



# COST LIST

## Fiscal Year 2016

Invoices on applied practices from the 2016 payment schedule that seem to be grossly misrepresented in the payment schedule should be collected and sent into the area and state offices. We need the documented costs in order to work with the national cost team and modify the payment rates for the 2017 cost list. Invoices are not required in order to make a practice payment.

**All costs in this document reflect the Payment Rate and NOT the Estimated Cost to install practice scenarios.**

**The payment rate for used material will be based on 50 percent of the cost listed in this document, unless the item is specifically listed as used in the cost list.**

**Any scenario that includes Foregone Income is limited to a one-time payment on that land. Production of any sort is prohibited during first year and additional years that the practice is contracted.**



# SECTION I

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# SECTION I

## 472 ACCESS CONTROL

ID UNITS: Acres

PRACTICE LIFESPAN: 10

Scenarios:

1. Monitoring, labor and increased time needed to control and re-route animals and traffic from sensitive areas, monitor and retain barriers.

General EQIP	EQIP-HU
\$19.02 per acre	\$22.82 per acre

**NOTE:** Cost-share for this scenario is limited for the **Prairie Pothole Wetland Grasslands Project** only.

**NOTE:** The Deferred Grazing scenario has moved to Prescribed Grazing (528).

# SECTION I

## 560 ACCESS ROAD

ID UNITS: Foot

PRACTICE LIFESPAN: 10

Scenarios:

1. New earth road in dry, level terrain, newly constructed compacted earth road on relatively level terrain and dry areas in order to establish a fixed travel way for the agricultural enterprise.

General EQIP	EQIP-HU
\$5.29 per foot	\$7.93 per foot

2. New 6-inch gravel road in wet, level terrain, newly constructed gravel road with compacted gravel surface on relatively level ground in wet areas in order to establish a fixed travel way for the agricultural enterprise.

General EQIP	EQIP-HU
\$10.52 per foot	\$15.79 per foot

3. Rehabilitation of existing gravel road in wet, level terrain, repair and rehabilitate a gravel road with 6 inches thick compacted gravel surface on existing alignment.

General EQIP	EQIP-HU
\$3.49 per foot	\$4.19 per foot

**NOTE: All Scenarios:** Cost-share is limited to **AFO/CAFO areas** or for erosion control on forested areas only.

**NOTE: All Scenarios:** Cost-share includes excavation, shaping, grading, and all equipment, labor, and incidental materials necessary.

# SECTION I

## 128 AGRICULTURAL ENERGY MANAGEMENT PLAN

ID UNITS: Number

Scenarios:

1. Develop an Energy Management Plan for a small, one enterprise.

General EQIP	EQIP- HU
\$1,601.98 each	\$1,922.37 each

2. Develop an Energy Management Plan for a medium, one enterprise.

General EQIP	EQIP-HU
\$1,993.44 each	\$2,392.13 each

3. Develop an Energy Management Plan for a large, one enterprise.

General EQIP	EQIP-HU
\$2,627.51 each	\$3,153.01 each

4. Develop an Energy Management Plan for a small, two enterprises.

General EQIP	EQIP-HU
\$2,480.76 each	\$2,976.92 each

5. Develop an Energy Management Plan for a medium, two enterprises.

General EQIP	EQIP-HU
\$3,359.55 each	\$4,031.46 each

6. Develop an Energy Management Plan for a large, two enterprises.

General EQIP	EQIP-HU
\$4,590.34 each	\$5,508.40 each

7. Develop an Energy Management Plan for a small, three enterprises.

General EQIP	EQIP-HU
\$2,872.23 each	\$3,446.68 each

8. Develop an Energy Management Plan on a medium, three enterprises.

General EQIP	EQIP-HU
\$3,751.02 each	\$4,501.22 each

9. Develop an Energy Management Plan on a large, three enterprises.

General EQIP	EQIP-HU
\$5,052.20 each	\$6,062.64 each

10. Develop an Energy Management Plan on a small, four enterprises.

General EQIP	EQIP-HU
\$3,506.29 each	\$4,207.55 each

11. Develop an Energy Management Plan on a medium, four enterprises.

General EQIP	EQIP-HU
\$4,385.08 each	\$5,262.10 each

12. Develop an Energy Management Plan on a large, four enterprises.

General EQIP	EQIP-HU
\$5,756.67 each	\$6,908.00 each

**NOTE:** Producers are required to hire a certified TSP to complete the assessment. The costs for TSP services are built into the 128 payment rate. A certified TSP performs an AgEMP 128 CAP (see Section III, FOTG) with the purpose of providing the producer with specific recommendations for increasing energy efficiency and reducing energy use for each major cropping activity on the farm.

The proposed 2016 CAP 128 payment scenario list would be based on size of the operation and number of enterprises. We have expanded the ASABE S612 Standard enterprise list to include irrigation pumps, greenhouses and maple syrup operations.

# SECTION I

## TECHNICAL GUIDE

Small	Medium	Large
< 300 Acres	301 – 2,500 Acres	> 2,500 Acres
< 300 Animal Units	301 – 1,000 Animal Units	> 1,000 Animal Units
Up to 2 Irrigation Pumps	3 – 6 Irrigation Pumps	> 7 Irrigation Pumps
< 20,000 Sq. Ft of Heater Greenhouse	20,001 – 40,000 Sq. Ft Heater Greenhouse	> 40,001 Sq. Ft Heater Greenhouse
A maple syrup enterprise		

2016 Payment Scenario for Conservation Activity Plan 128, Energy (rates based on 2016 prices)

Size of Operation <sup>1</sup>	One Enterprise	Two Enterprises	Three Enterprises	Four Enterprises
Small	\$1,601.98	\$2,480.76	\$2,872.23	\$3,506.29
Medium	\$1,993.44	\$3,359.55	\$3,751.02	\$4,385.08
Large	\$2,627.51	\$4,590.34	\$5,052.20	\$5,756.67

Examples:

- a. A 750 head dairy (Medium) – would be one enterprise (dairy) and payment would be for 750 AU for \$1,993.44.
- b. A 750 head dairy with 1000 acres of cropland – two enterprises (dairy and field crops). The 1000 acres would be used to size the operation (Medium) and the payment would be \$3,359.55.
- c. A 750 head dairy with 5000 acres of cropped field – two enterprises (dairy and field crops) and the acres push this site to the largest size and the payment would be - \$4,590.34.
- d. A 750 head dairy with 500 acres of irrigated cropland and 3 pumps – would be three enterprises (dairy, cropland and irrigation) and a size of medium for a payment of \$3,751.02.
- e. A 4 house poultry farm (25,000 broilers per house, average weight of 4 lbs., would be 400 AU) with no cropland there is only one enterprise and 300-2500 AU for a payment of \$1,601.98.

<sup>1</sup> Size of operation is based on the largest of the enterprise found on the operation.

# SECTION I

## 316 ANIMAL MORTALITY FACILITY

ID UNITS: Square Foot

PRACTICE LIFESPAN: 15

Scenarios:

1. Static Pile, Wood Bin(s). Installation includes site preparation, wood walls, concrete floor, and gravel apron area.

General EQIP	EQIP-HU
\$10.10 per square foot	\$13.98 per square foot of bin/composter floor area

2. Static Pile, Concrete Bin(s). Installation includes site preparation and concrete walls, floor, and apron area.

General EQIP	EQIP-HU
\$21.47 per square foot	\$30.42 per square foot of bin/composter floor area

3. Static Pile, Concrete Pad. Installation includes site preparation, concrete pad.

General EQIP	EQIP-HU
\$4.09 per square foot	\$4.90 per square foot floor area

**NOTE: All Scenarios:** Include a published reference on the mortality composting process in the Operation and Maintenance Plan. i.e., the MSU/CSU Extension document: "Livestock Mortality Composting for Large and Small Operations in the Semi-Arid West". This reference is available on the MT NRCS Website under engineering.

**NOTE: All Scenarios:** Design facilities for the largest carcass in a diversified operation. Loader or skid steer size may dictate the bin dimensions. For animal mortalities smaller than 500 pounds, the composting process is moisture limiting, so a frost-free Livestock Pipeline (Code 516) and water application system is recommended in the contract to conveniently maintain moisture in the compost. For animal mortalities greater than 500 pounds, the composting process may seep liquids, so a Level 1 Vegetated Treatment Area (Code 635), or Underground Outlet (Code 620) to a treatment or storage area, is recommended in the contract to safeguard water resources.

**ASSOCIATED PRACTICES:**

- Critical Area Planting (Code 342)
- Diversion (Code 362)
- Fence (Code 382)
- Livestock Pipeline (Code 516)
- Roofs and Covers (Code 367)
- Underground Outlet (Code 620)
- Vegetated Treatment Area (Code 635)

# SECTION I

## 396 AQUATIC ORGANISM PASSAGE

ID UNITS: Cubic Yards or Linear Feet or Square Foot or Vertical Foot or CFS

PRACTICE LIFESPAN: 5

Scenarios:

1. Earthen Dam removal, full removal of an earthen dam.

General EQIP	EQIP-HU
\$48.39 per cubic yard	\$58.06 per cubic yard

2. Blockage Removal, removal of passage barriers, including small relic earthen diversions (e.g., splash dams), failing or under-sized culverts, and sediment or large woody material (> 10 centimeter diameter and 2 meter length) from mass wasting or major flood events.

General EQIP	EQIP-HU
\$35.98 per cubic yard	\$43.18 per cubic yard

3. Nature-Like Fishway, also known as roughened channels, rock ramps, or bypass channels constructed to provide passage around an in-stream barrier or in place of a removed barrier, (assumes 20-foot wide and 2,000 feet long).

General EQIP	EQIP-HU
\$73,465.64 per acre	\$88,158.77 per acre

4. Simple Denil Ladder, metal structure constructed at an offsite fabrication facility that is transported to the project site.

General EQIP	EQIP-HU
\$3,208.46 per vertical foot	\$3,850.15 per vertical foot

5. Low Water Crossing, structure installed on low volume or unimproved roads at watercourse crossings in order to allow livestock and equipment access to other parcels.

General EQIP	EQIP-HU
\$509.54 per cubic yard	\$611.45 per cubic yard

**NOTE: Scenarios 1-2, 4-5.** Must be approved by the **NRCS Area Engineer** prior to contracting the practice. Approval must be in writing and documented in the contract folder.

**NOTE: Scenario 1.** Typical Equipment includes tracked excavators outfitted with hydraulic chisels, hammers and/or buckets with "thumbs", bull dozers, skid steers, cranes, front-end loaders, and dump trucks.

**NOTE: Scenario 3.** Scenario includes all in-stream bank stabilization and channel structural elements created from rock and woody materials. Associated practices include Critical Area Planting (Code 342) and other riparian vegetative practices.

**NOTE: Scenario 3.** Must be approved by the **State Conservation Engineer and State Resource Conservationist** prior to contracting. Approval must be in writing and documented in the contract folder.

# SECTION I

## 314 BRUSH MANAGEMENT

ID UNITS: Acres

PRACTICE LIFESPAN: 10

Scenarios:

1. Mechanical, Hand Tools, removing or cutting off woody plants at or below the root collar using hand tools, such as axes, shovels, hoes, nippers, brush pullers, and chain saws in areas with very early encroachment on non-herbaceous species.

General EQIP	EQIP-HU
\$109.80 per acre	\$131.76 per acre

2. Mechanical, Large Shrubs, Medium Infestation, removal of large woody vegetation of medium infestations by pushing, grubbing, masticating, chaining to include raking or piling.

General EQIP	EQIP-HU
\$285.61 per acre	\$342.74 per acre

3. Mechanical and Chemical, Cut stump plus chemical treatment, pile and burn, chip, etc., removal of Russian Olive and/or Salt Cedar from riparian areas and drainage ways using a mechanical cutter, chopper, masticator, sawyer, or other light equipment, followed by an application of approved chemicals.

General EQIP	EQIP-HU
\$504.22 per acre	\$605.07 per acre

4. Chemical, Individual Plant Treatment, on range or pasture, application of herbicides, basal or foliar, on selected individual plants.

General EQIP	EQIP-HU
\$25.84 per acre	\$31.01 per acre

**NOTE: All Scenarios:** The number of acres receiving a practice payment will be limited to the acres with brush, not the total acres of the pasture.

**NOTE: Scenario 2.** Can be used on areas infested with Rocky Mountain Juniper/Conifer stands that are encroaching onto the rangelands.

**NOTE: Scenario 3.** Use for the first year, which requires both mechanical and chemical control.

**NOTE: Scenario 4.** Use for the second and third years of chemical control.

# SECTION I

## 672 BUILDING ENVELOPE IMPROVEMENT

ID UNITS: Square Foot or Foot

PRACTICE LIFESPAN: 10

Scenarios:

1. Attic Insulation, installing a minimum of 4-inch depth of cellulose installation in attic or ceiling.

General EQIP	EQIP-HU
\$0.55 per square foot	\$0.66 per square foot

2. Wall Insulation, enclose both sidewalls and end walls from ceiling to floor.

General EQIP	EQIP-HU
\$1.34 per square foot	\$1.60 pre square foot

3. Sealant, sealing the gaps between walls, gables, ceiling, etc.

General EQIP	EQIP-HU
\$1.16 per foot	\$1.39 per foot

**NOTE: All Scenarios.** An Agricultural Energy Management Plan (CAP 128) is required by a registered TSP or an outside energy audit is required that meets the requirements of ASABE S612.

**NOTE: All Scenarios.** Must be approved by **State Conservation Engineer** prior to contracting the practice.

# SECTION I

## 584 CHANNEL BED STABILIZATION

ID UNITS: Cubic Yards or Each or Foot

PRACTICE LIFESPAN: 10

Scenarios:

1. Cross-Vane, Boulder, boulder or concrete or other fabricated material.

General EQIP	EQIP-HU
\$44.94 per cubic yard	\$89.88 per cubic yard

2. Cross-Vane, Log, wood and rock.

General EQIP	EQIP-HU
\$1,868.19 each	\$3,991.13 each

3. Stream Restoration with Gravel, for streams with bankfull flow > 50 cubic feet per second, stabilizing the bottom of a stream channel using gravel, small diameter rock riprap, or engineered products.

General EQIP	EQIP-HU
\$30.38 per cubic yard	\$45.58 per cubic yard

4. Stream Restoration with Rock Structure, protection of streambeds using a large rock structure composed of rock riprap.

General EQIP	EQIP-HU
\$45.74 per cubic yard	\$68.62 per cubic yard

5. Stream Restoration with gravel substrate for streams with less than 50 cubic foot per second bankfull flow.

General EQIP	EQIP-HU
\$3.01 per foot	\$4.52 per foot

### ASSOCIATED PRACTICES:

- Aquatic Organism Passage (Code 396)
- Critical Area Planting (Code 342)
- Open Channel (Code 582)
- Streambank and Shoreline Protection (Code 580)

# SECTION I

## 102 COMPREHENSIVE NUTRIENT MANAGEMENT PLAN

ID UNITS: Number

Scenarios:

1. Non-Dairy with Land Application less than 300 AU.

General EQIP	EQIP-HU
\$6,387.94 each	\$7,665.53 each

2. Dairy with Land Application less than 300 AU.

General EQIP	EQIP-HU
\$7,971.47 each	\$9,565.77 each

3. Livestock Operation without Land Application less than 300 AU.

General EQIP	EQIP-HU
\$5,758.10 each	\$6,909.71 each

4. Non-Dairy with Land Application, 300 - 700 AU.

General EQIP	EQIP-HU
\$8,228.36 each	\$9,874.03 each

5. Dairy with Land Application, 300 - 700 AU.

General EQIP	EQIP-HU
\$9,107.89 each	\$10,929.46 each

6. Livestock Operation without Land Application greater than or equal to 300 AU.

General EQIP	EQIP-HU
\$7,154.21 each	\$8,585.05 each

7. Non-Dairy with Land Application greater than or equal to 700 AU.

General EQIP	EQIP-HU
\$9,939.86 each	\$11,927.83 each

8. Dairy with Land Application greater than or equal to 700 AU.

General EQIP	EQIP-HU
\$10,127.28 each	\$12,152.74 each

**NOTE:** Participant must obtain services from a certified TSP for development of the "Comprehensive Nutrient Management Plan" Conservation Activity Plan (CAP). The CAP criteria requires the plan to identify approved FOTG conservation practices where needed to address identified resource concerns. Additional CAP plan criteria is detailed in Section III of the FOTG.

**NOTE:** CAP must cover the six components of a CNMP. If the producer is only interested in Nutrient Management, see CAP 104.

**NOTE:** Required Statement of Work (SOW) and geologic/soils investigation shall be coordinated between NRCS Area Engineer and TSP prior to contracting practice.

# SECTION I

## 317 COMPOSTING FACILITY

ID UNITS: Square Foot

PRACTICE LIFESPAN: 15

Scenarios:

1. All Weather Surface for composting.

General EQIP	EQIP-HU
\$0.91 per square foot of composter floor area	\$1.09 per square foot of composter floor area

2. Bin style composter.

General EQIP	EQIP-HU
\$11.63 per square foot of composter floor area	\$16.10 per square foot of composter floor area

3. Compacted Clay Pad for composting.

General EQIP	EQIP-HU
\$0.37 per square foot of constructed pad area	\$0.44 per square foot of constructed pad area

**NOTE: All Scenarios.** This practice can be used for both manure and truck garden crop residues.

**NOTE: All Scenarios.** All animal mortality composting shall be completed using Animal Mortality Facility (Code 316).

**NOTE: Scenario 2.** Wood or Concrete bin style composter set on a concrete floor.

**NOTE: Scenario 3.** Compacted clay earthen floor over which to compost, process, and maneuver organic material in a windrow style static pile. Compacted clay pad shall meet practice Waste Storage Facility (Code 313) seepage requirements.

**ASSOCIATED PRACTICES:**

- Critical Area Planting (Code 342)
- Fence (Code 382)
- Heavy Use Area Protection (Code 561)
- Roofs and Covers (Code 367)
- Subsurface Drain (Code 606)
- Underground Outlet (Code 620)
- Vegetative Treatment Area (Code 635)

# SECTION I

## 327 CONSERVATION COVER

ID UNITS: Acres

PRACTICE LIFESPAN: 5

Scenarios:

1. Pollinator – with Foregone Income on Cropland, permanent vegetation, including mix of grasses, legume, forbs, established on any land needing permanent vegetative cover that provides habitat for pollinators.

General EQIP	EQIP-HU
\$206.07 per acre	\$247.28 per acre

2. Pollinator – with Foregone Income on Grass Hayland, permanent vegetation, including mix of grasses, legume, forbs, established on any land needing permanent vegetative cover that provides habitat for pollinators.

General EQIP	EQIP-HU
\$320.02 per acre	\$384.02 per acre

**NOTE: All Scenarios.** Limited to the **Honey Bee Pollinator Initiative**.

**NOTE: All Scenarios.** A practice payment will be provided for planting a sequentially blooming planting mix that provides flowering plants throughout the growing season. Mix must be selected from an NRCS-approved list found in the Plant Materials Technical Note, MT-46 and Biology Technical Note, MT-20.

**NOTE: All Scenarios.** Fall and winter grazing will be allowed on the **Honey Bee Pollinator Initiative** contracted acres only after a killing frost.

**NOTE: All Scenarios. Honey Bee Pollinator Initiative** native seeding mixtures will be comprised of  $\leq$  20% cool/warm season grasses, at least three flowering plant species per bloom period (early, mid, late), with  $\leq$  5% non-native legumes.

**NOTE: All Scenarios.** No sod producing or rhizomatous grasses will be included in planting mixtures for the **Honey Bee Pollinator Initiative** contracted acres.

**NOTE: All Scenarios.** Can be used for orchards and vineyards between rows, calculate actual acres planted and round to nearest acre.

**NOTE: All Scenarios.** Not applicable on native rangeland (shrub or grassland), only apply on cropland, associated agricultural land, and tame pasture.

# SECTION I

## 328 CONSERVATION CROP ROTATION

ID UNITS: Acres

PRACTICE LIFESPAN: 1

Scenarios:

1. Standard Rotation, adding diversity to a crop rotation by changing rotation to one of the following:

General EQIP	EQIP-HU
\$8.66 per acre	\$10.40 per acre

- a. A two crop sequence that contains a warm season and a cool season crop;
  - b. A three crop sequence containing three different crop types; cool season grass, cool season broadleaf, warm season grass or warm season broadleaf, none of which occupy more than half of the sequence. A four crop sequence containing three different crop types, none of which occupy more than half of the sequence.
  - c. Flexible crop rotation where a legume or cover crop cocktail mixture is planted and terminated based on available soil moisture and probability of growing season precipitation. Legume or cover crop is planted during fallow year if soil moisture is sufficient.
  - d. Rotation that adds an annual Pollinator Friendly Crop (PFC) to an existing two or three crop rotation. At least one pollinator friendly crop must be grown every year for the duration of the contract.
2. Specialty Crops, acquisition of technical knowledge and skills necessary to effectively implement a conservation crop rotation on a typical 50 acre specialty crop (fruits and vegetables) farm.

General EQIP	EQIP-HU
\$28.88 per acre	\$34.66 per acre

**NOTE: All Scenarios.** Payment cannot be made for Conservation Crop Rotation (Code 328) and Cover Crop (Code 340) on the same acres for the same year.

**NOTE: Scenario 1.** Standard Rotation - The purpose of this practice is to go from a one or two crop rotation to a two, three or four crop rotation. If the current rotation meets the three or four crop standard rotation guidelines above the producer has already adopted the practice and is not eligible.

**NOTE: Scenario 1.** Flexible Crop Rotation - Flexible Legume or Cover Crop Mix Rotation - annual legumes such as lentils or peas are planted in the spring depending on soil moisture and used for forage or seed, or a cover crop mix with a minimum of five species with no species consisting of more than one-third of the mix is planted. A mix of cool and/or warm season broadleaves and grasses with a minimum of two crop types that are different than the predominate crop in the current rotation. Not more than 10 percent cool season grasses can be planted. Grazing is allowed not to exceed 50 percent of the current year's growth where a minimum of a 6-inch stubble height is maintained. The cover crop is terminated based on cover crop maturity, weed stage of growth and soil moisture. Termination methods are chemical application, mechanical or frost killed.

**NOTE: Scenario 1.** Maximum payment of \$7,280 per year and three years payment.

**NOTE: Scenario 1d.** Pollinator Friendly Crop - Adding an annual PFC to an existing one, two, three or four crop rotation. Producer cannot have the pollinator friendly crop in their current rotation but must add a new pollinator crop to the rotation. Pollinator friendly crop can be grown on different acres each year but a PFC must be grown each year of the contract. PFC can replace a crop in the rotation or extend the rotation a year but should not replace a fallow year in the rotation. PFC crop cannot be hayed or grazed before the crop is at 90% flowering stage. Grazing is allowed not to exceed 50 percent of the current year's growth where a minimum of a 6-inch stubble height is maintained. PFC's are: buckwheat, canola, mustard, rapeseed, safflower and sunflower.

**NOTE: Scenario 2.** Maximum payment of \$3,466 per year and three years payment.

# SECTION I

## 800 CONTROLLING EXISTING FLOWING WELLS

ID UNITS: Each

PRACTICE LIFESPAN: 20

Scenarios:

1. Existing Uncontrolled Flowing Well, 100 foot-depth or greater with 2-inch or larger casing.

General EQIP	EQIP-HU
\$15,669.76 each	\$18,803.71 each

**NOTE:** Cementing and packing of existing flowing and non-flowing artesian wells is required to conserve groundwater in artesian aquifers and to protect higher quality groundwater from incursion by higher elevation, poor quality aquifers. However, this cost must be incurred by the landowner. Final design is the responsibility of a licensed water well contractor. This item requires an artesian well report prepared a year in advance by the Montana Bureau of Mines and Geology (MBMG) and reviewed by the NRCS State Geologist.

