Table 19. Summary of mean yields (kg/ha) of 35 wheats grown in the 1997 Northern Regional Performance Nursery at 15 locations with state means and ranks.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY NO.	PIERRE * S. DAKOTA		WINNER S. DAKOTA		BROOKINGS S. DAKOTA		SOUTH DAKOTA STATE MEAN	
Quantum Hybrid Wheat	XH1881	26	3378	1	1955	9	5952	1	3953	1
Quantum Hybrid Wheat	XH1920	24	3271	2	2089	4	5588	3	3839	3
Quantum Hybrid Wheat	XNH1824	25	1529	28	1751	21	5161	9	3456	10
KS831936-3//Colt/Cody	N95L164	23	1912	22	2217	3	4677	23	3447	12
KS86H187/Cody	NE94567	20	1831	25	1856	15	5474	5	3665	8
Arapahoe/Abilene//NE86488	NE94481	17	1143	33	1805	19	5104	11	3454	11
Rust resistant bulk (1B/1R)	AMP3JP4A7A	33	2085	16	1708	24	5135	10	3421	13
Judith/Redwin	SD93500	11	2634	5	1807	18	4997	14	3402	14
Arapahoe/Abilene//NE86488	NE94479	16	2125	15	1715	23	5797	2	3756	5
NE82419/Arapahoe	NE93554	13	2650	4	2051	5	5420	6	3736	6
Brule//BNT/CSM/3/Arap	SD92107	4	1852	24	2311	2	5521	4	3916	2
Arapahoe/Abilene//NE86488	NE94482	18	1995	19	1731	22	4906	17	3318	20
Rri/ND7571//Arapahoe	ND9257	30	2278	11	1672	25	4560	25	3116	24
NE82419/Arapahoe	NE93613	14	2035	18	1941	10	5393	7	3667	7
TX80A5901-1/NE78488	SD93380	10	2890	3	1968	8	4681	21	3324	18
Araphoe/Abilene//Arapahoe	NE94655	22	2316	9	1827	16	4977	16	3402	14
Araphoe/Abilene//Arapahoe	NE94653	21	1399	32	1520	29	4227	31	2873	31
SD76463-16//SD82195/SD82144	SD92227	6	2224	13	1941	10	4704	20	3323	19
Rust resistant bulk (1B/1R)	AMQ3MQ4A7D	34	1923	21	1457	30	4539	27	2998	29
NE82413/3/Newton sib/Agate//Sage sib	NE92652	12	1513	29	1116	34	5057	13	3087	26
WWP4394/Nuwest//MT7431/MT7978	MT91192	28	1437	31	1376	32	4711	19	3044	28
Rri/ND7656//Arapahoe	ND9272	31	2381	8	1872	13	4892	18	3382	17
OK81306//SD82102/NWN	SD92191	5	2457	7	2367	1	5205	8	3786	4
Brule/TAM-105//NE82651	SD93364	9	2224	14	2015	6	4506	28	3261	21
Abilene (PI511307)	ABILENE	3	769	35	1571	27	4556	26	3064	27
NE82419/Arapahoe	NE93669	15	1827	26	1885	12	4338	30	3111	25
SD8026/Roughrider//SD76598-7/Agassiz	SD93267	7	2237	12	1814	17	4987	15	3400	16
Nuwest/MT7869//Norwin/MT7840	MT9222	29	1858	23	1988	7	4412	29	3200	22
MT8030/TX81V6180	SD93336	8	2531	6	1618	26	4681	21	3150	23
Rust resistant bulk (1B/1R)	AMQ3KF4B7A	35	1986	20	1863	14	5084	12	3473	9
Roughrider (CI17439)	ROUGHRIDER	2	1675	27	1571	27	3941	34	2756	33
Arapahoe/OK81322//NE82438	NE94489	19	2060	17	1421	31	3904	35	2663	35
A76327W-2-3T/A7457W-13-1-1T-2P	IDO467	32	942	34	1058	35	4674	24	2866	32
Kharkof (CI1442)	KHARKOF	1	2293	10	1780	20	4075	33	2928	30
Rampart (Lew/Tiber//Redwin)	MTS92042	27	1502	30	1190	33	4183	32	2687	34
	MEAN		2033		1767		4858		3313	
	LSD(.05)		1067		348		935		664	
	C.V.		32.1		12.0		9.5		10.6	

* Not included in state or regional means.

