

Project Summary
Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: Nitrogen Calculator for Market Based Incentives
Type of Project : Research
Project Discipline: Interdisciplinary
Funding Agency: NRCS
Other Partners/Cooperators:
Effective Dates: September 13, 2006 – September 30, 2007
Funding Amount: \$50,000.00
Investigators and Agency Representative: PI: Dwayne Westfall, Professor of Soil and Cop Science, Colorado State University, Fort Collins, CO 80523; 970-491-6149; dwayne.westfall@colostate.edu Agency Representatives: Shaun McKinney, Carl Lucero
Project Abstract: The CESU and ABS portion of this project will focus on preparing NLEAP to operate as the scientific model behind web based user interface. The user interface will present an easy user friendly way to interact with the NLEAP model. And independent consultant will write the web portion of the project. The CSU portion of the overall project will be identifying the data exchange protocols, ensuring quality controlled output is passed to the web interface and presented in a series of user reports, charts and output. The NLEAP model had been development and beta testing for several years. NLEAP has not been officially released by USDA. This project will complete the model and juxtapose it behind the web interface for use in emerging nutrient trading markets. Imbedded NLEAP nitrogen transformation and losses will serve as the scientific underpinnings for the Nutrient trading tool. Ecosystem services such as market for trading nitrogen are emerging across the country and indeed all over the world. One of the greatest needs is a scientifically based technology tool that producers and other users can utilize to measure nitrogen not released to the aquatic environment through conservation. This tool (NLEAP in addition to the web interface) will reach the prototype stage with the successful implementation of this agreement.
Outcomes with completion dates:
Keywords: Construction, Inspection. engineering