# SECTION I

## 340 COVER CROP

ID UNITS: Acres

PRACTICE LIFESPAN: 3

Scenarios:

1. Cover Crop Erosion, cocktail cover crop mix with one to four species of cool and/or warm seeded species planted during fallow periods or immediately following harvest of the current crop

General EQIP	EQIP-HU
\$32.14 per acre	\$52.23 per acre

2. Cover Crop Soil Health, cocktail cover crop mix with a minimum of five species of cool and/or warm seeded species planted during fallow periods or immediately following harvest of the current crop

General EQIP	EQIP-HU
\$50.57 per acre	\$75.85 per acre

3. Cover Crop Adaptive Management – establishment of on-farm cover crop research or demonstration to compare different management strategies for cover crop management following the guidance in the Agronomy Technical Note 7 - Adaptive Management is limited to 5 acres.

General EQIP	EQIP-HU
\$286.90 per acre	\$397.25 per acre

**.NOTE: All Scenarios.** Cannot contract Conservation Crop Rotation (Code 328) and Cover Crop (Code 340) on the same acres in the same years.

**NOTE: All Scenarios.** Producer should check with crop insurance agent prior to planting cover crop for any changes in coverage or premiums for crops planted after a cover crop especially under the Risk Management Agency (RMA) summer fallow practice.

**NOTE: All Scenarios.** The “Nitrate QuikTest” can be used for initial evaluation but may not give reliable results and therefore a nitrate and forage quality analysis from a certified lab is required before grazing cover crop and pollinator mixtures.

**NOTE: Scenarios 1-2.** Use of cover crop encouraged but not required on the same acres during fallow years of the crop rotation, to improve soil quality. A “cocktail mix” will be planted as a cover crop immediately after harvest of the current crop if adequate precipitation or irrigation is available or in the fallow portion of the rotation. Planted in the spring for erosion control and soil health, using a cocktail mix of cool and/or warm season broadleaves and grasses with crop types that are different than the predominate crop in the current rotation. Not more than 10 percent cool season grasses can be planted where cereals are the main crop in the rotation. Haying or harvesting is not allowed. Grazing is allowed not to exceed 50 percent of the current year’s growth where a minimum of a 6-inch stubble height is maintained. If the cover crop is seeded after August 10 the component is capped at 150 acres. Termination methods, frost killed, chemical application or mechanical.

**NOTE: Scenarios 1-2.** Can be used in a seasonal high tunnel, capped at 1 acre.

**NOTE: Scenarios 1. Maximum payment of \$36,561 for three years.**

**NOTE: Scenarios 2. Maximum payment of \$53,095 for three years.**

**NOTE: Scenarios 2.** This will be used for the **Honey Bee Pollinator Initiative**. A minimum of 9 species with 3 in each bloom period will be required for the Honey Bee Pollinator planting.

**NOTE: Scenario 3.** Must be approved by **State Resource Conservationist**, with documentation in the contract folder.

# SECTION I

## 342 CRITICAL AREA PLANTING

ID UNITS: Acres

PRACTICE LIFESPAN: 10

Scenarios:

1. Drilled or Broadcast, native species.

General EQIP	EQIP-HU
\$88.35 per acre	\$106.02 per acre

2. Drilled or Broadcast, introduced species.

General EQIP	EQIP-HU
\$75.47 per acre	\$90.56 per acre

3. Aerial, native species.

General EQIP	EQIP-HU
\$113.72 per acre	\$136.46 per acre

4. Aerial, introduced species.

General EQIP	EQIP-HU
\$41.37 per acre	\$45.88 per acre

**NOTE: Scenarios 1-2.** Cost include site and seedbed preparation, seed, and hand or ground machine mounted broadcasting.

**NOTE: Scenarios 1-2.** Can be used for high tunnels.

**NOTE: Scenarios 1 and 3.** Cannot contain more than 5 percent non-native legumes.

**NOTE: Scenarios 2 and 4.** Cannot contain more than 20 percent non-native legumes.

**NOTE: Scenario 2.** Costs include site and seedbed preparation, seed, and drill seeding.

**NOTE: Scenarios 3-4.** Costs include seed and broadcasting by fixed wing airplane or helicopter.

**NOTE: Scenarios 3-4.** Use after wildfire and seedbed preparation is not needed.

# SECTION I

## 348 DAM, DIVERSION

ID UNITS: Cubic Yard or Foot

PRACTICE LIFESPAN: 15

Scenarios:

1. Earthfill dam built to divert all or part of the water from a waterway or stream in order to control erosion or provide controlled water for irrigation, water-spreading, or wildlife.

General EQIP	EQIP-HU
\$4.06 per cubic yard	\$6.09 per cubic yard

2. Rock Structure, a large rock cross vane structure built to divert all or part of the water from a waterway or stream in order to control erosion or provide controlled water for irrigation, water-spreading, or wildlife.

General EQIP	EQIP-HU
\$89.87 per cubic yard	\$134.81 per cubic yard

3. Concrete Structure, a concrete structure is built to divert all or part of the water from a waterway or stream in order to control erosion or provide controlled water for irrigation, water-spreading, or wildlife.

General EQIP	EQIP-HU
\$1,388.44 per cubic yard	\$2,082.65 per cubic yard

4. Wood Structure, a wood structure is built to divert all or part of the water from a waterway or stream in order to control erosion or provide controlled water for irrigation, water-spreading, or wildlife.

General EQIP	EQIP-HU
\$387.24 per foot of throat width	\$580.86 per foot of throat width

5. Wood Structure, with Apron, Side Walls, and Toe Wall, built to divert all or part of the water from a waterway or stream in order to control erosion or provide controlled water for irrigation, water-spreading, or wildlife.

General EQIP	EQIP-HU
\$215.90 per square foot of throat area	\$323.85 per square foot of throat area

**NOTE: All Scenarios.** Any headworks needed to control the diverted water shall be contracted under Structure for Water Control (Code 587).

**ASSOCIATED PRACTICES:**

- Channel Bed Stabilization (Code 584)
- Critical Area Planting (Code 342)
- Structure for Water Control (Code 587)

# SECTION I

## 356 DIKE

ID UNITS: Cubic Yards

PRACTICE LIFESPAN: 20

Scenarios:

1. Earthfill, material haul < 1 mile to construct an earthen embankment.

General EQIP	EQIP-HU
\$3.34 per cubic yard	\$5.00 per cubic yard

2. Earthfill, material haul > 1 mile to construct an earthen embankment.

General EQIP	EQIP-HU
\$3.66 per cubic yard	\$5.49 per cubic yard

**NOTE: All Scenarios.** Must be approved by **State Conservation Engineer** prior to contracting the practice, with documentation in the contract folder.

# SECTION I

## 362 DIVERSION

ID UNITS: Feet or Cubic Yards

PRACTICE LIFESPAN: 10

Scenarios:

1. Diversion, Cubic yards of fill with balanced, or nearly balanced cut and compacted fill, to divert runoff away from farmsteads, agricultural waste systems, gullies, critical erosion areas, construction areas or other sensitive areas. Component may also be used for diversion consisting primarily of fill.

General EQIP	EQIP-HU
\$5.02 per cubic yard	\$6.03 per cubic yard

2. Diversion, Less than 15 cubic yards per 100 feet, to divert runoff away from farmsteads, agricultural waste systems, gullies, critical erosion areas, construction areas of other sensitive areas.

General EQIP	EQIP-HU
\$1.69 per foot	\$2.02 per foot

3. Diversion, Concrete, Linear Foot, reinforced concrete tee wall that deflects runoff water from an open lot to a vegetative treatment area or waste storage structure.

General EQIP	EQIP-HU
\$59.05 per foot	\$70.87 per foot

4. Diversion, Excavation, Cubic Yard, an earthen channel constructed primarily from excavation, across long slopes to divert or carry runoff water away from farmsteads, agricultural waste systems, gullies, critical erosion areas.

General EQIP	EQIP-HU
\$3.54 per cubic yard	\$4.24 per cubic yard

**NOTE: All Scenarios.** This practice is applicable for clean or dirty water diversions around feedlots or other conservation applications.

**ASSOCIATED PRACTICES:**

- Critical Area Planting (Code 342)
- Grassed Waterway (Code 412)
- Mulching (Code 484)
- Underground Outlet (Code 620)

# SECTION I

## 130 DRAINAGE WATER MANAGEMENT PLAN

ID UNITS: Each

Scenarios:

1. Develop a Drainage Water Management Plan without a tile map.

General EQIP	EQIP-HU
\$2,459.81 each	\$2,951.77 each

2. Develop a Drainage Water Management Plan with a tile map.

General EQIP	EQIP-HU
\$2,062.65 each	\$2,475.17 each

**NOTE:** After EQIP contract approval, participant must obtain services from a certified TSP for development of the "Drainage Water Management Plan" Conservation Activity Plan (CAP). The CAP criteria requires the plan to identify approved FOTG conservation practices where needed to address identified resource concerns. Additional CAP plan criteria is detailed in Section III of the FOTG.

**NOTE:** Must be approved by State Conservation Engineer prior to contracting practice.

# SECTION I

## 647 EARLY SUCCESSIONAL HABITAT DEVELOPMENT/MANAGEMENT

ID UNITS: Acres

PRACTICE LIFESPAN: 1

Scenarios:

1. Mowing, mow incoming woody species to improve habitat.

General EQIP	EQIP-HU
\$174.69 per acre	\$209.63 per acre

2. Disking, manipulate species composition by disking and creating bare ground.

General EQIP	EQIP-HU
\$71.42 per acre	\$85.71 per acre

**NOTE: All Scenarios.** To further manage woody plants use Brush Management (Code 314) or Forest Stand Improvement (Code 666). For chemically controlling weeds, use Herbaceous Weed Control (Code 315). When the existing seed bank is inadequate, use either Range Planting (Code 550) or Conservation Cover (Code 327) and the mixture cannot contain more than 10 percent non-native legumes.

# SECTION I

## 201 EDGE OF FIELD WATER QUALITY MONITORING DATA COLLECTION AND EVALUATION

ID UNITS: Each  
PRACTICE LIFESPAN: 10

Scenarios:

1. Data Collection, Surface, Year 1 without quality assurance project plan.

General EQIP	EQIP-HU
\$11,451.84 each	\$13,742.21 each

2. Data Collection, Surface, Year 1 with quality assurance project plan.

General EQIP	EQIP-HU
\$16,479.94 each	\$19,775.93 each

3. Data Collection, Surface, Year 1 with two treatment sites and quality assurance project plan.

General EQIP	EQIP-HU
\$22,591.16 each	\$27,109.39 each

4. Data Collection, Surface, Year 2+.

General EQIP	EQIP-HU
\$11,451.84 each	\$13,742.21 each

5. Data Collection, Surface, Year 2+ with two treatment sites.

General EQIP	EQIP-HU
\$16,209.67 each	\$19,451.60 each

6. Data Collection, Surface, Last Year.

General EQIP	EQIP-HU
\$13,773.16 each	\$16,527.79 each

7. Data Collection, Surface, Last Year with two treatments.

General EQIP	EQIP-HU
\$19,691.65 each	\$23,629.98 each

**NOTE: All Scenarios.** Must be approved by **State Resource Conservationist** prior to contracting the practice.

# SECTION I

## 202 EDGE OF FIELD WATER QUALITY MONITORING INSTALLATION

ID UNITS: Each

PRACTICE LIFESPAN: 10

Scenarios:

1. System Installation, Surface.

General EQIP	EQIP-HU
\$14,025.25 each	\$16,830.30 each

2. System Installation, Surface Cold Climate.

General EQIP	EQIP-HU
\$15,032.68 each	\$18,039.22 each

**NOTE: All Scenarios.** Must be approved by **State Resource Conservationist** prior to contracting the practice.

# SECTION I

## 374 FARMSTEAD ENERGY IMPROVEMENT

ID UNITS: Each or HP or per 1,000 British Thermal Unit (BTU)/Hour

PRACTICE LIFESPAN: 10

Scenarios:

1. Plate Cooler-installation of all stainless dual pass plate cooler, type 316 stainless steel.

General EQIP	EQIP-HU
\$5,096.45 each	\$6,115.74 each

2. Scroll Compressor, install a new scroll compressor, associated controls, wiring, and materials to retrofit an existing refrigeration system.

General EQIP	EQIP-HU
\$2,083.40 per horse power	\$3,125.09 per horse power

3. Variable Speed Drive greater than 5, to include all appurtenances, used to drive a ventilation fan, irrigation pumps, vacuum pump, etc.

General EQIP	EQIP-HU
\$178.62 per horse power	\$214.34 per horse power

4. Automatic Controller System, installed on an existing manually-controlled agricultural system.

General EQIP	EQIP-HU
\$1,097.40 each	\$1,316.87 each

5. Motor Upgrade less than or equal to 1 Horse Power replacing an existing electric motor used to drive a ventilation fan, irrigation pumps, vacuum pump, etc.

General EQIP	EQIP-HU
\$443.80 horse power	\$532.56 horse power

6. Motor Upgrade greater than 1 and less than 10 Horse Power, replacing an existing electric motor used to drive a ventilation fan, irrigation pumps, vacuum pump, etc.

General EQIP	EQIP-HU
\$177.73 horse power	\$399.89 horse power

7. Motor Upgrade 10 - 100 Horse Power, replacing an existing electric motor used to drive a ventilation fan, irrigation pumps, vacuum pump, etc.

General EQIP	EQIP-HU
\$95.50 horse power	\$114.60 horse power

8. Motor Upgrade greater than 100 Horse Power, replacing an existing electric motor used to drive a ventilation fan, irrigation pumps, vacuum pump, etc.

General EQIP	EQIP-HU
\$118.86 horse power	\$142.64 horse power

9. Heating-Radiant Tube, replace "pancake" brood heaters in a poultry house with Radiant Tube Heaters.

General EQIP	EQIP-HU
\$1,146.66 each	\$1,376.00 each

10. Heating (Building), replace existing low-efficiency heaters with new high-efficiency heaters that have an efficiency rating of 80 percent + for fuel oil and 90 percent + for natural gas/propane.

General EQIP	EQIP-HU
\$9.28 per 1,000 BTU per hour	\$11.14 per 1,000 BTU per hour

**NOTE: All Scenarios.** An Agricultural Energy Management Plan (CAP 128) is required by a registered TSP or an outside energy audit is required that meets the requirements of ASABE S612.

**NOTE: All Scenarios.** Must be approved by **State Conservation Engineer** prior to contracting the practice.

# SECTION I

## 108 FEED MANAGEMENT PLAN

ID UNITS: Each

Scenarios:

1. Develop a Feed Management Plan.

General EQIP	EQIP-HU
\$1,861.46 each	\$2,233.75 each

2. Develop a Feed Management Plan on less than 100 acres.

General EQIP	EQIP-HU
\$932.93 each	\$1,119.52 each

3. Develop a Feed Management Plan on 100 - 1,500 acres.

General EQIP	EQIP-HU
\$2,448.94 each	\$2,938.73 each

4. Develop a Feed Management Plan on 1,500 - 5,000 acres.

General EQIP	EQIP-HU
\$4,081.57 each	\$4,897.88 each

5. Develop a Feed Management Plan on more than 5,000 acres.

General EQIP	EQIP-HU
\$5,247.73 each	\$6,297.27 each

**NOTE:** After EQIP contract approval, participant must obtain services from a certified TSP for development of the "Feed Management Plan" Conservation Activity Plan (CAP). The CAP criteria requires the plan to identify approved FOTG conservation practices where needed to address identified resource concerns. Additional CAP plan criteria is detailed in Section III of the FOTG.

**NOTE:** Must be approved by State Resource Conservationist prior to contracting practice, with documentation in the contract folder.

# SECTION I

## 382 FENCE

ID UNITS: Feet

PRACTICE LIFESPAN: 20

Scenarios:

1. Barbed or Smooth Wire, 3-5 wire, Includes Installation.

General EQIP	EQIP-HU
\$1.61 per foot	\$2.23 per foot

2. Wire Difficult, Includes Installation on areas with poor access, steep slopes, rocky sites, dense brush, wet conditions, etc.

General EQIP	EQIP-HU
\$1.83 per foot	\$2.75 per foot

3. Woven Wire, Includes Installation, typically used with sheep, goats, hogs, wildlife exclusion, shelterbelt/tree protection.

General EQIP	EQIP-HU
\$1.83 per foot	\$2.60 per foot

4. Electric, includes posts, wire, fasteners, gates, fence charger, two to three strand wire is commonly installed.

General EQIP	EQIP-HU
\$1.06 per foot	\$1.50 per foot

5. Woven Wire/No Climb Safety, designed to exclude human access for Waste Storage Ponds and/or Farm Ponds. Includes materials, warning signs, and installation.

General EQIP	EQIP-HU
\$3.75 per foot	\$5.31 per foot

6. Protection, includes installation to protect sensitive areas such as riparian areas, windbreaks/shelterbelts, feed storage areas, bee hives, orchards, small truck farms, etc.

General EQIP	EQIP-HU
\$3.74 per foot	\$4.49 per foot

7. Chain Link Safety Fence, a permanently installed fence to keep humans away from waste ponds and lagoons.

General EQIP	EQIP-HU
\$12.17 per foot	\$14.60 per foot

**NOTE: All Scenarios.** Fences surrounding cropland or cross fences within cropland acres to facilitate livestock grazing are not eligible for a practice payment.

**NOTE: Scenario 3.** Pronghorn crossings are required when Scenario 3 is installed and antelope are known to frequent the area.

**NOTE: Scenario 4.** For double deer fence installations, count the length of both fences to determine the total length of the fence. Electric, Includes installation, typically 2-3 strands.

**NOTE: Scenarios 1-4.** Fences will be installed with wildlife-friendly considerations.

**CLARIFICATION:** Additional components for wildlife friendly considerations such as fence markers are not included in the cost scenario, but are a required component in Sage Grouse Habitat. Fence markers for Sage Grouse have been moved to the Structures for Wildlife (Code 649) Practice and Fence (Code 382) Job Sheet, Wildlife Visibility also addresses fence markers.

# SECTION I

## 386 FIELD BORDER

ID UNITS: Acres

PRACTICE LIFESPAN: 10

Scenarios:

1. Native Species, making up 90-100 percent of mixture.

General EQIP	EQIP-HU
\$84.43 per acre	\$100.26 per acre

2. Introduced Species.

General EQIP	EQIP-HU
\$45.44 per acre	\$53.96 per acre

3. Pollinator-Friendly Species.

General EQIP	EQIP-HU
\$69.96 per acre	\$85.16 per acre

4. Organic Seed Planting for organic systems.

General EQIP	EQIP-HU
\$65.57 per acre	\$77.98 per acre

5. Herbaceous, Pollinator with Foregone Income

General EQIP	EQIP-HU
\$360.21 per acre	\$432.25 per acre

6. Herbaceous, Pollinators, Natives Plant Species Only with Foregone Income

General EQIP	EQIP-HU
\$459.18 per acre	\$551.02 per acre

**NOTE: All Scenarios.** Includes seedbed preparation, seed, and seeding.

**NOTE: All Scenarios.** Fall and winter grazing will be allowed on Honey Bee Initiative contracted acres only after a killing frost.

**NOTE: All Scenarios. Honey Bee Pollinator Initiative** native seeding mixtures will be comprised of  $\leq$  20% cool/warm season grasses, at least three flowering plant species per bloom period (early, mid, late), with  $\leq$  5% non-native legumes.

**NOTE: All Scenarios.** No sod producing or rhizomatous grasses will be included in planting mixtures for the **Honey Bee Pollinator Initiative** contracted acres.

**NOTE: Scenario 1.** The mixture cannot contain more than 5 percent non-native legumes.

**NOTE: Scenarios 2 - 4.** For non-pollinator friendly, the mixture cannot contain more than 20 percent non-native legumes.

**NOTE: Scenarios 3 and 5-6.** A practice payment will be provided for planting a sequentially blooming planting mix that provides flowering plants throughout the growing season. Mix must be selected from an NRCS-approved list found in the Plant Materials Technical Note, MT-46 and Biology Technical Note, MT-20.

**NOTE: Scenarios 5-6. Limited to the Honey Bee Pollinator Initiative.**

**NOTE: Scenarios 5-6.** Pollinator foregone income will be used when establishing permanent cover on previously tilled cropland.

# SECTION I

## 393 FILTER STRIP

ID UNITS: Acres

PRACTICE LIFESPAN: 10

Scenarios:

1. Introduced Species.

General EQIP	EQIP-HU
\$80.28 per acre	\$96.33 per acre

2. Native Species.

General EQIP	EQIP-HU
\$98.76 per acre	\$119.10 per acre

**NOTE: All Scenarios.** Includes seedbed preparation, seeding, and operation and maintenance to maintain the vegetation and function of the filter strip, species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on the contribution area. Can be used on crop or pasture lands.

**NOTE: All Scenarios.** For AFO/CAFO Facility Installations, use practice Vegetated Treatment Area (Code 635).

# SECTION I

## 394 FIREBREAK

ID UNITS: Feet

PRACTICE LIFESPAN: 5

Scenarios:

1. Constructed - Light Equipment.

General EQIP	EQIP-HU
\$0.02 per foot	\$0.03 per foot

2. Constructed - Medium Equipment, flat-medium slopes.

General EQIP	EQIP-HU
\$0.26 per foot	\$0.31 per foot

3. Constructed - Medium Equipment, steep slopes.

General EQIP	EQIP-HU
\$0.90 per foot	\$1.35 per foot

4. Vegetated permanent firebreak.

General EQIP	EQIP-HU
\$0.31 per foot	\$0.38 per foot

**NOTE: Scenario 1.** Bare ground firebreak without water bars.

**NOTE: Scenario 2.** Bare ground firebreak on slopes less than 15 percent with water bars.

**NOTE: Scenario 3.** Bare ground firebreak on slopes greater than 15 percent with water bars.

**NOTE: Scenario 4.** Establishing a strip of non-volatile vegetation that will serve as a green firebreak.

# SECTION I

## 142 FISH AND WILDLIFE HABITAT MANAGEMENT PLAN

ID UNITS: Each

Scenarios:

1. Fish and Wildlife Habitat Management Conservation Plan.

General EQIP	EQIP-HU
\$2,510.43 each	\$3,012.51 each

**NOTE:** After EQIP contract approval, participant must obtain services from a certified TSP for development of the "Fish and Wildlife Habitat Management Plan" Conservation Activity Plan (CAP). The CAP criteria requires the plan to identify approved FOTG conservation practices where needed to address identified resource concerns. Additional CAP plan criteria is detailed in Section III of the FOTG.

# SECTION I

## 512 FORAGE AND BIOMASS PLANTING

ID UNITS: Acres

PRACTICE LIFESPAN: 5

Scenarios:

1. Seedbed Preparation, Seed and Seeding, Introduced Perennial species.

General EQIP	EQIP-HU
\$45.81 per acre	\$57.72 per acre

2. Non-Native Pollinator-Friendly Perennial species.

General EQIP	EQIP-HU
\$176.28 per acre	\$211.54 per acre

**NOTE: All Scenarios.** Pasture or hay plantings that are part of a crop-pasture or crop-hay rotation and are being renovated are not eligible for a practice payment. Any hay planting on non-highly erodible cropland is not eligible for a practice payment.

**NOTE: All Scenarios.** Highly erodible cropland with a cropping history of five out of the last seven years is eligible for a practice payment when seeded back to pasture or hay.

**NOTE: All Scenarios.** All permanent seedings are **not** eligible on public land unless approved by the Assistant State Conservationist for Programs.

**NOTE: All Scenarios.** Cost-share includes preparing the seedbed for planting.

**NOTE: All Scenarios.** Fall and winter grazing will be allowed on **Honey Bee Pollinator Initiative** contracted acres only after a killing frost.

**NOTE: Scenario 1.** Pasture plantings are limited to a maximum of 20 percent legume.

**NOTE: Scenario 2.** Limited to the **Honey Bee Pollinator Initiative**.

**NOTE: Scenario 2.** No sod forming or rhizomatous grasses will be included in planting mixtures for the **Honey Bee Pollinator Initiative** contracted acres.

**NOTE: Scenarios 2.** A practice payment will be provided for planting a sequentially blooming planting mix that provides flowering plants throughout the growing season. Mix must be selected from an NRCS-approved list found in Plant Materials Technical Note, MT-46 and Biology Technical Note, MT-20 or the Honey Bee Fact Sheet.