Table 19. Continued.

C.I. OR SEL. NO.	ENTRY NO.	LINCOLN NEBRASKA		NORTH PLATTE NEBRASKA		SIDNEY NEBRASKA		HEMING-FORD NEBRASKA		NEBRASKA STATE MEAN		ARCHER WYOMING		LIND WASHINGTON		LETHBRIDGE ALBERTA *	
XH1881	26	3147	3	3949	8	3799	2	3155	1	3512	1	3015	3	4331	21	4055	8
XH1920	24	2687	9	4015	4	3862	1	2575	24	3285	3	2690	8	5464	4	3658	24
XNH1824	25	3300	1	4020	2	3190	7	2922	9	3358	2	2448	19	4529	15	3700	20
N95L164	23	3139	4	3963	7	3005	11	2951	5	3265	4	2820	4	5706	2	4115	6
NE94567	20	2219	22	3813	14	2719	19	2532	26	2821	21	2564	13	5395	5	3554	28
NE94481	17	2406	17	3874	12	3250	4	2802	13	3083	9	2540	15	4375	19	3790	18
AMP3JP4A7A	33	2680	10	4573	1	2396	24	2381	30	3008	12	3676	1	4309	22	3352	32
SD93500	11	2309	20	3982	5	3406	3	2679	17	3094	8	2645	10	4121	25	4263	3
NE94479	16	2738	8	3666	20	2849	16	3028	3	3070	11	2148	29	4121	25	4052	9
NE93554	13	3024	6	4018	3	2890	14	2655	20	3147	5	2464	18	4489	17	4026	11
SD92107	4	2567	15	3238	29	3243	5	2677	18	2931	17	2329	24	4649	11	3977	15
NE94482	18	2212	23	3777	16	3198	6	3109	2	3074	10	2372	21	4776	7	4093	7
ND9257	30	2460	16	3802	15	3179	8	2182	32	2906	18	2764	7	4689	9	3609	27
NE93613	14	2157	25	3324	25	2961	12	2970	4	2853	20	2365	22	4903	6	3764	19
SD93380	10	2982	7	3653	22	2870	15	2445	28	2987	15	2179	27	4768	8	4126	5
NE94655	22	2327	19	3378	24	2932	13	2943	6	2895	19	2125	30	4237	24	3692	22
NE94653	21	2616	12	3813	13	3027	9	2932	7	3097	7	1973	33	4566	12	3808	17
SD92227	6	2634	11	3964	6	2606	20	2802	12	3002	14	2549	14	3806	31	4001	13
AMQ3NQ4A7D	34	1618	33	3927	9	2282	25	1935	34	2441	31	3033	2	5674	3	4344	1
NE92652	12	3214	2	3914	10	2573	22	2782	14	3121	6	2246	25	4506	16	4008	12
MT91192	28	1966	29	3892	11	2590	21	2657	19	2776	22	2668	9	4551	13	.	.
ND9272	31	2065	26	2859	33	2264	26	2638	21	2457	29	2598	12	3929	30	4033	10
SD92191	5	2044	27	3134	31	2159	28	2436	29	2443	30	2533	16	4543	14	3664	23
SD93364	9	2181	24	3751	18	2165	27	2589	22	2672	24	2421	20	4309	22	4256	4
ABILENE	3	3057	5	3025	32	2840	17	2822	10	2936	16	1681	34	4662	10	3619	26
NE93669	15	2599	14	3759	17	2742	18	2930	8	3007	13	2069	31	3709	32	3700	20
SD93267	7	1890	31	3206	30	1800	31	2809	11	2426	32	2199	26	4013	28	4331	2
MT9222	29	1631	32	3261	27	2447	23	2698	16	2509	27	2775	6	4011	29	.	.
SD93336	8	2250	21	3257	28	3018	10	2478	27	2751	23	2334	23	3704	33	3981	14
AMQ3KF4B7A	35	2035	28	3653	21	1232	33	2069	33	2247	33	2515	17	4444	18	3640	25
ROUGHRIDER	2	2373	18	3668	19	1801	30	2764	15	2652	25	2067	32	3598	35	3382	31
NE94489	19	2614	13	3636	23	1467	32	2585	23	2576	26	1634	35	4069	27	3842	16
IDO467	32	1542	34	2536	34	1051	34	1847	35	1744	34	2638	11	6053	1	3512	30
KHARKOF	1	1945	30	3319	26	2040	29	2542	25	2461	28	2152	28	4366	20	3092	33
MTS92042	27	849	35	2413	35	753	35	2244	31	1565	35	2786	5	3600	34	3536	29
MEAN		2385		3601		2589		2645		2805		2458		4485		3836	
LSD(.05)		681		744		764		638		531		646		985		575	
C.V.		17.5		12.7		18.1		14.8		15.5		16.1		15.6		10.7	

* Not included in state or regional means.

