically. Producer will implement guided soil sampling, GPS field monitoring and mapping, yield monitor and yield maps, tissue testing, and split application of nitrogen according to a PSNT. Additional practices include GPS navigation, light bar, guided soil sampling, split application of Nitrogen, urease inhibitors, stalk N test, and nitrogen/urease inhibitors.
Programs: ORG Land uses: Cropland Unit of Measure: acre Payment Rate: \$22.18 Regular \$26.62 HU	Advanced Variable Nitrogen Application Farmer will implement an existing nutrient management plan for field crops by managing the amount, placement, form and timing of the application of plant nutrients and soil amendments. Producer will maintain and provide records of nutrient application. Producer only uses inorganic sources of nutrients. Consultant services will be utilized through out the cropping season to provide services such as stalk N test, tissue testing and chlorophyll testing. Variable rate fertilizer application performed by Greenseeker Technology or equivalent which may include light bar/GPS navigation system.
Programs: ORG Land uses: Cropland Unit of Measure: acre Payment Rate: \$45.82 Regular \$54.99 HU	Specialty Crops Farmer will implement an existing nutrient management plan on specialty crops (e.g. including vegetables and orchards) by managing the amount, placement, form and timing of the application of plant nutrients and soil amendments. Producer will maintain and provide records of nutrient applications. Producer uses primarily inorganic sources of nutrients. Specialized crops require consultant services be utilized throughout the cropping season to provide services such as tissue testing, precision soil testing, and visual diagnostic protocols etc. to properly implement the nutrient management plan.
Programs: ORG, SHT Land uses: Cropland Unit of Measure: each Payment Rate: \$66.29 Regular \$79.55 HU	Seasonal High Tunnel Implementation of this practice will include the use soil testing to determine existing crop nutrient needs and the development a nutrient budget and a nutrient management plan. Application of manures and compost will be based on soil P levels. Materials will be applied using hand labor and accompanying equipment, e.g. hand held broadcaster, rakes, etc.

Lifespan: 20 years

516: PIPELINE (ft)

Policy: Practice is used only as a companion to another practice that addresses a resource concern, and the installation of the pipeline is required for the other practice to meet minimum design criteria. Payment is authorized for the minimum size required to support the companion practice. For grazing operations, the extent contracted should be based on the minimum needed to service the watering facilities identified in the basic or prescribed grazing plan, completed prior to contract signature.

Programs: ORG Land uses: Lvstk Unit of Measure: linear feet Payment Rate: \$2.11 Regular \$2.54 HU	Pipeline, 1.5" or less, depth to bedrock < 3' and/or low clay content in soils (normal site) Buried pipeline is installed using PE or equivalent pipe. Pipe size is 1.5 inches or less and site soils allow for normal excavation. (I.e., soils are not clayey and depth of soil is adequate for burying pipeline to a frost-free depth.)
Programs: ORG Land uses: Lvstk Unit of Measure: linear feet Payment Rate: \$3.32 Regular \$3.98 HU	Pipeline, 1.5" or less, depth to bedrock > 3' and/or high clay content in soils (difficult site) Buried pipeline is installed using PE or equivalent pipe. Pipe size is 1.5 inches or less. About 50% of the site has high clay soils and 50% of the site requires 6 inches of select bedding material. Excavation, skilled and unskilled labor are required to install the pipe in the trench.
Programs: ORG Land uses: Lvstk Unit of Measure: linear feet Payment Rate: \$4.23 Regular \$5.08 HU	Pipeline, over 1.5", depth to bedrock < 3' and/or low clay content in soils (normal site) Buried pipeline is installed using PVC or equivalent pipe. Pipe size is 4 inches and site soils allow for normal excavation. (I.e., soils are not clayey and depth of soil is adequate for burying pipeline to a frost-free depth.) Larger pipe size is called for due to water demands of large herd size. Excavation, skilled and unskilled labor are required to install the pipe in the trench. Typical installation will be 1000 feet of pipeline on a grazing operation installing a watering facility as part of prescribed grazing or access control.
Programs: ORG Land uses: Lvstk Unit of Measure: linear feet Payment Rate: \$7.44 Regular \$8.93 HU	Pipeline, greater than 1.5", depth to bedrock > 3' and/or high clay content in soils (difficult site) Buried pipeline is installed using PE or equivalent pipe. Pipe size is 4 inches. Larger pipe is called for due to water demands of larger herd size. About 50% of the site has clay soils and 50% of the site requires 6 inches of bedding material. Excavation, skilled and unskilled labor are required to install the pipe in the trench.
Programs: ORG Land uses: Lvstk Unit of Measure: linear feet Payment Rate: \$1.39 Regular \$1.67 HU	Pipeline, laid on the surface Pipeline is installed on ground surface along fence line or animal trail as part of a grazing watering system using PVC or equivalent pipe. Skidsteer and labor is needed to carry materials and install. Frequently used on sites with shallow bedrock or with cultural resource concerns.

