NRCS

Natural Resources Conservation Service

WASHINGTON

# ENR01 – Fuel use reduction for field operations

## CSP Enhancement Washington State Supplement

**Land Use Applicability:** Cropland

January 2014

| | | | |
|---|---|---|---|
| Client/Operating Unit: | | Tract Number: | |
| Farm/Ranch Location: | | Farm Number: | |
| Specifications Date: | | Field Number(s): | |
| Planned Installation Date: | | Proposed Treatment Acres: | |

**Enhancement Description:** Table of Contents

This enhancement is for fuel savings of 20% or more achieved by a reduction in field operations when compared to existing management system.

**Benefits**

In addition to saving money the advantages of fossil fuel conservation include reducing air pollutants such as greenhouse gas emissions, and decreasing reliance on foreign oil.

**Conditions Where Enhancement Applies**

This enhancement applies to all crop land use acres.

**Criteria for fuel use reduction for field operations**

1. Implementation of this enhancement requires that the participant reduce their field operations to achieve fuel savings of 20% or greater over their present baseline use.

2. Reduced trips across the field, and reduced tillage intensity are documented by using RUSLE2 to compare the planned tillage operations with present baseline tillage operations. The RUSLE2 user must ensure the energy data in RUSLE2 is current.

**Layout Sketch & Drawing** (Provide sketch, drawings, maps, and/or aerial photographs.)

- Geo-referenced field map with all delineated treatment areas where CSP Enhancement ENR01 is to be applied.

**Adoption Requirements**

This enhancement is considered adopted when the present baseline fuel consumption for all field operations is calculated using RUSLE2, at the time of application, and the comparison of the baseline to the planned reduced field operations, also calculated with RUSLE2, is > 20%.

**Documentation Requirements**

Documentation of the fields where field operations have changed.

**References*:**

Klein, R.N. and R.K. Wilson. 2012. Crop Budgets Nebraska – 2012. Extension University of Nebraska. Lincoln, NE. EC872 (Revised January 2012).

http://www.ianrpubs.unl.edu/epublic/live/ec872/build/ec872.pdf

Brown, E., R.N. Elliot and S. Nadel. 2005. Energy Efficiency Programs in Agriculture: Design, Success, and Lessons Learned. American Council for an Energy-Efficient Economy. Report Number IE051.

**Field Office Technical Guide:**

eFOTG, http://www.nrcs.usda.gov/technical/efotg/

**WA NRCS energy web site link**

http://www.wa.nrcs.usda.gov/programs/eqip/energy/index.html

*** Some online documents may take several minutes to download.**

## State Supplemental Information

**None**

# Documentation Form

**Producer:** _____ **Date:** _____

**Tracts:** _____ **County:** _____

| Field(s) | Fuel Consumption Before * | Fuel Consumption After* | Percent Difference |
|---|---|---|---|
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*** Fuel consumption estimates based on RUSLE2 calculations**

**Client's Acknowledgement** (To be signed before the Enhancement is applied.)

**By signing below, I acknowledge that I:**

- **have reviewed and understand the site specific design, installation specifications and operation/maintenance requirements in this State Supplemental Sheet and have an understanding of the purpose(s) of this Enhancement;**
- **will install, operate, and maintain this Enhancement in accordance with the National Sheet, the Washington State Supplemental Sheet and the site specific specifications.**
- **will make no changes to the planned design and installation without prior written approval of the Natural Resources Conservation Service.**
- **will obtain all necessary permits and/or rights, and comply with all ordinances and laws pertaining to the installation, operation, and maintenance of this Enhancement, prior to the start of installation; and**
- **will assume responsibility for notifying all Utilities affected by the installation, operation and maintenance of this Enhancement.**

_____ _____

**Signature** **Date**

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