

VII SITE INFORMATION

THIS IS GENERAL SITE INFORMATION THAT MAY CHANGE FOR SPECIFIC TRIALS.

Location: Thief River Falls, MN

Co-operator: Ken and Connie Mehrkens

Previous crop: Wheat

Soil test results: (AGVISE Laboratories)

Organic matter content: 3.4%

Macronutrient Levels: (0-6", 6-24")

Nitrogen - 14, 21 lb/ac
Phosphorus - 32 lb/ac
Potassium - 436 lb/ac
Sulphur - 20, 360 lb/ac

Micronutrient Levels: (0-6")

Boron - 1.2 lb/ac
Copper - 1.3 lb/ac
Iron - 41.2 lb/ac
Zinc - 1.7 lb/ac
Chlorine - 100 lb/ac (0-24")
Manganese - 2890 lb/ac

Recommended Fertilizer Applications - (lb/ac of actual nutrient):

Target Yield (lb/ac)	Probability of Precip. (%)	Precip. Required (inches)	Nitrogen	Phosphate	Potash	Sulphur
2200	N/A	N/A	90	0	0	0

Target yield: 2200 lb/ac

Fertilizer applied: Spring: N - 100 lb/ac P - 30 lb/ac K - 0 lb/ac S - 10 lb/ac
Bolting: Boron - 0.15 lb/ac

Soil association/zone: Clearwater clay
Reiner Variant sandy clay loam

Soil texture: Clay loam

Soil pH: 7.6

Salinity: 0.39, 0.59 mmho (0-6", 6-24") (slightly saline)

Tillage operations:

The field was chisel plowed twice in the fall of 2001 with the exception of the fall dormant seeding trial, which was fertilized and lightly disced once in the fall of 2001. The remainder of the field was cultivated once with coil packing after a spring application of fertilizer. The spring-seeded treatment in the fall dormant seeding trial was cultivated once prior to seeding.

Seeding method:

The field was seeded with a John Deere 9350 double disc press drill

Dates: October 18 and November 6, 2001
May 18 - 21 and May 29, 2002

Depth: ½ to 1 inch deep

Rate: 5.0 lb/ac with the following exceptions:
4.0 lb/ac - InVigor 2663 and InVigor 2733
5.5 lb/ac - DKL 34-55 in the Fungicide trial

Herbicides applied:

- A) Conventional varieties in the systems trial - Assure II (10 oz/ac), non-ionic surfactant (32 oz/100 gal), Stinger (5 oz/ac), Muster (0.40 oz/ac)
- B) Liberty Link varieties in the systems, pushing and canopy manipulation trials - Liberty (28 oz/ac), Poast (6 oz/ac), ammonium sulfate (1.5 lb/ac)
- C) Clearfield varieties - Beyond (4 oz/ac), non-ionic surfactant (3.5 oz/ac), 28-0-0 (32 oz/ac), Stinger (4 oz/ac)
- D) Roundup Ready varieties in the systems, fall dormant seeding, seed treatment, and fungicide trials - Roundup Ultra Max (13 oz/ac), ammonium sulfate (1.0 lb/ac)
- E) Optimizing canola production trial - Liberty (28 oz/ac), Select (2 oz/ac), ammonium sulfate (1.5 lb/ac)

Fungicides applied:

Ronilan (16 oz/ac) on July 8 at 15 to 55% bloom

Swathing:

Started: August 6 Finished: August 29

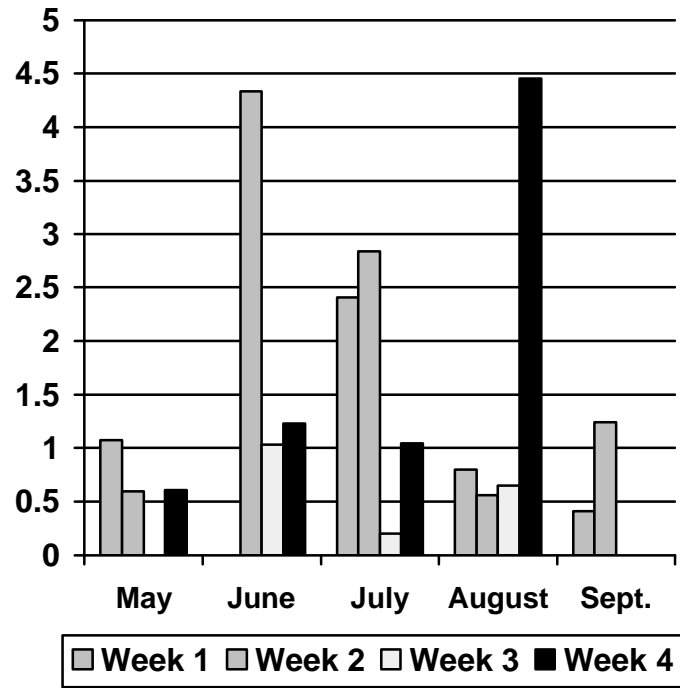
Combining:

Started: September 4 Finished: September 20

Comments:

Most of the site was seeded into good moisture. The exceptions to this were the back two replicates of the seed treatment and pushing trials, which were slightly cloddy from working that area of the field when it was somewhat wet. Rain showers within ten days after seeding provided adequate moisture for germination in the cloddy areas. Flea beetles were observed at the site around June 4. Damage was mainly restricted to the areas that did not have insecticide seed treatment. The canola looked good until the first big rain on June 9. Most of the field drained adequately. However, frequent rains throughout June kept the ground saturated and restricted canola growth in all but a few of the highest areas of the site. Windy conditions delayed herbicide applications to trials where drift was a concern. Most trials were sprayed at the 2 to 5-leaf stage. The excess water stress on the crop and windy conditions caused herbicide applications on the systems trial to be delayed until most of the crop was in the 6-leaf to bolting growth stage. Continued heavy rains through out the summer resulted in large areas of many plots being substantially affected. Areas of individual plots, which were not suitable for yield calculations, were not harvested with the sample swath. If the remaining plot was not at least 200 feet then the plot was excluded from the trial. Conditions during and after swathing were cool with numerous light showers providing ideal conditions for curing of the swath.

Rainfall



Total accumulated moisture = 22.75 inches (577.9 mm)