



# UTAH CSP ENHANCEMENTS/PRACTICES

February 2006

Utah Enhancement Activities/New Practices

UT-CSP-EGM

## Enhancement Activities

Enhancements activities refer to actions that provide resource benefits beyond the level prescribed by NRCS Conservation Practice Standards. Once implemented, Enhancement Activities should result in an observable or measurable improvement to the condition of one or more of the soil, water, air, plant, or animal resources, or provide for more efficient resource utilization and/or energy conservation.

## CSP Enhancement Payments

You can earn payments as shown below by participating in one or more of the following activities:

### Energy Management Enhancements

- Energy audit of agriculture operations. \$500/year.
- Recycling of all used motor oil for tractors and lubricating oil for other farm equipment such as irrigation pumps or grain drying motors, at a recycling company or depot. \$200/year.
- Use of perennial legumes in the crop rotation to reduce energy need for production of nitrogen. \$0.70/acre.
- Use of annual legumes in the crop rotation to reduce energy need for production of nitrogen. \$0.10/acre.
- Use of manure to supply at least 90% of nutrient needs of plants. \$1.10/acre.

- Soil Tillage Intensity Rating (STIR) rating is less than 60. \$0.50/acre.
- Soil Tillage Intensity Rating (STIR) rating is less than 30. \$0.70/acre.
- Soil Tillage Intensity Rating (STIR) rating is less than 15. \$0.90/acre.
- Use of renewable energy fuel (Biodiesel or Ethanol). Payments are made in \$25 increments for each 100 gallons actual biofuel used per year. \$25/100 gallons.
- Renewable energy generation (solar, wind, geothermal, and methane). \$2.50/per 100 KWh.
- 5 percent energy use reduction. \$100/total BTU's.
- 10 percent energy use reduction. \$200/total BTU's.
- 20 percent energy use reduction. \$500/total BTU's.

### Plant Management Enhancements

- Improving plant management by establishing or maintaining native, culturally significant plants in field borders, vegetative barriers, contour buffer strips, waterways, shelterbelts, windbreaks, riparian forest and herbaceous buffers. \$50/acre.
- Improving plant health and vigor by establishing or maintaining nectar producing plant corridors in field borders, vegetative barriers, contour buffer strips, waterways, shelterbelts, windbreaks, riparian forest and herbaceous buffers. \$50/acre.



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## Soil Management Enhancements

- Improving soil quality and condition by increasing Soil Condition Index (\$2.32/acre/0.2 increase in SCI).
- Reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) between 31 and 60. \$0.50/acre.
- Reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) between 16 and 30. \$1.00/acre.
- Reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) of 15 or less. \$2.00/acre.
- Using GPS or other similar guided technology, reduce soil compaction by controlling traffic that results in a Soil Tillage Intensity Rating (STIR) between 31-60. \$1.00/acre.
- Using GPS or other similar guided technology, reduce soil compaction by controlling traffic that results in a Soil Tillage Intensity Rating (STIR) between 16-30. \$2.00/acre.
- Using GPS or other similar guided technology, reduce soil compaction by controlling traffic that results in a Soil Tillage Intensity Rating (STIR) of 15 or less. \$4.00/acre.
- as a nutrient source on fields with Soil Test Phosphorus (STP) < 15 ppm. \$15/acre.
- Increase accuracy of animal manure applications through the use of manure testing twice yearly within 45 days of application. \$200/year.
- Prevent runoff of nutrients and build up of nutrients by not applying manure on fields with Soil Test Phosphorus (STP) > 50 ppm. \$10/acre.
- Reduce odors, runoff of nutrients, and volatilization of nitrogen by incorporating manure within 24 hours of application (based on actual acres applied to). \$8/acre
- Increase accuracy of nutrient application or forage balance by collecting accurate yield and/or quality data (cropland and pastureland only). \$500/year.
- Improve precision of nutrient applications by performing additional soil testing beyond that required by the standard. \$1/acre.
- Improve nutrient cycling by including alfalfa in dryland rotations. \$5/acre.
- Reduce nitrogen volatilization, nitrate leaching and better match crop uptake by using split nitrogen or controlled release nitrogen applications. \$5/acre.

## Nutrient Management Enhancements

- Prevent runoff of nutrients by composting animal manure and utilizing it as bedding. \$1000/year.
- Prevent runoff of nutrients by properly applying animal manure or compost
- Manage runoff of pollutants by widening and managing field borders or filter strips. \$250/acre.



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## Pest Management Enhancements

- Reduce pesticide use, break pest cycles and decrease pest pressure by utilizing conservation crop rotation. \$10/acre.
- Reduce environmental hazards by using non-chemical control methods such as biological, mechanical, and/or cultural controls to minimize the use of pesticides. \$15/acre.
- Reduce pesticide use by implementing scouting techniques for insects, weeds, and pests to determine economic thresholds prior to chemical application. \$5/acre.
- Reduce environmental hazards by using pesticides with "Low" or "Very Low" hazard ratings. \$15/acre.
- Reduce pesticide application by using low application rates, spot treatment, and/or banding. \$5/acre.
- Reduce pesticide spray overlap through guided measure technology. \$8/acre.

