

Table 18. Summary of mean yields (kg/ha) of 35 wheats grown in the 1993 Northern Regional Performance Nursery at 16 locations with state means and ranks.

VARIETY OR PEDIGREE	C.I. OR SEL. NO.	ENTRY NO.	BROOKINGS S. DAKOTA	PIERRE S. DAKOTA	WINNER S. DAKOTA	SOUTH DAKOTA STATE MEAN
Quantum Hybrid Wheat	XNH1687	28	3672 1	5728 5	4896 2	4765 1
Quantum Hybrid Wheat	XNH1650	27	2081 22	5387 10	4470 10	3979 13
TX79A2729//Caldwell/Brule seln/3/Siouxla	NE90625	21	2290 17	5295 11	4468 11	4018 11
Bennett/Dawn	SD89204	6	2238 19	4600 21	4103 14	3647 18
Gent/Siouxland	SD89333	10	1492 27	4744 19	3878 20	3372 21
Centura/Dawn//Colt sib	NE88588	24	3220 2	4744 20	4263 12	4076 8
TX80GH2679/Brule seln.	NE89522	17	2262 18	5751 4	4960 1	4324 5
Arkan/Colt//Chisholm sib	NE88595	23	2847 6	4901 16	4745 5	4165 6
Seward/SD76705	ND8955	13	3203 3	4766 18	4017 15	3995 12
Brule/3/Parker*4/Agent//Bel. 198/Lancer	NE89657	19	2784 9	5939 2	4889 3	4537 2
Mvr/KS79397//Nsr/3/Cody	ND8889	15	2519 14	3636 27	3801 22	3319 22
NE68513/NE68457//Ctk/3/Brule	NE87615	20	2399 15	5072 13	4675 7	4048 10
NAPB 80300/Centurk 78	SD89102	7	1927 23	5568 7	3974 17	3823 16
Brule/Agate	SD89119	9	2911 4	4858 17	4136 13	3968 14
Rrr*2/1809//NE78414	ND90109	16	1775 24	4208 25	3891 19	3291 23
Bennett/Dawn	SD88231	8	2792 8	4948 14	4011 16	3917 15
Quantum Hybrid Wheat	XNH1643	25	1310 29	4531 22	3802 21	3214 25
Lco/Frd//NE69559/Wnk/3/Nell	SD87143	5	2315 16	4939 15	3905 18	3720 17
Lancota seln/Sxld//TX792729	NE89526	18	2835 7	6124 1	4566 9	4508 3
Quantum Hybrid Wheat	XNH1648	26	973 33	4367 23	3789 23	3043 28
Severodonskaya/Siouxland	NE88526	22	2750 11	5655 6	4600 8	4335 4
Abilene	Abilene	3	2128 20	5545 8	4732 6	4135 7
Bnz//Frd/Lcr/3/Bnz/Mrt-2	ND89142	14	2890 5	3268 30	2892 29	3017 29
Quantum Hybrid Wheat	XNH1712	29	1125 32	5402 9	3787 24	3438 19
Brule/Dawn	SD88201	4	2083 21	4237 24	3496 25	3272 24
Nsr/4/Ctk//Wnk/Uln/3/SD76694	ND8933	12	2698 12	3682 26	2815 30	3065 27
Nsr/3/Wnt/NB68466//SD76705	ND8930	11	2630 13	3186 31	2772 31	2863 30
Tomahawk (Bulk Selection)	WI88-083	30	1472 28	5859 3	4836 4	4056 9
Msc/Ctk A+//Iul	MT8713	31	1774 25	5122 12	3280 26	3392 20
Roughrider	Roughrider	2	2772 10	3518 29	2982 28	3091 26
Rri/MT6928	MT8719	32	1689 26	2346 35	2674 32	2236 32
Winalta/Bezostaya	W-198	34	1139 31	3526 28	3080 27	2581 31
Complex Pedigree	ID0426	33	216 35	2712 33	2335 35	1755 35
Pau 45/Sundance	W-235	35	622 34	2347 34	2623 33	1864 34
Kharkof	Kharkof	1	1283 30	2765 32	2618 34	2222 33
MEAN			2146	4551	3850	3516
LSD(.05)			873	828	516	948
C.V.			24.9	11.1	8.2	13.2

Table 18. Continued.

