

1996 North Dakota

Durum Wheat

Variety Performance Descriptions

Compiled by:

Dr. Michael D. Peel
Extension Agronomist

Dr. Duane R. Berglund
Extension Agronomist

The relative performance of the varieties are shown in table form. Some varieties may not be recorded in the tables due to insufficient testing, lack of seed availability or they offer no yield or disease advantage over similar varieties. Single year data is available from each experiment station. Descriptions of most common varieties grown in the region are included for information purposes.

Information contained in this circular is based on research conducted by the following experiment station scientists, plant breeders, cereal chemists, and plant pathologists.

Blaine Schatz - Carrington
Dr. Pat Carr - Dickinson
Eric Eriksmoen - Hettinger
Bryan Hanson - Langdon
Ron Stover - Langdon
Dr. Mark Zarnstorff - Minot
Neil Riveland - Williston

Dr. E. Elias - Durum Breeder
Dr. L. Francl - Plant Pathology
Dr. J. Rasmussen - Plant Pathology
Dr. R. Stack - Plant Pathology
Dr. M. McMullen - Extension Plant Pathology

Durum Variety Description

Variety	Agent		Chaff	Straw	Reaction to Disease ²						Quality Factors		
	or	Year			Stem	Leaf	Foliar	Head Blight	Test	Kernel	Overall		
	Origin ¹	Released			Rust	Rust	Disease	(Scab)	Wt.	Size ³	Quality ⁴		
AC Melita	Can.	1995	white	tall	med.	med.	R	N/A	N/A	S	avg.	large	4
Ben	ND	1996	white	med.	strong	med.	R	R	MR	S*	high	large	4
Cando	ND	1975	tan	s.dwf.	v.strg.	med.	R	R	M	VS	avg.	small	2
Dressler	AgriPro	1996	white	tall	med.	med.	R	MR	N/A	VS	avg.	large	4
Fjord	AgriPro	1986	white	tall	strg.	m.early	R	R	M	S	high	large	4
Kyle	Can.	1984	white	tall	weak	med.	R	MR	M	N/A	avg.	large	4
Laker	WPB	1985	white	s.dwf.	strg.	med.	R	MR	S	S	avg.	med.	3
Lloyd	ND	1983	white	s.dwf.	v.strg.	med.	R	MR	S	VS	avg.	med.	3
Medora	Can.	1983	white	tall	strg.	m.early	R	R	MS	VS	high	large	4
Monroe	ND	1985	white	tall	med.	early	R	R	M	VS	avg.	large	4
Munich	ND	1995	white	med.	v.strg.	med.	R	R	MR	S*	avg.	med.	4
Renville	ND	1988	white	tall	med.	med.	R	R	M	S*	high	med.	4
Rugby	ND	1973	tan	tall	v.strg.	m.early	R	R	MR	S*	avg.	med.	2
Vic	ND	1979	white	tall	med.	m.early	R	R	MR	S*	high	large	4
Voss	AgriPro	1994	white	s.dwf.	v.strg.	med.	R	MR	MS	S	avg.	med.	3
Ward	ND	1972	tan	tall	v.strg.	m.early	R	R	MR	S	avg.	med.	2

¹ Refers to agent or developer: WPB = Western Plant Breeder.

² R =resistant; MR = moderately resistant (slow rusters); M = intermediate; MS = moderately susceptible; S = susceptible; VS = very susceptible; Head Blight = Scab; Foliar Disease = reaction to tan spot and septoria leaf spot complex. **Letter ratings for head blight (scab) based on visual head symptoms.**

*** Indicates yields and/or quality have often been higher than would be expected based on visual head blight symptoms done.**

³ No. seeds/lb.: Large = less than 11,000; medium = 11,000-12,000; small = more than 12,000.

⁴ 1. Very poor quality; 2. Poor quality; 3. Average quality; 4. Good quality. Quality assessment by the Department of Cereal Science, NDSU.

Durum Yield (bu/A) Performance 1994-1996

Variety	Casselton Station		Langdon Station		NE Area	Carrington Station		SC Area	Williston Station		NW Area
	1996	3 Yr	1996	3 Yr	1996	1996	3 Yr	1996	1996	3 Yr	1996
AC Melita	--	--	38	--	--	--	--	--	--	--	--
Ben	87	--	46	45	49	--	--	34	39	42	55
Dressler	--	--	42	--	44	--	--	--	--	--	60
Fjord	--	--	34	--	--	--	--	--	39	--	--
Kyle	--	--	--	--	--	--	--	--	--	45	59
Laker	--	--	--	--	--	--	--	--	43	--	--
Lloyd	81	--	35	33	--	--	--	--	39	42	59
Medora	84	--	42	44	--	37	--	--	37	41	59
Monroe	83	--	43	44	47	28	30	25	33	40	54
Munich	89	--	46	--	51	36	39	35	37	41	58
Renville	94	--	44	49	50	28	35	24	38	--	61
Rugby	80	--	50	47	50	35	40	33	--	--	--
Sceptre*	82	--	--	--	--	35	36	--	36	40	56
Vic	85	--	39	44	--	30	32	--	37	39	55
Voss	--	--	38	36	--	--	--	--	39	41	59
Ward	--	--	44	45	--	37	--	--	36	40	57

* Not in variety description

NE Area = Langdon Station, Nelson, Pembina, Ramsey, Towner, and Walsh Counties

SC Area = Carrington Station (dryland, recrop), Dazey and Wishek

NW Area = Williston Station (fallow, early planting, recrop, no-till), Burke Co., Divide Co., McKenzie Co., and Mountrail Co.

Durum Yield (bu/A) Performance 1994-1996 (Continued)

Variety	Minot Station		NC Area	Hettinger Station		SW Area	Dickinson Station		WC Area
	1996	3 Yr	1996	1996	3 Yr	1996	1996	3 Yr	1996
AC Melita	27	--	27	71	--	--	56	--	--
Ben	29	36	31	71	67	52	59	52	68
Dressler	29	--	27	72	--	--	58	--	--
Fjord	--	--	--	--	--	--	--	--	--
Kyle	--	--	--	--	--	--	--	--	--
Laker	--	--	--	73	59	--	57	49	--
Lloyd	27	33	24	80	63	--	64	50	--
Medora	29	34	28	68	60	--	53	45	--
Monroe	22	32	29	72	65	--	52	45	--
Munich	26	34	31	70	63	49	56	49	70
Renville	24	35	30	75	66	52	61	51	70
Rugby	31	37	31	68	66	--	52	50	--
Sceptre*	26	33	29	71	63	--	58	50	--
Vic	24	31	26	71	61	48	56	50	61
Voss	--	--	--	79	62	51	54	51	61
Ward	29	34	28	72	64	--	57	51	--

NC Area = Minot Station, (fallow, conv. Recrop, no-till recrop), McHenry, Pierce, and Rolette Counties

SW Area = Hettinger Station (fallow), Regent, Scranton and Selfridge

WC Area = Dickinson Station, (fallow), Glen Ullin