# SECTION I

## 511 FORAGE HARVEST MANAGEMENT

ID UNITS: Acres  
PRACTICE LIFESPAN: 1

Scenarios:

1. Improved forage quality, forage quality analysis and animal health.

General EQIP	EQIP-HU
\$1.44 per acre	\$1.73 per acre

2. Perennial or Annual Crops – Delayed Mowing.

General EQIP	EQIP-HU
\$2.36 per acre	\$2.84 per acre

**NOTE: Scenario 1.** Forage Quality and nitrate analysis required; to include percent moisture, Total Digestible Nutrients (TDN), Acid Detergent Fiber (ADF), Neutral Detergent Fiber (NDF), crude protein and nitrate analysis.

**NOTE: Scenario 1.** Payment capped at \$86.50 per lot (same farm, field, with same species and management and cut under uniform conditions within a 48-hour time period. A lot can represent several truck or wagon loads, but all the forage should have been same species, managed, harvested and stored under identical conditions).

**NOTE: Scenario 2.** Limited to the **Honey Bee Pollinator Initiative**.

**NOTE: Scenario 2.** Payment is based on contracted acres and must adhere to the conservation practice standard for the length of the contract. Contractually, the annual payment will be initiated once the practice has been implemented and will continue for a period of three years. Example: 80 acre field of alfalfa/grass mix where the planned harvest will be delayed according to the practice standard requirements. Once the field has been harvested following the planned delayed harvest date, the annual payment will begin and will continue for a total of three years on these 80 acres.

**NOTE: Scenario 2.** Delay the forage harvest to promote the reproduction of ground nesting birds or pollinator habitat. Harvest will be delayed until after the young of the target bird species has fledged. Contact a biologist for guidance on fledging dates. Refer to Biology Technical Note No. MT-20.

**NOTE: Scenario 2.** Payment is made on the entire field as long as 10 percent is deferred. Haying should happen on the deferred 10 percent as soon as the applicable time period has passed (full bloom or nesting). The 10 percent should be rotated across the field with every cutting.

# SECTION I

## 106 FOREST MANAGEMENT

ID UNITS: Each

Scenarios:

1. Develop a Forest Management Plan on 1 - 20 acres.

General EQIP	EQIP-HU
\$1,065.90 each	\$1,279.08 each

2. Develop a Forest Management Plan on 21 - 100 acres.

General EQIP	EQIP-HU
\$1,346.40 each	\$1,615.68 each

3. Develop a Forest Management Plan on 101 - 250 acres.

General EQIP	EQIP-HU
\$2,412.30 each	\$2,894.76 each

4. Develop a Forest Management Plan on 251 - 500 acres.

General EQIP	EQIP-HU
\$3,478.20 each	\$4,173.84 each

5. Develop a Forest Management Plan on 501 - 1,000 acres.

General EQIP	EQIP-HU
\$4,039.20 each	\$4,847.04 each

6. Develop a Forest Management Plan on more than 1,000 acres.

General EQIP	EQIP-HU
\$5,049.00 each	\$6,058.80 each

**NOTE:** After EQIP contract approval, participant must obtain services from a certified TSP for development of the "Forest Management Plan" Conservation Activity Plan (CAP). The CAP criteria requires the plan to identify approved FOTG conservation practices where needed to address identified resource concerns. The Forest Management CAP is not considered a Forest Harvest Plan, but should complement the needs for harvest if desired by the land user. Additional CAP plan criteria is detailed in Section III of the FOTG.

# SECTION I

## 666 FOREST STAND IMPROVEMENT

ID UNITS: Acres

PRACTICE LIFESPAN: 10

Scenarios:

1. Pre-Commercial Thinning

General EQIP	EQIP-HU
\$354.97 per acre	\$425.97 per acre

2. Improved Forest Health.

General EQIP	EQIP-HU
\$212.12 per acre	\$254.55 per acre

3. Aspen Regeneration.

General EQIP	EQIP-HU
\$190.91 per acre	\$229.09 per acre

**NOTE: Scenario 2.** Existing unhealthy stands are treated either mechanically or by crews with chainsaws. Treated stand is sanitized by removing disease infected individual trees, such as mistletoe. These trees would pass on the disease to other trees if left remaining in the stand.

**NOTE: Scenario 3.** Existing stands are treated either mechanically or by crews with chainsaws to eliminate conifers and over-mature Aspens. Trees are clear cut and may extend outside the treated area in order to allow for aspen root suckering. A dormant season treatment provides the best response.

# SECTION I

## 655 FOREST TRAILS AND LANDINGS

ID UNITS: Feet

PRACTICE LIFESPAN: 5

Scenarios:

1. Trails and Landings Installation.

General EQIP	EQIP-HU
\$1.65 per foot	\$1.97 per foot

# SECTION I

## 383 FUEL BREAK

ID UNITS: Acres

PRACTICE LIFESPAN: 10

Scenarios:

1. Structure.

General EQIP	EQIP-HU
\$1,002.65 per acre	\$1,203.19 per acre

2. Forested.

General EQIP	EQIP-HU
\$683.46 per acre	\$820.16 per acre

3. National FS/NRCS Partnership.

General EQIP	EQIP-HU
\$1,359.43 per acre	\$1,631.31 per acre

**NOTE: Scenario 1.** Intensive over-story thinning, pruning, understory management and woody residue treatment around a structure/home.

**NOTE: Scenario 2.** Over-story thinning, limited pruning, understory management and extensive woody residue treatment applied at property boundaries, along roads, or other key areas to reduce continuity of vegetative cover, such as fuel breaks along ridges or valley bottoms. Large blocks of forests are not eligible. **Maximum payment of \$164,032.**

**NOTE: Scenario 3.** Scenario 3 is limited to structural and forested fuel breaks under the **FS/NRCS Landscape Restoration Partnership (Two Chiefs Initiative)**. For thinnings, use Forest Stand Improvement (666) costs. To be eligible for cost share under the **FS/NRCS Landscape Restoration Partnership**, the entire unit must be planned. **Maximum payment of \$326,262.**

# SECTION I

## 410 GRADE STABILIZATION STRUCTURE

ID UNITS: Cubic Yards

PRACTICE LIFESPAN: 15

Scenarios:

1. Embankment, Pipe greater than 12 inches, earthen embankment dam with a principal spillway pipe greater than 12 inches to prevent the formation or advancing of gullies.

General EQIP	EQIP-HU
\$4.03 per cubic yard	\$6.04 per cubic yard

2. Grade Control, Large, reinforced concrete grade control structure in an open channel in order to prevent head cutting and further erosion.

General EQIP	EQIP-HU
\$1,425.47 per cubic yard	\$2,138.21 per cubic yard

3. Concrete Block, chute structure of rock riprap or precast concrete. Applied in areas where the concentration and flow velocity of water require a structure to stabilize the grade in channels or to control gully erosion.

General EQIP	EQIP-HU
\$7.15 per square foot of chute channel surface area	\$8.59 per square foot of chute channel surface area

**ASSOCIATED PRACTICES:**

Critical Area Planting (Code 342)

Structure for Water Control (Code 587)

# SECTION I

## 412 GRASSED WATERWAY

ID UNITS: Acres

PRACTICE LIFESPAN: 10

Scenarios:

1. Construction of New Grassed Waterway.

General EQIP	EQIP-HU
\$2,779.55 per acre	\$3,335.46 per acre

2. Construction of New Grassed Waterway with Check Structures.

General EQIP	EQIP-HU
\$3,393.20 per acre	\$4,071.84 per acre

**NOTE: All Scenarios.** Costs include topsoiling, excavation, and associated work to construct the overall shape and grade of the waterway. **Seeding is included**, use Critical Area Planting (Code 342) for seeding specification. For erosion control during establishment, use Mulching (Code 484) as an associated practice.

**NOTE: Scenario 2.** Check structures are materials installed at regular intervals for the purpose of erosion control. Check structures in the scenario example, for instance, were geotextile sheets placed in the channel bottom to prevent gully erosion until the sod catches.

# SECTION I

## 548 GRAZING LAND MECHANICAL TREATMENT

ID UNITS: Acres

PRACTICE LIFESPAN: 1

Scenarios:

1. Range, Mechanical Treatment, using a heavily modified plow or combinations of equipment or dragging.

General EQIP	EQIP-HU
\$18.67 per acre	\$22.40 per acre

**NOTE:** A chisel may be substituted with appropriate equipment as discussed in the practice standard. Range Chiseling needs to be a minimum of 4-6 inches deep.

# SECTION I

## 110 GRAZING MANAGEMENT PLAN

ID UNITS: Each

Scenarios:

1. Develop a Grazing Management Plan on less than 100 acres.

General EQIP	EQIP-HU
\$932.93 each	\$1,119.52 each

2. Develop a Grazing Management Plan on 100 - 1,500 acres.

General EQIP	EQIP-HU
\$2,448.94 each	\$2,938.73 each

3. Develop a Grazing Management Plan on 1,500 - 5,000 acres.

General EQIP	EQIP-HU
\$4,081.57 each	\$4,891.88 each

4. Develop a Grazing Management Plan on more than 5,000 acres.

General EQIP	EQIP-HU
\$5,247.73 each	\$6,297.27 each

**NOTE:** After EQIP contract approval, participant must obtain services from a certified TSP for development of the "Grazing Management Plan" Conservation Activity Plan (CAP). The CAP criteria requires the plan to identify approved FOTG conservation practices where needed to address identified resource concerns. Additional CAP plan criteria is detailed in Section III in the FOTG.

# SECTION I

## 355 GROUNDWATER TESTING (WELL WATER TESTING)

ID UNITS: Each

PRACTICE LIFESPAN: 1

Scenarios:

1. Basic Water Quality Test, professional testing for coliforms, major cations/anions (calcium, sodium, magnesium, sulfates, sulfides, carbonates, bicarbonates, chlorides, nitrates, and nitrites) to confirm well water meets basic water quality standards for livestock and irrigation.

General EQIP	EQIP-HU
\$47.41 each	\$59.26 each

# SECTION I

## 561 HEAVY USE AREA PROTECTION

ID UNITS: Square Feet, Linear Feet

PRACTICE LIFESPAN: 10

Scenarios:

1. Rock and Gravel on Geotextile, used to stabilize areas that are frequently and intensively used by people, animals, or vehicles.

General EQIP	EQIP-HU
\$1.09 per square foot	\$1.31 per square foot

**NOTE:** Graded gravel pad with minimum 6-inch gravel depth placed on geotextile. Maximum size shall be 100 ft<sup>2</sup> per animal for cattle or horses and 10 ft<sup>2</sup> per animal for sheep or goats. Heavy use area should be kept as small as possible. The heavy use area should extend a minimum distance of eight feet from facilities such as portable hay rings, feeding troughs, mineral boxes, and other facilities where livestock concentrations cause resource concerns.

**NOTE:** Heavy Use Area Protection around watering facilities is included in Watering Facility (614).

# SECTION I

## 315 HERBACEOUS WEED CONTROL

ID UNITS: Acres

PRACTICE LIFESPAN: 5

Scenarios:

1. Mechanical - Hand Pulling using hand tools such as axes, shovels, hoes, nippers to remove or cut off noxious or invasive herbaceous plants at or below the root collar.

General EQIP	EQIP-HU
\$50.31 per acre	\$60.37 per acre

2. Chemical, Spot, using hand-carried equipment such as a backpack or hand-sprayer to apply chemicals.

General EQIP	EQIP-HU
\$83.12 per acre	\$99.74 per acre

3. Chemical, Ground, using ground equipment to apply chemicals.

General EQIP	EQIP-HU
\$34.05 per acre	\$51.07 per acre

4. Chemical, Aerial, using an airplane or helicopter to apply chemicals.

General EQIP	EQIP-HU
\$21.49 per acre	\$32.24 per acre

5. Biological - Insects, establishment of populations of species specific biological control insect agents released into the target plant population, or the collection and transfer of agents from one unit to another.

General EQIP	EQIP-HU
\$16.92 per acre	\$25.72 per acre

**NOTE: All Scenarios.** Under EQIP, this practice is limited to noxious weed control on non-cropland and non-hay land only.

**NOTE: All Scenarios.** Under EQIP this practice can be contracted and paid for only one year on the same acres, with the program participant addressing all of the noxious weeds on all of the contracted acres. Only management practices can be paid for three consecutive years on the same acres.

**NOTE: All Scenarios.** No maximum payment limitation.

**NOTE: All Scenarios.** Contracted acres must be mapped.

**NOTE: All Scenarios.** This is a one-time payment on the same acres, but the acres can change each year.

**NOTE: Scenario 5.** Dalmatian Toadflax, Applied = (Based on five acres per release of insects. A release is 100 bugs with a minimum of 300 bugs for the first five acres and 100 bugs for each additional five acres with a maximum of 22 releases per 100 acres).

**NOTE: Scenario 5.** Leafy Spurge, applied per acre (Based on five acres per release of one or more insect species. A release is 500 bugs with a minimum of 1,000 bugs for the first five acres and 500 bugs for each additional five acres with a maximum of 21 releases per 100 acres).

**NOTE: Scenario 5.** Knapweed, Applied per acre (Based on five acres per release of one or more insects species. A release is 100 bugs with a minimum of 300 bugs for the first five acres and 100 bugs for each additional five acres with a maximum of 22 releases per 100 acres).

**NOTE: Scenario 5.** Release numbers and size for other weed and insect species will be determined on a case-by- case basis.

# SECTION I

## 603 HERBACEOUS WIND BARRIERS

ID UNITS: Feet

PRACTICE LIFESPAN: 5

Scenarios:

1. Annual species to control wind erosion and/or protect plants.

General EQIP	EQIP-HU
\$0.07 per foot	\$0.09 per foot

2. Perennial species to control wind erosion and/or protect plants.

General EQIP	EQIP-HU
\$0.10 per foot	\$0.11 per foot

**NOTE: All Scenarios.** This is a one-time payment on the same acres but the acres can change each year.

# SECTION I

## 325 HIGH TUNNEL SYSTEM

ID UNITS: SQUARE Feet

PRACTICE LIFESPAN: 5

Scenarios:

1. A manufactured frame of tubular steel (30' x 72') covered with 4-year 6 mil plastic. Maximum payment is \$7,500

General EQIP	EQIP-HU
\$2.90 per square foot	\$3.47 per square foot

**NOTE:** Movable, polycarbonate and double-plastic high tunnels are allowed but the payment allowance stays the same.

**NOTE:** The high tunnel is used in vegetable small fruit crops or other high value crops to extend the growing season, improve water quality, improve soil condition, and increase local food production. Costs are based on purchase and installation of manufactured kit. Structure must be installed to manufacturer's specifications and the general requirements in 325 Montana job sheet. All runoff shall be 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 snow load and adequate ventilation.

# SECTION I

## 595 INTEGRATED PEST MANAGEMENT

ID UNITS: Each

PRACTICE LIFESPAN: 1

Scenarios:

1. IPM Small or Diversified Systems (CSA, organic) Farm, Needs to address MORE than ONE resource concern, a basic IPM plan with Land Grant University (LGU) pest monitoring techniques and pest thresholds (where available) is applied in Small Farm/Diversified Systems.

General EQIP	EQIP-HU
\$503.62 per plan and system	\$604.35 per plan and system

**NOTE:** Payable for a maximum of three years and is limited to small scale organic operations only.

**NOTE:** IPM activities are consistent with the Organic System Plan, scouting and monitoring are performed at every crop stage to identify pests and determine pest populations for informed decision-making on economic thresholds. Mapping and recordkeeping are performed to assist with monitoring efforts.

# SECTION I

## 114 INTEGRATED PEST MANAGEMENT

ID UNITS: Number

Scenarios:

1. Develop an Integrated Pest Management Plan for small/specialty crops on less than 50 acres.

General EQIP	EQIP-HU
\$1,450.83 each	\$1,740.99 each

2. Develop an Integrated Pest Management Plan for medium operation, 51 - 250 acres.

General EQIP	EQIP-HU
\$1,857.06 each	\$2,228.47 each

3. Develop an Integrated Pest Management Plan for large operation on greater than 250 acres.

General EQIP	EQIP-HU
\$2,901.65 each	\$3,481.99 each

**NOTE:** After EQIP contract approval, participant must obtain services from a certified TSP for development of the "Integrated Pest Management" Conservation Activity Plan (CAP). The CAP criteria requires the plan to meet quality criteria for applicable resource concerns and provides for opportunities to utilize the following strategies: Prevention, Avoidance, Monitoring, and Suppression, which will be implemented through use of "Integrated Pest Management and may use one or more of the following conservation practices: Conservation Crop Rotation, Cover Crop, and Residue Tillage Management. The CAP plan may include recommendations for associated conservation practices which address other related resource concerns. CAP meets the basic quality criteria for the 114 plan as cited in Section III of the NRCS FOTG.

# SECTION I

## 154 INTEGRATED PEST MANAGEMENT HERBICIDE RESISTANCE WEED CONSERVATION

ID UNITS: Number

Scenarios:

1. Develop an Integrated Pest Management Herbicide Resistance Weed Management Plan for small, specialty, less than 50 acres.

General EQIP	EQIP-HU
\$1,740.99 each	\$2,089.19 each

2. Develop an Integrated Pest Management Herbicide Resistance Weed Management Plan for medium operation, 51 - 250 acres.

General EQIP	EQIP-HU
\$2,263.29 each	\$2,715.95 each

3. Develop an Integrated Pest Management Herbicide Resistance Weed Management Plan for large operation on greater than 250 acres.

General EQIP	EQIP-HU
\$3,481.99 each	\$4,178.38 each

**NOTE:** After EQIP contract approval, participant must obtain services from a certified TSP for development of the "Integrated Pest Management" Conservation Activity Plan (CAP). The CAP criteria requires the plan to meet quality criteria for applicable resource concerns and provides for opportunities to utilize the following strategies: Prevention, Avoidance, Monitoring, and Suppression, which will be implemented through use of "Integrated Pest Management and may use one or more of the following conservation practices: Conservation Crop Rotation, Cover Crop, and Residue and Tillage Management. The CAP plan may include recommendations for associated conservation practices which address other related resource concerns. CAP meets the basic quality criteria for the 154 plan as cited in Section III of the NRCS FOTG.

# SECTION I

## 320 IRRIGATION CANAL OR LATERAL

ID UNITS: Cubic Yards

PRACTICE LIFESPAN: 15

Scenarios:

1. Irrigation Canal, construction of an earthen irrigation canal or lateral.

General EQIP	EQIP-HU
\$1.52 per cubic yard	\$2.27 per cubic yard

2. Relocate Canal and fill the old channel.

General EQIP	EQIP-HU
\$2.42 per cubic yard	\$3.63 per cubic yard

**NOTE: Scenario 1.** Yardages quantity includes excavation and earthfill volumes to construct the channel geometry.

**NOTE: Scenario 2.** Includes hauling overburden, filling abandon canal, repacking and preparing seedbed.

**ASSOCIATED PRACTICES:**

- Critical Area Planting (Code 342)
- Irrigation Ditch Lining (Code 428)
- Irrigation Pipeline (Code 430)
- Irrigation System, Surface or Subsurface (Code 443)
- Pumping Plant (Code 533)
- Structure for Water Control (Code 587)

# SECTION I

## 428 IRRIGATION DITCH LINING

ID UNITS: Square Yard  
PRACTICE LIFESPAN: 20

Scenarios:

1. Concrete ditch lining, lining an existing ditch alignment.

General EQIP	EQIP-HU
\$6.99 per square yard	\$10.49 per square yard

2. Flexible Geomembrane, Exposed, lining in an existing ditch alignment.

General EQIP	EQIP-HU
\$6.51 per square yard	\$9.47 per square yard

3. Flexible Geomembrane, Covered, lining in an existing ditch alignment.

General EQIP	EQIP-HU
\$11.54 per square yard	\$16.78 per square yard

4. Geosynthetic Clay Liner (GCL), Clay lining in an existing ditch alignment.

General EQIP	EQIP-HU
\$9.83 per square yard	\$14.74 per square yard

**NOTE: All Scenarios.** This practice can be applied on an irrigation ditch or canal.

**NOTE: Scenarios 1-3.** Costs include an 8 ounce geotextile underlayment and when covered, screening of cover material to 3/8-inch minus. Payment is based on the total area covered by the liner including the anchor trench.

**NOTE: Scenario 4.** Costs for geosynthetic liners include sub-grade preparation of clearing, grubbing, shaping and grading old channel, and rolling with a smooth drum roller. When covered, costs include excavation for liner placement, placement of soil cover, and gravel armor layer.

**ASSOCIATED PRACTICES:**

- Irrigation Canal or Lateral (Code 320)
- Irrigation Field Ditch (Code 388)
- Irrigation Pipeline (Code 430)
- Irrigation System, Surface or Subsurface Water (Code 443)
- Pumping Plant (Code 533)
- Sprinkler System (Code 442)
- Structure for Water Control (Code 587), and Fence (Code 382)

# SECTION I

## 388 IRRIGATION FIELD DITCH

ID UNITS: Linear Feet

PRACTICE LIFESPAN: 15

Scenarios:

1. Field Ditch, less than 2.5 cubic feet per second, to deliver water to part or all of an irrigation system.

General EQIP	EQIP-HU
\$0.74 per linear foot	\$1.11 per linear foot

2. Field Ditch, 2.5 - 10 cubic feet per second, to deliver water to part or all of an irrigation system.

General EQIP	EQIP-HU
\$1.21 per linear foot	\$1.81 per linear foot

3. Field Ditch, 10 - 20 cubic feet per second, to deliver water to part or all of an irrigation system.

General EQIP	EQIP-HU
\$1.98 per linear foot	\$2.96 per linear foot

4. Field Ditch, more than 20 cubic feet per second, to deliver water to part or all of an irrigation system.

General EQIP	EQIP-HU
\$2.91 per linear foot	\$4.37 per linear foot

### ASSOCIATED PRACTICES:

- Critical Area Planting (Code 342)
- Irrigation Ditch Lining (428)
- Irrigation Pipeline (Code 430)
- Irrigation System, Surface or Subsurface (Code 443)
- Pumping Plant (Code 533)
- Structure for Water Control (Code 587)

# SECTION I

## 464 IRRIGATION LAND LEVELING

ID UNITS: Cubic Yards

PRACTICE LIFESPAN: 15

Scenarios:

1. Land Leveling to enhance the uniform flow of surface water for improving irrigation efficiencies.

General EQIP	EQIP-HU
\$1.11 per cubic yard	\$1.67 per cubic yard

**NOTE:** Irrigation Water Management (Code 449) shall be contracted on at least 30 percent on flood irrigated leveled fields under the same EQIP contract.

**NOTE:** Cut or fill per acre must be greater than one-tenth (.10) foot per acre.

**ASSOCIATED PRACTICES FOR TAILWATER DITCH:**

- Irrigation Field Ditch (Code 388)
- Irrigation System, Surface and Subsurface (Code 443)
- Irrigation Water Management (Code 449)
- Open Channel (Code 582)
- Structure for Water Control (Code 587)

# SECTION I

## 430 IRRIGATION PIPELINE (ALL PIPELINES EXCEPT GATED PIPE)

ID UNITS: Pound, Each or Linear Foot

PRACTICE LIFESPAN: 20

Scenarios:

1. PVC Pipe, less than or equal to 8 inches, typical, with appurtenances, installed below ground, according to practice standard.

General EQIP	EQIP-HU
\$1.25 per pound	\$1.88 per pound

2. PVC Pipe, greater than or equal to 10 inches, with appurtenances, installed below ground, according to practice standard.

General EQIP	EQIP-HU
\$1.00 per pound	\$1.50 per pound

3. HDPE, (Iron Pipe Size and Tubing) Less than or equal to 8 inches, with appurtenances installed below ground, according to practice standard.

General EQIP	EQIP-HU
\$2.30 per pound	\$2.76 per pound

4. HDPE, (Iron Pipe Size and Tubing) greater than or equal to 10 inches, with appurtenances installed below ground, according to practice standard.

General EQIP	EQIP-HU
\$1.98 per pound	\$2.38 per pound

5. Surface HDPE, (Iron Pipe Size and Tubing) with appurtenances installed on ground surface.

General EQIP	EQIP-HU
\$2.23 per pound	\$2.67 per pound

6. HDPE, (Corrugated Plastic Pipe) Twin Wall and smooth interior with all appurtenances installed below ground, according to practice standard.

