

# 'PONOKA'

January 2004 - Field Crop Development Centre

Ponoka is a 2-row, rough-awned, hulled feed barley registered by the Field Crop Development Centre (FCDC) at Lacombe in 2003. It is marketed by SeCan Association. Ponoka has high grain and biomass yield potential and excellent disease resistance for the western Prairies.

Ponoka was tested in the Western Cooperative Registration Trials as TR 01656 and in FCDC trials as H93003006Z. Its pedigree is H92001F<sub>1</sub>/TR229 (H92001F<sub>1</sub>=(Harrington/Camelot)F<sub>1</sub>).

The Field Crop Development Centre yield data show that Ponoka yields 15% higher than the feed check CDC Dolly under high yielding conditions (>8.0 t/ha) with an average yield advantage of 6%. Silage yields are 7% higher than those for AC Lacombe (the most common silage variety in Alberta) and 11% higher than CDC Dolly. While Ponoka yields well in the brown soil zone, it's percent plump is low probably due to late season drought.

Ponoka has the following disease reaction: Resistant (R) to the surface-borne smuts and true loose smut. Moderately resistant (MR) to the net form of net blotch; moderately susceptible (MS) to the spot form. Its reaction to scald ranges from R to MS depending on the race of scald, giving it an overall rating of MR. Its reaction to fusarium head blight and common root rot is MR/MS; to spot blotch MS, and to stem rust, septoria and barley yellow dwarf is susceptible.

## WESTERN COOPERATIVE BARLEY TRIALS

Summary of Yield and Agronomic Data for all Stations Averages for 2001 and 2002 Co-ops

	<b>Yield</b>	<b>Days to</b>	<b>Days to</b>	<b>Height</b>	<b>Test Weight</b>	<b>1000 KWT</b>	<b>% Plump</b>
<b>Entry Name</b>	<b>kg/ha</b>	<b>Head</b>	<b>Maturity</b>	<b>cm</b>	<b>kg/hl</b>	<b>g</b>	<b>&gt;6/64</b>
CDC DOLLY	4368.0	59.3	91.6	63.8	65.8	47.4	93.0
HARRINGTON	4213.0	60.7	91.6	66.3	64.3	43.5	88.0
<b>PONOKA</b>	<b>4716.0</b>	<b>63.3</b>	<b>94.6</b>	<b>66.7</b>	<b>66.0</b>	<b>45.5</b>	<b>87.0</b>
Station years	31	23	28	32	31	31	18

## WESTERN COOPERATIVE BARLEY TRIALS – Yield and % Plump Averages by Soil Zones 2001 and 2002

	<b>Black Soil Zone</b>		<b>Black and Grey Soil Zones</b>		<b>Brown Soil Zone</b>	
<b>Entry Name</b>	Mean Yield (kg/ha)	Mean % Plump	Mean Yield (kg/ha)	Mean % Plump	Mean Yield (kg/ha)	Mean % Plump
CDC DOLLY	4323.0	93.5	4909.0	95.3	4026.0	90.4
HARRINGTON	4266.0	94.5	4783.0	89.0	3781.0	84.9
<b>PONOKA</b>	<b>4743.0</b>	<b>91.0</b>	<b>5507.0</b>	<b>92.9</b>	<b>4149.0</b>	<b>79.9</b>
# Station yrs	9	4	9	7	13	7

## FIELD CROP DEVELOPMENT CENTRE – Yield Trial Data 1998-2002

<b>Yield Class</b>	<b>&lt; 4.0 t/Ha</b>		<b>4.0 - 6.0 t/Ha</b>		<b>6.0-8.0 t/Ha</b>		<b>&gt;8.0 t/Ha</b>		<b>All</b>	
	Dry Yield (kg/ha)	% CDC Dolly	Dry Yield (kg/ha)	% CDC Dolly	Dry Yield (kg/ha)	% CDC Dolly	Dry Yield (kg/ha)	% CDC Dolly	Dry Yield (kg/ha)	% CDC Dolly
CDC DOLLY	3329.2	100.0	4893.77	100.0	7124.0	100.0	7976.22	100.0	5919.76	100.0
HARRINGTON	3291.1	98.9	4507.39	92.1	6221.2	87.3	6979.73	87.5	5305.76	89.6
<b>PONOKA</b>	<b>3360.9</b>	<b>101.0</b>	<b>5158.48</b>	<b>105.4</b>	<b>7387.5</b>	<b>103.7</b>	<b>9148.83</b>	<b>114.7</b>	<b>6253.76</b>	<b>105.6</b>
Station years	6		16		18		5		45	

Continued

# 'PONOKA'

FIELD CROP DEVELOPMENT CENTRE – Agronomic Data 1998-2002

	<b>Maturity</b>	<b>1000 KWT</b>	<b>Test Wt.</b>	<b>Anthesis</b>	<b>Height</b>	<b>% Plump</b>	<b>Lodging ('99-'00)</b>
	(days)	(g)	(kg/hl)	(days)	(cm)	(%)	(0-9 scale)
CDC DOLLY	100.7	47.7	67.1	59.1	78.8	89.5	3.5
HARRINGTON	99.5	43.1	64.5	60.2	82.7	72.1	4.8
<b>PONOKA</b>	<b>103.7</b>	<b>45.1</b>	<b>66.3</b>	<b>63.6</b>	<b>83.9</b>	<b>86</b>	<b>3.8</b>
Station years	40	44	44	43	40	29	15

FIELD CROP DEVELOPMENT CENTRE – Silage Data 1998-2002

	<b>Station Years</b>	<b>Dry Yield Silage (kg/ha)</b>	<b>% CDC Dolly</b>
CDC DOLLY	4	11150.7	100
HARRINGTON	4	10511.7	94.3
<b>PONOKA</b>	<b>4</b>	<b>12395.9</b>	<b>111.2</b>



For information on Breeder Seed for research purposes contact:

Field Crop Development Centre  
5030 – 50 Street  
Lacombe, AB T4L 1W8  
Phone (403) 782-4641  
Fax (403) 782-5514

For information on commercial seed contact:

SeCan Association  
201 – 52 Antares Drive  
Ottawa, ON K2E 7Z1  
Phone (613) 225-6891  
Fax (613) 225-6422