Table 19. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	MOCCASIN MONTANA		BOZEMAN MONTANA		LOMA MONTANA		MONTANA STATE MEAN		WILLISTON N. DAKOTA		HETTINGER N. DAKOTA		NORTH DAKOTA STATE MEAN		REGIONAL AVERAGE	
XH1881	26	5485	4	6844	1	3928	1	5419	1	1639	8	4284	11	2962	9	3960	1
XH1920	24	5389	6	5145	25	2709	33	4414	19	1782	4	4952	1	3367	2	3765	2
XNH1824	25	5936	1	6351	2	3100	20	5129	2	1540	20	4365	10	2952	10	3739	3
N95L164	23	5012	15	6299	3	3270	13	4860	4	1636	9	3785	29	2711	22	3729	4
NE94567	20	5456	5	5221	20	3490	6	4722	8	1437	27	4419	8	2928	11	3584	5
NE94481	17	4808	23	5423	13	3587	5	4606	10	1551	18	4425	7	2988	7	3535	6
AMP3JP4A7A	33	5290	8	4589	32	2879	28	4253	25	1749	5	4510	6	3129	3	3529	7
SD93500	11	5147	11	5902	5	3222	15	4757	5	1600	14	4045	17	2823	15	3528	8
NE94479	16	5127	13	5254	18	3832	2	4738	7	1609	12	3966	18	2788	18	3527	9
NE93554	13	4873	21	5378	15	3246	14	4499	14	1349	33	3924	20	2637	29	3522	10
SD92107	4	4499	27	5757	10	3318	11	4525	13	1615	11	3845	26	2730	20	3505	11
NE94482	18	5008	16	5328	17	3734	3	4690	9	1617	10	3796	28	2706	23	3505	12
ND9257	30	5147	11	5649	11	2904	26	4567	11	1859	2	4076	16	2968	8	3457	13
NE93613	14	4329	28	5976	4	3124	19	4476	16	1457	26	3953	19	2705	24	3450	14
SD93380	10	5523	3	5160	24	2905	25	4529	12	1792	3	3515	35	2654	27	3419	15
NE94655	22	5319	7	5763	9	3148	17	4744	6	1602	13	3677	32	2640	28	3404	16
NE94653	21	4927	18	5228	19	3294	12	4483	15	1516	23	4606	4	3061	5	3403	17
SD92227	6	5203	9	5335	16	2807	31	4448	18	1666	7	4178	14	2922	12	3400	18
AMQ3NQ4A7D	34	4896	20	4755	29	3051	22	4234	27	1945	1	4873	2	3409	1	3383	19
NE92652	12	5030	14	5194	22	2855	29	4360	22	1423	28	3698	31	2561	35	3355	20
MT91192	28	5001	17	5862	6	2562	34	4475	17	1327	35	4412	9	2870	13	3352	21
ND9272	31	5580	2	5862	6	3393	9	4945	3	1356	32	3777	30	2566	34	3314	22
SD92191	5	4784	24	5512	12	2855	30	4384	20	1561	17	3837	27	2699	25	3305	23
SD93364	9	4174	32	5080	26	3465	7	4240	26	1721	6	3854	25	2787	19	3249	24
ABILENE	3	4716	25	4562	33	2904	27	4061	33	1542	19	3880	23	2711	21	3217	25
NE93669	15	4212	31	4678	30	3636	4	4176	30	1348	34	3914	21	2631	31	3217	26
SD93267	7	4248	30	5172	23	3344	10	4254	24	1586	15	4533	5	3059	6	3200	27
MT9222	29	4833	22	4674	31	3050	23	4186	29	1377	30	4211	13	2794	17	3182	28
SD93336	8	4530	26	5015	27	3075	21	4207	28	1530	21	3864	24	2697	26	3181	29
AMQ3KF4B7A	35	4923	19	4436	35	2734	32	4031	34	1492	25	4649	3	3070	4	3164	30
ROUGHRIDER	2	4293	29	5201	21	2978	24	4157	32	1404	29	4225	12	2815	16	3068	31
NE94489	19	5172	10	4519	34	3393	8	4361	21	1566	16	3630	34	2598	32	3047	32
IDO467	32	3786	35	5817	8	3173	16	4259	23	1374	31	3895	22	2634	30	3034	33
KHARKOF	1	3961	33	4965	28	2416	35	3781	35	1516	22	3669	33	2593	33	2981	34
MTS92042	27	3959	34	5393	14	3124	18	4159	31	1509	24	4142	15	2825	14	2780	35
MEAN		4874		5351		3157		4461		1560		4097		2828		3371	
LSD(.05)		1029		944		543		699		194		805		N.S.		322	
C.V.		12.9		10.8		12.2		12.1		8.9		12.0		12.5		14.0	