General EQIP	EQIP-HU
\$1.39 per pound	\$2.08 per pound

7. Steel (Iron Pipe Size) less than or equal to 8 inches, with all appurtenances, installed below ground, according to practice standard.

General EQIP	EQIP-HU
\$1.16 per pound	\$1.74 per pound

8. Steel (Iron Pipe Size) greater than or equal to 10 inches, with all appurtenances, installed below ground, according to practice standard.

General EQIP	EQIP-HU
\$1.08 per pound	\$1.62 per pound

9. Surface Steel (Iron pipe size), with all appurtenances, installed on the ground surface.

General EQIP	EQIP-HU
\$1.06 per pound	\$1.60 per pound

10. Steel (Corrugated Steel Pipe), with all appurtenances, installed below ground, according to practice standard.

General EQIP	EQIP-HU
\$0.71 per pound	\$1.06 per pound

11. Surface Aluminum (Irrigation Pipe), typical size 6-12 inch, with all appurtenances, installed on the ground surface.

General EQIP	EQIP-HU
\$2.94 per pound	\$4.42 per pound

# SECTION I

12. Alfalfa Valve, less than or equal to 8 inches, used at the end of a buried pipe, where surface gated pipe, or delivery to an open ditch for delivery of water to a field.

General EQIP	EQIP-HU
\$226.60 each	\$339.91 each

13. Alfalfa Valve, greater than or equal to 10 inches, used at the end of a buried pipe, where surface gated pipe, or delivery to an open ditch for delivery of water to a field.

General EQIP	EQIP-HU
\$344.13 each	\$516.20 each

14. Horizontal Boring, with appurtenances.

General EQIP	EQIP-HU
\$86.28 per linear foot	\$129.42 per linear foot

**NOTE: All Scenarios.** Typically for pipe installed below ground, appurtenances include couplings, fittings, air vents, pressure relief valves, thrust blocks, and inline shutoff valve. Irrigation practices (442, 443, and 464) which are contracted include IWM (Code 449), and require a flow measuring device (flow meter). Flow meters are under Structure for Water Control (Code 587).

**ASSOCIATED PRACTICES:**

- Irrigation System, Micro-Irrigation (Code 441)
- Irrigation System, Surface and Subsurface (Code 443)
- Irrigation Water Management (449)
- Pumping Plant (Code 533)
- Sprinkler System (Code 442)
- Structure for Water Control (587)

# SECTION I

## 441 IRRIGATION SYSTEM, MICROIRRIGATION

ID UNITS: Acres or Per Square Foot

PRACTICE LIFESPAN: 15

Scenarios:

1. Subsurface, buried permanent drip irrigation system, all-inclusive starting with the filter station out to the flush valves, includes all appurtenances.

General EQIP	EQIP-HU
\$912.81 per acre	\$1,369.21 per acre

2. Surface PE micro-irrigation system with emitters, placed on trellis or aboveground, permanent, for providing irrigation to an orchard, vineyard, or other specialty crop grown in a grid pattern, includes all appurtenances.

General EQIP	EQIP-HU
\$1,221.91 per acre	\$1,832.86 per acre

3. Micro sprinkler irrigation system to provide irrigation and/or frost protection for an orchard/vineyard or other crops grown in a grid pattern, includes all appurtenances.

General EQIP	EQIP-HU
\$1,403.70 per acre	\$2,105.55 per acre

4. Shelterbelt drip irrigation system for establishing windbreak/shelterbelt, includes all appurtenances.

General EQIP	EQIP-HU
\$0.04 per square foot	\$0.05 per square foot

5. Orchard/vineyard System, new micro irrigation system on existing irrigated acres, includes all appurtenances.

General EQIP	EQIP-HU
\$1,263.89 per acre	\$1,516.66 per acre

6. High Tunnel, includes all appurtenances.

General EQIP	EQIP-HU
\$0.26 per square foot	\$0.37 per square foot

7. Truck Garden, conversion of sprinkler or flood irrigation to micro-irrigation, includes all appurtenances.

General EQIP	EQIP-HU
\$1,922.16 per acre	\$2,306.59 per acre

### ASSOCIATED PRACTICES:

- Conservation Crop Rotation (Code 328)
- Nutrient Management (Code 590)
- Irrigation Pipeline (Code 430)
- Irrigation Water Management (Code 449)
- Pumping Plant (Code 533)
- Salinity and Sodic Soil Management (Code 610)

# SECTION I

## 443 IRRIGATION SYSTEM, SURFACE AND SUBSURFACE (GATED PIPE)

ID UNITS: Each or Pound

PRACTICE LIFESPAN: 15

Scenarios:

1. Surge Valve and Controller, converting from a conventional surface irrigated system to a surge system, this component does not include gated pipe.

General EQIP	EQIP-HU
\$1,165.54 each	\$1,748.31 each

2. Polyvinyl Chloride (PVC) Gated Pipe, surface gated pipe to convey and distribute water into irrigation furrows, borders, or contour levees.

General EQIP	EQIP-HU
\$1.20 per pound	\$1.80 per pound

**NOTE:** **Scenario 2.** Irrigation Water Management (Code 449) must be contracted for three years with this practice.

**ASSOCIATED PRACTICES:**

- Conservation Crop Rotation (Code 328)
- Irrigation Land Leveling (Code 464)
- Irrigation Pipeline (Code 430)
- Irrigation Water Management (Code 449)
- Nutrient Management (Code 590)
- Pumping Plant (Code 533)

# SECTION I

## 449 IRRIGATION WATER MANAGEMENT

ID UNITS: Each

PRACTICE LIFESPAN: 1

Scenarios:

1. Basic or high tunnel, Irrigation Water Management (IWM) using a checkbook method.

General EQIP	EQIP-HU
\$288.83 each	\$346.60 each

2. Basic IWM, Contracted, using a checkbook method, utilizing a contracted individual.

General EQIP	EQIP-HU
\$494.81 each	\$593.78 each

3. Intermediate IWM, Year 1, using the checkbook method.

General EQIP	EQIP-HU
\$962.23 each	\$1,154.68 each

4. Intermediate IWM, Years 2 and 3, using the checkbook method.

General EQIP	EQIP-HU
\$462.13 each	\$554.56 each

5. Intermediate IWM, Year 1, using a checkbook method, utilizing a contracted individual.

General EQIP	EQIP-HU
\$1,236.88 each	\$1,484.25 each

6. Intermediate IWM, Years 2 and 3, using a checkbook method, utilizing a contracted individual.

General EQIP	EQIP-HU
\$736.77 each	\$884.13 each

7. Advanced IWM, Year 1, using the checkbook method.

General EQIP	EQIP-HU
\$3,456.16 each	\$4,147.39 each

8. Advanced IWM, Years 2 and 3, using the checkbook method.

General EQIP	EQIP-HU
\$462.13 each	\$554.56 each

9. Advanced IWM, Year 1, using the checkbook method, utilizing a contracted individual.

General EQIP	EQIP-HU
\$3,868.12 each	\$4,641.75 each

10. Advanced IWM, Years 2 and 3, using the checkbook method, utilizing a contracted individual.

General EQIP	EQIP-HU
\$874.10 each	\$1,048.91 each

11. Basic Orchard/Vineyard, or truck garden, IWM monitoring soil moisture versus crop consumptive use with four soil moisture sensors buried at different locations and depths, taking weekly recordings, date of killing frost, total net irrigation applied per crop.

General EQIP	EQIP-HU
\$1,017.53 each	\$1,221.04 each

12. Orchard/Vineyard or truck garden with Weather Station, IWM monitoring soil moisture versus crop consumptive use with four soil moisture sensors buried at different locations and depths, taking weekly recordings, date of killing frost, total net irrigation applied per crop.

General EQIP	EQIP-HU
\$3,282.62 each	\$3,939.14 each

**NOTE:** The checkbook system in accordance with Construction Specification 449 and includes recording crops, soil moisture conditions prior to irrigation, dates of irrigation start and stop, depths of irrigation applied, duration of irrigations, and amount of rainfall, to be collected weekly throughout the growing season.

**NOTE:** Flow meters shall be installed on each irrigation system contracted under this practice, flow meters are contracted under Structure for Water Control (Code 587).

# SECTION I

**NOTE: All Scenarios.** IWM shall be contracted on all sprinkler irrigated fields and on at least 30 percent on flood irrigated leveled fields under the same EQIP contract.

**NOTE: Scenarios 1-10.** IWM shall be contracted for three years.

**NOTE: Scenario 1.** High tunnel cost include two tensiometers plus installation labor.

**NOTE: Scenarios 1-2.** Basic IWM involves determining initial soil moisture by the feel and appearance method - irrigation applications are based on flow measuring devices. Recordkeeping on a computer program or paper copies, and calculations for paper copies are made by hand.

**NOTE: Scenarios 3-6.** Intermediate IWM involves determining soil moisture using in-field moisture sensors, one set (2 sensors) per 20 acres, 3 sets maximum, sensors are read with a manual soil moisture meter, report irrigation applications based on a flow measuring device, record on a computer program.

**NOTE: Scenarios 7-10.** Advanced IWM includes determining soil moisture by automated soil moisture monitoring stations equipped with wireless telemetry data (soil sensors include one Node (2 sensors) per 20 acres, 3 Nodes maximum), Nodes may be equipped with rain gauge and temperature sensor. Irrigation amounts based on the flow meter, soil moisture is telemetry data is automatically sent to a data logger which is transmitted wirelessly to a smart phone and/or computer with irrigation software.

**ASSOCIATED PRACTICES:**

Irrigation System, Micro-Irrigation (Code 441)

Nutrient Management (Code 590)

Sprinkler System (Code 442)

Structure for Water Control (Code 587)

# SECTION I

## 118 IRRIGATION WATER MANAGEMENT

ID UNITS: Number

Scenarios:

1. Develop an irrigation water management plan on all irrigated crop acres.

General EQIP	EQIP-HU
\$2,464.00 each	\$2,956.80 each

**NOTE:** After EQIP contract approval, participant must obtain services from a certified TSP for develop of the "Irrigation Water Management" Conservation Activity Plan (CAP) to control the volume, frequency, and rate of water for efficient irrigation and to address other resource concerns. The CAP criteria requires the plan to meet quality criteria for applicable resource concerns. The CAP plan may include recommendations for associated conservation practices which address other related resource concerns. CAP meets the basic quality criteria for the 118 plan as cited in the NRCS FOTG.

# SECTION I

## 670 LIGHTING SYSTEM IMPROVEMENT

ID UNITS: Each

PRACTICE LIFESPAN: 10

Scenarios:

1. Lighting-CFL, install dimmable CFLs replacing incandescent lamps on a one-for-one basis.

General EQIP	EQIP-HU
\$13.67 each	\$16.40 each

2. Lighting-LED, install dimmable LEDs replacing incandescent lamps on a one-for-one basis.

General EQIP	EQIP-HU
\$17.48 each	\$20.98 each

3. Lighting-Linear Florescent, replacing incandescent with high-efficiency T8 florescent lamps.

General EQIP	EQIP-HU
\$257.44 each	\$308.92 each

4. Lighting-Pulse Start Metal Halide (PSMH), with a matched ballast or LED equivalent fixture replacing inefficient high-bay or exterior lighting.

General EQIP	EQIP-HU
\$23.63 each	\$28.35 each

**NOTE: All Scenarios.** An Agricultural Energy Management Plan (CAP 128) is required by a registered TSP or an outside energy audit is required that meets the requirements of ASABE S612.

**NOTE: All Scenarios.** Must be approved by **State Conservation Engineer** prior to contracting the practice.

# SECTION I

## 770 LIVESTOCK CONFINEMENT FACILITY

ID UNITS: Feet

PRACTICE LIFESPAN: 10

Scenarios:

1. Livestock Facility Fence, Perimeter fence only, includes installation of posts, gates, wire, cable, wood or steel panels.

General EQIP	EQIP-HU
\$14.07 per foot	\$21.10 per foot

**NOTE:** Perimeter and/or length for livestock facility fence payment is limited to 400 square feet per animal.

**NOTE:** Under EQIP, this practice is only available in situations where an AFO or CAFO is being re-located, or re-organized to direct runoff to storage or treatment areas.

**NOTE:** The cost for interior watering facilities is limited to one watering facility per 150 head. Other interior appurtenances, including fences, are NOT eligible for cost-share practice payment.

**NOTE:** Used materials that are certified by a qualified NRCS employee stating that the material will meet the practice life span of 10 years are NOT subject to the 50 percent cost-share reduction for used materials.

**NOTE:** A practice payment is authorized for feedlot relocation, with the following provisions:

- a. The following statement shall be included in the EQIP design drawings and Operation and Maintenance Plan: "As a condition of EQIP providing a practice payment on feedlot relocation, the producer agrees to permanently eliminate all animals and associated corrals, feedlot facilities, and designated pollution sources at the existing facility. Failure to comply with this provision may result in a recovery of federal cost-share funds."

**ASSOCIATED PRACTICES:**

- Heavy Use Area Protection (Code 561)
- Nutrient Management (Code 590)
- Livestock Pipeline (Code 516)
- Obstruction Removal (Code 500)
- Precision Land Forming (Code 462)
- Waste Facility Closure (360)
- Watering Facility (Code 614)
- All other waste management practices

# SECTION I

## 516 LIVESTOCK PIPELINE

ID UNITS: Foot

PRACTICE LIFESPAN: 20

Scenarios:

1. PVC/IPS/HDPE/PE, Iron Pipe Size and Tubing, burial 30 inches or less, includes all appurtenances.

General EQIP	EQIP-HU
\$0.86 per foot	\$1.03 per foot

2. Surface HDPE/PE, Iron Pipe Size and Tubing, on-ground installation, includes all appurtenances.

General EQIP	EQIP-HU
\$0.77 per foot	\$1.07 per foot

3. Steel, Iron Pipe Size, burial 30 inches or less, includes all appurtenances.

General EQIP	EQIP-HU
\$4.79 per foot	\$5.74 per foot

4. Surface Steel, Iron Pipe Size, on-ground installation, includes all appurtenances.

General EQIP	EQIP-HU
\$3.75 per foot	\$4.50 per foot

5. PVC/IPS/HDPE/PE, frost free burial 5 feet or more, includes all appurtenances.

General EQIP	EQIP-HU
\$1.82 per foot	\$2.19 per foot

6. Adverse Condition, HDPE/PE (Iron Pipe Size and Tubing), below ground AND below frost line; frost free burial 5 feet or more, includes all appurtenances.

General EQIP	EQIP-HU
\$4.62 per foot	\$5.55 per foot

7. Horizontal Boring, with HDPE pipe frost free burial 5 feet or more.

General EQIP	EQIP-HU
\$46.11 per foot	\$55.33 per foot

**NOTE:** Appurtenances include: fittings, anchors, thrust blocks, gate valves, air release valves, drain valve, pressure relief valve, pressure reducers, and flow control valves are included in the cost of pipe material.

**NOTE:** Water developments on cropland are not eligible for a practice payment unless all of the following conditions are met:

- a. Cropland is seeded to pasture or rangeland.
- b. The request for cost-share is submitted to the **State Resource Conservationist** for approval. The soil loss tolerance for the breakout and establishment period must be equal to or less than T. The plan must also include Prescribed Grazing (Code 528) on the entire Conservation Management Unit including the cropland that is seeded to pasture or rangeland.
- c. No grazing from the date of seeding for at least two consecutive growing seasons (April 15 to October 1), or longer if the seeding is not well established at the end of two years.

**NOTE:** **Scenario 6.** Can also be used with Scenario 5, where bedrock, boulders, and steep slopes exist.

**NOTE:** **Scenario 7.** Add to any other component where horizontal boring is needed. Footage based on actual horizontal boring length only.

**ASSOCIATED PRACTICES:**

- Critical Area Planting (Code 342)
- Pumping Plant (Code 533)
- Spring Development (Code 574)
- Watering Facility (Code 614)

# SECTION I

## 576 LIVESTOCK SHELTER STRUCTURE

ID UNITS: Foot

PRACTICE LIFESPAN: 10

Scenarios:

1. Portable Fabricated Wind Shelter, less than or equal to 8 feet, installed to provide protection to livestock from harsh winter weather and wind.

General EQIP	EQIP-HU
\$22.41 per foot	\$26.89 per foot

2. Portable Fabricated Wind Shelter, more than 8 feet, installed to provide protection to livestock from harsh winter weather and wind.

General EQIP	EQIP-HU
\$30.91 per foot	\$37.09 per foot

3. Permanent Fabricated Wind Shelter, installed to provide protection to livestock from harsh winter weather and wind.

General EQIP	EQIP-HU
\$25.70 per foot	\$30.84 per foot

**NOTE: Scenarios 1-2.** Payment is limited to the two available drawings for construction of the 7.5 and 9.5 foot heights or pre-approved commercial models that have been analyzed and approved by the NRCS Area Engineer as meeting the Heavy Use Area Protection (Code 561) standard.

**NOTE: Scenarios 1-3.** Used materials that are certified by a qualified NRCS employee stating that the material will meet the practice life span of 10 years are not subject to the 50 percent cost-share reduction for used materials. These practices are eligible for payment only when there is an environmental benefit versus a production benefit; for example, a wind shelter as a part of a feedlot that has been moved out of an environmentally sensitive area.

**NOTE: Scenarios 1-3.** The maximum protected area to be contracted shall be limited to 50 square feet per animal for the number of animals protected. The protected area for straight line shelters shall be calculated by multiplying (shelter length x 0.85) x (5 x shelter height). See Figure A of the practice standard.

# SECTION I

## 484 MULCHING

ID UNITS: Acres or Square Foot

PRACTICE LIFESPAN: 1

Scenarios:

1. Natural Material - Full Coverage, application of straw or other state approved natural material to reduce erosion and facilitate establishment of vegetation.

General EQIP	EQIP-HU
\$89.93 per acre	\$107.92 per acre

2. Erosion Control Blanket, short term, used on steep slopes, grassed waterways, or diversions.

General EQIP	EQIP-HU
\$0.04 per square foot	\$0.07 per square foot

3. Erosion Control Blanket, permanent, used on steep slopes, grassed waterways or diversions.

General EQIP	EQIP-HU
\$0.31 per square foot	\$0.62 per square foot

4. Tree and Shrub, weed barrier fabric for tree and shrub establishment.

General EQIP	EQIP-HU
\$0.20 per square foot	\$0.24 per square foot

5. Application of peat moss around trees in orchards/vineyard.

General EQIP	EQIP-HU
\$1,484.91 per acre	\$1,781.89 per acre

**NOTE: Scenarios 1-2.** Used in conjunction with practice Critical Area Planting (Code 342).

**NOTE: Scenario 5.** A nutrient management plan must be implemented.

# SECTION I

## 590 NUTRIENT MANAGEMENT

ID UNITS: Acres or Each

PRACTICE LIFESPAN: 1

Scenarios:

1. Basic Nutrient Management System, conventional nutrient management system to include soil testing, and/or consultant services in order to develop an annual nutrient management budget that documents the nutrients applied (commercial fertilizer, etc.,) minimize nutrient runoff and leaching.

General EQIP	EQIP-HU
\$6.21 per acre year 1	\$9.03 per acre year 1
\$3.11 per acre years 2 and 3	\$4.52 per acre years 2 and 3

2. Manure Nutrient Management System, organic or manure nutrient management system to include soil testing, manure and/or compost analysis and/or consultant services in order to develop an annual nutrient management budget that documents the nutrients applied (commercial fertilizer, manure, compost, etc.,) minimize nutrient runoff and leaching.

General EQIP	EQIP-HU
\$8.06 per acre	\$11.73 per acre
\$4.03 per acre, years 2 and 3	\$5.87 per acre, years 2 and 3

3. Small Farm/Diversified – Truck Farms, market gardens, seasonal high tunnels, orchards, CSA's (Community Supported Agriculture) where numerous variable crops are grown on small acreages, usually between .25 to 10 acres, organic or conventional, use soil tests, crop rotations, and animal wastes to improve the annual nutrient budget as well as post-harvest soil testing. Documentation includes annual soil tests, analysis, amount of application, forms, and rates of nutrients for each crop block.

General EQIP	EQIP-HU
\$307.05 each	\$434.99 each

4. Advanced Nutrient Management Precision System on cropland, setting up zones using Electrical Conductivity (EC) Survey, satellite imagery, high definition aerial photography, grid soil sampling or real time NDVI (normalized differenced vegetative index) sensing. Includes zone soil sampling and variable application rate (prescription) for each zone. Applications of nutrients are completed using a GPS-guided variable rate fertilizer applicator. Soil testing is completed annually and yield monitor maps will be used to develop the following year nutrient applications, **yield monitoring and digital maps are required.**

General EQIP	EQIP-HU
\$33.68 per acre year 1	\$40.41 per acre year 1
\$16.84 per acre for year 2 and 3	\$20.21 per acre years 2 and 3

5. Adaptive NM Research – Implementation of nutrient management on farm research plots, consisting of a minimum of four replicated plots designed, laid out, managed, and evaluated with the assistance of a certified TSP or qualified agency in order to evaluate, identify, and implement various nutrient use efficiency improvement methods for timing, rate, method of application, or source of nutrients.

General EQIP	EQIP-HU
\$719.31 each	\$863.18 each

**NOTE: All Scenarios.** The minimum soil test analysis must be for a 0-6" and 6-24" profile depths for cropland and 0-12" profile depth for pasture and hayland. The 0-6" or 0-12" sample analysis must include NO<sub>3</sub> (Nitrate), Phosphorus, Potassium, Organic Matter (OM), pH, and Electro Conductivity (EC) and 6-24" sample must include NO<sub>3</sub> (Nitrate). Soil sampling locations should be GPS referenced for consistency from year-to-year.

**NOTE: All Scenarios.** Nutrients will be applied based on estimated crop yields, soil analysis results and MSU Fertilizer guidelines.

**NOTE: Scenarios 1-2.** The number of soil sub-samples should be based on MSU Extension MontGuide MT200803AG which is 20 sub-samples per 80-acre field.

**NOTE: Scenarios 1.** Practice payment is limited to three years and capped at \$4,515 per contract.

**NOTE: Scenarios 2.** Practice payment is limited to three years and capped at \$5,865 per contract.

# SECTION I

## TECHNICAL GUIDE

- NOTE: Scenarios 4.** Practice payment is limited to three years and capped at \$20,205 per contract.
- NOTE: Scenario 3.** Payable for a maximum of three years with a soil test required for each crop or management unit under EQIP.
- NOTE: Scenario 4.** Producers using variable rate application of fertilizer for the first time should keep their current cropping system the same. Changing cropping systems (crop fallow to re-crop) will not enable a fair comparison between the two methods of fertilizer application because of the potential for reduced yields due to moisture availability on re-crop acres. A soil test (within the last 12 months) must show a nutrient need that will allow a variable rate application of at least one nutrient, generally nitrogen or phosphorus.
- NOTE: Scenario 5.** Adaptive Nutrient Management must be approved by **State Resource Conservationist**.

# SECTION I

## 104 NUTRIENT MANAGEMENT PLAN

ID UNITS: Number

Scenarios:

1. Develop a Nutrient Management Conservation Activity Plan, (Not part of CNMP) on less than 100 acres.

General EQIP	EQIP-HU
\$1,740.99 each	\$2,089.19 each

2. Develop a Nutrient Management Conservation Activity Plan, (Element of CNMP) on less than 100 acres.

General EQIP	EQIP-HU
\$2,901.65 each	\$3,481.99 each

3. Develop a Nutrient Management Conservation Activity Plan, (Element of CNMP) on 101 - 300 acres.

General EQIP	EQIP-HU
\$4,062.32 each	\$4,874.78 each

4. Develop a Nutrient Management Conservation Activity Plan, (Not part of CNMP) on 101 - 300 acres.

General EQIP	EQIP-HU
\$2,321.32 each	\$2,785.59 each

5. Develop a Nutrient Management Conservation Activity Plan, (Not part of CNMP) on greater than 300 acres.

General EQIP	EQIP-HU
\$2,901.65 each	\$3,481.99 each

6. Develop a Nutrient Management Conservation Activity Plan, (Element of CNMP) on greater than 300 acres.

General EQIP	EQIP-HU
\$4,932.81 each	\$5,919.38 each

**NOTE:** After EQIP contract approval, participant must obtain services from a certified TSP for develop of the "Nutrient Management Plan" Conservation Activity Plan (CAP). The CAP criteria requires the plan to meet quality criteria for the primary Water Quality resource concern and other applicable resource concerns and provides for opportunities to manage nutrients for plant production and address offsite movement of nutrients. The CAP plan may include recommendations for associated conservation practices which address other related resource concerns. CAP meets the basic quality criteria for the 104 plan as cited in Section III of the NRCS FOTG.

