

Table 1. 1986 Dickinson Hard Red Spring Wheat Variety Trial

Variety	Bu/A Avg.	Test Wt. Lbs.	Heading Date	Height In.
ND 628 *	69.8	59.5	26-Jun	27
Nordic *	65.5	63.5	24-Jun	28
Wheaton *	63.8	61.5	24-Jun	26
ND 627 *	62.7	63.0	23-Jun	28
SD 2956 *	62.0	62.0	23-Jun	27
Stoa	61.6	61.0	26-Jun	32
Leif *	60.8	61.0	24-Jun	29
Pioneer 2369 *	60.6	62.5	24-Jun	27
ND 625	59.1	61.5	26-Jun	31
Era *	58.1	60.0	25-Jun	26
Telemark *	58.0	61.5	23-Jun	24
SD 8026	57.5	62.0	20-Jun	28
ND 617 *	56.7	60.5	24-Jun	28
Marshall *	56.5	61.5	26-Jun	25
Lew	56.4	63.0	26-Jun	31
ND 618 *	56.1	61.0	25-Jun	27
HY-320 *	56.1	61.5	24-Jun	27
Walera *	55.9	58.5	26-Jun	27
Glenman *	55.8	60.5	25-Jun	26
Katepwa	55.3	61.0	23-Jun	32
Len *	54.6	61.5	25-Jun	28
ND 624	54.4	62.0	25-Jun	30
Norak *	54.2	62.5	22-Jun	26
ND 606	53.3	57.0	23-Jun	30
ND 629 *	53.0	60.5	28-Jun	29
Kenyon	52.7	60.5	24-Jun	32
Success *	52.5	60.5	27-Jun	31
Butte 86	51.8	63.0	21-Jun	27
ND 622	51.8	62.5	22-Jun	28
Columbus	51.8	61.0	26-Jun	34
Olaf *	51.3	61.0	23-Jun	28
Celtic *	51.2	62.0	23-Jun	27
ND 626 *	51.1	61.5	24-Jun	28
Norseman *	49.2	60.0	26-Jun	25
Leo 747 *	49.2	61.5	20-Jun	25
Waldron	49.2	60.0	22-Jun	32
Cutless *	49.2	62.5	22-Jun	28
Coteau	48.0	60.5	26-Jun	33
Guard *	47.5	62.5	21-Jun	26
Challenger *	46.7	62.0	21-Jun	26
Alex	45.4	60.0	25-Jun	28
Buckshot *	45.4	61.0	23-Jun	26
ND 623 *	44.9	62.5	23-Jun	27
Butte	44.0	63.5	21-Jun	29
Lancer	43.3	61.5	24-Jun	32
Apex 83 *	38.0	62.5	19-Jun	24
Bronze Chief *	15.3	56.5	18-Jun	22

* Semidwarf

Seeding Rate: 1,000,000 live seed/acre, (approx. 1 bu./ac.)

Seeding Date: April 24 Harvest Date: Aug. 7

Fertilizer Applied: 50 lbs./ac. 18-46-0, 36 lbs./ac. 46-0-0

Herbicide Applied: Hoelon-Buctril tank mix

L.S.D. 5% = 7.9 C.V. = 9.1%

Table 2. Long Term Yield Comparison – Hard Red Spring Wheat

Variety	Yield in Bushels per Acre					5 Year Average
	1982	1983	1984	1985	1986	
Alex	57.5	44.3	30.4	43.6	45.6	44.3
Butte	50.9	41.8	28.2	49.7	44.0	42.6
Coteau	47.3	41.0	37.4	36.5	48.0	42.0
Len	49.8	35.8	42.5	52.9	54.6	47.1
Stoa	49.5	45.9	54.3	51.6	61.6	52.6
Waldron	46.8	46.5	31.5	40.4	49.2	42.9
Walera	60.8	48.7	45.5	58.7	55.9	53.9
Columbus	49.0	39.3	36.3	40.8	51.8	43.4
Marshall	53.9	45.7	38.5	40.4	56.5	47.0
Pioneer 2369	58.6	45.9	45.1	37.2	60.6	49.5
Wheaton		44.0	50.2	45.4	63.8	50.9
LSD @ 5%	6.6	4.2	7.4	6.9	7.9	6.6