Lifespan: 1 year

528: PRESCRIBED GRAZING (ac)

Policy: A prescribed grazing plan that includes target stocking densities and templates for record keeping should be provided to the applicant on or before the time of contract signature. Prescribed Grazing, if contracted, must be contracted for the first year following implementation of all fencing necessary to meet the planned rotation, for all acres covered by the plan. Additional consecutive years, if requested by the applicant, must be for the same fields or for the same livestock if pastured on different fields. All land scheduled for Prescribed Grazing in any year must be implemented or the contract will be in violation of the terms and conditions. Contracts (CPA-1155) should specify a date for providing annual records to the field office for review and certification.

Programs: ORG Land uses: Lvstk Unit of Measure: acre Payment Rate: \$12.37 Regular \$14.85 HU	Basic Prescribed Grazing A basic prescribe grazing system is implemented on 50-75 acre beef cow/calf or dairy livestock operation. Pasture fields have been subdivided using interior fencing and access to approved watering systems is provided. Livestock are moved every 4-6 days based on forage balance calculation and measured visual on site forage heights. The system achieves proper stocking rates and allows for rest periods to give time for the forage to regenerate after grazing resulting in desired species composition and plant vigor, and forage quality. Stocking rates are adjusted based on forage supply with supplemental feeding implemented during excessive dry or wet periods to prevent degradation of the pastures. Excessive forage is managed through mowing and/or clipping.
Programs: ORG Land uses: Lvstk Unit of Measure: acre Payment Rate: \$28.12 Regular \$33.74 HU	Intensive Grazing A management intensive prescribe grazing system is implemented on 50-75 acre beef cow/calf or dairy livestock operation. Pasture fields are subdivided using interior mobile fencing and movable watering systems. Grazing units are small (1-3 acres) with livestock, fencing and water troughs moved every 1-2 days or less based on regular visual monitoring of forage heights to allow for longer rest periods and better grazing distribution. Winter and summer stockpiling may be used by the producer to extend the grazing season. Mowing/clipping or hay harvesting of the pastures during periods of excessive growth and under utilization is used to improve plant condition and to control weeds. Stocking rates are adjusted with supplemental feeding planned and implemented during excessive dry or wet periods to prevent degradation of the pastures. A detailed record and monitoring system is implemented by the producer to record residency periods, pasture condition, and forage supply.