Table 20. Summary of mean yields (kg/ha) and ranks of 35 wheats grown in the 1997 Northern Regional Performance Nursery at 9 locations from which a CV of 15.0 or less and a significant F test for entries were obtained.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY NO.	NORTH PLATTE NEBRASKA		HEMING-FORD NEBRASKA		BROOKINGS S. DAKOTA		WINNER S. DAKOTA	
Quantum Hybrid Wheat	XH1881	26	3949	8	3155	1	5952	1	1955	9
Quantum Hybrid Wheat	XNH1824	25	4020	2	2922	9	5161	9	1751	21
Quantum Hybrid Wheat	XH1920	24	4015	4	2575	24	5588	3	2089	4
Arapahoe/Abilene//NE86488	NE94479	16	3666	20	3028	3	5797	2	1715	23
KS831936-3//Colt/Cody	N95L164	23	3963	7	2951	5	4677	23	2217	3
KS86H187/Cody	NE94567	20	3813	14	2532	26	5474	5	1856	15
Judith/Redwin	SD93500	11	3982	5	2679	17	4997	14	1807	18
Arapahoe/Abilene//NE86488	NE94481	17	3874	12	2802	13	5104	11	1805	19
Arapahoe/Abilene//NE86488	NE94482	18	3777	16	3109	2	4906	17	1731	22
NE82419/Arapahoe	NE93554	13	4018	3	2655	20	5420	6	2051	5
Rust resistant bulk (1B/1R)	AMP3JP4A7A	33	4573	1	2381	30	5135	10	1708	24
Brule//BNT/CSM/3/Arap	SD92107	4	3238	29	2677	18	5521	4	2311	2
Araphoe/Abilene//Arapahoe	NE94655	22	3378	24	2943	6	4977	16	1827	16
SD76463-16//SD82195/SD82144	SD92227	6	3964	6	2802	12	4704	20	1941	10
NE82419/Arapahoe	NE93613	14	3324	25	2970	4	5393	7	1941	10
Rri/ND7656//Arapahoe	ND9272	31	2859	33	2638	21	4892	18	1872	13
Araphoe/Abilene//Arapahoe	NE94653	21	3813	13	2932	7	4227	31	1520	29
Rri/ND7571//Arapahoe	ND9257	30	3802	15	2182	32	4560	25	1672	25
WWP4394/Nuwest//MT7431/MT7978	MT91192	28	3892	11	2657	19	4711	19	1376	32
SD8026/Roughrider//SD76598-7/Agassiz	SD93267	7	3206	30	2809	11	4987	15	1814	17
OK81306//SD82102/NWN	SD92191	5	3134	31	2436	29	5205	8	2367	1
TX80A5901-1/NE78488	SD93380	10	3653	22	2445	28	4681	21	1968	8
Rust resistant bulk (1B/1R)	AMQ3NQ4A7D	34	3927	9	1935	34	4539	27	1457	30
Brule/TAM-105//NE82651	SD93364	9	3751	18	2589	22	4506	28	2015	6
NE82413/3/Newton sib/Agate//Sage sib	NE92652	12	3914	10	2782	14	5057	13	1116	34
Rust resistant bulk (1B/1R)	AMQ3KF4B7A	35	3653	21	2069	33	5084	12	1863	14
NE82419/Arapahoe	NE93669	15	3759	17	2930	8	4338	30	1885	12
Nuwest/MT7869//Norwin/MT7840	MT9222	29	3261	27	2698	16	4412	29	1988	7
MT8030/TX81V6180	SD93336	8	3257	28	2478	27	4681	21	1618	26
Roughrider (CI17439)	ROUGHRIDER	2	3668	19	2764	15	3941	34	1571	27
Arapahoe/OK81322//NE82438	NE94489	19	3636	23	2585	23	3904	35	1421	31
Abilene (PI511307)	ABILENE	3	3025	32	2822	10	4556	26	1571	27
Kharkof (CI1442)	KHARKOF	1	3319	26	2542	25	4075	33	1780	20
Rampart (Lew/Tiber//Redwin)	MTS92042	27	2413	35	2244	31	4183	32	1190	33
A76327W-2-3T/A7457W-13-1-1T-2P	IDO467	32	2536	34	1847	35	4674	24	1058	35
	MEAN		3601		2645		4858		1767	
	LSD(.05)		744		638		935		348	
	C.V.		12.7		14.8		9.5		12.0	

