

Energy Enhancement Activity – ENR01- Fuel use reduction for field operations



Enhancement Description

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

Land Use Applicability

Cropland

Benefits

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

Criteria for Fuel Use Reduction for Field Operations

- 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.
- 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.

Documentation Requirements for Fuel Use Reduction for Field Operations

- The present baseline fuel consumption for all field operations is calculated using RUSLE2 at the time of sign-up. This baseline is compared with fuel consumption for the planned reduced field operations, also calculated with RUSLE2. The estimated reduction in fuel use between the present and the planned must be greater than or equal to 20%.
- Documentation of the fields where field operations have changed.

References

- Crop Budgets - Nebraska Cooperative Extension EC04-872-S (Revised 2004)
- Energy Efficiency Programs in Agriculture: Design, Success, and Lessons Learned, Elizabeth Brown, R. Neal Elliot, and Steven Nadel, January 2005, Report Number IE051, American Council for an Energy-Efficient Economy.