Lifespan: 15 years		533: PUMPING PLANT (ea)
<i>Policy: Practice is used only as a companion to another practice as described in the scenario that addresses a resource concern, and the pump is</i>		
Programs: ENRGY		Nose/Solar/Hydraulic Ram Pump
Land uses: Lvstk		A typical installation features a nose pump 100 feet away from the water source as a low energy method of getting water to pastured livestock, which allows livestock to obtain water without entering the surface water body. General labor is required to install the pump system. Other pumping systems such as a solar pump or hydraulic ram pump may be used as an alternative.
Unit of Measure: each		
Payment Rate: \$1,299.42 Regular \$1,559.31 HU		
Programs: ENRGY		Small Pump for Livestock Watering Facility
Land uses: Lvstk		In a typical scenario, a 3/4 HP pump is installed in association with spring development or well to provide water via pipeline to watering facility.
Unit of Measure: each		
Payment Rate: \$989.74 Regular \$1,187.68 HU		
Programs: ENRGY		5 HP or Less Pump
Land uses: Lvstk		Conversion to a drip irrigation system on cropland requires replacement of a larger pump with a 3 HP pump (includes backflow prevention device or water meter as appropriate). Size of pump is determined by required GPM derived from a design for specific irrigation system on cropland. Scenario could also be used for a 3 HP for silage leachate, barnyard runoff, and milkhouse waste (as part of a waste transfer system) at farm headquarters.
Unit of Measure: each		
Payment Rate: \$3,958.94 Regular \$4,750.73 HU		
Programs: ENRGY		Over 5 HP up to and including 10 HP Pump
Land uses: Lvstk		Use of a 7.5 HP pump is required for silage leachate, barnyard runoff, and milkhouse waste (as part of a waste transfer system) at farm headquarters, where the combination of higher solids content and volume require a larger horse power pump. This liquid manure pump is used to transfer semi-solid manure from a small reception pit located either below a barnyard or at the end of a free-stall barn or scrape alley.
Unit of Measure: each		
Payment Rate: \$4,500.31 Regular \$5,400.37 HU		
Programs: ENRGY		Over 10 HP Pump
Land uses: Lvstk		The typical scenario supports the use of a larger centrifugal or turbine pump required to transfer irrigation tailwater from the recovery basin to supply basin.
Unit of Measure: each		
Payment Rate: \$6,376.82 Regular \$7,652.19 HU		
Programs: ENRGY		Large Manure Pump
Land uses: Cropland, Lvstk		Installation involves a ram or piston pump to transfer the semi-solid manure at the farm headquarters. A protective structure consisting of a concrete pit and enclosure is required to properly install and protect the pump. The pump pit is typically 10 feet wide, 14 feet long and 8 feet deep. Installation typically involves excavation in a small and/or difficult site such as one with buildings or nearby structures, compaction around the structure, and hauling away excess material. The pump will be used as part of a waste transfer system.
Unit of Measure: each		
Payment Rate: \$27,762.81 Regular \$33,315.37 HU		
Programs: ENRGY		PTO Pump
Land uses: Lvstk		Installation of a PTO driven pump to transfer semi-solid/ liquid manure (as part of a waste transfer system) from a small reception pit. A PTO driven pump is selected because the landowner has equipment available to supply power to the pump and wired electricity is not readily available and/or a stationary engine is not practical. Pump typically will move 200 gallons per minute at 100 PSI and can be moved from one location to another.
Unit of Measure: each		
Payment Rate: \$2,340.02 Regular \$2,808.03 HU		
Lifespan: 1 year		345: RESIDUE MANAGEMENT, MULCH TILL (ac)
<i>Policy: If contracted, Residue Management must be scheduled for all acres in the first year of the contract. Additional consecutive years, if requested by the applicant, must be for the same fields (can be different crops). Additional fields for other years would be considered a separate application for funding. All land scheduled for Residue Management in any year must be implemented or the contract will be in violation of the terms and conditions.</i>		
Programs: ORG, ENRGY		Convert to Mulch Till System
Land uses: Cropland		The amount, orientation, and distribution of crop residue is managed to maintain 30-75% residue cover after planting. A chisel plow or secondary tillage equipment is used prior to planting to limit the soil-disturbing activities. Producer time is spent managing and implementing the mulch till system.
Unit of Measure: acre		
Payment Rate: \$11.48 Regular \$13.77 HU		
Programs: SHT		
Unit of Measure: each		
Payment Rate: \$1.05 Regular \$1.26 HU		