Table 20. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	MOCCASIN MONTANA		BOZEMAN MONTANA		LOMA MONTANA		WILLISTON N. DAKOTA		HETTINGER N. DAKOTA		REGIONAL AVERAGE	
XH1881	26	5485	4	6844	1	3928	1	1639	8	4284	11	4132	1
XNH1824	25	5936	1	6351	2	3100	20	1540	20	4365	10	3905	2
XH1920	24	5389	6	5145	25	2709	33	1782	4	4952	1	3805	3
NE94479	16	5127	13	5254	18	3832	2	1609	12	3966	18	3777	4
N95L164	23	5012	15	6299	3	3270	13	1636	9	3785	29	3757	5
NE94567	20	5456	5	5221	20	3490	6	1437	27	4419	8	3744	6
SD93500	11	5147	11	5902	5	3222	15	1600	14	4045	17	3709	7
NE94481	17	4808	23	5423	13	3587	5	1551	18	4425	7	3709	8
NE94482	18	5008	16	5328	17	3734	3	1617	10	3796	28	3667	9
NE93554	13	4873	21	5378	15	3246	14	1349	33	3924	20	3657	10
AMP3JP4A7A	33	5290	8	4589	32	2879	28	1749	5	4510	6	3646	11
SD92107	4	4499	27	5757	10	3318	11	1615	11	3845	26	3642	12
NE94655	22	5319	7	5763	9	3148	17	1602	13	3677	32	3626	13
SD92227	6	5203	9	5335	16	2807	31	1666	7	4178	14	3622	14
NE93613	14	4329	28	5976	4	3124	19	1457	26	3953	19	3608	15
ND9272	31	5580	2	5862	6	3393	9	1356	32	3777	30	3581	16
NE94653	21	4927	18	5228	19	3294	12	1516	23	4606	4	3563	17
ND9257	30	5147	11	5649	11	2904	26	1859	2	4076	16	3539	18
MT91192	28	5001	17	5862	6	2562	34	1327	35	4412	9	3533	19
SD93267	7	4248	30	5172	23	3344	10	1586	15	4533	5	3522	20
SD92191	5	4784	24	5512	12	2855	30	1561	17	3837	27	3521	21
SD93380	10	5523	3	5160	24	2905	25	1792	3	3515	35	3516	22
AMQ3NQ4A7D	34	4896	20	4755	29	3051	22	1945	1	4873	2	3486	23
SD93364	9	4174	32	5080	26	3465	7	1721	6	3854	25	3462	24
NE92652	12	5030	14	5194	22	2855	29	1423	28	3698	31	3452	25
AMQ3KF4B7A	35	4923	19	4436	35	2734	32	1492	25	4649	3	3434	26
NE93669	15	4212	31	4678	30	3636	4	1348	34	3914	21	3411	27
MT9222	29	4833	22	4674	31	3050	23	1377	30	4211	13	3389	28
SD93336	8	4530	26	5015	27	3075	21	1530	21	3864	24	3339	29
ROUGHRIDER	2	4293	29	5201	21	2978	24	1404	29	4225	12	3338	30
NE94489	19	5172	10	4519	34	3393	8	1566	16	3630	34	3314	31
ABILENE	3	4716	25	4562	33	2904	27	1542	19	3880	23	3287	32
KHARKOF	1	3961	33	4965	28	2416	35	1516	22	3669	33	3138	33
MTS92042	27	3959	34	5393	14	3124	18	1509	24	4142	15	3129	35
IDO467	32	3786	35	5817	8	3173	16	1374	31	3895	22	3129	34
MEAN		4874		5351		3157		1560		4097		3545	
LSD(.05)		1029		944		543		194		805		338	
C.V.		12.9		10.8		12.2		8.9		12.0		12.5	

