

'TYTO'

NEW HULLESS BARLEY VARIETY

August 2002- Field Crop Development Centre

The new variety 'Tyto' is a 6-row hulless barley developed by the Field Crop Development Centre in Lacombe and marketed by Progressive Seeds Ltd.

Tyto is taller, higher yielding and slightly later than Falcon with 7% higher silage yield. We expect that it will replace Falcon in the dairy silage market. In Alberta, Tyto has higher grain yield than Falcon. It has good seed weight, test weight and high silage production.

Tyto was tested in the Western Cooperative Hulless Barley Trials and Field Crop Development Centre yield trials as HB513 and T89047103NX from 1996 to 2001 and received registration in 2002. It is a 6-row, smooth-awned, hulless feed barley. Tyto is semi-dwarf in height, with semi-compact medium-sized nodding spikes.

This variety has intermediate scald resistance, good resistance to surface-borne smuts, and resistance to stem rust and septoria. Similar to the check varieties, Tyto is susceptible to common root rot.

The Field Crop Development Centre data show Tyto tends to yield 2% to 12% more grain than Falcon in the 6.0 t/ha to 8.0 t/ha or greater production areas. Tyto also showed 7% higher silage yield than Falcon.

WESTERN CO-OPERATIVE HULLESS BARLEY TRIALS Yield and Agronomic Data, 2000 and 2001 Averages

Entry Name	Yield (kg/ha)	Maturity (days)	Height (cm)	Test Wt. (kg/hL)	1000 KWT (g)	Lodging (0-9 scale)	%Plump (%)	Heading (days)
CDC MCGWIRE	4843	98	81	78	38	3	78	63
FALCON	4122	96	68	75	33	2	60	62
TYTO	4050	99	77	72	37	1	79	64

FIELD CROP DEVELOPMENT CENTRE Yield Trial Data 1997-2001

Yield Class	< 4.0 t/ha			4.0 - 6.0 t/ha			6.0-8.0 t/ha			>8.0 t/ha			All classes		
	Stn Yrs	Dry Yield (kg/ha)	% Falcon	Stn Yrs	Dry Yield (kg/ha)	% Falcon	Stn Yrs	Dry Yield (kg/ha)	% Falcon	Stn Yrs	Dry Yield (kg/ha)	% Falcon	Stn Yrs	Dry Yield (kg/ha)	% Falcon
FALCON	3	2637.8	100.0	21	4533.3	100.0	21	6494.2	100.0	7	7746.2	100.0	52	5648	100.0
TYTO	3	3253.0	123.8	21	4493.1	99.6	21	6625.2	102.7	7	8668.3	112.1	52	5845	103.9

FIELD CROP DEVELOPMENT CENTRE - Agronomic Data 1997-2001

	MATURITY		1000 KWT		TEST WT.		ANTHESIS		HEIGHT	
	Stn Yrs	Maturity (days)	Stn Yrs	1000 KWT (gm)	Stn Yrs	Test Wt. (kg/hl)	Stn Yrs	Anthesis (days)	Stn Yrs	Height (cm)
FALCON	46	98.5	52	32.3	52	74.7	48	61.2	52	73.3
TYTO	46	100.4	52	37.1	52	74.8	48	62.0	52	82.8

FIELD CROP DEVELOPMENT CENTRE - Silage Data 1997-2001

	Dry Yield	
	Silage kg/ha	% Falcon
FALCON	11992	100
TYTO	12860	107