C.I. OR SEL. NO.	: ENTRY: NO.	: NORTH PLATTE NEBRASKA	: HEMING- FORD NEBRASKA	: NEBRASKA STATE MEAN	: SHERIDAN WYOMING	: ARCHER WYOMING	: WYOMING STATE MEAN
XNH1687	28	3662 8	5465 2	4564 3	1887 22	4210 7	3049 11
XNH1850	27	3277 19	5468 1	4372 5	2571 4	4860 1	3716 1
NE90825	21	4241 2	4853 6	4547 4	1107 34	4078 8	2592 26
SD89204	6	3333 17	4301 13	3817 14	2822 1	4055 9	3439 3
SD89333	10	3464 13	4547 9	4005 9	2430 6	3688 18	3059 10
NE88588	24	3999 3	4069 19	4034 8	2051 17	3690 17	2870 15
NE89522	17	3857 4	5462 3	4659 1	2475 5	3699 16	3087 9
NE88595	23	4310 1	4871 5	4590 2	1444 29	4840 2	3142 6
ND8955	13	3490 12	4286 15	3888 11	2356 8	3833 13	3095 8
NE89657	19	3852 5	4273 17	4063 7	1509 26	3903 12	2706 20
ND8889	15	3661 9	4585 7	4123 6	2080 15	3524 22	2802 17
NE87615	20	3141 22	4585 7	3863 12	1680 24	3945 11	2818 16
SD89102	7	3046 26	4296 14	3671 20	2170 13	3297 27	2734 19
SD89119	9	3734 7	3728 27	3731 16	2367 7	3441 23	2914 14
ND90109	16	3756 6	3699 28	3728 17	2181 12	3804 14	2993 13
SD88231	8	3112 23	4320 11	3716 18	2040 18	3286 28	2663 22
XNH1643	25	2556 30	5060 4	3808 15	2605 3	4755 3	3680 2
SD87143	5	3515 11	4316 12	3916 10	1932 21	4284 6	3108 7
NE89526	18	3057 24	3895 23	3476 25	1879 23	3378 25	2628 23
XNH1648	26	2299 31	4492 10	3396 27	2235 10	4412 5	3323 4
NE88526	22	3276 20	3662 30	3469 26	2071 16	3264 29	2668 21
Abilene	3	3621 10	3669 29	3645 21	1085 35	4472 4	2779 18
ND89142	14	2929 27	3510 31	3220 29	1455 27	2959 31	2207 34
XNH1712	29	3052 25	4231 18	3642 23	2327 9	3979 10	3153 5
SD88201	4	3438 15	4275 16	3857 13	1453 28	3795 15	2624 24
ND8933	12	3389 16	3901 22	3645 21	2235 10	2887 33	2561 27
ND8930	11	3305 18	3756 25	3531 24	2125 14	2914 32	2520 29
WI88-083	30	3455 14	3946 21	3700 19	1376 32	3632 20	2504 31
MT8713	31	2168 32	3741 26	2954 32	1681 25	3531 21	2606 25
Roughrider	2	3252 21	3002 34	3127 30	1421 30	3421 24	2421 33
MT8719	32	2736 29	3878 24	3307 28	1379 31	3634 19	2506 30
W-198	34	2068 33	4058 20	3063 31	2009 19	2885 34	2447 32
IDO426	33	1407 35	3385 32	2396 35	2659 2	3360 26	3009 12
W-235	35	1743 34	3345 33	2544 34	1952 20	3156 30	2554 28
Kharkof	1	2817 28	2882 35	2850 33	1300 33	2688 35	1994 35
MEAN		3201	4166	3683	1954	3702	2628
LSD(.05)		601	489	1038	649	854	N.S.
C.V.		11.5	7.2	9.1	20.4	14.1	16.5

Table 18. Continued.