Table 21. Summary of mean yields (kg/ha) and ranks of 35 wheats grown in the 1997 Northern Regional Performance Nursery for 5 intra-regional production zones (after Peterson, 1992).

C.I. OR SEL. NO.	ENTRY NO.	NORTH-CENTRAL PLAINS		NORTHERN HIGH PLAINS		NORTHERN PLAINS		NORTH-WEST PLAINS		NORTH-WEST		REGIONAL AVERAGE	
Number of locations		5		3		1		1		4		13	
XH1881	26	3760	1	3323	1	4284	11	1639	8	5147	1	3960	1
XH1920	24	3648	2	3042	2	4952	1	1782	4	4677	8	3765	2
XNH1824	25	3484	3	2853	7	4365	10	1540	20	4979	3	3739	3
N95L164	23	3400	5	2925	3	3785	29	1636	9	5072	2	3729	4
NE94567	20	3216	12	2605	20	4419	8	1437	27	4891	4	3584	5
NE94481	17	3288	10	2864	6	4425	7	1551	18	4548	17	3535	6
AMP3JP4A7A	33	3298	9	2818	8	4510	6	1749	5	4267	25	3529	7
SD93500	11	3300	8	2910	4	4045	17	1600	14	4598	10	3528	8
NE94479	16	3353	7	2675	12	3966	18	1609	12	4583	14	3527	9
NE93554	13	3481	4	2669	13	3924	20	1349	33	4496	19	3522	10
SD92107	4	3376	6	2750	10	3845	26	1615	11	4556	16	3505	11
NE94482	18	3165	15	2893	5	3796	28	1617	10	4712	5	3505	12
ND9257	30	3134	17	2708	11	4076	16	1859	2	4597	11	3457	13
NE93613	14	3155	16	2765	9	3953	19	1457	26	4583	15	3450	14
SD93380	10	3231	11	2498	24	3515	35	1792	3	4589	13	3419	15
NE94655	22	3088	18	2667	14	3677	32	1602	13	4617	9	3404	16
NE94653	21	3041	20	2644	16	4606	4	1516	23	4504	18	3403	17
SD92227	6	3170	14	2652	15	4178	14	1666	7	4288	24	3400	18
AMQ3NQ4A7D	34	2765	28	2417	26	4873	2	1945	1	4594	12	3383	19
NE92652	12	3175	13	2534	22	3698	31	1423	28	4396	22	3355	20
MT91192	28	2907	25	2638	18	4412	9	1327	35	4494	20	3352	21
ND9272	31	2791	26	2500	23	3777	30	1356	32	4691	7	3314	22
SD92191	5	2982	22	2376	28	3837	27	1561	17	4423	21	3305	23
SD93364	9	2924	24	2392	27	3854	25	1721	6	4257	26	3249	24
ABILENE	3	3010	21	2448	25	3880	23	1542	19	4211	27	3217	25
NE93669	15	3064	19	2580	21	3914	21	1348	34	4059	32	3217	26
SD93267	7	2739	30	2269	29	4533	5	1586	15	4194	28	3200	27
MT9222	29	2748	29	2640	17	4211	13	1377	30	4142	29	3182	28
SD93336	8	2965	23	2610	19	3864	24	1530	21	4081	31	3181	29
AMQ3KF4B7A	35	2773	27	1939	32	4649	3	1492	25	4134	30	3164	30
ROUGHRIDER	2	2671	31	2211	31	4225	12	1404	29	4017	34	3068	31
NE94489	19	2609	33	1895	34	3630	34	1566	16	4288	23	3047	32
IDO467	32	2172	34	1846	35	3895	22	1374	31	4707	6	3034	33
KHARKOF	1	2632	32	2245	30	3669	33	1516	22	3927	35	2981	34
MTS92042	27	1878	35	1928	33	4142	15	1509	24	4019	33	2780	35
MEAN		3040		2564		4097		1560		4467		3371	
LSD(.05)		497		N.S.		805		194		674		322	
C.V.		14.0		16.4		12.0		8.9		13.3		14.0	

Table 22. Summary of mean yields (kg/ha) and ranks for 16 wheats grown in the Northern Regional Performance Nursery at 10 locations in 1996 and 1997 with state means and ranks.

