

IMPACT



University of Idaho
Cooperative
Extension System

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Native Americans Evaluate Fertilizer Effect On Corn Production

The Situation

Gardeners on the Nez Perce Reservation desire to maximize production of sweet corn in their gardens.

Our Response

Work cooperatively with the United States Department of Agriculture Nez Perce Tribal Food Bank to establish a sweet corn garden in Lapwai, Idaho. Apply four different nitrogen rates for corn yield evaluation purposes.

Our Goals

- ◆ Work cooperatively with tribal members on the Nez Perce Reservation.
- ◆ Establish a corn garden.
- ◆ Evaluate and compare different nitrogen fertilizer rates on sweet corn yield.
- ◆ Provide educational tours of the corn garden.
- ◆ Provide fresh sweet corn to the United States Department of Agriculture/Nez Perce Tribe Food Bank.

Achievements

- ◆ A sweet corn garden was cooperatively established with the Nez Perce Tribe Food Bank.
- ◆ Three nitrogen fertilizer rates of 150, 125, 100, and zero pounds per acre were applied to separate replicated areas of the garden.

- ◆ Sweet corn yield measurements were taken from each of the nitrogen treatment areas and compared statistically.
- ◆ Comparison results indicate that both the 150 and 125 pounds nitrogen per acre produced significantly better than the lower nitrogen rate application.
- ◆ Sweet corn yield was maximized at 150 pounds nitrogen per acre, and produced significantly better than all other nitrogen rate comparisons.
- ◆ An educational garden tour was conducted.
- ◆ Fresh sweet corn was provided to the USDA/Nez Perce Tribe Food Bank.

Cooperators

Nez Perce Tribal Food Bank
UI/Nez Perce County Master Gardeners

For More Information

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University of Idaho and U.S. Department of Agriculture Cooperating

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