C.I. OR SEL. NO.	: ENTRY: NO.	: WASECA MINNESOTA	: ROSEMOUNT MINNESOTA	: MINNESOTA STATE MEAN	: WILLISTON N. DAKOTA	: CASSELTON N. DAKOTA	: NORTH DAKOTA STATE MEAN
XNH1687	28	1508 8	3348 2	2428 2	4056 5	5602 2	4829 1
XNH1650	27	1471 9	2831 9	2151 8	4362 2	3694 23	4028 13
NE90625	21	1679 1	3118 4	2398 3	3649 15	5704 1	4677 2
SD89204	6	1375 11	2127 22	1751 19	2691 30	4047 22	3369 27
SD89333	10	1114 21	2161 21	1637 20	3356 21	5001 9	4178 9
NE88588	24	1557 7	2625 13	2091 10	3395 19	5057 7	4226 7
NE89522	17	999 23	2768 10	1883 13	3298 23	4386 14	3842 19
NE88595	23	1255 12	2299 19	1777 17	3148 28	4361 17	3754 23
ND8955	13	1564 6	3055 7	2309 7	3873 10	4364 16	4119 11
NE89657	19	1627 4	3069 6	2348 6	3096 29	5210 4	4153 10
ND8889	15	1178 16	2420 18	1799 16	4126 4	4377 15	4251 6
NE87615	20	1126 20	3000 8	2063 11	2636 31	5031 8	3833 20
SD89102	7	1158 18	2470 15	1814 15	3845 12	4678 11	4261 5
SD89119	9	1054 22	2455 16	1755 18	3196 27	4307 19	3751 24
ND90109	16	1227 13	2675 12	1951 12	3681 14	4258 21	3969 14
SD88231	8	1175 17	1854 29	1514 25	3276 26	4271 20	3773 22
XNH1643	25	482 30	2086 23	1284 28	4649 1	3117 26	3883 15
SD87143	5	809 25	2289 20	1549 22	3591 17	4832 10	4212 8
NE89526	18	1673 2	3107 5	2390 4	2528 32	5187 5	3858 18
XNH1648	26	339 34	2734 11	1537 23	3990 7	2783 32	3386 26
NE88526	22	1469 10	3456 1	2462 1	2434 33	5326 3	3880 16
Abilene	3	997 24	1608 31	1302 26	3294 24	2974 30	3134 32
ND89142	14	1582 5	3193 3	2387 5	4140 3	5115 6	4628 3
XNH1712	29	447 31	1940 26	1193 30	3377 20	3090 27	3233 29
SD88201	4	1132 19	1938 27	1535 24	3284 25	4448 13	3868 17
ND8933	12	1643 3	2605 14	2124 9	4052 6	4620 12	4336 4
ND8930	11	1214 14	2426 17	1820 14	3852 11	4313 18	4083 12
WI88-083	30	1202 15	2025 24	1613 21	1324 35	3025 29	2175 34
MT8713	31	423 33	1991 25	1207 29	3626 16	2950 31	3288 28
Roughrider	2	805 26	1792 30	1299 27	3980 8	3653 24	3816 21
MT8719	32	427 32	1872 28	1149 31	3756 13	2577 33	3167 31
W-198	34	574 29	1429 33	1002 33	3952 9	3181 25	3567 25
IDO426	33	296 35	1026 35	661 35	1612 34	815 35	1213 35
W-235	35	612 27	1306 34	959 34	3568 18	2531 34	3050 33
Kharkof	1	601 28	1492 32	1046 32	3319 22	3036 28	3178 30
MEAN		1080	2360	1720	3429	4055	3742
LSD(.05)		494	718	610	430	606	N.S.
C.V.		28.0	18.6	21.9	9.0	9.1	9.0

Table 18. Concluded.

