

Hard Red Winter Wheat

Survival was good in the 1987-88 winter wheat comparison trials on both summer-fallow and recrop. Stands were seriously reduced by wheat streak mosaic, and the crop was damaged further by the severe drought and high temperatures prevailing throughout the growing season. A heavy weed invasion of kochia and Russian thistle rendered the trials useless for purposes of variety comparison.

Long term yield data are given in Table 9. Yields recorded in 1988 at several other branch stations are summarized in Tables 10 and 11.

Table 9. Long Term Yields – Hard Red Winter Wheat, Dickinson

Variety	1984	1985	1986	1987	1988	Average
Roughrider	44.1	52.1	46.5	20.8	0.0	32.7
Winoka	45.4	44.6	48.4	24.2	0.0	32.5
Agassiz	45.9	50.0	50.6	17.3	0.0	32.8
Siouxland	---	---	59.4	11.8	0.0	23.7
Seward	---	---	---	24.4	0.0	12.2
LSD .05	7.3	2.5	3.8	4.8		4.9
Yield averages include value of 0 for 1988.						

**Table 10. 1988 Variety Trial – Conventional Tillage (Fallow or Recrop)
Summary of Grain Yields by Location**

Entry	Casselton	Hettinger	Minot	Williston	4-Location	
					Yield	Survival
	-----Bu/A-----					
Agassiz	28.4	4.4	3.4	6.9	9.6	89.1
Roughrider	23.1	4.1	4.4	7.7	8.9	89.5
Seward	25.7	5.5	3.4	8.0	9.7	86.6
Norstar	19.2	4.8	4.4	4.3	7.5	92.7
Rose	14.9	6.5	2.9	7.9	7.6	69.5
Winoka	14.3	---	5.9	7.6	8.8	63.6
Siouxland	13.5	8.0	3.8	9.3	8.3	58.6
Thunderbird	1.4	5.1	1.5	8.3	4.3	38.9
Abilene	3.6	---	2.9	10.1	5.7	11.4
Norwin	13.0	---	2.3	7.7	7.0	69.2
ND8212	20.0	4.7	4.3	6.8	8.2	82.7
ND8215	15.9	5.5	8.4	7.2	8.8	84.5
ND8286	20.1	4.3	6.3	7.6	8.9	89.1
ND8407	16.2	6.9	5.0	7.7	8.5	86.4
ND8460	14.6	4.7	1.9	6.4	6.4	67.7
\bar{X}	16.3	5.2	4.0	7.7	7.9	73.9
C.V.	32.8	33.4	34.2	7.9	37.2	16.8
LSD 0.05	8.9	2.5	2.0	0.9	2.1	8.7

**Table 11. 1988 Variety Trial – No Till
Summary of Grain Yields by Location**

Entry	Casselton	Langdon	Minot	Williston	4-Location	
					Yield	Survival
	-----Bu/A-----					
Agassiz	9.2	33.2	0.3	5.6	10.8	96.4
Roughrider	9.1	30.6	0.4	5.6	10.2	97.5
Seward	8.7	39.1	0.2	6.8	12.3	98.2
Norstar	9.5	34.3	0.2	3.8	10.5	98.9
Rose	7.1	30.3	0.2	6.3	9.9	95.7
Winoka	6.5	26.9	0.4	4.0	8.4	95.4
Siouxland	7.1	25.7	1.4	6.9	9.4	90.7
Thunderbird	9.7	38.7	0.6	7.1	12.6	93.2
Abilene	8.0	34.0	0.7	8.7	11.7	92.9
Norwin	5.3	30.9	0.3	3.8	9.0	95.7
ND8212	8.6	31.9	0.5	6.1	10.6	95.7
ND8215	9.9	31.0	1.2	5.1	10.6	98.6
ND8286	10.9	29.4	0.2	6.7	10.6	91.9
ND8407	8.0	27.2	0.2	5.9	9.3	96.4
ND8460	11.3	26.4	0.2	5.3	9.7	95.4
X	8.5	31.3	0.5	5.9	10.4	95.5
C.V.	33.6	17.4	72.8	16.9	27.2	8.0
LSD 0.05	NS	NS	0.5	1.4	2.0	5.4