

Greenhouse Gases and Carbon Sequestration

Overview

Climate change and carbon offset trading have gained great interest in many parts of the agricultural community over the past few years. But why should we as NRCS conservationists be interested in these issues? Conservation systems that we design and help implement can often have a positive influence on the emission or storage of gases which, when in the atmosphere, can affect climate change. This course shows the importance of greenhouse gases to life on earth, the potential negative consequences of increasing greenhouse gas concentrations in the atmosphere, agricultural sources of greenhouse gases, and potential methods in which agriculture can reduce its net emissions of greenhouse gases to the atmosphere.

Objectives

Upon completion of the training, participants will be able to:

- Explain the greenhouse effect
- Discuss the characteristics of sunlight and earth's radiation balance
- Determine how changes in greenhouse gas emissions can influence global climate change
- Identify methodologies in which agricultural and natural resource systems can mitigate greenhouse gas emissions and effects
- Given a scenario, explain the importance of a holistic approach to the reduction of greenhouse gas emissions

Prerequisites

1. Air Quality, Climate Change and Energy

Delivery Method

This program is Web-based.

Duration

Approximately 60 minutes.

Target Audience

The course is designed for all NRCS employees, but particularly for State Air Quality and Energy Contacts, conservation planners, partnership employees, and conservation technical assistance providers to assist them in integrating management of greenhouse gas emissions into conservation planning and programs.

NEDC Contact

[NEDC Webmaster](#).

Technical Contact

Carolyn Olson, Roel Vining

Enrollment for Greenhouse Gases and Carbon Sequestration

Enrollment instructions are provided below. Be sure to select the appropriate link to ensure successful enrollment.

USDA Employees

Proceed to the [Aglearn](#) to login using your USDA eAuthentication ID and password. This is the same as your WebTCAS ID and password.

Select **Catalog**, Select **Natural Resources Conservation Service** under **Subject Area Menu**, Choose the course name by selecting either the button **Launch content** or **Add to Learning Plan** to register and complete the course.

District Employees with Aglearn account

Proceed to the [Aglearn](#) to login using your USDA eAuthentication ID and password. This is the same login ID and password used for the TechReg TSP application or profile.

Select **Catalog**, Select **Natural Resources Conservation Service** under **Subject Area Menu**, Choose the course name by select the button **Launch content** or **Add to Learning Plan** to register and complete the course.

If you do not have an account. Specific instructions on securing a USDA user account and password are located at [getting started](#). For further assistance contact the USDA state office in your state for assistance in obtaining an eAuthentication ID and password and AgLearn account.

Technical Service Providers

Proceed to the [Aglearn](#) to login using your USDA eAuthentication ID and password. This is the same logon ID and password used for the TechReg TSP application or profile.

Select **Catalog**, Select **Natural Resources Conservation Service** under **Subject Area Menu**, Choose the course name by select the button **Launch content** or **Add to Learning Plan** to register and complete the course.

If you are anticipating becoming a Technical Service Provider please review the entire process at [TechReg](#). Please familiarize yourself with this process if you have not already done so. Specific instructions on securing a USDA user account and password are located at [getting started](#).

Other USDA Customers

For those not in the above categories contact the USDA state office in your state for assistance in obtaining an eAuthentication ID and password and AgLearn account.

To obtain this contact information for your state you can go to the [Aglearn](#) website click on **contact us**. Scroll down to **NRCS** and click on the link that says **state contacts**.