Andrew Lenssen USDA, ARS, NPARL, Sidney, Montana



Background

Annual hay crops, including barley, are well adapted to the Northern Great Plains. Incrop herbicides typically are not used on annual forages, but weed control is done prior to planting, either by tillage or herbicide application.

Objectives

Compare the influence of preplant weed management and planting date on:

- . weed density
- 2. barley and weed forage yield and quality
- 3. water use and water use efficiency
- 4. weed seed production

Material and Methods

Description:

- 1) randomized complete block in a split-plot arrangement
- 2) whole plot factor is three planting dates
- 3) subplot factor is three preplant weed management systems
- 4) experiment was conducted in 2004 and 2005 near Froid, MT

Preplant weed management methods:

- 1) tillage with sweeps,
- 2) zero tillage with glyphosate applied within 24 after planting, and
- 3) zero tillage without preplant weed control.

Planting dates:

2004: 23 April, 1 June and 16 June 2005: 20 April, 24 May and 15 June

Preplant Weed Management and Planting Date



Influence Barley Forage Yield and Quality

