

## 1986 INTERSEEDED ALFALFA VARIETY RESPONSE TRIAL II

This trial is designed to evaluate the response and establishment of eight alfalfa varieties to interseeding. The purpose of this trial is to help determine which alfalfa variety or varieties are suitable for interseeding into rangeland for pasture use.

These plots were established on 0.59 acres located on the SE ¼, SW ¼, SE ¼, Sec. 22 T. 143 N., R. 96 W. at the ranch headquarters of the Dickinson Experiment Station. The 80 x 320 foot plots were arranged in a block design with three replications. The soil was shambo loam. The range site was silty. The alfalfa varieties included were Anik, Drylander, Kane, Ladak, Mandan A1801, Rangelander, Spredor II and Travois. Each variety was seeded on 22 April 1986 at the rate of 0.50 PLS/row/acre, with 30 lbs. N and 30 lbs. P<sub>2</sub>O<sub>5</sub>/acre, using a ten foot row spacing and three inch twisted chisel and 12 inch sweep behind coulter pair as a furrow opener.

Data that were collected from these plots were monthly alfalfa seedling counts and alfalfa seedling heights.

## Interseeded Alfalfa Variety Response Trial II

<b>Location:</b>	Dickinson Experiment Station Ranch Headquarters SE ¼, SW ¼, SE ¼ Sec. 22, T. 143 N., R. 96 W.
<b>Replication:</b>	Three Block Design
<b>Study Size:</b>	80° x 320°
<b>Plot Size:</b>	10° x 100°
<b>Alleys:</b>	10°
<b>Soil:</b>	Shambo loam
<b>Range Site:</b>	Silty
<b>Seeding Date:</b>	22 Apr 1986
<b>Seeding Rate:</b>	0.50 PLS/row/acre
<b>Fertilizer Rate:</b>	30 lbs. N and 30 lbs. P <sub>2</sub> O <sub>5</sub> /acre
<b>Row Spacing:</b>	10 feet
<b>Furrow Width:</b>	3 inches
<b>Alfalfa Varieties:</b>	Anik Drylander Kane Ladak Mandan A1801 Rangelander Spredor II Travois

**Table 52. Alfalfa Variety Plant Counts per Meter of Row for the 1986 Interseeded Alfalfa Variety Response Trial at the Dickinson Experiment Station, 1988**

<b>Variety</b>	<b><u>10 Jun</u></b>	<b><u>6 Jul</u></b>	<b><u>4 Aug</u></b>	<b><u>Mean</u></b>
Anik	3.93	3.13	1.80	2.95
Drylander	3.07	2.33	3.47	2.96
Kane	5.27	4.73	5.93	5.31
Ladak	4.47	4.67	4.33	4.49
Mandan A1801	5.67	5.47	5.60	5.58
Rangelander	2.73	4.87	4.67	4.09
Spredor II	4.80	4.07	4.60	4.49
Travois	4.40	4.87	5.07	4.78

**Table 53. Mean Alfalfa Plant Heights in Centimeters for the 1986 Interseeded Alfalfa Variety Response Trial at the Dickinson Experiment Station, 1988**

<b>Variety</b>	<b>10 Jun</b>
Anik	19.93
Drylander	16.45
Kane	18.87
Ladak	20.16
Mandan A1801	18.80
Rangelander	16.29
Spredor II	20.26
Travois	18.75