

Technical Bulletin

Genes that fit your farm.

SeCan

Canada's Seed Partner

Ponoka 2 Row Feed and Silage Barley



Ponoka is a 2 row, rough awned, dual purpose feed and silage barley with high silage and grain yield potential. Ponoka has excellent disease resistance for the Western Prairies. Ponoka has similar silage yield and 10% higher grain yield than Seebe.

Strengths:

- 8% higher grain yield than CDC Dolly over all sites in the 2001–02 Coop trials
- Similar % plump and higher test weight than CDC Dolly
- Much stronger straw than CDC Dolly
- Resistant to loose smut, false loose and covered smut

Neutral Traits:

- 3 cm taller than CDC Dolly, similar to Harrington in height
- Intermediate resistance to scald, net blotch, common root rot

Weaknesses:

- Maturity 3 days later than CDC Dolly and Harrington

Breeder:

Field Crop Development Centre
Lacombe, Alberta

2001-2002 Western Cooperative 2 Row Barley Registration Trials

Entry	Yield (% CDC Dolly)	Maturity (days)	Height (cm)	Lodging 1 = erect 9 = flat	Test Weight (lb/bu)	% Plump	Scald Rating	Net Blotch Rating	Loose Smut	Other Smuts	Common Root Rot
CDC Dolly	100	91.6	63.8	6.8	65.8	93.0	I	S	S	R	I
Harrington	96	91.6	66.3	6.7	64.3	88.0	S	S	S	S	I
Ponoka	108	94.6	66.7	4.7	66.0	87.0	I	I	R	R	I

S=Susceptible; I=Intermediate; R=Resistance

Niobe

2 Row Feed Barley



2 row rough awned, feed barley. It has grain yield, test weight and silage yield comparable to CDC Dolly. However, it is earlier maturing and stronger strawed than CDC Dolly.

Strengths:

- Stronger straw than CDC Dolly
- Intermediate Scald resistance
- Very high test weight
- One day earlier than CDC Dolly
- Improved net blotch resistance

Weaknesses:

- Susceptible to spot blotch, loose smut and root rot

Breeder:

Field Crop Development Centre
Lacombe, Alberta

2000-01 Western Cooperative Two Row Barley Registration Trial

Entry	Average Yield (% Harrington)	Maturity (days)	Height (cm)	Lodging 1=erect	Test weight (kg/hL)	1000 Kernel weight (mg)	% Plump	Scald Rating	Net Blotch Rating
Harrington	100	94	77	6	64	43	89	S	HS
CDC Dolly	108	95	73	6	66	47	93	I	S
Niobe	109	95	80	6	66	43	86	I	I

HS=Highly Susceptible, S=Susceptible, I=Intermediate, R=Resistant

Vivar Semi-Dwarf 6 Row Feed and Silage Barley



Vivar is a 6 row, semi-dwarf, rough awned feed barley. It has larger seed size, higher test weight and greater % plump kernels than other semi-dwarf varieties like CDC Earl, Tukwa and Kasota

Strengths:

- Large, plump kernels with higher test weight than other 6 row varieties
- 8% higher grain yield than AC Lacombe, 15% higher yield than Kasota (1998-99 Coop Trials all sites)
- 10% higher grain yield than AC Lacombe in the black soils of Central Alberta (1998-99 Coop Trials)
- Maturity similar to AC Lacombe
- Moderate resistance to net blotch and common root rot
- 10% higher forage yield than CDC Earl, 4% higher forage yield than Kasota (1997-99 Silage trials: AAFRD)

Neutral Traits:

- Scald resistance similar to Tukwa and AC Lacombe but better than CDC Earl
- 10 cm shorter than AC Lacombe, 3 cm taller than CDC Earl

Weaknesses:

- Lodging resistance similar to Tukwa, Kasota and CDC Earl

Breeder:

Jim Helm
Field Crop Development Centre
Lacombe, Alberta

1998-99 Western Cooperative Semi-dwarf Barley Registration Trials

Entry	Yield (% AC Lacombe)	Maturity (days)	Height (cm)	Lodging 1 = erect 9 = flat	Test Weight (kg/hL)	Kernel Weight (mg)	% Plump	Scald Rating	Net Blotch Rating	Loose Smut	Other Smuts	Common Root Rot
AC Lacombe	100	95.5	93.8	4	60.9	40.1	64	I	I	S	R	I
Kasota	94	92.7	82.8	3	61.4	32.6	47	R	I	S	R	I
CDC Earl	97	96.1	82.6	3	59.8	35.1	57	S	I	S	R	I
Tukwa	99	94.3	83.9	3	62.3	33.4	67	I	S	S	R	I
Vivar	108	95.9	85.3	3	61.8	40.8	77	I	I	S	R	I

S=Susceptible; I=Intermediate; R=Resistance



Manny

6 Row Feed and Silage Barley

Manny is a 6 row, rough awned, dual purpose feed and silage barley with high silage and grain yield. Manny is a strong-strawed variety with maturity one day earlier than AC Lacombe. Manny is the first 6 row variety to have multiple gene resistance to scald and intermediate resistance to Net Blotch, loose smut and surface borne smuts. The disease resistance package of Manny makes it well adapted to Central Alberta growing conditions.

Strengths:

- 11% higher grain yield than AC Lacombe in the black soils of Central Alberta in the 2001-02 Coop Trials
- 80% plump kernels compared to AC Lacombe at 73% plump in the 2001-02 Coop trials
- 7% higher silage yield than AC Lacombe in Central Alberta (FCDC 1998-02 silage trials)
- One day earlier maturity than AC Lacombe
- Better lodging resistance than AC Lacombe
- Multiple gene resistance to Scald

Neutral Traits:

- Test weight similar to AC Lacombe
- Straw height similar to AC Lacombe
- Intermediate resistance to loose smut and surface borne smut
- Intermediate resistance to net blotch and spot blotch
- Intermediate resistance to root rot

Weaknesses:

- Kernel size smaller than AC Lacombe

Breeder:

Field Crop Development Centre
Lacombe, Alberta

2001 and 2002 Western Cooperative 6 Row Barley Registration Trials

Entry	Yield (% AC Lacombe) Central Alberta	Maturity (days)	Height (cm)	Lodging 1 = erect 9 = flat	Test Weight (kg/hL)	Kernel Weight (mg)	% Plump	Scald Rating	Net Blotch Rating	Loose Smut	Other Smuts	Common Root Rot
AC Lacombe	100	91.6	71.8	2.6	59.3	42.5	73.5	I	I	S	R	S
AC Rosser	111	93.6	68.5	2.8	61.0	42.3	83.9	S	I	S	R	I
Manny	111	90.3	72.2	2.3	60.1	38.0	80.3	R	I	I	R	I

S=Susceptible; I=Intermediate; R=Resistance