Table 3. 1986 Dickinson Off-Station Hard Red Spring Wheat

Variety	Dickinson	Beulah	Manning	Average 3-Sites	Average 8-Sites
Bushels per Acre					
Alex	45.4	42.9	47.9	45.4	42.6
Apex 83 *	38.0	39.1	40.4	39.2	37.8
Butte	44.0	44.0	41.3	43.1	40.7
Butte 86	51.8	52.8	43.7	49.4	45.9
Coteau	48.0	58.6	48.1	51.6	43.1
Cutless *	49.2	37.4	42.4	43.0	42.6
Guard *	47.5	54.2	52.0	51.2	42.4
Leif *	60.8	47.0	49.8	52.5	47.2
Len *	54.6	45.7	47.0	49.1	40.2
Leo 747 *	49.2	46.2	41.5	45.6	40.3
Marshall *	56.5	57.8	53.1	55.8	42.8
Norak *	54.2	54.5	50.6	53.1	48.5
Norseman *	49.2	55.0	46.8	50.3	41.0
Stoa	61.6	55.0	55.3	57.3	47.6
Success *	52.5	55.8	55.3	54.5	46.8
Wheaton *	63.8	66.0	50.1	60.0	45.2
Test Weight per Bushel					
Alex	60.0	60.5	64.0	61.5	59.2
Apex 83 *	62.5	60.0	62.0	61.5	59.3
Butte	63.5	61.5	64.0	63.0	61.1
Butte 86	63.0	61.0	63.5	62.5	60.8
Coteau	60.5	57.5	62.5	60.2	58.2
Cutless *	62.5	59.0	61.5	61.0	60.2
Guard *	62.5	60.0	63.0	61.8	58.7
Leif *	61.0	59.0	63.5	61.2	59.0
Len *	61.5	59.0	64.0	61.5	58.2
Leo 747 *	61.5	58.5	62.0	60.7	58.2
Marshall *	61.5	55.5	63.5	60.2	57.4
Norak *	62.5	59.5	63.5	61.8	60.2
Norseman *	60.0	58.5	62.5	60.3	57.0
Stoa	61.0	60.0	63.0	61.3	58.9
Success *	60.5	57.0	63.5	60.3	57.4
Wheaton *	61.5	58.0	62.0	60.5	57.3
* Semidwarf					
Seeding Date:	Apr. 24	May 14	May 1		
Harvest Date:		Aug. 19	Aug. 18		
L.S.D. 5%:	7.6	7.5	4.2	6.6	
C.V. %:	8.6	14.6	8.7		
Fertilizer Applied: According to Soil Test at each site.					
Herbicide Applied: Hoelon-Buctril tank mix					
Seeding Rate: 1 bu./ac.					

Table 4. 1986 Hettinger Off-Station Hard Red Spring Wheat

Variety	Hettinger	Regent	Flasher	Thunderhawk	Scranton	Average 5-Sites
Bushels per Acre						
Alex	37.4	31.2	41.6	41.7	53.0	41.0
Apex 83 *	30.1	34.0	37.6	44.6	38.6	37.0
Butte	30.7	44.9	39.0	36.1	45.8	39.3
Butte 86	30.4	52.8	41.5	47.3	47.2	43.8
Coteau	22.5	47.7	36.7	33.4	49.4	37.9
Cutless *	30.5	48.8	42.6	40.6	49.6	42.4
Guard *	31.9	36.0	41.6	30.2	45.5	37.0
Lief *	32.1	52.3	43.3	35.0	57.4	44.0
Len *	25.0	38.9	35.1	26.9	48.2	34.8
Leo 747 *	29.8	31.2	42.0	38.5	44.2	37.1
Marshall *	25.3	38.8	37.6	26.5	47.2	35.1
Norak *	36.5	44.6	45.6	51.4	50.9	45.8
Norseman *	24.8	33.7	41.5	32.1	44.6	35.3
Stoa	27.2	53.0	38.3	42.9	47.7	41.8
Success *	25.6	49.2	46.7	38.1	51.5	42.2
Wheaton *	28.0	44.3	38.2	26.4	45.1	36.4
Pioneer 2369	27.5	44.2	43.5	40.6	41.9	39.5
L.S.D. 5%	7.2	4.3	3.6	5.8	5.5	
Test Weight per Bushel						
Alex	59.7	53.9	57.8	56.8	61.2	57.9
Apex 83 *	58.2	57.4	56.9	57.3	60.1	58.0
Butte	60.4	60.7	58.5	58.5	61.8	60.0
Butte 86	58.8	60.5	58.6	59.9	61.1	59.8
Coteau	57.5	55.8	56.5	56.6	58.5	57.0
Cutless *	59.0	60.1	58.5	58.8	62.2	59.7
Guard *	58.4	54.7	58.3	52.5	60.5	56.9
Lief *	58.6	56.6	57.2	55.5	60.2	57.6
Len *	57.9	54.4	56.7	53.8	58.5	56.3
Leo 747 *	57.0	56.8	56.9	54.2	58.9	56.8
Marshall *	57.1	52.0	56.3	53.8	59.7	55.8
Norak *	59.3	57.5	57.8	59.2	62.1	59.2
Norseman *	55.9	52.1	55.8	52.6	58.6	55.0
Stoa	57.5	57.1	56.2	57.2	59.4	57.5
Success *	56.8	52.7	56.3	54.5	57.8	55.6
Wheaton *	56.2	55.5	54.2	52.8	58.4	55.4
Pioneer 2369	59.7	57.3	57.5	58.7	61.3	58.9
*Semidwarf						
Seeding Date:	Apr. 21	Apr. 22	Apr. 23	Apr. 23	Apr. 22	
Harvest Date:	Aug. 14	Aug. 16	Aug. 17	Aug. 17	Aug. 16	
L.S.D. 5%:	7.2	4.3	3.6	5.8	5.5	
C.V. %:	16.7	7.1	6.1	11.0	8.1	
Fertilizer Applied: According to Soil Test at each site.						
Herbicide Applied: Bucril-Hoelon tank mix						
Seeding Rate: 1 bushel per acre						