Lifespan: 1 year		329: RESIDUE MANAGEMENT, NO-TILL/STRIP TILL/DIRECT SEED (ac)	
<i>Policy: If contracted, Residue Management must be scheduled for all acres in the first year of the contract. Additional consecutive years, if requested by the applicant, must be for the same fields (can be different crops). Additional fields for other years would be considered a separate application for funding. All land scheduled for Residue Management in any year must be implemented or the contract will be in violation of the terms and conditions.</i>			
Programs: ORG, ENRGY		Convert to No-Till Grain System	
Land uses: Cropland		Fields used for grain production are converted to a new tillage system that provides for a continuous canopy or residue cover on the soil to build organic matter, reduce the use of supplemental fertilizers, and reduce the need for tillage to control weeds. Cost is based on the potential yield loss associated with exclusive use of slot or no-tillage planting equipment for grain and legume crops for a three-year period.	
Unit of Measure: acre			
Payment Rate: \$19.69 Regular			
\$23.63 HU			
Programs: SHT			
Unit of Measure: each			
Payment Rate: \$1.05 Regular			
\$1.26 HU			
Programs: ORG, ENRGY		Convert to No-Till Vegetable System	
<i>Policy: Payment to establish the cover is made under practice 340 Cover Crop.</i>			
Land uses: Cropland		Fields used for specialty crop production are converted to a new tillage system that provides for a continuous cover on the soil to build organic matter, reduce the use of supplemental fertilizers, and reduce the need for tillage to control weeds. Cost is based on the use of a roller or crimper machine to flatten the cover, and specialized planting equipment to plant vegetables through the residue.	
Unit of Measure: acre			
Payment Rate: \$23.96 Regular			
\$28.75 HU			
Programs: SHT			
Unit of Measure: each			
Payment Rate: \$1.05 Regular			
\$1.26 HU			
Lifespan: 15 years		391: RIPARIAN FOREST BUFFER (ac)	
<i>Policy: Zones 1 and 2 are both planted at a minimum density of 200 plants per acre.</i>			
Programs: ORG		3-Zone Buffer using seedling stock	
<i>Policy: All three zones are missing from the landscape and are required to be implemented to meet the practice standard.</i>			
Land uses: Cropland, Lvst		Three zoned riparian buffer installed next to a surface water body where seedling survival is not critical or where the area is protected from deer. Zone 1 (15' wide) is randomly planted trees spaced 10'-15' on center, Zone 2 (40' wide) is a mixture of trees and shrubs planted at a 5'-7' spacing, and Zone 3 (20' wide) is an herbaceous strip of cool season grasses and forbs. Includes site preparation, pre and post planting herbicide application, plant materials, hand planting of 2-3 year old seedlings, machine seeding of zone 3, and one mowing of zone 3 during initial year for weed control.	
Unit of Measure: acre			
Payment Rate: \$715.63 Regular			
\$856.75 HU			
Programs: ORG		3-Zone Buffer using container stock	
<i>Policy: All three zones are missing from the landscape and are required to be implemented to meet the practice standard.</i>			
Land uses: Cropland, Lvst		Three zoned riparian buffer installed next to a surface water body where deer pressure is high and stock survival is critical to the success of the practice. Zone 1 (15' wide) is randomly planted trees spaced 10'-15' on center, Zone 2 (40' wide) is a mixture of trees and shrubs planted at a 5'-7' spacing, and Zone 3 (20' wide) is a strip of cool season grasses and forbs. Includes site preparation, pre and post herbicide application, plant materials, hand planting of container stock, machine seeding of zone 3, tree guards, and one mowing of zone 3 during initial year for weed control. Requires use of larger container stock (3-gallon and 5-gallon size) due to high deer pressure.	
Unit of Measure: acre			
Payment Rate: \$1,473.13 Regular			
\$1,767.75 HU			
Programs: ORG		Zones 1 & 2 using Seedling Stock	
<i>Policy: Zone 3 (forested zone) exists on the site and will be supplemented with zones 1 and 2 to complete the buffer to NRCS standards. Payment is</i>			
Land uses: Cropland, Lvst		Zones 1 and 2 of a 3-zoned riparian buffer installed next to a surface water body that has an existing herbaceous seeding wide enough to meet the standard once trees and shrubs are added, and where seedling survival is not critical or where the area is protected from deer. Zone 1 (15' wide) is randomly planted trees spaced 10'-15' on center, and Zone 2 (40' wide) is a mixture of trees and shrubs planted at a 5'-7' spacing. Includes preparation of planting area, pre planting herbicide application, plant materials, and hand planting of 2-3 year old seedlings.	
Unit of Measure: acre			
Payment Rate: \$865.58 Regular			
\$1,038.69 HU			
Programs: ORG		Zones 1 & 2 using Container Stock	
<i>Policy: Zone 3 (forested zone) exists on the site and will be supplemented with zones 1 and 2 to complete the buffer to NRCS standards. Payment is</i>			
Land uses: Cropland, Lvst		Zones 1 and 2 of a 3-zoned riparian buffer installed next to a surface water body that has an existing herbaceous seeding wide enough to meet the standard once trees and shrubs are added, and where deer pressure is high and stock survival is critical to the success of the practice. Zone 1 (15' wide) is randomly planted trees spaced 10'-15' on center, and Zone 2 (40' wide) is a mixture of trees and shrubs planted at a 5'-7' spacing. Includes site preparation, pre planting herbicide application, plant materials, hand planting of container stock, and tree guards. Requires use of larger container stock (3-gallon and 5-gallon size) due to high deer pressure.	
Unit of Measure: acre			
Payment Rate: \$1,753.22 Regular			
\$2,103.86 HU			