C.I. OR SEL. NO.	ENTRY NO.	SIDNEY * NEBRASKA		HEMING-FORD NEBRASKA		PIERRE * S. DAKOTA		WINNER S. DAKOTA		WILLISTON N. DAKOTA		HETTINGER N. DAKOTA	
AMQ3NQ4A7D	34	3264	6	3036	11	2643	10	2780	7	2164	2	4548	2
SD92227	6	3203	8	3623	1	3182	3	2928	5	1911	4	4499	3
SD92191	5	3238	7	3399	3	3221	2	3339	2	1750	8	3987	11
ND9272	31	3084	10	3204	8	2894	7	2812	6	1767	7	3993	10
SD92107	4	3696	2	3352	7	2633	11	3060	3	1434	10	4147	7
ND9257	30	3395	4	2919	13	3297	1	2373	14	2291	1	4400	5
NE93554	13	3758	1	3394	4	2957	6	3349	1	1298	12	4079	9
AMP3JP4A7A	33	3135	9	3152	10	2990	4	2473	11	1866	6	4593	1
NE93613	14	3391	5	3391	5	2826	8	2993	4	1239	13	4087	8
AMQ3KF4B7A	35	2691	12	2670	16	2978	5	2614	10	1872	5	4441	4
ROUGHRIDER	2	2502	14	3170	9	2508	12	2633	9	1956	3	4247	6
NE92652	12	3573	3	3380	6	2293	14	2430	13	1043	15	3332	13
ABILENE	3	2737	11	3569	2	2312	13	2637	8	1434	9	3226	15
IDO467	32	2404	15	2773	15	2083	15	2029	16	1116	14	2821	16
KHARKOF	1	2544	13	2871	14	2683	9	2450	12	1317	11	3294	14
MTS92042	27	2330	16	2929	12	1689	16	2263	15	985	16	3351	12
MEAN		3059		3177		2699		2698		1590		3940	
LSD(.05)		N.S.		N.S.		N.S.		N.S.		N.S.		N.S.	
C.V.		12.3		12.0		27.5		10.8		30.2		13.4	

* Not included in state or regional means.

Table 22. Concluded.

C.I. OR SEL. NO.	ENTRY NO.	MOCCASIN MONTANA		BOZEMAN MONTANA		LOMA * MONTANA		MONTANA STATE MEAN		LETHBRIDGE ALBERTA		REGIONAL AVERAGE	
AMQ3NQ4A7D	34	3650	5	5170	8	3270	1	4410	4	3833	1	3597	1
SD92227	6	3449	8	5158	9	2997	5	4304	8	2974	9	3506	2
SD92191	5	3412	9	5216	6	2734	14	4314	6	3223	3	3475	3
ND9272	31	3906	1	5416	3	3108	2	4661	1	3018	7	3445	4
SD92107	4	3262	11	5553	2	2897	10	4407	5	3071	5	3411	5
ND9257	30	3890	2	5296	5	2940	8	4593	2	2709	13	3411	6
NE93554	13	3484	6	5083	11	2990	6	4284	9	3094	4	3397	7
AMP3JP4A7A	33	3675	4	4679	12	3070	3	4177	11	2972	10	3344	8
NE93613	14	3155	14	5299	4	2847	12	4227	10	2950	11	3302	9
AMQ3KF4B7A	35	3479	7	4574	13	2808	13	4027	12	3425	2	3297	10
ROUGHRIDER	2	3202	13	4552	14	2944	7	3877	15	2618	15	3197	11
NE92652	12	3706	3	5189	7	2731	15	4448	3	2998	8	3154	12
ABILENE	3	3336	10	4551	15	2899	9	3943	13	2495	16	3035	13
IDO467	32	2972	15	5639	1	3026	4	4306	7	3026	6	2911	14
KHARKOF	1	3222	12	4462	16	2658	16	3842	16	2661	14	2897	15
MTS92042	27	2703	16	5112	10	2855	11	3907	14	2723	12	2866	16
MEAN		3406		5059		2923		4233		2987		3264	
LSD(.05)		N.S.		N.S.		N.S.		N.S.		N.S.		361	
C.V.		15.9		9.3		14.9		12.0		10.8		13.7	

* Not included in state or regional means.