Table 5. Protein Content – 1986

1986 Dickinson Off-Station Hard Red Spring Wheat Trials

Variety	Dickinson	Beulah	Manning	Average 3-Sites	Average 8-Sites
Protein Percent @ 14% Moisture					
Alex	16.0	13.9	13.5	14.5	15.0
Apex 83 *	15.0	13.2	13.6	13.9	13.9
Butte	15.0	14.1	13.4	14.2	14.0
Butte 86	15.0	14.4	12.8	14.1	14.6
Coteau	15.8	14.8	13.8	14.8	15.4
Cutless *	15.9	14.8	15.7	15.5	15.5
Guard *	14.9	13.6	12.5	13.7	14.4
Leif *	15.5	14.6	14.8	15.0	14.8
Len *	15.5	14.8	13.9	14.7	15.2
Leo 747 *	15.6	14.0	14.1	14.6	14.6
Marshall *	14.3	12.5	13.2	13.3	13.9
Norak *	15.1	13.8	14.2	14.4	14.2
Norseman *	15.3	13.4	13.6	14.1	14.6
Stoa	15.5	14.0	14.2	14.6	14.6
Success *	14.3	13.3	12.9	13.5	14.0
Wheaton *	14.5	13.0	13.4	13.6	13.8

1986 Hettinger Off-Station Hard Red Spring Wheat Trials

Variety	Hettinger	Regent	Flasher	Thunderhawk	Scranton	Average 5-Sites
Protein Percent @ 14% Moisture						
Alex	16.6	15.5	15.1	15.6	13.6	15.3
Apex 83*	14.6	14.2	13.7	14.1	12.7	13.9
Butte	15.2	14.0	13.7	13.8	12.4	13.8
Butte 86	16.0	14.7	14.6	14.9	14.2	14.9
Coteau	17.3	15.0	16.0	15.7	14.7	15.7
Cutless*	16.8	15.0	15.3	15.6	14.8	15.5
Guard*	15.6	15.0	14.1	15.6	13.7	14.8
Lief*	15.4	14.3	15.1	15.7	13.2	14.7
Len*	16.8	15.1	15.7	16.2	13.6	15.5
Leo 747*	15.3	15.0	14.1	14.5	13.8	14.5
Marshall*	15.9	14.1	13.8	13.9	13.2	14.2
Norak*	15.1	14.2	14.1	14.3	13.0	14.1
Norseman*	15.7	14.8	14.6	15.3	14.3	14.9
Stoa	16.1	14.4	15.1	14.6	13.2	14.7
Success*	15.6	13.7	14.1	14.4	14.0	14.4
Wheaton*	15.1	13.7	13.7	14.1	12.8	13.9
Pioneer 2369	15.8	13.9	14.4	14.6	13.2	14.4

Table 6. 1986 Dickinson Hard Red Spring Wheat Small Plot Trial

Variety	Bu/A Avg.	Test Wt. Lbs.
Nordic *	74.5	58.5
Marshal *	71.6	56.0
ND 624	70.3	59.5
Leif *	70.1	55.0
ND 622	69.9	58.5
Wheaton *	68.9	56.0
ND 625	68.2	60.0
ND 629 *	67.7	60.5
SD 2956 *	67.6	61.0
ND 606	67.3	59.0
ND 618 *	66.4	58.0
Norak *	66.1	58.5
Walera *	65.2	58.0
Stoa	64.8	57.5
ND 617 *	63.7	60.5
Telemark *	63.7	58.0
ND 628 *	63.3	58.5
Lew	62.6	60.5
Butte 86	62.5	59.0
Era *	62.4	55.5
ND 626 *	61.9	60.0
Pioneer 2369 *	61.7	59.5
Cutless *	60.6	57.5
ND 627 *	60.4	61.5
Apex 83 *	60.2	57.0
Success *	59.8	58.5
HY-320 *	59.0	56.5
ND 623 *	59.0	61.0
Celtic *	58.8	58.5
Butte	57.6	57.5
Olaf *	57.6	60.0
Katepwa	57.3	58.0
Buckshot *	57.1	56.0
SD 8026	57.0	61.5
Kenyon	56.5	58.5
Coteau	56.1	60.5
Challenger *	55.6	56.0
Norseman *	54.0	55.5
Glenman *	52.5	55.0
Alex	52.5	61.0
Len *	51.6	58.5
Guard	51.3	55.5
Waldron	47.3	58.0
Columbus	47.0	56.0
Lancer	46.4	59.5
Leo 747 *	43.6	56.0
Bronze Chief *	19.6	44.5

*Semidwarf

Seeding Rate: 1,000,000 live seed/acre, (approx. 1 bu./ac.)

Seeding Date: May 14 Harvest Date: Aug. 27

Herbicide Applied: Hoelon-Buctril tank mix

L.S.D. 5% = 6.8 C.V. = 5.8%