Lifespan: 5 years	390: RIPARIAN HERBACEOUS COVER (ac)
Programs: ORG	Warm Season Herbaceous Mix
Land uses: Cropland, Lvst	A warm season herbaceous buffer planted directly next to a surface water body. Warm season grasses are planted with wildflowers in the seed mix. Conventional preparation of the seedbed, planting, pre-and post-seeding herbicide, and seeding is achieved One mowing is conducted during initial year for weed/competition control.
Unit of Measure: acre	
Payment Rate: \$236.14 Regular \$283.37 HU	
Programs: ORG	Cool Season Herbaceous Mix
Land uses: Cropland, Lvst	A cool season herbaceous buffer planted directly next to a surface water body. Cool season grasses are planted with wildflowers in the seed mix. Fertilizer is applied. Conventional preparation of the seedbed, planting, pre-seeding herbicide, and seeding is achieved. One mowing is conducted during initial year for weed/competition control.
Unit of Measure: acre	
Payment Rate: \$173.70 Regular \$208.44 HU	
Lifespan: 5 years	557: ROW ARRANGEMENT (ac)
Programs: ORG	Cross Slope Farming
Land uses: Cropland	Planned rows are designed for the specific site requirements. Rows are arranged in direction, grade, and length over 20 acres of sloping cropland to reduce soil erosion. The row arrangement is designed to accommodate the type and size of farm equipment to be used in the field. Additional time is required for the producer to adopt, implement, and plan the new practice within the farming system.
Unit of Measure: acre	
Payment Rate: \$6.77 Regular \$8.12 HU	
Programs: SHT	
Unit of Measure: each	
Payment Rate: \$1.05 Regular \$1.26 HU	
Lifespan: 4 years	798: SEASONAL TUNNEL SYSTEM FOR CROPS (ea)
Programs: ORG, SHT	Seasonal Tunnel
Land uses: Cropland	A manufactured frame of tubular steel (30 x 72 ft.) covered with 4-year 6mil plastic is used in vegetable or small fruit crop production to extend the growing season, improve water quality, improve soil condition, and increase local food production. Costs are based on purchase of manufactured kit and landowner installation to manufacturer's specifications. All runoff is managed to reduce soil erosion and prevent water quality issues; if plastic is not removed at the end of growing season, landowners must ensure management of snowload and adequate ventilation.
Unit of Measure: square feet	
Payment Rate: \$2.57 Regular \$3.08 HU	
Lifespan: 20 years	574: SPRING DEVELOPMENT (ea)
Programs: ORG	Spring Development
Land uses: Lvst	A permanent spring or seep located on the farm is converted to a source of livestock water. Cost is based on excavation of a 150' trench across the slope uphill of the seep, installation of a 4" perforated pipe with stone backfill, spoil spreading within the field, and a collection box to deliver the water to the watering facility. Does not include the watering facility itself (std 614).
Unit of Measure: linear feet of trench	
Payment Rate: \$15.96 Regular \$22.61 HU	
Lifespan: 10 years	578: STREAM CROSSING (ea)
Programs: ORG	Gravel Wet Crossing
Land uses: Lvst	As part of providing adequate pasture for an effective rotation grazing system, a 8' wide travel way across a stream or ditch is installed. Water velocity or animal numbers are low enough to maintain an ungrouted gravel crossing. Requires a NJ DEP permit prior to implementation. Includes excavation, grading, stone and gravel installed by machine. Does not include access control such as fencing to direct livestock to the crossing, or permit fees.
Unit of Measure: square feet	
Payment Rate: \$2.14 Regular \$2.57 HU	
Programs: ORG	Precast Concrete Wet Crossing
Land uses: Lvst	As part of providing adequate pasture for an effective rotation grazing system, a 8' wide travel way across a stream or ditch is installed. Water velocity or animal numbers are high enough to require a reinforced concrete crossing. Requires a NJ DEP permit prior to implementation. Includes excavation, grading, stone and precast reinforced concrete slab installed by machine. Does not include access control such as fencing to direct livestock to the crossing, or permit fees.
Unit of Measure: square feet	
Payment Rate: \$6.42 Regular \$7.70 HU	
Lifespan: 5 years	585: STRIP CROPPING (ac)
Programs: ORG	Field Strips
Land uses: Lvst	A planned system of growing alternating strips of erosive-susceptible and erosion resistant crops is implemented. The erosion-resistant and erosion-susceptible strips are of approximately equal width and oriented as close to perpendicular to water and wind erosion forces as practical. Crops grown are part of a planned conservation crop rotation. Increased time is required to farm field strips.
Unit of Measure: acre	
Payment Rate: \$25.37 Regular \$30.45 HU	

Lifespan: 20 years

587: STRUCTURE FOR WATER CONTROL (ea)

Policy: Practice is used only as a companion to another practice that addresses a resource concern, and installation of the water control structure is required for the other practice to meet minimum design criteria. If an alternate feasible location for the practice exists that would eliminate the need for the water control structure exists, then this practice is not authorized.

Programs: ORG Land uses: Cropland, Lvstk Unit of Measure: each Payment Rate: \$1,440.34 Regular \$1,728.41 HU	Inlet Structure A precast concrete structure designed to deliver surface water from another conservation practice to an underground outlet, or otherwise control the direction or rate of water flow in a subsurface system. Cost is based on site work, installation of gravel subbase material, a precast concrete unit, trash rack and flashboards. Does not include inlet or outlet pipes (std 620).
Programs: ORG Land uses: Cropland, Lvstk Unit of Measure: linear feet Payment Rate: \$54.87 Regular \$65.84 HU	Weir Structure A weir structure typically used to control water levels from shallow impoundment areas. Cost is based on materials, equipment and labor to install plastic sheet piling, weep pipes, caps, wales, and support structures such as tiebacks. Does not include grading of the area outside the weir, or stabilization of an outlet channel.
Programs: ORG Land uses: Cropland, Lvstk Unit of Measure: linear feet Payment Rate: \$83.79 Regular \$100.55 HU	Culvert, less than or equal to 15" In support of another contracted conservation practice, a 15" or smaller pipe is required to convey water under a farm access road or water control berm on a minimal grade. Cost is based on 30 feet of 15" inside diameter (or less) smooth interior corrugated plastic pipe, excavation and fill using on-site materials, and a small rock outlet apron. Does not include any inlet controls.
Programs: ORG Land uses: Cropland, Lvstk Unit of Measure: linear feet Payment Rate: \$91.84 Regular \$110.21 HU	Culvert, 18" to 24" In support of another contracted conservation practice, an 18"- 24" pipe is required to convey water under a farm access road or water control berm on a minimal grade. Cost is based on 40 feet of 18-24" inside diameter smooth interior corrugated plastic pipe, excavation and fill using on-site materials, and a 15' wide by 18' long rock outlet apron. Does not include any inlet controls.
Programs: ORG Land uses: Cropland, Lvstk Unit of Measure: linear feet Payment Rate: \$107.83 Regular \$129.40 HU	Bridge or Culvert, 30" or greater In support of another contracted conservation practice, a pipe arch structure or 30" (or larger) pipe is required to convey water under a farm access road or water control berm on a minimal grade. Cost is based on 40 feet of 30" inside diameter smooth interior corrugated plastic pipe, excavation and fill using on-site materials, and a 18' wide by 24' long rock outlet apron, without inlet controls.

