

'MANNY'

January 2004 - Field Crop Development Centre

Manny is a 6-row, rough awned, hulled feed barley developed by the Field Crop Development Centre in Lacombe and registered in 2003. Manny is a strong-strawed variety with good lodging resistance for a normal height variety, and has high silage yields in central Alberta. It was tested in the Western Cooperative Trials as BT 562 and H90013004Z; the pedigree is BT 538/BT 626. Manny has a yellow aleurone, with a mid long rachilla with short hair. Manny is marketed by SeCan Association.

As indicated by water use efficiency data (yield per unit of applied water), Manny has as good as, or better, drought tolerance than AC Lacombe.

Manny has multiple gene resistance to scald, as shown in combined data from the Co-operative Tests, Alberta yield trials, and CIMMYT. Manny is resistant to the covered smuts and has intermediate resistance to true loose smut.

Manny is well suited to the high-yielding scald prone areas of Alberta. Its earlier maturity is also a bonus for central Alberta.

WESTERN COOPERATIVE BARLEY TRIALS									
Summary of Yield and Agronomic Data for all Stations Averages for 2001 and 2002 Co-ops									
	Yield	Days to	Days to	Height	Lodging	Test	Kernel	% Plump	
	kg/ha	Head	Maturity	cm	Score	Weight	Weight	>6/64"	Protein
Entry Name	(34 sites)	(27 sites)	(27 sites)	(31 sites)	(4 sites)	(26 sites)	(26 sites)	(17 sites)	(3 sites)
AC Lacombe	4538.0	57.2	91.6	71.8	2.6	59.3	42.5	73.5	12.0
AC Rosser	4854.9	57.5	93.6	68.5	2.8	61.0	42.3	83.9	12.0
MANNY	4467.1	56.7	90.3	72.2	2.3	60.1	38.0	80.3	11.8

WESTERN COOPERATIVE BARLEY TRIALS - Yield (kg/ha) Data by Soil Zone 2001-2002					
	Eastern Black Soil	Brown Soil	Western Black Soil	Grey Wooded Soil	Irrigation
Entry Name	Mean (15 sites)	Mean (7 sites)	Mean (5 sites)	Mean (5 sites)	Mean (2 sites)
AC Lacombe	4480.8	3133.2	5239.0	4242.2	6699.0
AC Rosser	4933.3	3226.4	5810.4	4162.8	7368.5
MANNY	4106.6	3066.7	5799.8	4040.0	6750.5

FIELD CROP DEVELOPMENT CENTRE - Yield Data by Yield Class 1998-2002						
Yield Class	< 4.0 t/Ha	4.0 - 6.0 t/Ha	6.0 - 8.0 t/Ha	>8.0 t/Ha	Overall	Overall
	Yield (kg/ha)	Yield (kg/ha)	Yield (kg/ha)	Yield (kg/ha)	Yield (kg/ha)	% AC Lacombe
AC Lacombe	3654	5328	7320	9254	6522	100.0
MANNY	3568	5255	7614	10147	6766	103.7
Station Years	8	15	17	10	50	

FIELD CROP DEVELOPMENT CENTRE - Agronomic Data 1998-2002							
	Maturity	1000 KWT	Test Wt.	Anthesis	Height	% Plump	Lodging
	(days)	(gms)	(kg/hl)	(days)	(cm)	(%)	(0-9 scale)
AC Lacombe	100.7	41.6	61.2	59.0	90.4	59	2.6
MANNY	99.7	38.0	61.5	58.0	91.3	69	2.1
Station Years	44	49	49	46	44	29	7

Continued

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FIELD CROP DEVELOPMENT CENTRE - Silage Yield Data 1998-2002		
	Dry Silage Yield (kg/ha)	% AC Lacombe
AC Lacombe	11651	100
MANNY	12557	107.3
Station Years	4	4

FIELD CROP DEVELOPMENT CENTRE - Water Use Efficiency Data 1999-2002					
Water Use Efficiency for Grain Yield as an Indicator of Drought Resistance					
	Grain Yield (kg/ha/mm)				
	1999	2000	2001	2002	Mean
Control*	27.7	13.9	13.1	10.5	16.3
MANNY	13.9	8.9	8.7	8.9	10.1
AC Lacombe	11.9	8.8	9.6	4.4	8.7
Harrington	x	4.1	10.5	6.6	7.1

* Control = Mean of two well-watered varieties (Tukwa 6-row/Harrington 2-row)



For information on Breeder Seed for research purposes contact:
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