# SECTION I

## 500 OBSTRUCTION REMOVAL

ID UNITS: Feet, Square Feet

PRACTICE LIFESPAN: 10

Scenarios:

1. Removal and disposal of fence by demolition, excavation, or other means, where the fence interferes with planned land use development, public safety, wildlife movement and habitat or infrastructure.

General EQIP	EQIP-HU
\$0.23 per linear foot	\$0.46 per linear foot

2. Removal and disposal of steel and or concrete structures by demolition, excavation, or other means, where the obstruction interferes with planned land use development, public safety or infrastructure.

General EQIP	EQIP-HU
\$11.38 per square foot	\$13.66 per square foot

3. Removal and disposal of wood structures by demolition, excavation, or other means, where the obstruction interferes with planned land use development, public safety or infrastructure.

General EQIP	EQIP-HU
\$5.92 per square foot	\$7.10 per square foot

4. Feedlot Fence Removal and disposal or salvage in an animal feeding facility on any land where the obstruction interferes with planned land use development, water quality, or public safety.

General EQIP	EQIP-HU
\$5.47 per foot	\$6.56 per foot

5. Shed and Barn Removal and disposal by demolition, excavation and burial or other means required. Shed and barn structure removal will address the resource concerns that will prevent or hinder the installation of conservation practices or present a hazard to their use.

General EQIP	EQIP-HU
\$2.40 per square foot	\$2.88 per square foot

**NOTE: All Scenarios.** This is not intended for the removal of obstructions from aquatic environments. Use Aquatic Organism Passage (Code 396) for removal of obstructions from aquatic environments.

**NOTE: Scenario 1.** Available for a practice payment in Sage Grouse core areas or Sage Grouse Habitat.

**NOTE: Scenarios 1-3.** Use Critical Area Planting (Code 342), if seedbed prep, seeding, and mulching is necessary after the removal process.

**NOTE: Scenarios 2-3.** Square footage is defined on a plan view basis and includes the area impeded by the obstruction.

**NOTE: Scenarios 2-3 and 5.** Cultural resources are program neutral. The cultural resource review process will be completed prior to removing any structure (cabin, shed, headgate, etc.) or disturbing the ground.

**NOTE: Scenario 4.** Use Critical Area Planting (Code 342), as well as Precision Land Forming (Code 462).

# SECTION I

## 319 ON-FARM SECONDARY CONTAINMENT FACILITY

ID UNITS: Cubic Yard, Gallon, Square Foot

PRACTICE LIFESPAN: 10

Scenarios:

1. Double Wall Tank, replacement of an existing single wall fuel storage tank.

General EQIP	EQIP-HU
\$0.97 per gallon	\$1.16 per gallon

2. Earthen Containment, includes construction of an earthen containment wall with a flexible membrane liner around an existing tank.

General EQIP	EQIP-HU
\$34.97 per cubic yard	\$41.97 per cubic yard

3. Corrugated Metal Wall Containment, includes installation of a corrugated metal ring containment with a flexible membrane liner around an existing storage tank.

General EQIP	EQIP-HU
\$20.41 per square foot	\$24.49 per square foot

4. Concrete Containment Wall, includes installation of a reinforced concrete wall containment with a concrete slab around an existing storage tank.

General EQIP	EQIP-HU
\$654.30 per cubic yard	\$905.96 per cubic yard

5. Modular Block Containment Wall, includes installation of a modular block concrete wall containment with a flexible membrane liner over a 6-inch concrete floor.

General EQIP	EQIP-HU
\$21.67 per square foot	\$26.01 per square foot

**NOTE: All Scenarios.** If the aggregate aboveground oil/fuel storage is greater than 6,000 gal, the landowner is required to fill-out and self-certify a template SPCC Plan (i.e. emergency action plan for spills). Plans must be posted at the facility. If an individual tank is greater than 10,000 gal or the aggregate aboveground oil storage is greater than 20,000 gal, the landowner must have a licensed Professional Engineer complete and certify the SPCC Plan. SPCC plans are required under Federal regulation 40 CFR Part 112. Costs associated with the development of this plan are at the landowner's expense.

# SECTION I

## 582 OPEN CHANNEL

ID UNITS: Cubic Yard

PRACTICE LIFESPAN: 15

Scenarios:

1. Excavation, Normal conditions, location is easily accessible from a main road, soils do not have large rock or difficult clay to excavate.

General EQIP	EQIP-HU
\$1.35 per cubic yard	\$2.02 per cubic yard

2. Excavation, Difficult conditions, location requires a significant drive off the main road, soils have large rock or difficult clay to excavate.

General EQIP	EQIP-HU
\$1.82 per cubic yard	\$2.73 per cubic yard

3. Excavation and Fill, Normal Conditions, excavation and fill are required.

General EQIP	EQIP-HU
\$3.67 per excavated cubic yard	\$5.50 per excavated cubic yard

4. Excavation and Fill, Difficult Conditions, excavation and fill are required.

General EQIP	EQIP-HU
\$4.14 per excavated cubic yard	\$6.21 per excavated cubic yard

5. Bankfull Channel Flow, less than 50 cubic feet per second.

General EQIP	EQIP-HU
\$4.11 per linear foot	\$6.16 per linear foot

**NOTE: All Scenarios.** This practice is used for the restoration of a natural or artificial channel to improve the process and ecological function in a degraded and eroding stream.

**NOTE: All Scenarios.** Bank stabilization measures shall be contracted using Streambank and Shoreline Protection (Code 580).

**NOTE: All Scenarios.** Bed stabilization measures shall be contracted using Channel Bed Stabilization (Code 584).

**NOTE: All Scenarios.** Stream channel restoration projects must be pre-approved by State Office (Programs, Technology, and Engineering), prior to contracting.

**NOTE: All Scenarios.** For Fencing, use separate CI for practice Fence (Code 382).

### ASSOCIATED PRACTICES:

- Channel Bed Stabilization (Code 584)
- Dike (Code 356)
- Pumping Plant (Code 533)
- Stream Crossing (Code 578)
- Streambank and Shoreline Protection (Code 580)
- Structure for Water Control (Code 587)

# SECTION I

## 146 POLLINATOR HABITAT ENHANCEMENT PLAN

ID UNITS: Number

Scenarios:

1. Pollinator CAP

General EQIP	EQIP-HU
\$2,510.43 each	\$3,012.51 each

2. Pollinator CAP, Non-Local

General EQIP	EQIP-HU
\$3,646.10 each	\$4,375.31 each

**NOTE:** After EQIP contract approval, participant must obtain services from a certified TSP for development of the "Pollinator Habitat Enhancement Plan" Conservation Activity Plan (CAP). The CAP criteria requires the plan to meet quality criteria for applicable resource concerns and provides for opportunities to implement a system of conservation practices which assist the producer to improve, restore, enhance, or expand a flower-rich habitat that supports native and/or managed pollinators. The CAP plan may include recommendations for associated conservation practices which address related resource concerns. CAP meets the basic quality criteria for the 146 plan as cited in Section III of the NRCS FOTG.

# SECTION I

## 378 POND

ID UNITS: Cubic Yard

PRACTICE LIFESPAN: 20

Scenarios:

1. Excavated Pit, creating a low-hazard water impoundment to provide water for livestock and/or wildlife.

General EQIP	EQIP-HU
\$3.05 per cubic yard	\$3.66 per cubic yard

2. Embankment Pond with Pipe, creating a water impoundment structure by constructing an earthen embankment with an earthen auxiliary spillway for livestock and/or wildlife.

General EQIP	EQIP-HU
\$3.31 per cubic yard	\$4.96 per cubic yard

**NOTE: All Scenarios.** This practice is not to be used for the specific purpose of developing wildlife habitat.

**NOTE: All Scenarios.** For Seeding, use separate CI for practice Critical Area Planting (Code 342). For Fencing, use separate CI for practice Fence (Code 382).

**ASSOCIATED PRACTICES:**

- Aquatic Organism Passage (Code 396)
- Critical Area Planting (Code 342)
- Fence (Code 382)
- Livestock Pipeline (Code 516)
- Pond Sealing or Lining, Flexible Membrane (Code 521A)
- Pumping Plant (Code 533)
- Watering Facility (Code 614)

# SECTION I

## 521C POND SEALING OR LINING, BENTONITE TREATMENT

ID UNITS: Square Foot

PRACTICE LIFESPAN: 15

Scenarios:

1. Construction of a compacted soil liner, treated with bentonite.

General EQIP	EQIP-HU
\$0.28 per square foot	\$0.42 per square foot

**NOTE:** Costs for liner installations include over-excavation required for liner volume, placement of liner, and earthen cover, when required.

**NOTE:** Costs do not include pond construction.

**NOTE:** Payment is based on the finished, lined surface area of pond.

**ASSOCIATED PRACTICES:**

Pond (Code 378)

Waste Storage Facility (Code 313)

# SECTION I

## 521D POND SEALING OR LINING, COMPACTED CLAY TREATMENT

ID UNITS: Cubic Yards

PRACTICE LIFESPAN: 10

Scenarios:

1. Construction of a compacted clay liner.

General EQIP	EQIP-HU
\$9.36 per cubic yard	\$11.24 per cubic yard

**NOTE:** Costs do not include pond construction.

**ASSOCIATED PRACTICES:**

Pond (Code 378)

Waste Storage Facility (Code 313)

# SECTION I

## 521A POND SEALING OR LINING, FLEXIBLE MEMBRANE

ID UNITS: Square Yards  
PRACTICE LIFESPAN: 20

Scenarios:

1. Flexible Membrane-Uncovered, installation of a flexible geosynthetic membrane liner to reduce seepage from ponds or waste storage impoundments.

General EQIP	EQIP-HU
\$7.58 per square yard	\$11.03 per square yard

2. Flexible Membrane-Covered, installation of a flexible geosynthetic membrane liner or geosynthetic clay liner (GCL) to reduce seepage from ponds or waste storage impoundments, includes 1 foot of soil cover.

General EQIP	EQIP-HU
\$11.25 per square yard	\$13.50 per square yard

**NOTE: All Scenarios.** Costs for flexible geomembrane installations (not GCL) include an 8 ounce geotextile underlayment and when covered, screening of cover material to 3/8-inch minus.

**NOTE: All Scenarios.** Costs do not include pond construction.

**NOTE: All Scenarios.** Payment is based on the total area covered by the liner including the anchor trench.

**NOTE: All Scenarios.** Costs include subgrade preparation of shaping and grading, rolling with a smooth drum roller, and over-excavation as required for liner placement. When covered, costs include placement of cover material with a tele-belt or shooter truck.

**ASSOCIATED PRACTICES:**

Pond (Code 378)

Waste Storage Facility (Code 313)

# SECTION I

## 462 PRECISION LAND FORMING

ID UNITS: Acre

PRACTICE LIFESPAN: 10

Scenarios:

1. Minor Shaping.

General EQIP	EQIP-HU
\$2,229.52 per acre	\$2,675.42 per acre

2. Shaping within existing Animal Confinement Lot.

General EQIP	EQIP-HU
\$3,312.70 per acre	\$3,975.24 per acre

3. Shaping a new feedlot or relocation of an existing feedlot to a new area.

General EQIP	EQIP-HU
\$3,245.81 per acre	\$3,894.98 per acre

**NOTE:** This practice is for the purpose of directing and conveying lot runoff to a storage or vegetative treatment area.

# SECTION I

## 338 PRESCRIBED BURNING

ID UNITS: Acre

PRACTICE LIFESPAN: 1

Scenarios:

1. Understory Burn, litter, debris, and slash are consumed, small seedlings may be killed during active burning.

General EQIP	EQIP-HU
\$91.74 per acre	\$110.08 per acre

2. Site Preparation, the area to be planted has been burned to remove grass, reduce competing brush, and downed slash from forestry activities.

General EQIP	EQIP-HU
\$25.19 per acre	\$30.23 per acre

3. Level Terrain, Herbaceous Fuel less than 640 acres, for controlling undesirable species, improve wildlife habitat, grazing distribution, etc., on areas with less than 15 percent slope, with no volatile fuels.

General EQIP	EQIP-HU
\$9.66 per acre	\$11.59 per acre

4. Level Terrain, Volatile fuels, less than 4 feet tall and less than 640 acres, herbaceous and low volatile woody fuels less than 4 feet tall and on slopes less than 15 percent.

General EQIP	EQIP-HU
\$13.61 per acre	\$16.34 per acre

# SECTION I

## 112 PRESCRIBED BURNING PLAN

ID UNITS: Number

Scenarios:

1. Prescribed Burning, 1 - 20 acres.

General EQIP	EQIP-HU
\$280.50 each	\$336.50 each

2. Prescribed Burning, 21 - 100 acres.

General EQIP	EQIP-HU
\$448.80 each	\$538.56 each

3. Prescribed Burning, 101 - 250 acres.

General EQIP	EQIP-HU
\$673.20 each	\$807.84 each

4. Prescribed Burning, 251 - 500 acres.

General EQIP	EQIP-HU
\$897.60 each	\$1,077.12 each

5. Prescribed Burning, 501 - 1,000 acres.

General EQIP	EQIP-HU
\$1,122.00 each	\$1,346.40 each

6. Prescribed Burning, > 1,000 acres.

General EQIP	EQIP-HU
\$1,346.40 each	\$1,615.68 each

**NOTE:** After EQIP contract approval, participant must obtain services from a certified TSP for development of the "Prescribed Burning" Conservation Activity Plan (CAP). The CAP criteria requires the plan to meet quality criteria for applicable resource concerns and provides for opportunities to implement a system of conservation practices which assist the producer to improve, restore, enhance, or expand a flower rich habitat that supports native and/or managed pollinators. The CAP plan may include recommendations for associated conservation practices which address related resource concerns. CAP meets the basic quality criteria for the 112 plan as cited in Section III of the NRCS FOTG.

# SECTION I

## 528 PRESCRIBED GRAZING

ID UNITS: Acres

PRACTICE LIFESPAN: 1

Scenarios:

1. Range Standard, 80 - 1,500 acres, design and implementation of a grazing system through multiple units.

General EQIP	EQIP-HU
\$1.38 per acre	\$1.65 per acre

2. Range Standard, 1,501 - 10,000 acres, design and implementation of a grazing system through multiple units.

General EQIP	EQIP-HU
\$0.60 per acre	\$0.73 per acre

3. Range Standard, more than 10,000 acres, design and implementation of a grazing system through multiple units.

General EQIP	EQIP-HU
\$0.29 per acre	\$0.35 per acre

4. Habitat Management Standard, development and implementation of a grazing schedule that will enhance habitat scenarios for the identified species of concern.

General EQIP	EQIP-HU
\$2.24 per acre	\$2.69 per acre

5. Habitat Management, Rest Rotation, development and implementation of a grazing schedule that will enhance habitat scenarios for the identified species of concern, a portion of the acres, (minimum of 20 percent suitable habitat for Sage Grouse Initiative) will be deferred or rested during periods of critical wildlife use.

General EQIP	EQIP-HU
\$5.68 per acre	\$6.62 per acre

**EXAMPLE:** The unit consists of a total of 1,000 acres of which 500 acres is nesting habitat as identified during the inventory process. The unit has five pastures; Field 1=200, Field 2=120, Field 3=300, Field 4=85, Field 5=295. The rest option would have to include pastures that have a minimum of 100 acres of nest habitat in them, (500 acres x 20 percent = 100 acres) and pasture 4 would have to be combined with another pasture to fit the criteria. The grazing payment for this contract would be; if Field 1 was rested, then 200 acres x \$5.68 per acre and 800 acres x \$2.24 per acre.

6. Pasture, Standard, design and implementation of a grazing system through multiple units that will enhance pasture condition and ecosystem function.

General EQIP	EQIP-HU
\$3.41 per acre	\$5.12 per acre

7. Pasture, Small Acreage, ≤ 80 acres, Moderate Grazing, design and implementation of a grazing system with multiple paddocks with livestock rotated at least every 14 days.

General EQIP	EQIP-HU
\$22.53 per acre	\$33.79 per acre

8. Pasture, Small Acreage, ≤ 80 acres, Intensive Grazing, design and implementation of a grazing system with multiple paddocks with livestock rotated at least every three days.

General EQIP	EQIP-HU
\$39.02 per acre	\$58.52 per acre

9. Pasture, Large Acreage, ≥ 80 acres, Moderate Grazing, design and implementation of a grazing system with multiple paddocks with livestock rotated at least every 14 days.

General EQIP	EQIP-HU
\$10.29 per acre	\$15.43 per acre

Note: Grazing under the **Honey Bee Pollinator Initiative** can only be grazed after the late bloom period is completed. (Scenario 4)

# SECTION I

10. Pasture, Large Acreage,  $\geq$  80 acres, Intensive Grazing, design and implementation of a grazing system with multiple paddocks with livestock rotated at least every three days.

General EQIP	EQIP-HU
\$19.51 per acre	\$29.27 per acre

11. Deferred Grazing.

General EQIP	EQIP-HU
\$5.33 per acre	\$5.43 per acre

**NOTE:** The website for determining “species of concern” can be found at:  
<http://fwp.mt.gov/fishAndWildlife/species/speciesOfConcern/>

**NOTE:** **Scenarios 1 - 10.** No maximum acres.

**NOTE:** **Scenarios 1-4 and 6-10.** This payment applies to tame and native grazing lands only, where a prescribed grazing system is planned and implemented for a Conservation Management Unit (CMU). A CMU on rangeland or pasture will consist of fields where the grazing will occur by a group of animals (distinctive herd). These scenarios must be contracted for three years to receive the payment.

**NOTE:** **Scenario 11.** For one year, will be **capped at 50 percent.**

**NOTE:** **Scenario 11.** For one or two years of deferred grazing, typically after a natural disaster such as fire or flood.

# SECTION I

## 533 PUMPING PLANT

ID UNITS: Brake Horse Power or Feet or Each or Inches

PRACTICE LIFESPAN: 15

Scenarios:

1. Electric-Powered Pump less than or equal to 3 Horse Power, submersible electric-powered pump installed in a well or structure; or a closed-coupled electric powered centrifugal pump mounted on a platform; used for watering livestock, pressurizing a small irrigation system or for transferring liquid waste in a waste transfer system.

General EQIP	EQIP-HU
\$1,309.34 per horse power	\$1,571.21 per horse power

2. Electric-Powered Pump less than or equal to 3 Horse Power with Pressure Tank, a submersible electric-powered pump installed in a well or structure; or a closed-coupled electric-powered centrifugal pump mounted on a platform; used for watering livestock, pressurizing a small irrigation system.

General EQIP	EQIP-HU
\$2,072.81 per horse power	\$2,665.05 per horse power

3. Electric-Powered Pump greater than 3 to 10 Horse Power, a close-coupled electric centrifugal pump mounted on a platform, used for a large high-pressure livestock pipeline or for pressurizing a medium-sized irrigation system, or a medium-sized waste transfer system.

General EQIP	EQIP-HU
\$445.76 per horse power	\$673.19 per horse power

4. Electric-Powered Pump greater than 10 to 30 Horse Power, a close-coupled, 3-phase electric centrifugal pump mounted on a platform for pressurizing a medium-sized sprinkler or large micro-irrigation system or a large-sized surface irrigation system or a large-sized waste transfer system.

General EQIP	EQIP-HU
\$184.96 per horse power	\$283.35 per horse power

5. Electric-Powered Pump greater than 30 Horse Power, a close-coupled, 3-phase, electric centrifugal pump mounted on a platform for pressuring a large-sized sprinkler or a very large micro-irrigation system, or a very large surface irrigation system or a very large-sized waste transfer system.

General EQIP	EQIP-HU
\$123.90 per horse power	\$189.80 per horse power

6. Variable Frequency Drive, installation of electrical and electronic scenarios designed to vary the frequency of the voltage to an electric motor.

General EQIP	EQIP-HU
\$124.63 per horse power	\$186.95 per horse power

7. Internal Combustion-Powered Pumps less than or equal to 7.5 Horse Power, installation of a pump in an existing irrigation system on cropland or using a pump for silage leachate, barnyard runoff, and milk house waste (as part of a waste transfer system) at the farm headquarters.

General EQIP	EQIP-HU
\$376.78 per horse power	\$565.17 per horse power

8. Internal Combustion-Powered Pumps greater than 7.5 Horse Power to 75 Horse Power, installation of a pump in an existing irrigation system on cropland, or using a pump for silage leachate, barnyard runoff, and milk house waste (as part of a waste transfer system) at the farm headquarters.

General EQIP	EQIP-HU
\$331.18 per horse power	\$496.76 per horse power

9. Internal Combustion-Powered Pumps greater than 75 Horse Power, installation of a pump in an existing irrigation system on cropland or using a pump for silage leachate, barnyard runoff, and milk house waste (as part of a waste transfer system) at the farm headquarters.

General EQIP	EQIP-HU
\$200.04 per horse power	\$300.06 per horse power

# SECTION I

## TECHNICAL GUIDE

10. Tractor Power Take-Off (PTO) pump, used to transfer water for an irrigation system from a pond to cropland or to transfer semi-solid/liquid manure from a Waste Storage Facility.

General EQIP	EQIP-HU
\$137.32 per horse power	\$164.78 per horse power

11. Lagoon Power Take-Off (PTO), used to transfer water from an earthen semi-solid/liquid manure waste storage pond.

General EQIP	EQIP-HU
\$7,336.00 each	\$11,003.99 each

12. Windmill-Powered Pump, to supply reliable water to livestock and/or wildlife, includes the tower, concrete footings, wheel blade unit, sucker rod, down pipe, gear box, pump, plumbing, and well head protection concrete pad.

General EQIP	EQIP-HU
\$780.84 per foot diameter of mill wheel	\$937.01 per foot diameter of mill wheel

13. Photovoltaic-Powered Pump or Generator, less than or equal to 250 feet of total head, installation of a submersible solar-powered pump in a well, pond, or live stream. Estimated flow rate of 5 gpm.

General EQIP	EQIP-HU
\$4,437.33 each	\$5,324.80 each

14. Photovoltaic-Powered Pump or Generator, less than or equal to 251 - 400 feet of total head, installation of a submersible solar-powered pump in a well, pond, or live stream. Estimated flow rate of 6 gpm.

General EQIP	EQIP-HU
\$6,909.07 each	\$8,290.88 each

15. Photovoltaic-Powered Pump or Generator, greater than 400 feet of total head, installation of a submersible solar-powered pump in a well, pond, or live stream. Estimated flow rate of 7 gpm.

General EQIP	EQIP-HU
\$9,380.80 each	\$11,256.96 each

16. Water Ram Pump, used to transfer water from a live stream to a watering facility or small irrigation reservoir.

General EQIP	EQIP-HU
\$695.74 per inch of inlet pipe	\$834.89 per inch of inlet pipe

17. Turbine Pump Bowl Replacement, used to pressurize a sprinkler system, micro-irrigation system, or surface system of an existing vertical turbine or submersible pump.

General EQIP	EQIP-HU
\$136.60 per horse power	\$163.92 per horse power

18. Existing Well Pumping Test, used to determine the draw down and yield of a well for the design of the irrigation or stockwater pipelines.

General EQIP	EQIP-HU
\$4,213.72 each	\$5,056.47 each

**NOTE: Submersible pump systems include drop pipe and pitless adaptor.**

**NOTE: All Scenarios.** A practice payment is not available for pumps for use with practice Windbreak/Shelterbelt Establishment (Code 380).

**NOTE: Scenarios 1-10.** All horse power payments based on closest available motor horsepower that matches system requirements.

**NOTE: Scenarios 13-15.** The self-contained, automatic start generator includes pump, generator base unit, trailer, propane tank, and all other appurtenances.