Lifespan: 20 years

606: SUBSURFACE DRAIN (ft)

Policy: Practice is used only as a companion to another practice that addresses a resource concern, and spot drainage is required for the other practice to meet minimum design criteria. If an alternate feasible location for the practice exists that would eliminate the need for the drainage, then this practice is not authorized.

Programs: SHT Land uses: Cropland Unit of Measure: linear feet Payment Rate: \$3.60 Regular \$4.32 HU	Phytopthera Control A 4" or 6" diameter subsurface drain, installed to control the water table in a portion of a field with a documented phytopthera problem that is preventing implementation of a nutrient management system. Cost is based on labor and materials for a pattern drainage system with one common outlet and animal guard. Does not include surface inlets, if required. Does not intend to provide complete drainage of a high water table area. Must comply with NRCS drainage policy.
Programs: SHT Land uses: Cropland, Lvstk Unit of Measure: linear feet Payment Rate: \$2.72 Regular \$3.27 HU	Interceptor System A subsurface drain that supports the installation of a contracted structural practice where control of groundwater or seeps is required to ensure integrity of the practice. Cost is based on labor and materials for a one-line 4" drain with a nearby outlet and animal guard. Does not include surface inlets (std 587) or extensive distance to outlet (std 620). Does not apply where a drainage system for cropland or pasture is desired.
Programs: SHT Land uses: Cropland, Lvstk Unit of Measure: linear feet Payment Rate: \$10.35 Regular \$12.42 HU	Seepage Control with Drainfill A subsurface drain that supports the installation of a contracted structural practice in stony soil where control of groundwater or seeps is required to ensure integrity of the practice. Soil texture or water pressure requires drainfill to be used with the drain pipe. Cost is based on labor and materials for a one-line 6" drain, backfilled with select drainfill, with a nearby outlet and animal guard. Does not include surface inlets or extensive distance to outlet. Does not apply where a drainage system for cropland or pasture is desired.

Lifespan: 15 years

607: SURFACE DRAINAGE, FIELD DITCH (ft)

Policy: Practice is used only as a companion to another practice that addresses a resource concern, and spot drainage is required for the other practice to meet minimum design criteria. If an alternate feasible location for the practice exists that would eliminate the need for the drainage, then this practice is not authorized.