## Irrigation Management Enhancements

- Irrigation Enhancement Index,
  - Level 1 – 60 – 64. \$2/acre
  - Level 2 – 65 = 69. \$4/acre
  - Level 3 – 70 – 74. \$6/acre
  - Level 4 – 75 – 79. \$8/acre
  - Level 5 – 80 – 84. \$10/acre
  - Level 6 – 85 + \$12/acre

## Air Resource Mgmt. Enhancements

- Reduce particulate matter emissions from irrigated cropland by incorporation or mechanical removal of residues from high residue producing annual crops. \$48/acre.
- Reduce particulate matter emissions from orchards, vineyards, and cane fruits by chipping/mulching, or removal to a composting facility, the annual pruning. (100 acre max.) \$96/acre.
- Improve the precision of pesticide application and reduce drift by yearly pre-season sprayer calibration and additional calibration as needed. \$100/year.

## Grazing Management Enhancements

- Improve the balance of forage quality and quantity by annually applying recommendations that result from the NUTBAL assessment. \$500/year.
- Improve rangeland health by monitoring grazing units using an accepted monitoring technique (photo points and/or line transect) and adjusting grazing management. \$250/year for ≤ 500 acre, \$0.50/acre for units > 500 acre.
- Improve rangeland health by implementing a rest rotation grazing system (based on acres rested yearly). \$8/acre.
- Improve rangeland health by implementing a deferred rotation grazing system (based on acres rested Mar. 1 - Sept. 1). \$5/acre.



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- Improve plant vigor and pastureland health by increasing the intensity of grazing management through the implementation of a rotational grazing system. \$4/acre.
- Improve rangeland health by implementing a high intensity, low frequency grazing system. \$1/acre
- Improve rangeland health by managing grazing distribution through increase and/or movement of salt, supplements and offsite watering facilities. \$125/year for units <= 500 acre, \$0.25/acre for units > 500 acre.
- unharvested on field borders (acreage based on 30-100 foot widths). \$100/acre (irrigated), \$50/acre (Non-irrigated).
- Improve fish and wildlife habitat by excluding/managing grazing livestock access on wetland or riparian areas (per acre excluded). \$250/acre for exclusion and \$100/acre for managing.
- Reduce habitat fragmentation by managing woody vegetation for wildlife on crop, hay, or pastureland (only on woody areas). \$195/acre.

## Habitat Management Enhancements

- Optimize habitat values by enhancing the habitat structure in brush dominated areas (based on untreated acres). \$10/acre.
- Improve wildlife food and cover by leaving stubble over winter on cropland. \$5/acre.
- Improve wildlife food and cover by leaving unharvested hay or pasture over winter on hayland or pastureland. \$20/acre (200 acres max.)
- Improve wildlife nesting cover by delaying haying until after July 15. \$100/acre (irrigated-80 acres max.) \$50/acre (Non-irrigated-80 acres max.)
- Improve wildlife nesting cover by using flush bars and/or beneficial mowing pattern during daylight hours. \$5/acre.
- Reduce habitat fragmentation by leaving strips of crop or hay

## CSP Payments

CSP Enhancement earnings are subject to payment caps and actual payments will depend on CSP Tier level and the number of acres enrolled.

It is the responsibility of the participant to obtain all necessary permits and to comply with all ordinances and laws pertaining to the application of these activities.

## CSP New Practices

Participants can receive cost share assistance by implementing one or more conservation practices that will help them move to a higher Tier of conservation. Below is a list of new practices that can potentially receive cost-share through the CSP Program:



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## CSP New Practices

- Chemical Brush Management. \$27/acre.
- Burning Brush Management. \$10.60/acre.
- Mechanical Brush Management. \$55/acre.
- Channel Vegetation (With bank manipulation). \$21,780/acre
- Channel Vegetation (Without bank manipulation). \$10,890/acre
- Fence (Only for fencing off riparian areas or where cross fencing is needed for improved grazing management). \$1.60/foot.
- Field Border. \$0.08/linear ft (33 ft min. width).
- Filter Strip. \$200/acre.
- Pipeline (Only to improve grazing distribution or wildlife in conjunction with a watering facility). \$1.50/foot.

- Range Planting (Introduced). \$75/acre
- Range Planting (Native). \$125/acre
- Watering Facility (Only to improve grazing distribution and/or wildlife habitat). \$3000 each (includes all appurtenances and gravel pad)
- Tree and Shrub Establishment. \$600/acre

## CSP New Practice Payments

New practices will be cost-shared at a rate of 50% of the amount listed. Limited resource and new beginning farmers will receive cost share at a rate of 65%. New practice payments cannot exceed a total of \$10,000 during the life of the contract and must be completed in the first three years of the contract.

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