**NOTE: Scenarios 13-15.** Include pump, wiring, drop pipe, solar panels, mounts, inverter, and all appurtenances.

# SECTION I

**NOTE: Scenarios 13-15.** A practice payment for a generator will only be available when reliable electric power is not available (greater than ½-mile away) and solar is not a viable option. The generator provides a minimum of 4,000 watts with un-attended start controls, and trailer-mounted with a propane storage fuel tank. Payment rates for the generator will be based on the feet of total head required.

# SECTION I

## 550 RANGE PLANTING (90-100 percent Native Species)

ID UNITS: Acres

PRACTICE LIFESPAN: 5

Scenarios:

1. Seed and Seeding, Native Species Making Up 90-100 Percent of Mixture, using light to moderate tillage for preparing the seedbed (ripping or heavy disking) then seeding with a no-till drill, range drill, or broadcasting (use of cover crop is optional).

General EQIP	EQIP-HU
\$65.47 per acre	\$77.23 per acre

2. Seed and Seeding Pollinator Species, using moderate to light tillage for preparing the seedbed (ripping and heavy disk), and seeding with a no-till drill, range drill, or broadcasting. A primary tillage operation is needed to prepare the existing cover for seeding, a second or light tillage operation is needed to control weeds, specifically cheat grass, just prior to seeding.

General EQIP	EQIP-HU
\$70.63 per acre	\$82.40 per acre

3. Native, Wildlife, or Pollinator with Foregone Income

General EQIP	EQIP-HU
\$259.05 per acre	\$310.86 per acre

**NOTE: All Scenarios.** Fall and winter grazing will be allowed on Honey bee Initiative contracted acres only after a killing frost.

**NOTE: Scenarios 1-3.** The mixture cannot contain more than five percent non-native legumes.

**NOTE: Scenarios 1-3.** A practice payment will be provided for planting a sequentially blooming planting mix that provides flowering plants throughout the growing season. Mix must be selected from an NRCS-approved list found in Plant Materials Technical Note, MT-46 and Biology Technical Note, MT-20.

**NOTE: Scenario 2. Honey Bee Pollinator Initiative** native seeding mixtures will be comprised of  $\leq$  20% cool/warm season grasses, at least three flowering plant species per bloom period (early, mid, late), with  $\leq$  5% non-native legumes.

**NOTE: Scenario 2-3.** No sod producing or rhizomatous grasses will be included in planting mixtures for the **Honey Bee Pollinator Initiative** contracted acres.

**NOTE: Scenario 3. Limited to the Honey Bee Pollinator Initiative.**

**NOTE: Scenario 3.** To be used when establishing permanent cover on previously tilled cropland.

# SECTION I

## 329 RESIDUE AND TILLAGE MANAGEMENT, NO-TILL

ID UNITS: Acres

PRACTICE LIFESPAN: 1

Scenarios:

1. No-Till, conversion from conventional tilled system to no-till, includes chemical weed control **or** Organic No-Till, conversion from conventional tilled system to no-till, includes weed control on organic cropping systems.

General EQIP	EQIP-HU
\$7.88 per acre	\$12.81 per acre

**NOTE:** Under EQIP a payment is payable for a maximum of three years after the practice is implemented and moves from an alternative conservation system to a basic conservation system or a basic conservation system to a resource management system with the maximum payment of \$12,810 per year. No full width tillage is allowed for the entire rotation. The soil loss tolerance for the entire rotation must be less than T, a STIR rating of 20 or less, and the SCI must be positive for the entire rotation. This payment is limited to annual crop production.

**NOTE:** Applicable on dry land and irrigated cropland. Not applicable on sugar beets or potatoes or crops where the majority of surface area is disturbed during harvest operations.

**NOTE:** A payment cannot be paid for both Residue and Tillage Management and Salinity and Sodic Soil Management on the same acre of land.

# SECTION I

## 345 RESIDUE AND TILLAGE MANAGEMENT, REDUCED TILL

ID UNITS: Acres

PRACTICE LIFESPAN: 1

Scenarios:

1. Mulch Till, Irrigated, managing residue on irrigated acres using strip tillage.

General EQIP	EQIP-HU
\$47.27 per acre	\$56.72 per acre

**NOTE:** Payment for this practice is payable for a **maximum of three years and is limited to a maximum payment of \$11,344 per year** of irrigated land planted to sugar beets and potatoes. Fields can change each year depending upon the rotation but all contracted acres for the entire operation must be included in the contract. Soil loss tolerance for the entire rotation must be less than T, a minimum STIR rating of 80, and the SCI must be positive for the entire rotation. Can be contracted on different acres each year.

# SECTION I

## 643 RESTORATION AND MANAGEMENT OF RARE AND DECLINING HABITATS

ID UNITS: Acre

PRACTICE LIFESPAN: 10

Scenarios:

1. Monitoring Management, High Intensity and Complexity.

General EQIP	EQIP-HU
\$21.75 per acre	\$29.30 per acre

**NOTE:** Restricted to Threatened and Endangered Species Implementation as approved by **State Resource Conservationist and Assistant State Conservationist – Programs.**

# SECTION I

## 391 RIPARIAN FOREST BUFFER

ID UNITS: Each

PRACTICE LIFESPAN: 15

Scenarios:

1. Per Plant Hand Tubes.

General EQIP	EQIP-HU
\$9.84 each	\$11.81 each

2. Per Plant Mechanical Tubes.

General EQIP	EQIP-HU
\$7.64 each	\$9.17 each

**NOTE: Scenario 1.** Establish a buffer of trees/shrubs into a suitably prepared site, adjacent to a watercourse or water body, extending a minimum of 35 feet wide, hand-planted, competing vegetation is controlled (mechanical, chemical, or cultural (fabric)), with tree tubes for preventing animal browse.

**NOTE: Scenario 2.** Establish a buffer of trees/shrubs into a suitably prepared site, adjacent to a watercourse or water body, extending a minimum of 35 feet wide, mechanically-planted, competing vegetation is controlled (mechanical, chemical, or cultural (fabric)), with tree tubes for preventing animal browse.

# SECTION I

## 390 RIPARIAN HERBACEOUS COVER

ID UNITS: Acres

PRACTICE LIFESPAN: 5

Scenarios:

1. Aquatic Wildlife: establishment of an adapted mix of grasses, legumes and or forbs by broadcasting **or** range drill and grasses such as Prairie Cordgrass, sedges, rushes, and/or ferns will be planted using plugs, in areas where the riparian quality or quantity has been compromised by human activities and/or access of vehicles, people, and/or livestock and the NRCS Riparian Assessment Method shows a score of less than 5 for elements 4 and 5.

General EQIP	EQIP-HU
\$3,247.21 per acre	\$3,896.65 per acre

2. Cool Season Grasses with Forbs, establishing a mix of primarily cool season grasses, legumes, and/or forbs by broadcasting and/or no-till or range drill seeding methods.

General EQIP	EQIP-HU
\$707.73 per acre	\$849.28 per acre

3. Native Species, Pollinator Planting.

General EQIP	EQIP-HU
\$390.53 per acre	\$468.63 per acre

4. Native Species, Pollinator Planting with Foregone Income.

General EQIP	EQIP-HU
\$408.53 per acre	\$490.23 per acre

**NOTE: All Scenarios.** For Fencing, use separate CI for practice Fence (Code 382).

**NOTE: All Scenarios.** Fall and winter grazing will be allowed on **Honey Bee Pollinator Initiative** contracted acres only after a killing frost.

**NOTE: All Scenarios. Honey Bee Pollinator Initiative** native seeding mixtures will be comprised of  $\leq$  20% cool/warm season grasses, at least three flowering plant species per bloom period (early, mid, late), with  $\leq$  5% non-native legumes.

**NOTE: All Scenarios.** No sod producing or rhizomatous grasses will be included in planting mixtures for the **Honey Bee Pollinator Initiative** contracted acres.

**NOTE: Scenario 1.** Intended for the wet and saturated areas (wetlands) of the riparian area.

**NOTE: Scenarios 1-2.** The mixture cannot contain more than 5 percent non-native legumes.

**NOTE: Scenario 2-3 and 4.** A practice payment will be provided for planting a sequentially blooming planting mix that provides flowering plants throughout the growing season. Mix must be selected from an NRCS-approved list found in Plant Materials Technical Note, MT-46, Biology Technical Note, MT-20 or the Honey Bee Fact Sheet.

**NOTE: Scenario 3-4.** Scenarios limited to the **Honey Bee Pollinator Initiative**.

**NOTE: Scenario 4.** Foregone income will be used when establishing permanent cover on previously tilled cropland or tame pasture.

# SECTION I

## 558 ROOF RUNOFF STRUCTURE

ID UNITS: Linear Feet

PRACTICE LIFESPAN: 15

Scenarios:

1. 4 - 6 inch Roof Gutter.

General EQIP	EQIP-HU
\$8.14 per linear foot	\$9.76 per linear foot

2. 7 - 9 inch Roof Gutter.

General EQIP	EQIP-HU
\$23.00 per linear foot	\$33.45 per linear foot

3. Concrete Curb.

General EQIP	EQIP-HU
\$8.79 per linear foot of concrete curb	\$13.18 per linear foot concrete curb

4. Trench Drain.

General EQIP	EQIP-HU
\$7.52 per linear foot	\$10.65 per linear foot

**NOTE: Scenarios 1-2.** Include 200 lineal feet of underground outlet.

**NOTE: Scenarios 1-4.** Applicable to roof areas that would otherwise drain into a waste management systems or corral facilities.

**NOTE: Scenario 3.** A concrete curb or parabolic channel. This component is utilized only where the existing surface is concrete or asphalt and no other type of system is feasible. The concrete curb is typically 5 to 6 inches high by 6 to 8 inches wide. The concrete parabolic channel is typically 2 feet wide and 6 inches in depth.

**NOTE: Scenario 4.** An earthen trench lined with geotextile and filled with gravel aggregate. Installation includes placement of a corrugated HDPE pipe within the trench. The trench drain is typically 3 feet wide and 2 feet in depth.

**ASSOCIATED PRACTICES:**

Diversion (Code 362)

Underground Outlet (Code 620) if additional lineal footage is needed

# SECTION I

## 367 ROOFS AND COVERS

ID UNITS: Square Feet

PRACTICE LIFESPAN: 10

Scenarios:

1. Flexible Hoop Roof.

General EQIP	EQIP-HU
\$10.45 per square foot of the building footprint	\$12.54 per square foot of the building footprint

2. Timber or Steel Sheet Roof.

General EQIP	EQIP-HU
\$9.37 per square foot of building footprint	\$11.24 per square foot of the building footprint

3. Flexible Membrane Cover.

General EQIP	EQIP-HU
\$1.64 per square foot of flat surface area at top of pond	\$1.97 per square foot of flat surface area at top of pond

4. Roof with Insulated Building.

General EQIP	EQIP-HU
\$50.68 per square foot of building footprint	\$60.81 per square foot of building footprint

**NOTE: Scenarios 1 - 2.** The application of roof structures to manage feedlot runoff shall be approved by the **State Conservation Engineer** prior to contracting. All livestock should be confined under roof when using these scenarios.

**NOTE: Scenario 1.** Flexible membrane or fabric-like roof placed on steel truss, hoop-like supports with supporting foundation.

**NOTE: Scenario 2.** Timber-framed building with timber or steel sheet roof with supporting foundation.

**NOTE: Scenario 3.** Fabricated, flexible membrane floating cover over a liquid waste storage pond. Installation includes site preparation, cover appurtenances, flare, safety valving, and biogas transfer line.

**NOTE: Scenario 4.** Insulated, vented, building and roof. Includes concrete floors and concrete and wood-framed walls. This component shall be contracted only when required to ensure continual, daily operation of mechanical manure separating and/or transfer equipment during harsh, sub-zero or other inclement weather conditions.

### ASSOCIATED PRACTICES:

- Animal Mortality Facility (Code 316)
- Composting Facility (Code 317)
- Pumping Plant (Code 533)
- Waste Separation Facility (Code 632)
- Waste Storage Facility (Code 313)
- Waste Transfer (Code 634)

# SECTION I

## 610 SALINITY AND SODIC SOIL MANAGEMENT

ID UNITS: Acres

PRACTICE LIFESPAN: 1

Scenarios:

1. Dryland Monitor Wells Year 1, a saline seep recharge area is effectively defined based on data collection including monitoring wells and soil sampling.

General EQIP	EQIP-HU
\$62.43 per acre	\$74.92 per acre

2. Dryland EMI (Electro Magnetic Induction), Year 1, delineating saline seep boundary via visual identification or soil analysis, using EC mapping tools.

General EQIP	EQIP-HU
\$25.46 per acre	\$30.55 per acre

3. Dryland Intense Cropping, treating the recharge area with an intensive annual cropping system that reduces deep soil moisture in the recharge area, maximum three years of payments.

General EQIP	EQIP-HU
\$53.33 per acre	\$64.00 per acre

**NOTE: All Scenarios.** A payment cannot be made for both Residue and Tillage Management, Cover Crop, Conservation Crop Rotation, and Salinity and Sodic Soil Management on the same acres of land.

**NOTE: All Scenarios.** This practice is not to be used for wetland creation.

**NOTE: All Scenarios.** For seeding use a separate CI for practice Forage and Biomass Planting (Code 512), or practice Range Planting (Code 550). For Salinity planting using Forage and Biomass Planting (Code 512) there is no restriction on the percent legume in the planting; NHEL and HEL cropland is eligible for cost-share. The conservation plan must address Forage Harvest Management (Code 511) on the contracted areas.

**ASSOCIATED PRACTICES:**

- Critical Area Planting (Code 342)
- Conservation Crop Rotation (Code 328)
- Forage and Biomass Planting (Code 512)
- Forage Harvest Management (Code 511)
- Range Planting (Code 550)

# SECTION I

## 574 SPRING DEVELOPMENT

ID UNITS: Each

PRACTICE LIFESPAN: 20

Scenarios:

1. Spring Development, Develop a water source from a natural spring or seep. Complete installation including Collection System for providing water for livestock and/or wildlife.

General EQIP	EQIP-HU
\$2,763.33 each	\$3,315.99 each

### ASSOCIATED PRACTICES:

Critical Area Planting (Code 342)

Fence (Code 382)

Livestock Pipeline (Code 516)

Watering Facility (Code 614)

# SECTION I

## 442 SPRINKLER SYSTEM

ID UNITS: Linear foot, Acre or Each

PRACTICE LIFESPAN: 15

Scenarios:

- Center Pivot System, includes all appurtenances.

General EQIP	EQIP-HU
\$38.44 per linear foot	\$57.67 per linear foot

- Linear Move System, includes installation of hardware and appurtenances.

General EQIP	EQIP-HU
\$49.30 per linear foot	\$73.95 per linear foot

- Wheel Line System, includes the mover, lateral pipe, risers, wheels, sprinklers, couplers, and connectors to mainline.

General EQIP	EQIP-HU
\$8.55 per linear foot	\$12.83 per linear foot

- Pod System, a portable system consisting of PE pipe and pods with attached sprinklers, includes appurtenances.

General EQIP	EQIP-HU
\$139.19 each	\$208.78 each

- Renovation of Existing Sprinkler System, changing out nozzles on top of a pivot to low pressure drop nozzles, per linear foot.

General EQIP	EQIP-HU
\$7.12 per linear foot	\$10.69 per linear foot

- Hand Line, includes appurtenance.

General EQIP	EQIP-HU
\$2.10 per foot	\$3.16 per foot

- Traveling Gun System, greater than 3-inch Hose, a portable system for applying waste water from **animal feeding operations only.**

General EQIP	EQIP-HU
\$34,762.34 each	\$41,714.81 each

**NOTE: All Scenarios.** Used Equipment is cost-shared at 50 percent of the new payment schedule. Used equipment requires prior approval of the NRCS Area Engineer prior to contracting the item.

**NOTE: Scenarios 1-3.** Capped at \$800 per irrigated acre. Acres irrigated by the endgun is excluded from this cap. The pivot hardware length (including swing arm length and overhang) is eligible for cost-share. Cap is not intended for HU producers, seek State Office variance.

**NOTE: Scenarios 1-3 and 6.** Payment is figured per foot of machine/hardware length. Do not include the length of throw on the endgun when calculating the length.

**NOTE: Scenarios 1-3 and 5.** Irrigation Water Management (Code 449) must be contracted for three years with these scenarios.

**NOTE: Scenario 3.** Appurtenances include flex hose, hydrant valve, and tee riser.

**NOTE: Scenario 4 and 6.** Irrigation Water Management (Code 449) must be contracted for three years with this practice, on at least 30 percent of K-Line and/or hand line irrigated fields under the same EQIP contract.

**ASSOCIATED PRACTICES:**

- Conservation Crop Rotation (Code 328)
- Cover Crop (Code 340)
- Irrigation Pipeline (Code 430)
- Irrigation Water Management (Code 449)
- Nutrient Management (Code 590)
- Pumping Plant (Code 533)

# SECTION I

## 570 STORMWATER RUNOFF CONTROL

ID UNITS: Linear Feet

PRACTICE LIFESPAN: 1

Scenarios:

1. Silt fences are installed along the downstream perimeter of a construction site.

General EQIP	EQIP-HU
\$1.20 per linear foot	\$1.44 per linear foot

2. Straw Bale Dams are installed along the downstream perimeter of a construction site.

General EQIP	EQIP-HU
\$5.20 per linear foot	\$6.24 per linear foot

3. Straw wattles are installed for enabling seeds to settle and germinate, aiding in the re-vegetation process.

General EQIP	EQIP-HU
\$1.66 per linear foot	\$2.00 per linear foot

**NOTE: All Scenarios.** This practice is typically associated with a Storm Water Pollution Prevention Plan (SWPPP) for MPDES storm water permit.

# SECTION I

## 578 STREAM CROSSING

ID UNITS: Square Feet, Inch-Foot or Linear Foot

PRACTICE LIFESPAN: 10

Scenarios:

1. Hard Armored Low Water Crossing, rock riprap or cast in place concrete.

General EQIP	EQIP-HU
\$3.77 per square foot	\$4.52 per square foot

2. Culvert Installation, new culvert with associated fill and rock riprap.

General EQIP	EQIP-HU
\$3.01 per inch-foot	\$3.61 per inch-foot

3. Low Water Crossing with precast concrete blocks, geo-cells, pavers, or gabions.

General EQIP	EQIP-HU
\$6.29 per square foot	\$7.55 per square foot

### ASSOCIATED PRACTICES:

- Access Road (Code 560)
- Channel Bed Stabilization (Code 584)
- Critical Area Planting (Code 342)
- Trails and Walkways (Code 575)
- Obstruction Removal (Code 500)

# SECTION I

## 580 STREAMBANK AND SHORELINE PROTECTION

ID UNITS: Linear Foot or Cubic Yard

PRACTICE LIFESPAN: 20

Scenarios:

1. Bioengineered with Vegetation, to include willow cuttings, revetments, vertical bundles and bankfull bench construction, bank shaping, and erosion control fabric.

General EQIP	EQIP-HU
\$16.23 per linear foot	\$24.34 per linear foot

2. Bioengineered with Vegetation, less than 50 cubic feet per second bankfull flow, to include willow cuttings, revetments, vertical bundles.

General EQIP	EQIP-HU
\$9.33 per linear foot	\$14.04 per linear foot

3. Structural, Toewood with Vegetation, to include large wood members with root wads, willow cuttings and revetments, bankfull bench construction, bank shaping, riparian-corridor re-vegetation, geotextile, and rock riprap to establish grade/fill void spaces.

General EQIP	EQIP-HU
\$47.70 per linear foot	\$71.55 per linear foot

4. Structural, Rock Riprap with Vegetation, to include bankfull bench construction, bank shaping, riparian-corridor re-vegetation, geotextile, and rock riprap.

General EQIP	EQIP-HU
\$47.61 per cubic yard	\$71.42 per cubic yard

5. Structural, Rock Riprap Stream Barb with vegetation, to include bank shaping near the barb, re-vegetation, geotextile, and rock riprap.

General EQIP	EQIP-HU
\$49.72 per cubic yard	\$74.57 per cubic yard

**NOTE: All Scenarios.** Practice payments are limited to the protection of structural property on agricultural land, including irrigation structures, feedlot facilities, and buildings, unless otherwise included as a part of a stream restoration project.

**NOTE: All Scenarios.** Bed stabilization measures shall be contracted using Channel Bed Stabilization (Code 584).

**NOTE: All Scenarios.** For Fencing, use separate CI for practice Fence (Code 382).

**NOTE: All Scenarios.** All projects must be pre-approved by the **State Conservation Engineer** prior to contracting.

### ASSOCIATED PRACTICES:

- Access Road (Code 560)
- Channel Bed Stabilization (Code 584)
- Critical Area Planting (Code 342)
- Fence (Code 382)
- Riparian Forest Buffer (Code 391)
- Riparian Herbaceous Cover (Cover 390)
- Watering Facility (Code 614)

# SECTION I

## 587 STRUCTURE FOR WATER CONTROL

ID UNITS: Inch-foot, Feet, Each, Inch, Cubic Yard, or CFS

PRACTICE LIFESPAN: 20

Scenarios:

- Flashboard Riser and Pipe, fabricated from metal.

General EQIP	EQIP-HU
\$1.95 per inch (flashboard weir length)-foot (pipe length)	\$2.92 per inch (flashboard weir length)-foot (pipe length)

- Culvert less than 30 inches HDPE.

General EQIP	EQIP-HU
\$1.05 per inch-foot	\$1.58 per inch-foot

- Culvert less than 30 inches Corrugated Metal Pipe.

General EQIP	EQIP-HU
\$1.28 per inch-foot	\$1.92 per inch-foot

- Slide Gate, installation of a steel screw/head gate.

General EQIP	EQIP-HU
\$1,006.41 per foot of width or diameter	\$1,509.62 per foot of width or diameter

- CMP Turnout, corrugated metal pipe with slide gate.

General EQIP	EQIP-HU
\$362.79 each	\$544.18 each

- Flow Meter, Mechanical, with cumulative volume and rate index.

General EQIP	EQIP-HU
\$64.89 per inch	\$111.23 per inch

- Flow Meter, Electronic, with cumulative volume and rate index.

General EQIP	EQIP-HU
\$91.30 per inch	\$182.60 per inch

- Miscellaneous Structure, Extra Small.

General EQIP	EQIP-HU
\$1,927.99 each	\$2,891.98 each

- Miscellaneous Structure, Small.

General EQIP	EQIP-HU
\$3,859.77 each	\$5,789.65 each

- Miscellaneous Structure, Medium.

General EQIP	EQIP-HU
\$5,935.32 each	\$8,902.98 each

- Miscellaneous Structure, Large.

General EQIP	EQIP-HU
\$11,924.99 each	\$17,887.48 each

- Miscellaneous Concrete Structure, Very Large.

General EQIP	EQIP-HU
\$1,479.30 per cubic yard	\$2,218.96 per cubic yard

- Miscellaneous Structure, Winter Construction, Very Large.

General EQIP	EQIP-HU
\$1,889.16 per cubic yard	\$2,833.74 per cubic yard

- Concrete or Steel Pipe,  $\geq$  30 inches.

General EQIP	EQIP-HU
\$1.79 per diameter inch foot	\$2.69 per diameter inch foot

# SECTION I

15. Stationary Screen.

General EQIP	EQIP-HU
\$1,585.94 per cubic feet per second	\$2,378.91 per cubic feet per second

16. Active Screen.

General EQIP	EQIP-HU
\$3,032.24 each	\$4,548.36 each

17. Floating Active Screen, less than or equal to 6 feet.

General EQIP	EQIP-HU
\$2,359.83 each	\$2,831.80 each

18. Floating Active Screen, greater than 6 feet.

General EQIP	EQIP-HU
\$4,152.43 each	\$4,982.92 each

**NOTE: Scenarios 8-11.** Before scenarios can be contracted, a description and cost estimate must be completed by an individual having the appropriate job approval authority justifying the scenario selection.