Programs: SHT Land uses: Cropland Unit of Measure: linear feet Payment Rate: \$0.62 Regular \$0.74 HU	Interceptor Ditch for Seasonal High Tunnel A field ditch is installed to intercept and convey excess surface water around a seasonal high tunnel to reduce soil erosion and runoff. A typical v-bottom ditch is installed with 4:1 slopes, 700' long, and average 1' deep (.15 CY per ft). Ditch is excavated and spoil spread on site.
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Lifespan: 10 years	600: TERRACE (ft)
Programs: ORG	Seeded or Cropped Terrace
Land uses: Cropland	On long slopes with excessive erosion, a combination ridge and channel is constructed to break slope lengths and channel water to a safe outlet. Cost is based on construction that does not require any cuts or fills greater than 3', and is typically less than 35' wide. Includes excavation and fill with on-site material, final grading, seedbed preparation, standard fertilizer and lime application, standard cool season grass seed mix, and mulch. Does not include pipe outlet system (std 620).
Unit of Measure: linear feet	
Payment Rate: \$4.40 Regular \$5.28 HU	
Lifespan: 15 years	612: TREE, SHRUB ESTABLISHMENT (ac)
<i>Policy: The least cost scenario that will meet the practice standard for the specific site conditions shall be selected for contracting, regardless of the</i>	
Programs: ORG	Bare root
Land uses: Cropland, Lvst	Plant a minimum of 200 trees or shrubs per acre in a random pattern to increase canopy density and species diversity and enhance wildlife habitat. Includes young bare root plant material, pre-plant chemical control of invasive species, hand planting of bare root stock, installation of tree shelters on no more than 1/2 of the seedlings, and frequent weed control for one year.
Unit of Measure: acre	
Payment Rate: \$550.59 Regular \$707.90 HU	
Programs: ORG	Container - Qrt to 1 gallon
Land uses: Cropland, Lvst	Plant a minimum of 200 trees or shrubs per acre in a random pattern to increase canopy density and species diversity and enhance wildlife habitat. Includes medium sized plant material (1-quart to 1-gallon containers), pre-plant chemical control of invasive species, hand planting of container stock, installation of tree shelters on no more than 1/2 of the trees, and frequent weed control for one year.
Unit of Measure: acre	
Payment Rate: \$1,765.79 Regular \$2,270.30 HU	
Programs: ORG	Container - 3 gallon or greater
Land uses: Cropland, Lvst	Plant a minimum of 200 trees or shrubs per acre in a random pattern to increase canopy density and species diversity and enhance wildlife habitat. Site conditions require use of large plant material (3-gallon and larger), pre-plant chemical control of invasive species, hand planting of container stock, installation of tree shelters on no more than 1/2 of the trees, and frequent weed control for one year.
Unit of Measure: acre	
Payment Rate: \$3,841.99 Regular \$4,939.70 HU	
Programs: ORG	Interplanting
Land uses: Cropland, Lvst	Interplant adapted and desirable species at a rate of 70 trees or shrubs per acre into an existing hardwood stand with a canopy of sufficient opening to allow the new plantings to thrive. Site prep and planting is by hand. Small container stock with the upper branches above the browse line is used with tree shelters on no more than 1/2 of the plants. Frequent weed control by mowing for one year is required.
Unit of Measure: acre	
Payment Rate: \$637.11 Regular \$819.14 HU	
Lifespan: 20 years	620: UNDERGROUND OUTLET (ft)
<i>Policy: Practice is used only as a companion to another practice that addresses a resource concern, and water cannot be outletted nearby without</i>	
Programs: SHT	Outlet - 10" diameter or less
Land uses: Cropland	An underground pipe installed as the only feasible alternative to safely deliver water from another conservation practice to a stable outlet. Cost is based on a 200 foot long outlet. Includes installation and materials for a 8" corrugated plastic pipe and animal guard. Does not include an inlet connection, normally part of another conservation practice, or outlet protection, not required for this size pipe.
Unit of Measure: linear feet	
Payment Rate: \$8.34 Regular \$10.01 HU	
Programs: SHT	Outlet - 12" to 15" diameter
Land uses: Cropland	An underground pipe installed as the only feasible alternative to safely deliver water from another conservation practice to a stable outlet. Cost is based on a 300 foot long outlet. Includes installation and materials for a 12" - 15" pipe, hooded inlet, antiseep collar, outlet protection (rock-lined scour hole) and animal guard. Does not include surface inlet, such as a catch basin, if required.
Unit of Measure: linear feet	
Payment Rate: \$25.70 Regular \$30.84 HU	
Programs: SHT	Outlet - 18" to 24" diameter
Land uses: Cropland	An underground pipe installed as the only feasible alternative to safely deliver water from another conservation practice to a stable outlet. Cost is based on a 300 foot long outlet. Includes installation and materials for a 18" - 24" pipe, hooded inlet, antiseep collar, outlet protection (rock-lined scour hole) and animal guard. Does not include surface inlet, such as a catch basin, if required.
Unit of Measure: linear feet	
Payment Rate: \$40.54 Regular \$48.65 HU	
Programs: SHT	Outlet - 30" diameter and greater
Land uses: Cropland	An underground pipe installed as the only feasible alternative to safely deliver water from another conservation practice to a stable outlet. Cost is based on a 250 foot long outlet. Includes installation and materials for a 30" or larger pipe, hooded inlet, antiseep collar, outlet protection (rock-lined scour hole) and animal guard. Does not include surface inlet, such as a catch basin, if required.
Unit of Measure: linear feet	
Payment Rate: \$53.10 Regular \$63.72 HU	
Lifespan: 20 years	642: WATER WELL (ea)
<i>Policy: Practice is approved when needed to replace an existing surface water supply that allows animal access to water that flows off-farm through a defined channel, stream, or river.</i>	
Programs: ORG	Alternative Livestock Water Supply
Land uses: Lvstk	A well installed to replace a surface water supply being used for livestock watering where livestock access to the surface water is causing water quality concerns or where other water sources are not readily available and the well facilitates an improved grazing system with a documented conservation benefit. Cost is based on a 6" well. Includes well drilling, gravel, grout, and screen. Does not include permits, pump (std 533) or pipeline (std 516).
Unit of Measure: linear feet	
Payment Rate: \$24.97 Regular \$29.96 HU	