Table 23. Mean yield, regression coefficient, coefficient of determination, and mean square deviations from linear regression of entry mean yield on location mean yield for the 35 entries in the 1997 Northern Regional Performance Nursery grown at 13 locations.

C.I. OR SEL. NO.	ENTRY NO.	REGIONAL AVERAGE KG/HA	REGRESSION COEFFICIENT (b)	COEFFICIENT OF DETERMINATION (r2)	DEVIATIONS FROM REGRESSION (mean square)
XH1881	26	3960	1.12	0.91	220732
XH1920	24	3765	1.05	0.88	251135
XNH1824	25	3739	1.15	0.94	140970
N95L164	23	3729	1.03	0.90	197759
NE94567	20	3584	1.15	0.97	80860
NE94481	17	3535	0.99	0.97	51743
AMP3JP4A7A	33	3529	0.93	0.83	304406
SD93500	11	3528	1.02	0.95	96966
NE94479	16	3527	1.02	0.92	152852
NE93554	13	3522	0.99	0.96	77989
SD92107	4	3505	0.98	0.92	138694
NE94482	18	3505	0.98	0.95	86291
ND9257	30	3457	1.00	0.95	96579
NE93613	14	3450	1.06	0.94	130508
SD93380	10	3419	0.95	0.92	141340
NE94655	22	3404	1.04	0.96	86694
NE94653	21	3403	0.97	0.93	122355
SD92227	6	3400	0.94	0.95	81915
AMQ3NQ4A7D	34	3383	1.06	0.83	389387
NE92652	12	3355	1.04	0.93	145706
MT91192	28	3352	1.14	0.97	78926
ND9272	31	3314	1.09	0.92	169431
SD92191	5	3305	1.02	0.94	107690
SD93364	9	3249	0.86	0.96	59771
ABILENE	3	3217	0.88	0.89	166659
NE93669	15	3217	0.78	0.91	108891
SD93267	7	3200	0.98	0.92	147318
MT9222	29	3182	0.89	0.93	100954
SD93336	8	3181	0.88	0.96	53792
AMQ3KF4B7A	35	3164	1.04	0.87	281778
ROUGHRIDER	2	3068	0.90	0.91	137297
NE94489	19	3047	0.92	0.85	251794
IDO467	32	3034	1.23	0.81	627636
KHARKOF	1	2981	0.86	0.95	67457
MTS92042	27	2780	1.02	0.79	479844

Table 24. Mean yield, regression coefficient, coefficient of determination, and mean square deviations from linear regression of entry mean yield on location mean yield for the 16 entries in the 1996 and 1997 Northern Regional Performance Nursery grown at 7 locations.

C.I. OR SEL. NO.	ENTRY NO.	REGIONAL AVERAGE KG/HA	REGRESSION COEFFICIENT (b)	COEFFICIENT OF DETERMINATION (r2)	DEVIATIONS FROM REGRESSION (mean square)
AMQ3NQ4A7D	34	3597	0.97	0.87	256505
SD92227	6	3506	1.07	0.94	130690
SD92191	5	3475	0.97	0.95	88477
ND9272	31	3445	1.09	0.95	109938
SD92107	4	3411	1.07	0.95	103120
ND9257	30	3411	0.97	0.87	260040
NE93554	13	3397	1.07	0.95	112604
AMP3JP4A7A	33	3344	0.94	0.90	184149
NE93613	14	3302	1.07	0.94	132803
AMQ3KF4B7A	35	3297	0.85	0.85	231067
ROUGHRIDER	2	3197	0.86	0.88	173124
NE92652	12	3154	1.13	0.93	183018
ABILENE	3	3035	0.96	0.88	219703
IDO467	32	2911	1.08	0.81	498045
KHARKOF	1	2897	0.79	0.92	92431
MTS92042	27	2866	1.11	0.92	179263