**NOTE: All Scenarios.** For Seeding, use separate CI for practice Critical Area Planting (Code 342).

**ASSOCIATED PRACTICES:**

- Access Road (Code 560)
- Critical Area Planting (Code 342)
- Irrigation Canal or Lateral (Code 320)
- Irrigation Pipeline (Code 430)
- Irrigation System, Micro-Irrigation (Code 441)
- Irrigation System, Surface and Subsurface (Code 443)
- Irrigation Water Management (Code 449)
- Obstruction Removal (Code 500)
- Pumping Plant (Code 533)
- Sprinkler System (Code 442)
- Stormwater Runoff Control (Code 570)
- Surface Drain, Field Ditch (Code 607)
- Trails and Walkways (Code 575)
- Waste Transfer (Code 634)

# SECTION I

## 649 STRUCTURES FOR WILDLIFE

ID UNITS: Acres or Linear Foot or Each

PRACTICE LIFESPAN: 10

Scenarios:

1. Wildlife Structures of Low Intensity with Low Complexity, installation of wildlife structures to include habitat boxes (see Biology Technical Note, MT-31), perch poles, down logs (see Specification, MT645, Page 20), and built brush piles (see Biology Tech Note, MT-27, Page 8).

General EQIP	EQIP-HU
\$25.75 per acre	\$30.90 per acre

2. Fence Markers, made from vinyl undersill material.

General EQIP	EQIP-HU
\$0.11 per linear foot	\$0.13 per linear foot

3. Escape Ramp, installed in watering facilities to avoid wildlife drowning.

General EQIP	EQIP-HU
\$58.23 each	\$69.87 each

**NOTE: Scenario 1.** Intensity is the number of structures to be installed per acre. For this scenario the intensity is < 0.5 structure per acre. Complexity is defined by the combination of skill level; equipment needed, and ease of accessibility for creating and installing these structures.

**EXAMPLE:** A landowner has a 20-acre forest property which has been thinned under Forest Stand Improvement (Code 666) to improve forest health and to reduce the fuel load. The remaining mixed conifers are all small diameter; none are suitable for snag creation. Snags and a lack of understory ground cover for wildlife are limiting. The Wildlife Structures of Low Intensity with Low Complexity scenario requires < 0.5 structures per acre. It is determined (after talking with the NRCS Area Biologist) that six nest boxes (for cavity-nesting species) and three brush piles will suffice to bring the WHAG score up to Quality Criteria. The cost list provides \$25.75 per acre x 20 acres = \$515.00 for this practice to cover materials and labor.

**NOTE:** Scenario 2. Specific to Sage Grouse. Cost-share is based on the length of fence not the length of total number of wires.

# SECTION I

## 606 SUBSURFACE DRAIN

ID UNITS: Pound and Feet

PRACTICE LIFESPAN: 20

Scenarios:

1. Corrugated Plastic Pipe (CPP), Single-Wall, less than or equal to 6 inches, below ground installation using a drainage trencher.

General EQIP	EQIP-HU
\$5.89 per pound	\$7.07 per pound

2. Enveloped Corrugated Plastic Pipe (CPP), Single-Wall, less than or equal to 6 inches, below ground installation with a sand-gravel envelope, using a drainage trencher.

General EQIP	EQIP-HU
\$7.36 per pound	\$8.84 per pound

3. Corrugated Plastic Pipe (CPP), Single-Wall, greater than or equal to 8 inches, below ground installation using a drainage trencher.

General EQIP	EQIP-HU
\$2.58 per pound	\$3.10 per pound

4. Corrugated Plastic Pipe (CPP), Twin-Wall, greater than or equal to 8 inches, below ground installation using a drainage trencher.

General EQIP	EQIP-HU
\$3.15 per pound	\$3.78 per pound

5. Pond Perimeter Drain, below ground installation of perforated HDPE pipeline and sand-gravel envelope to lower seasonal high water table.

General EQIP	EQIP-HU
\$13.16 per foot	\$15.80 per foot

**NOTE: Scenario 5.** This scenario is only to be used around waste storage pond. The scenario is used to lower the water table below waste storage ponds. Subsurface drainage around concrete tanks is included in the costs for the Waste Storage Facility (Code 313).

**ASSOCIATED PRACTICES:**

- Pumping Plant (Code 533)
- Structure for Water Control (Code 587)

# SECTION I

## 607 SURFACE DRAIN, FIELD DITCH

ID UNITS: Cubic Yard

PRACTICE LIFESPAN: 15

Scenarios:

1. Field Drainage, Ditch.

General EQIP	EQIP-HU
\$1.82 cubic yard	\$2.19 cubic yard

**ASSOCIATED PRACTICES:**

Irrigation Land Leveling (464)

# SECTION I

## 575 TRAILS AND WALKWAYS

ID UNITS: Square Feet

PRACTICE LIFESPAN: 10

Scenarios:

1. Layout and construct a lane or travel way to facilitate animal movement, to provide or improve access to forage, water, working/handling facilities and/or shelter, improve grazing efficiency/distribution and/or protect sensitive sites for protecting water quality.

General EQIP	EQIP-HU
\$0.19 per square foot	\$0.23 square foot

**NOTE:** No surface materials are included. Use Critical Area Planting (Code 342) for re-seeding disturbed sites, Heavy Use Protection Area (Code 561) for providing adequate surface protection, Stream Crossing (Code 578) when a lane or trail crosses a stream or shallow water areas, Structure for Water Control (Code 587) when culverts are needed to control and direct water flow, and Fence (Code 382) when fencing is necessary.

# SECTION I

## 612 TREE/SHRUB ESTABLISHMENT

ID UNITS: Acres

PRACTICE LIFESPAN: 15

Scenarios:

1. Individual Tree - Hand Planting (reforestation).

General EQIP	EQIP-HU
\$0.40 each	\$0.61 each

2. Individual Tree - Hand Planting with Browse Protection (reforestation).

General EQIP	EQIP-HU
\$1.35 each	\$1.62 each

3. Individual Tree - Hand Planting.

General EQIP	EQIP-HU
\$5.75 each	\$6.90 each

4. Individual Tree - Machine Planting.

General EQIP	EQIP-HU
\$4.86 each	\$5.83 each

**NOTE: Scenario 1.** Tree seedlings will be hand planted in forested areas as part of a reforestation effort.

**NOTE: Scenario 2.** Tree seedlings will be hand planted in forested areas as part of a reforestation effort. Seedlings are protected from wildlife browse.

**NOTE: Scenario 3.** Trees/Shrubs seedlings will be hand planted typically in riparian areas, cropland or rangeland where few or no trees or shrubs are growing. Competing vegetation is controlled (mechanical, chemical, or cultural (fabric)).

**NOTE: Scenario 4.** Trees/Shrubs seedlings will be machine planted typically in riparian areas, cropland or rangeland where few or no trees or shrubs are growing. Competing vegetation is controlled (mechanical, chemical, or cultural (fabric)).

**NOTE: Scenarios 1-4. Honey Bee Pollinator Initiative** contracts will follow NRCS-approved list found in Plant Materials Technical Note, MT-46 and Biology Technical Note, MT-20 for woody vegetation.

# SECTION I

## 660 TREE/SHRUB PRUNING

ID UNITS: Acre

PRACTICE LIFESPAN: 10

Scenarios:

1. Pruning.

General EQIP	EQIP-HU
\$258.07 per acre	\$309.68 per acre

**NOTE:** Pruning is done by hand with pole saws or with gas pole saw.

**NOTE:** This scenario is not for hazard fuels reduction; see practice Fuel Break (Code 383).

# SECTION I

## 490 TREE/SHRUB SITE PREPARATION

ID UNITS: Acres

PRACTICE LIFESPAN: 1

Scenarios:

1. Mechanical, Light.

General EQIP	EQIP-HU
\$92.83 per acre	\$111.40 per acre

2. Chemical, Hand Application.

General EQIP	EQIP-HU
\$75.88 per acre	\$91.06 per acre

**NOTE: All Scenarios.** Limited to reforestation sites only.

**NOTE: Scenario 1.** Site preparation for Tree/Shrub Establishment using light/moderate machinery to clear the above ground vegetation and woody debris.

**NOTE: Scenario 2.** Site preparation for Trees/Shrub Establishment applying herbicides with a backpack sprayer or similar equipment to clear the aboveground vegetation.

# SECTION I

## 620 UNDERGROUND OUTLET

ID UNITS: Linear Feet

PRACTICE LIFESPAN: 20

Scenarios:

1. UO less than or equal to 6 diameter-inches.

General EQIP	EQIP-HU
\$3.03 per linear foot	\$4.30 per linear foot

2. UO less than or equal 6 diameter-inches with Riser.

General EQIP	EQIP-HU
\$3.16 per linear foot	\$4.72 per linear foot

3. UO, 8 to 12 diameter-inches.

General EQIP	EQIP-HU
\$7.22 per linear foot	\$8.67 per linear foot

4. UO, 8 to 12 diameter-inches with Riser.

General EQIP	EQIP-HU
\$8.38 per linear foot	\$10.05 per linear foot

5. UO, 15 to 18 diameter-inches.

General EQIP	EQIP-HU
\$15.36 per linear foot	\$18.45 per linear foot

**NOTE: All Scenarios.** Can be used to pipe storm water, away from an agricultural waste management system, to minimize the volume of runoff that is contaminated by agricultural waste.

**ASSOCIATED PRACTICES:**

- Critical Area Planting (Code 342)
- Diversion (Code 362)
- Grassed Waterway (Code 412)
- Subsurface Drain (Code 606)
- Water and Sediment Control Basin (Code 638)

# SECTION I

## 645 UPLAND WILDLIFE HABITAT MANAGEMENT

ID UNITS: Acres or Each

PRACTICE LIFESPAN: 1

Scenarios:

1. Monitoring Management, Low Intensity. Monitoring will be used to determine if the planned conservation system meets or exceeds the minimum planning criteria for the identified resource concern, Animal Resources - Inadequate habitat for fish and wildlife. This scenario is applicable on all land use that the landowner will make a change to current management (benchmark conditions) and that change will address the specific cause of the concern or threats to the animal resource. (Quantity, quality of food, water, and/or cover/shelter is inadequate to meet requirements of identified fish, wildlife or invertebrate species.)

General EQIP	EQIP-HU
\$13.41 per acre	\$16.10 per acre

2. Monitoring Management, Medium Intensity, Medium Complexity. Monitoring will be used to determine if the planned conservation system meets or exceeds the minimum planning criteria for the identified resource concern, Animal Resources - Inadequate habitat for fish and wildlife. This scenario is applicable on active cropland that the landowner will manage for wildlife. (Wildlife Modifier) Changes to current management (benchmark conditions) will address the specific concern or threats to the animal resource. (Quantity, quality of food, water, and/or cover/shelter is inadequate to meet requirements of identified fish, wildlife or invertebrate species.)

General EQIP	EQIP-HU
\$235.00 per acre	\$238.12 per acre

3. Monitoring Management, High Intensity, High Complexity. Monitoring will be used to determine if the planned conservation system meets or exceeds the minimum planning criteria for the identified resource concern, Animal Resources - Inadequate habitat for fish and wildlife and Water Resources-water quality degradation. This scenario is applicable on active cropland the landowner will manage for wildlife. (Wildlife Modifier) Changes to current management (benchmark conditions) will address the specific concern or threats to the animal resource. (Quantity, quality of food, water, and/or cover/shelter is inadequate to meet requirements of identified fish, wildlife or invertebrate species.)

General EQIP	EQIP-HU
\$242.36 per acre	\$246.95 per acre

4. Lek Monitoring, monitor grouse population to determine population status and help document the success or effects of habitat management practices.

General EQIP	EQIP-HU
\$381.64 each	\$457.96 each

5. Snag Creation, Tree Topping or Tree Girdling, snags are created by cutting off approximately the upper-third of a large diameter Ponderosa Pine, Western Larch, or Douglas Fir with a chain saw, providing three large diameter snags per acre throughout the unit (see Specification, MT645, Pages 20 and 21).

General EQIP	EQIP-HU
\$98.34 per acre	\$118.01 per acre

6. Honeybee Habitat Multi-Species Mix with Monitoring and Foregone Income.

General EQIP	EQIP-HU
\$269.18 acre	\$323.01 acre

7. Honeybee Monitoring.

General EQIP	EQIP-HU
\$15.56 per acre	\$18.67 per acre

**NOTE: Scenarios 1-3.** Conservation Practice Standard 645 should be contracted for a minimum of three years under General EQIP and is available for five years through PPWGRP. For both General EQIP and PPWGRP, Scenarios 2 and 3 are only available for a single year payment incentive that includes forgone income. The remaining years of the contract will have Scenario 1 scheduled. Once a payment incentive for Scenarios 2 or 3 is provided, the required level of monitoring outlined for Scenarios 2 or 3 will continue to be implemented through the life of the contract. If the contracted acres are expired CRP that require management activities to improve wildlife habitat (e.g., haying

# SECTION I

or grazing), Scenario 2 or 3 would not be contracted until the third or fifth year of the contract. The rationale for this approach is to allow enough time to improve habitat quality through management activities like haying, grazing, revegetation, seeding, etc. This approach does not apply to landowners who wish to contract Scenario 1 for the life of their contract.

**NOTE: Scenario 1:**

- a. The landowner/producer has clearly identified wildlife and improving wildlife habitat as an objective.
- b. Evaluate the conservation management unit with the Wildlife Habitat Evaluation Guide (WHEG). Focus alternatives on existing habitat elements with a score less than .5 since these habitat elements may be considered limiting factors.
- c. Acres that are receiving Scenario 1 payment incentives cannot be grazed and hayed in the same year.
- d. Grazing activities:
  1. One-third of the total acres contracted under 645 that are being grazed must be deferred from grazing for that entire year.
  2. A grazing plan that meets NRCS Prescribed Grazing (Code 528) specifications must be developed.
- e. Haying activities:
  1. One-third of the total acres being hayed must not be cut each year. Idle acres must be in blocks.
  2. All acres that are hayed will have a 7-inch minimum stubble height.
  3. If the acres are hayed during the nesting and fawning season (April 15 - August 1), the following techniques must be used:
    - a) Conduct all haying activities during the daylight hours
    - b) Adjust the haying pattern either:
      - i. Begin on one end of the field and work back and forth across the field.
      - ii. Begin in the center of the field and work outward.
- f. Payment incentives from another management practice scenario cannot be earned on the same acres during the contract life span. Example: Prescribed Grazing (Code 528) and Upland Wildlife Habitat Management (Code 645). Scenario 1 cannot be scheduled on the same acres during the contract life span.
- g. Monitoring will be of low complexity and intensity with no specialized skills required.

**Monitoring Requirements:**

- a. **Photos.** Photos will be taken once annually, preferably with the same camera or photo settings at the same general location and time of year, to document habitat conditions.
- b. **Management Record.** Changes in management on the CMU will be documented in writing by the landowner/producer. Include a record of management activities relative to the land use and how they were adjusted from previous management to address the specific cause of the concern or threats to the animal resource. (Quantity, quality of food, water, and/or cover/shelter is inadequate to meet requirements of identified fish, wildlife or invertebrate species.)

**NOTE: Scenario 2.**

- a. The landowner/producer has clearly identified wildlife and improving wildlife habitat as an objective.
- b. Evaluate the conservation management unit with the Wildlife Habitat Evaluation Guide (WHEG). Focus alternatives on existing habitat elements with a score less than .5 since these habitat elements may be considered limiting factors.
- c. Scenario is applicable on active cropland that is being taken out of annual crop production and managed for wildlife.
- d. Active cropland includes CRP acres that will expire in 2016 and CRP acres that has expired in 2015 and 2014.
- e. Payment incentives from another management practice scenario cannot be earned on the same acres during the contract life span. Example: Prescribed Grazing (Code 528) and Upland Wildlife Habitat Management (Code 645), Scenario 2 cannot be scheduled on the same acres during the contract life span.
- f. **Scenario 2 has a maximum payment of \$47,624.**
- g. Activities such as grazing or haying are not allowed during the contract year that forgone income payment is provided (Scenarios 2 and 3).

- h. Scenarios 2 and 3 that provide payment incentives for forgone income can only be contracted for one year.
- i. Monitoring will be of medium complexity and intensity with some specialized skill required.
- j. If this scenario is contracted, the same level of monitoring will be required throughout the life of the contract.

**Monitoring Requirements:**

- a. **Vegetative Photo Plots.** Vegetative photo plots will be established strategically to monitor changes to composition and quality of plant species relative to the limiting habitat factor identified for the field or CMU. The planner and area specialists will assist the landowner in determining the placement and protocol for monitoring. The standard for monitoring herbaceous plant communities will be the 100' transect with five ground shots and two landscape photos. The number of these plots necessary will be determined by the planner and area specialists based on the complexity of limiting factors, size of the area, and number of plant communities/ecological sites. Other photo monitoring protocols may be developed as needed to meet the needs of particular situation.
- b. **Management Record.** Management of the applicable fields in the CMU will be documented in writing by the landowner/producer. This should include a record of management activities relative to the land use and how they were adjusted from previous management to achieve the habitat objectives including recording the timing and nature of any activity related to establishment or management of vegetation. This can include but is not limited to: seed bed preparation, planting, weed management, livestock grazing records including dates grazed, number and type of livestock, and haying activities.
- c. **Wildlife Species Observance Record.** Wildlife species observance records will be kept by the landowner or producer. These must include two specific efforts annually to observe and record the targeted wildlife species utilizing the area where 645 is applied but may also include anecdotal observations at any time. The landowner or producer is expected to acquire animal identification skill as needed to complete these observances. For instance, if the targeted wildlife is waterfowl the producer should be able to identify waterfowl to species. This may require training with a biologist or personal study and use of a bird field guide as needed. The planner and area specialists will assist the landowner in determining strategies for recording wildlife observances.

**NOTE: Scenario 3.**

- a. The landowner/producer has clearly identified wildlife and improving wildlife habitat as an objective.
- b. Scenario is applicable on active cropland that are being taken out of annual crop production and managed for wildlife.
- c. Evaluate the conservation management unit with the Wildlife Habitat Evaluation Guide (WHEG). Focus alternatives on existing habitat elements with a score less than .5 since these habitat elements may be considered limiting factors.
- d. Active cropland includes CRP acres that will expire in 2016 and CRP acres that expired in 2015 and 2014.
- e. Payment incentives from another management practice scenario cannot be earned on the same acres during the contract life span. Example: Prescribed Grazing (Code 528) and Upland Wildlife Habitat Management (Code 645), Scenario 3 cannot be scheduled on the same acres during the contract life span.
- f. **Scenario 3 has a maximum payment of \$49,390.**
- g. Activities such as grazing or haying are not allowed during the contact year that forgone income payment incentive is provided.
- h. Scenarios 2 and 3 that provide payment incentives for forgone income can only be contracted for one year.
- i. Monitoring will be of high complexity and intensity with some specialized skill required, and will be required throughout the life of the contract. Requirements will be the same as medium intensity with the added requirement of water quality testing.
- j. This scenario will only be used after documentation of a water quality resource concern and consultation with area and/or state office staff on its applicability as well as appropriate monitoring measurements or protocols.

**Monitoring Requirements:**

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- a. **Vegetative Photo Plots.** Vegetative photo plots will be established strategically to monitor changes to composition and quality of plant species relative to the limiting habitat factor identified for the field or CMU. The planner and area specialists will assist the landowner in determining the placement and protocol for monitoring. The standard for monitoring herbaceous plant communities will be the 100' transect with five ground shots and two landscape photos. The number of these plots necessary will be determined by the planner and area specialists based on the complexity of limiting factors, size of the area, and number of plant communities/ecological sites. Other photo monitoring protocols may be developed as needed to meet the needs of particular situation.
- b. **Management Record.** Management of the applicable fields in the CMU will be documented in writing by the landowner/producer. This should include a record of management activities relative to the land use and how they were adjusted from previous management to achieve the habitat objectives including recording the timing and nature of any activity related to establishment or management of vegetation. This can include but is not limited to: seed bed preparation, planting, weed management, livestock grazing records including dates grazed, number and type of livestock, and haying activities.
- c. **Wildlife Species Observance Record.** Wildlife species observance records will be kept by the landowner or producer. These must include two specific efforts annually to observe and record the targeted wildlife species utilizing the area where 645 is applied but may also include anecdotal observations at any time. The landowner or producer is expected to acquire animal identification skill as needed to complete these observances. For instance, if the targeted wildlife is waterfowl the producer should be able to identify waterfowl to species. This may require training with a biologist or personal study and use of a bird field guide as needed. The planner and area specialists will assist the landowner in determining strategies for recording wildlife observances.
- d. **Water Quality Monitoring.** Appropriate monitoring measurements or protocols will be developed during the planning process.

**NOTE: Scenario 4.**

- a. This scenario apply to Sage Grouse leks that are not currently monitored by FWP, BLM or USFWS because the criteria for application is for populations that the current status is not known.
- b. As with all monitoring, the point of this scenario is to document the current status of the population in conjunction with habitat assessment in order to apply management options that will improve or maintain the habitat. (This could also involve installation of facilitating practices).
- c. The landowner or producer must be trained by qualified staff to implement the FWP protocol for lek monitoring.

**NOTE: Scenario 6.** One-time payment following implementation (planting and FI)

**NOTE: Scenarios 6-7. Limited to Honey Bee Pollinator Initiative when monitoring was given points in the ranking.**

**NOTE: Scenario 7. For Honey Bee Pollinator,** use "Honeybee Monitoring" for payments in year two and three (without FI)

# SECTION I

## 635 VEGETATED TREATMENT AREA

ID UNITS: Acres

PRACTICE LIFESPAN: 10

Scenarios:

1. VTA, runoff is delivered onto VTA via a weir, spreader ditch, or passively.

General EQIP	EQIP-HU
\$1,327.99 per acre of VTA	\$1,593.59 per acre of VTA

2. VTA, runoff is delivered onto VTA via a pod irrigation system.

General EQIP	EQIP-HU
\$2,111.40 per acre of VTA	\$2,533.68 per acre of VTA

3. VTA, runoff is delivered onto VTA via gated pipe.

General EQIP	EQIP-HU
\$1,452.56 per acre of VTA	\$1,743.07 per acre of VTA

4. Constructed VTA, runoff is delivered via a weir, spreader ditch, or passively.

General EQIP	EQIP-HU
\$2,685.98 per acre	\$3,223.17 per acre

5. Constructed VTA, runoff is delivered via gated pipe.

General EQIP	EQIP-HU
\$2,812.36 per acre	\$3,374.84 per acre

**NOTE: Scenarios 1-3.** Existing ground meets practice standard Vegetated Treatment Area (VTA) criteria (Code 635) as is or with maintenance level, land plane style efforts.

**NOTE: Scenarios 4-5.** Land leveling type efforts are required to smooth the selected VTA area and achieve sheet flow conditions.

**NOTE: Scenarios 1-5.** Costs include the application components noted in the scenario title (e.g., weir, spreader ditch, pod irrigation system, gated pipe). If structures of more complexity and cost are required, Structure for Water Control (Code 587) can be utilized in addition to these Scenarios.

**NOTE: Scenarios 1-5.** Conveyance of the waste to the VTA should be contracted using Waste Transfer (Code 634).

**NOTE: SCENARIOS 1-5.** VTA Seeding should be contracted using Critical Area Planting (Code 342).

### ASSOCIATED PRACTICES:

- Critical Area Planting (Code 342)
- Diversion (Code 362)
- Fence (Code 382)
- Pumping Plant (Code 533)
- Structure for Water Control (Code 587)
- Waste Separation Facility (Code 632)
- Waste Transfer (Code 634)

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## 360 WASTE FACILITY CLOSURE

ID UNITS: Cubic Feet

PRACTICE LIFESPAN: 15

Scenarios:

1. Feedlot Closure. Removal, hauling, and spreading of manure and includes soil tests as required as per the Waste Facility Closure (Code 360) practice standard.

General EQIP	EQIP-HU
\$0.20 per cubic foot of manure-soil removed	\$0.24 per cubic foot of manure-soil removed

2. Demolition of Concrete Waste Storage Structure. Demolishing and burying concrete on-site. Reclaiming area of concrete structure. Includes emptying, hauling and spreading of any residual manure.

General EQIP	EQIP-HU
\$1.97 per cubic foot of concrete demolished	\$2.37 per cubic foot of concrete demolished

3. Liquid Waste Impoundment Closure. Deconstructing and filling the area of an earthen waste storage pond. Includes emptying, hauling and spreading of any residual liquid or solid manure.