Lifespan: 20 years

614: WATERING FACILITY (ea)

Policy: Payment is limited to the minimum number of facilities required to efficiently service the number of pastures calculated on the Pasture Forage Balance Worksheet completed by NRCS prior to ranking. The number of facilities may be less than the number of pastures, if facilities are shared across dividing fences, but may not be more than the number of pastures on the Worksheet. Additional facilities to service additional existing or planned pastures desired by the applicant are not eligible.

Programs: ORG	Portable Trough
Land uses: Lvstk	A 100 gallon portable watering trough is installed in a pasture in support of a seasonal prescribed grazing system. A float is needed to maintain the water level within the portable trough. Throughout the grazing season, the trough is moved periodically to provide access as the herd moves through the paddocks and to prevent the buildup of nutrients in any one location. To ensure an adequate lifespan, the watering trough is removed from the pasture during the winter months and stored in a protected location.
Unit of Measure: each	
Payment Rate: \$123.40 Regular \$148.08 HU	

Programs: ORG	Portable Trough with Frost Free Hydrant
Land uses: Lvstk	A 100 gallon portable watering trough and frost free hydrant is installed to provide a movable water supply to facilitate an extended season grazing plan. The trough is sized to provide a one-day supply of water based on the daily requirements of the herd and replenishment rates. A float is needed to maintain the water level within the portable trough. A water hose is installed to connect the hydrant to the trough. Due the extended grazing season and freezing overnight weather conditions, a frost free hydrant is required to replenish the system. Throughout the grazing season, the trough is moved periodically to provide access as the herd moves through the paddocks and to prevent the buildup of nutrients in any one location. To ensure an adequate lifespan, the watering trough is removed from the pasture during the winter months and stored in a protected location.
Unit of Measure: each	
Payment Rate: \$189.53 Regular \$227.44 HU	

Programs: ORG	Frost Proof Trough
Land uses: Lvstk	A 2 ball frost-proof watering facility (also called a frost-free, freeze-free, or freeze-proof watering facility) is installed on a compacted gravel surface (10x10) with underlain geotextile in order to meet the daily requirements of the herd. The gravel/geotextile surface is necessary to provide a stable surface on which the watering facility will not settle. The 2 ball watering system needs to be permanently mounted on concrete (0.3 Cu.Yd) to prevent overturning by wind and animals.
Unit of Measure: each	
Payment Rate: \$793.06 Regular \$951.67 HU	

Programs: ORG	Concrete Trough
Land uses: Lvstk	A 500 gallon concrete watering trough is installed at a lower elevation to the water source to allow gravity inflow into the system without the use of electricity. The concrete watering trough is installed on a gravel pad (10x10) with geotextile. The gravel/geotextile surface is necessary to provide a stable surface on which the watering facility will not settle. A large capacity water supply is needed due to the slow rate of replenishment into the watering facility from the water source. Due to the unlevel surface, the area needs to be shaped with equipment and operator.
Unit of Measure: each	
Payment Rate: \$1,035.77 Regular \$1,242.92 HU	

Programs: ORG	Storage Tank
Land uses: Lvstk	A 1000 gallon plastic storage tank is installed on a gravel pad (10x10) with geotextile to provide water storage as part of watering facility. A large capacity plastic storage tank is needed because of the extremely slow flow rates from water source or as an emergency supply for several days. A gravel/geotextile surface is necessary to provide a stable surface on which the tank will not settle. Due to the unlevel surface, the area needs to be shaped with equipment (with operator).
Unit of Measure: each	
Payment Rate: \$1,051.61 Regular \$1,261.93 HU	

Lifespan: 15 years

380: WINDBREAK/SHELTERBELT ESTABLISHMENT (ft)

Policy: Payment is calculated on the windbreak length, regardless of how many rows actually planted.

Programs: ORG, ENRGY	Tree/Shrub Windbreak
Land uses: Cropland, Lvstk	A multi-row linear planting of trees and/or shrubs to provide a buffer against wind-born sediments or chemicals. Cost is based on two rows of balled trees and shrubs planted in an alternating pattern. One row is 4-5' trees planted on 16' centers. Second row is 30-36" shrubs planted on 5-7' centers. Includes the purchase of plant material, installation, tree shelters, and pre- and post-plant weed control (chemical, mechanical, and/or manual).
Unit of Measure: linear feet	
Payment Rate: \$2.46 Regular \$2.95 HU	