General EQIP	EQIP-HU
\$0.19 per cubic foot of pond storage volume	\$0.23 per cubic foot of pond storage volume

4. Liquid Waste Impoundment Conversion to Fresh Water Storage. Cleaning pond for freshwater use. Includes emptying, hauling and spreading of any residual liquid or solid manure.

General EQIP	EQIP-HU
\$0.15 per cubic foot of pond storage volume	\$0.17 per cubic foot of pond storage volume

### ASSOCIATED PRACTICES:

- Critical Area Planting (Code 342)
- Nutrient Management (Code 590)
- Obstruction Removal (Code 500)

# SECTION I

## 632 WASTE SEPARATION FACILITY

ID UNITS: Each or Cubic Foot

PRACTICE LIFESPAN: 15

Scenarios:

1. Mechanical Separator, general.

General EQIP	EQIP-HU
\$23,179.27 each	\$27,815.13 each

2. Mechanical Separator, screw press.

General EQIP	EQIP-HU
\$32,554.39 each	\$39,065.27 each

3. Earthen Settling Structure less than or equal to 0.5 ac-ft. design storage.

General EQIP	EQIP-HU
\$0.45 per cubic foot of design	\$0.63 per cubic foot of design storage volume

4. Earthen Settling Structure greater than 0.5 ac-ft. design storage.

General EQIP	EQIP-HU
\$0.20 per cubic foot of design storage volume	\$0.28 per cubic foot of design storage volume

5. Concrete Basin.

General EQIP	EQIP-HU
\$3.91 per cubic foot of design storage	\$5.41 per cubic foot of design storage volume

**NOTE: Scenarios 1-2.** Includes miscellaneous materials and installation such as electrical, panel, miscellaneous plumbing.

**NOTE: Scenarios 3-5.** Includes ingress/egress ramps as necessary and outlet structures. Design storage volume does NOT include freeboard.

**ASSOCIATED PRACTICES (SCENARIOS 1-2):**

- Roofs and Covers (Code 367)
- Pumping Plant (Code 533)
- Waste Transfer (Code 634)

**ASSOCIATED PRACTICES (SCENARIOS 3-4):**

- Pond Sealing or Lining (Code 521)

# SECTION I

## 313 WASTE STORAGE FACILITY

ID UNITS: Cubic Foot or Square Foot

PRACTICE LIFESPAN: 15

Scenarios:

1. Earthen Storage Facility less than 50K ft<sup>3</sup> storage, design storage of less than 50,000 ft<sup>3</sup>.

General EQIP	EQIP-HU
\$0.39 per cubic foot design storage volume	\$0.57 per cubic design storage volume

2. Earthen Storage Facility greater than 50K ft<sup>3</sup> storage, design storage of more than or equal to 50,000 ft<sup>3</sup>.

General EQIP	EQIP-HU
\$0.23 per cubic foot design storage volume	\$0.32 per cubic foot design storage volume

3. Earthen Storage Facility with Cut to Fill Ratio 0.25 or less.

General EQIP	EQIP-HU
\$0.94 per cubic foot design storage volume	\$1.13 per cubic foot design storage volume

4. Above Ground Steel/Concrete less than 25K ft<sup>3</sup> storage.

General EQIP	EQIP-HU
\$2.34 per cubic foot design storage volume	\$4.01 per cubic foot design storage volume

5. Above Ground Steel/Concrete 25 - 100K ft<sup>3</sup> storage.

General EQIP	EQIP-HU
\$1.57 per cubic foot design storage volume	\$2.22 per cubic foot design storage volume

6. Above Ground Steel/Concrete greater than 100K ft<sup>3</sup> storage.

General EQIP	EQIP-HU
\$1.15 per cubic foot design storage volume	\$1.68 per cubic foot design storage volume

7. Dry Stack, concrete floor, without walls.

General EQIP	EQIP-HU
\$2.74 per square foot floor area	\$3.29 per square foot floor area

8. Dry Stack, concrete floor, with walls.

General EQIP	EQIP-HU
\$7.20 per square foot floor area	\$10.20 per square foot floor area

9. Concrete Tank with lid, Buried, less than 5K.

General EQIP	EQIP-HU
\$6.77 per cubic foot design storage volume	\$8.13 per cubic foot design storage volume

10. Concrete Tank with lid, Buried, 5 - 15K.

General EQIP	EQIP-HU
\$5.27 per cubic foot design storage volume	\$6.32 per cubic foot design storage volume

11. Concrete Tank with lid, Buried, 15 - 25K.

General EQIP	EQIP-HU
\$4.50 per cubic foot design storage volume	\$5.41 per cubic foot design storage volume

12. Concrete Tank with lid, Buried, 25 - 50K.

General EQIP	EQIP-HU
\$3.65 per cubic foot design storage volume	\$4.38 per cubic foot design storage volume

13. Concrete Tank with lid, Buried, 50 - 75K.

General EQIP	EQIP-HU
\$3.00 per cubic foot design storage volume	\$3.60 per cubic foot design storage volume

14. Concrete Tank with lid, Buried, 75 - 110K.

General EQIP	EQIP-HU
\$2.74 per cubic foot design storage volume	\$3.29 per cubic foot design storage volume

# SECTION I

15. Concrete Tank with lid, Buried, greater than 110K.

General EQIP	EQIP-HU
\$2.42 per cubic foot design storage volume	\$2.91 per cubic foot design storage volume

**NOTE: Scenarios 1-3.** An earthen waste impoundment constructed to store animal waste and/or contaminated runoff as part of an agricultural waste management system. Select either Scenario 1, 2, OR 3. Facilities include concrete ramps for ingress/egress and sludge management.

**NOTE: Scenarios 1-3.** Design storage volume does NOT include top 1 foot for freeboard and bottom 6 inches for sludge accumulation.

**NOTE: Scenarios 1-3.** Costs do not include liners to control seepage, subsurface drain provisions, post construction seeding, inlet/outlet structures and/or safety fencing.

**NOTE: Scenario 3.** An earthen waste impoundment where storage is primarily above natural ground. Construction of the impoundment requires earthfill volumes 4 or more times that required for excavation.

**NOTE: Scenarios 4-6.** Must be pre-approved by the **State Conservation Engineer**.

**NOTE: Scenarios 4-6.** An above ground circular glass-lined steel or concrete structure constructed to store animal waste and/or contaminated runoff as part of an agricultural waste management system. Includes construction of the structural foundation/floor.

**NOTE: Scenarios 4-6.** Design storage volume does NOT include top 1 foot for freeboard.

**NOTE: Scenarios 4-6.** Costs do not include equipment to manage/transfer the waste, post-construction seeding, tank cover requirements, or safety fencing.

**NOTE: Scenarios 7 and 8.** A dry stack facility with a reinforced concrete floor. Scenario 8 includes reinforced concrete walls.

**NOTE: Scenarios 9-15.** Tanks are totally or partially buried and have a solid, typically concrete, lid. Eligible costs for tanks which serve as foundations for buildings are limited to only portions associated with the storage function. Costs include subgrade bedding and partial granular backfill for toe drain and structural support.

**NOTE: Scenarios 9-15.** Design storage volume does NOT include top 6 inches for freeboard.

**NOTE: Scenarios 9-15.** Costs do not include equipment to manage/transfer the waste, post-construction seeding, or safety fencing.

**ASSOCIATED PRACTICES (SCENARIOS 1-3):**

- Critical Area Planting (Code 342)
- Fence (Code 382)
- Pond Sealing or Lining (Code 521)
- Pumping Plant (Code 533)
- Roofs and Covers (Code 367)
- Subsurface Drain (Code 606)
- Underground Outlet (Code 620)
- Structure for Water Control (Code 587)
- Waste Transfer (Code 634)

**ASSOCIATED PRACTICES (SCENARIOS 4-6):**

- Critical Area Planting (Code 342)
- Fence (Code 382)
- Pumping Plant (Code 533)
- Roofs and Covers (Covers 367)
- Waste Transfer (Code 634)

**ASSOCIATED PRACTICES (SCENARIOS 7-8):**

- Critical Area Planting (Code 342)
- Diversion (Code 362)
- Heavy Use Area Protection (Code 561)
- Underground Outlet (Code 620)

# SECTION I

**ASSOCIATED PRACTICES (SCENARIOS 9-15):**

Critical Area Planting (Code 342)

Fence (Code 382)

Pumping Plant (Code 533)

Underground Outlet (Code 620)

Waste Transfer (Code 634)

# SECTION I

## 634 WASTE TRANSFER

ID UNITS: Gallon, Feet, Square Foot, Each, Ton per Mile

PRACTICE LIFESPAN: 15

Scenarios:

1. Wastewater Catch Basin, less than 1,000 gallon capacity. Wastewater collection and transfer structure, includes safety fence with gate or solid/grated cover.

General EQIP	EQIP-HU
\$5.77 per gallon	\$6.93 per gallon

2. Wastewater Catch Basin, 1,000 - 5,000 gallon. Wastewater collection and transfer structure, includes safety fence with gate or solid/grated cover.

General EQIP	EQIP-HU
\$2.39 per gallon	\$2.87 per gallon

3. Channel with Push-off Plus Safety Gate.

General EQIP	EQIP-HU
\$10.23 per square foot of concrete channel bottom	\$14.16 per square foot of concrete channel bottom

4. Concrete channel with curb and footing.

General EQIP	EQIP-HU
\$5.83 per square foot of channel bottom	\$8.26 per square foot of channel bottom

5. Gravity Conduit with Piston Pump Collection Hopper. Hopper catch basin with buried gravity transfer line to waste storage facility.

General EQIP	EQIP-HU
\$87.29 per length of pipe installed in feet	\$112.22 per length of pipe installed in feet

6. Agitator for less than 10 feet deep pit. Does not include the pump.

General EQIP	EQIP-HU
\$5,894.41 each	\$8,841.61 each

7. Agitator for 10 - 15 feet deep pit. Does not include the pump.

General EQIP	EQIP-HU
\$9,094.79 each	\$13,642.19 each

8. Agitator for greater than 15 feet deep pit. Does not include the pump.

General EQIP	EQIP-HU
\$13,291.17 each	\$19,936.75 each

9. Headquarters Waste Transfer Pipeline, buried.

General EQIP	EQIP-HU
\$15.84 per foot of pipe	\$19.01 per foot of pipe

10. Waste Transfer Pipeline Outside of Headquarters, buried.

General EQIP	EQIP-HU
\$7.15 per foot of pipe	\$9.19 per foot of pipe

11. Conveyor System. A belt-style conveyor used to transfer solids within a waste storage and handling system.

General EQIP	EQIP-HU
\$49.51 per foot of conveyor length	\$59.41 per foot of conveyor length

12. Hard Hose Reel System. Liquid manure is transferred to injection equipment through the use of a hard hose reel/traveler.

General EQIP	EQIP-HU
\$36,756.80 each	\$44,108.16 each

# SECTION I

13. Hard Hose Reel System with Booster. Liquid manure is transferred to injection equipment through the use of a hard hose reel/traveler equipped with a booster pump.

General EQIP	EQIP-HU
\$45,162.18 each	\$54,194.62 each

**NOTE: All Scenarios.** See Sprinkler System (Code 442) for waste application with traveling gun.

**NOTE: Scenario 9.** Should be utilized for buried pipelines, valves, and fittings between barns, tanks, separators, storage ponds, and other structures within a headquarters area.

**NOTE: Scenarios 9-10.** Aboveground, collapsible pipe (soft hose) is not eligible.

**NOTE: Scenario 10.** Should be utilized for buried pipelines, valves, and fittings outside of the Headquarters area.

**NOTE: Scenarios 12-13.** Does not include injection equipment or tractor implementation costs to apply manure.

**ASSOCIATED PRACTICES:**

Nutrient Management (Code 590)

Pumping Plant (Code 533)

Waste Separation Facility (Code 632)

Waste Storage Facility (Code 313)

# SECTION I

## 638 WATER AND SEDIMENT CONTROL BASIN

ID UNITS: Cubic Yard

PRACTICE LIFESPAN: 10

Scenarios:

1. Basic, construction of earthen embankment.

General EQIP	EQIP-HU
\$1.28 per cubic yard	\$1.54 per cubic yard

2. Topsoil, construction of embankment with topsoil conserved.

General EQIP	EQIP-HU
\$5.46 per cubic yard	\$6.56 per cubic yard

**NOTE: All Scenarios.** An earthen embankment or combination ridge and channel generally constructed across the slope and minor watercourses to form a sediment trap and water detention basin. Typically, a series of basins is an alternative for a grassed waterway to control ephemeral gully erosion.

**ASSOCIATED PRACTICES:**

Underground Outlet (Code 620)

# SECTION I

## 642 WATER WELL

ID UNITS: Linear Foot

PRACTICE LIFESPAN: 20

Scenarios:

1. Shallow Well, 50-foot depth or less.

General EQIP	EQIP-HU
\$108.73 per linear foot	\$163.10 per linear foot

2. Shallow Well, 51 - 100 foot depth.

General EQIP	EQIP-HU
\$53.79 per linear foot	\$85.06 per linear foot

3. Typical Well, 101 - 600 foot depth with 4-inch or 6-inch casing.

General EQIP	EQIP-HU
\$45.51 per linear foot	\$61.31 per linear foot

4. Deep well, 601-foot depth or greater with 4-inch casing.

General EQIP	EQIP-HU
\$34.58 per linear foot	\$41.49 per linear foot

5. Deep Well, 601-foot depth or greater with 6-inch casing.

General EQIP	EQIP-HU
\$51.66 per linear foot	\$61.99 per linear foot

**NOTE: All Scenarios.** Final design is the responsibility of a licensed water well contractor. A geology report by the NRCS State Geologist or by the Montana Bureau of Mines and Geology (MBMG) is required during the planning process.

**NOTE: All Scenarios.** The cost of a pumping test is included in each payment scenario. A pumping test of 4 to 48 hour duration is highly recommended for wells deeper than 100 feet in order to properly determine water yield and pump size. A pumping test determines the drawdown depth for the design flowrate. A pumping test is different than an "Air Test" that drillers use to develop the well (i.e. clean casing and blow out soil cuttings). An "Air Test" is subsequently used by drillers to guesstimate water yield. The guesstimate is highly variable because the air test is short-duration, turbulent, and dependent on the depth and air pressure directed down the hole.

**NOTE: All Scenarios.** Practice payment for a dry well is not available under EQIP as stated in the ineligible cost section of the EQIP manual.

**NOTE: All Scenarios.** The well shall be drilled, dug, driven, bored, jetted or otherwise constructed to an aquifer for water supply to provide water for livestock.

**NOTE: All Scenarios.** Practice payment is not available for wells for use with Windbreak/Shelterbelt Establishment (Code 380) or Irrigation System, Micro-Irrigation (Code 441).

**NOTE:** Water developments on cropland are not eligible for a practice payment unless all of the following conditions are met:

- a. Cropland is seeded to pasture or rangeland.
- b. The request for cost-share is submitted to the **State Resource Conservationist** for approval. The soil loss tolerance for the breakout and establishment period must be equal to or less than T. The plan must also include Prescribed Grazing (Code 528) on the entire Conservation Management Unit including the cropland that is seeded to pasture or rangeland.
- c. No grazing from the date of seeding for at least two consecutive growing seasons (April 15 to October 1), or longer if the seeding is not well established at the end of two years.

**ASSOCIATED PRACTICES:**

- Livestock Pipeline (Code 516)
- Pumping Plant (Code 533)

# SECTION I

## 351 WATER WELL DECOMMISSIONING

ID UNITS: Linear Feet

PRACTICE LIFESPAN: 20

Scenarios:

1. Shallow Well, 25-foot depth or less, hand dug.

General EQIP	EQIP-HU
\$60.49 per linear foot	\$72.59 per linear foot

2. Drilled Well, 300-foot depth or less.

General EQIP	EQIP-HU
\$4.26 per linear foot	\$5.11 per linear foot

3. Drilled Well, 301-foot depth or deeper.

General EQIP	EQIP-HU
\$2.65 per linear foot	\$5.29 per linear foot

# SECTION I

## 614 WATERING FACILITY

ID UNITS: Gallon or Each

PRACTICE LIFESPAN: 20

Scenarios:

1. Permanent Drinking Tank with storage, less than 500 gallons, permanent water facility for livestock and/or wildlife.

General EQIP	EQIP-HU
\$2.60 per gallon	\$3.12 per gallon

2. Permanent Drinking tank with Storage, 500 to 1,000 gallons, permanent water facility for livestock and/or wildlife.

General EQIP	EQIP-HU
\$2.22 per gallon	\$2.67 per gallon

3. Permanent Drinking tank with Storage, 1,000 to 5,000 gallons, permanent water facility for livestock and/or wildlife.

General EQIP	EQIP-HU
\$1.98 per gallon	\$2.38 per gallon

4. Permanent Drinking tank with Storage, greater than 5,000 gallons, permanent water facility for livestock and/or wildlife.

General EQIP	EQIP-HU
\$0.91 per gallon	\$1.09 per gallon

5. Winter Tank with Storage, tanks that incorporate storage and are designed and constructed for use during freezing conditions.

General EQIP	EQIP-HU
\$3.34 per gallon	\$4.01 per gallon

6. Storage Tank, scenario typical size is 9,400 gallons, incorporated into a livestock and/or wildlife delivery system, gallons.

General EQIP	EQIP-HU
\$0.87 per gallon	\$1.04 per gallon

7. Automatic or Winter Tank, with less than 450 gallons, no storage, an on-demand water system using an automatic waterer and float system typically used in winter feeding areas and/or animal feeding operations.

General EQIP	EQIP-HU
\$934.67 each	\$1,121.61 each

**NOTE: All Scenarios.** All watering facilities are constructed from approved durable materials, to include fiberglass, steel, rubber tire, etc., that have a life expectancy that meets or exceeds the life of the practice. Rubber tires used for a livestock water tank are not subject to the 50 percent cost-share reduction.

**NOTE:** Water developments on cropland are not eligible for a practice payment unless all of the following conditions are met:

- a. Cropland is seeded to pasture or rangeland.
- b. The request for cost-share is submitted to the **State Resource Conservationist** for approval. The soil loss tolerance for the breakout and establishment period must be equal to or less than T. The plan must also include Prescribed Grazing (Code 528) on the entire Conservation Management Unit including the cropland that is seeded to pasture or rangeland.
- c. No grazing from the date of seeding for at least two consecutive growing seasons (April 15 to October 1), or longer if the seeding is not well established at the end of two years.

**NOTE: Scenarios 1-5:** Installation includes tank, earthwork, sub-grade prep, hydrant, overflow, gravel base and apron, all valving, and all other appurtenances from inlet to outlet.

# SECTION I

## 659 WETLAND ENHANCEMENT

ID UNITS: Cubic Yard

PRACTICE LIFESPAN: 15

Scenarios:

1. Embankment – Fill Height less than or equal to 3 feet.

General EQIP	EQIP-HU
\$7.86 per cubic yard	\$9.09 per cubic yard

2. Excavated Depressional Area

General EQIP	EQIP-HU
\$5.12 per cubic yard	\$6.14 per cubic yard

# SECTION I

## 657 WETLAND RESTORATION

ID UNITS: Cubic Yard and Linear Foot

PRACTICE LIFESPAN: 15

Scenarios:

1. Fill Dugout, restoring a wetland to its original condition by filling a dugout.

General EQIP	EQIP-HU
\$6.27 per cubic yard	\$7.53 per cubic yard

2. Drain Tile Removal.

General EQIP	EQIP-HU
\$6.37 per linear foot	\$7.65 per linear foot

3. Ditch Plug.

General EQIP	EQIP-HU
\$8.04 per cubic yard	\$8.96 per cubic yard

4. Embankment – Fill Height less than or equal to 3 feet.

General EQIP	EQIP-HU
\$7.86 per cubic yard	\$9.09 per cubic yard

### ASSOCIATED PRACTICES:

- Conservation Cover (Code 327)
- Streambank and Shoreline Protection (Code 580)
- Structure for Water Control (Code 587)
- Tree/Shrub Establishment (Code 612)

# SECTION I

## 644 WETLAND WILDLIFE HABITAT MANAGEMENT

ID UNITS: Acre

PRACTICE LIFESPAN: 1

Scenarios:

1. Monitoring and Management, monitoring will be used to determine if the conservation system meets or exceeds the minimum quality criteria for the targeted wildlife. Management will be implemented based on the findings of the habitat assessment and monitoring.

General EQIP	EQIP-HU
\$236.08 per acre	\$239.41 per acre

2. Topographic Feature Creation, construction of low intensity and low complexity topographic features will provide for diverse soil hydrologic conditions needed to treat the degraded plant condition and /or inadequate habitat for wetland wildlife.

General EQIP	EQIP-HU
\$275.62 per acre	\$286.87 per acre

**NOTE: Scenario 2.** Cost-share is limited for the **Prairie Pothole Wetland Grassland Retention Program only.**

# SECTION I

## 380 WINDBREAK/SHELTERBELT ESTABLISHMENT

ID UNITS: Each

PRACTICE LIFESPAN: 15

Scenarios:

1. Per Plant, 3 or More Rows, Machine Planted/Hand-Planted, Windbreak.

General EQIP	EQIP-HU
\$4.02 each	\$4.82 each

**NOTE:** Three or more rows of trees for managing or controlling the wind for wind erosion, energy conservation, snow management, or air quality. Trees are planted with a tree planting machine or hand planted. Competing vegetation is controlled (mechanical, chemical, or cultural (fabric)). Tree protectors are not needed.

**NOTE:** For Fencing, use separate CI for practice Fencing (Code 382).

# SECTION I

## 650 WINDBREAK/SHELTERBELT RENOVATION

ID UNITS: Linear Feet or Each

PRACTICE LIFESPAN: 15

Scenarios:

1. Sod Release.

General EQIP	EQIP-HU
\$0.06 per foot	\$0.08 per foot

2. Thinning.

General EQIP	EQIP-HU
\$0.53 per foot	\$0.64 per foot

3. Pruning.

General EQIP	EQIP-HU
\$0.46 per foot	\$0.55 per foot

4. Tree/Shrub Removal with Chain Saw.

General EQIP	EQIP-HU
\$0.46 per foot	\$0.56 per foot

5. Removal of less than 8 inches DBH with Skid steer.

General EQIP	EQIP-HU
\$1.00 per foot	\$1.21 per foot

6. Removal of greater than 8 inches DBH with Dozer.

General EQIP	EQIP-HU
\$1.50 per foot	\$1.80 per foot

7. Supplemental Plantings, Bare Root.

General EQIP	EQIP-HU
\$3.74 each	\$4.49 each

**NOTE: Scenario 1.** Reduce competition from sod (grass) between and/or within tree/shrub row with an herbicide application that significantly reduces the competition from sod (grass).

**NOTE: Scenario 2.** Thin by hand with a chainsaw and cut stumps have herbicide applied to prevent undesirable sprouting.

**NOTE: Scenario 3.** Pruned by hand (hand tools + chainsaw) to improve the shape and form for improving the effectiveness of the windbreak, slash is treated to prevent insect, disease, fire, and operability problems.

**NOTE: Scenarios 4-6.** Removal of degraded or inappropriate trees or shrubs, may include removal of entire rows, including stumps/roots or selected trees/shrubs in order to prepare for a replacement row; improve the health of the remaining rows; or supplemental plantings for expanding the windbreak.

**NOTE: Scenario 7.** Replacing areas of the windbreak where shrubs/trees have died.

# SECTION I

## 384 WOODY RESIDUE TREATMENT

ID UNITS: Acres

PRACTICE LIFESPAN: 10

Scenarios:

1. Chipping, grinding, or shredding.

General EQIP	EQIP-HU
\$361.73 per acre	\$434.07 per acre

2. Pile and Burn.

General EQIP	EQIP-HU
\$292.03 per acre	\$350.44 per acre

**NOTE: Scenario 1.** Reduce woody residue from forestry, agroforestry and horticultural activities.

**NOTE: Scenario 2.** Burning the woody residue generated from a forest management practice by either piling the slash by hand or using mechanical methods.