C.I. OR SEL. NO.	ENTRY: NO.	SIDNEY MONTANA	MOCCASIN MONTANA	BOZEMAN MONTANA	MONTANA STATE MEAN	ABERDEEN IDAHO	LETHBRIDGE ALBERTA	REGIONAL AVERAGE
XNH1687	28	3088 1	4351 12	731 30	2723 21	7818 13	6897 2	4170 1
XNH1650	27	3046 2	5026 3	1462 21	3178 11	9990 1	6331 4	4145 2
NE90625	21	2598 22	4817 4	3221 7	3545 4	8611 5	6101 9	4114 3
SD89204	6	2825 13	4764 6	4977 2	4188 1	8921 4	5665 14	3928 4
SD89333	10	2490 25	3829 23	4797 3	3705 3	8339 8	6172 8	3844 5
NE88588	24	2297 32	4170 15	3640 4	3369 8	6533 28	5384 24	3793 6
NE89522	17	2535 23	3775 25	538 33	2283 32	8083 10	5745 11	3787 8
NE88595	23	2946 7	4228 14	901 29	2691 24	7865 12	5638 16	3787 7
ND8955	13	2912 8	3840 30	2428 11	2993 14	7219 20	5528 22	3783 9
NE89657	19	2710 18	3643 29	975 28	2443 31	6950 24	5661 15	3755 10
ND8889	15	3030 3	4530 8	2961 9	3507 5	7683 16	5637 17	3734 11
NE87615	20	2843 11	3788 24	2154 14	2929 15	7818 13	5542 21	3715 12
SD89102	7	2638 19	4394 11	2544 10	3192 10	7152 21	5049 30	3638 13
SD89119	9	2448 27	3939 22	1596 18	2661 25	8231 9	5780 10	3636 14
ND90109	16	3025 4	3992 19	3020 8	3346 9	7250 19	5685 13	3633 15
SD88231	8	2460 26	4104 16	3582 5	3382 6	6574 27	6202 7	3625 16
XNH1643	25	3001 5	5167 2	170 35	2779 19	7922 11	6751 1	3623 17
SD87143	5	2737 17	3945 21	2365 12	3016 13	6755 26	5412 23	3621 18
NE89526	18	2305 31	2531 35	1338 25	2058 35	8426 7	5042 31	3617 19
XNH1648	26	2840 12	5284 1	592 32	2905 16	9963 2	6471 3	3598 20
NE88526	22	2379 29	3333 33	690 31	2134 34	6900 25	5066 29	3521 21
Abilene	3	2739 16	3255 34	1722 16	2572 28	9159 3	5015 32	3501 22
ND89142	14	2609 21	4060 18	3459 6	3376 7	6063 30	5627 18	3484 23
XNH1712	29	2819 14	4806 5	466 34	2697 23	8510 6	6268 5	3477 24
SD88201	4	2379 29	3970 20	1542 19	2630 26	7051 22	5619 19	3384 25
ND8933	12	2391 28	3748 27	2181 13	2773 20	5474 32	5117 28	3340 26
ND8930	11	2779 15	3472 31	1349 24	2534 30	7680 17	4795 33	3284 27
WI88-083	30	1950 34	3383 32	1327 26	2220 33	7011 23	4752 34	3161 28
MT8713	31	2912 8	4075 17	1475 20	2821 17	6419 29	5275 26	3153 29
Roughrider	2	2512 24	4243 13	1412 22	2723 22	5276 33	5314 25	3085 30
MT8719	32	2964 6	4447 9	1930 15	3114 12	7350 18	5599 20	3079 31
W-198	34	2845 10	3677 28	1314 27	2612 27	5706 31	5261 27	2919 32
IDO426	33	1422 35	4618 7	5281 1	3774 2	7814 15	6217 6	2823 33
W-235	35	2624 20	4427 10	1397 23	2816 18	5010 34	5735 12	2687 34
Kharkof	1	2139 33	3768 26	1708 17	2538 29	4378 35	4503 35	2581 35
MEAN		2635	4091	2036	2921	7368	5619	3515
LSD (.05)		782	898	932	N.S.	1988	705	488
C.V.		21.2	13.5	28.0	19.4	13.2	8.9	13.7

Table 19. Summary of mean yields (kg/ha) and ranks of 35 wheats grown in the 1993 Northern Regional Performance Nursery at 10 locations from which a CV of 15 or less and a significant F test for entries were obtained.

C.I. OR SEL. NO.	: ENTRY: : NO. :	: NORTH PLATTE : NEBRASKA :	: HEMING- FORD : NEBRASKA :	: ARCHER : WYOMING :	: PIERRE : S. DAKOTA :	: WINNER : S. DAKOTA :	:
XNH1650	27	3277 19	5468 1	4880 1	5387 10	4470 10	
XNH1687	28	3662 8	5465 2	4210 7	5728 5	4896 2	
NE90625	21	4241 2	4853 6	4078 8	5295 11	4468 11	
NE89522	17	3857 4	5462 3	3699 16	5751 4	4960 1	
NE88595	23	4310 1	4871 5	4840 2	4901 16	4745 5	
XNH1643	25	2556 30	5060 4	4755 3	4531 22	3802 21	
XNH1648	26	2299 31	4492 10	4412 5	4367 23	3789 23	
NE89657	19	3852 5	4273 17	3903 12	5939 2	4889 3	
SD89333	10	3464 13	4547 9	3688 18	4744 19	3878 20	
XNH1712	29	3052 25	4231 18	3979 10	5402 9	3787 24	
SD89204	6	3333 17	4301 13	4055 9	4600 21	4103 14	
NE87615	20	3141 22	4585 7	3945 11	5072 13	4675 7	
Abilene	3	3621 10	3669 29	4472 4	5545 8	4732 6	
ND8889	15	3661 9	4585 7	3524 22	3636 27	3801 22	
SD87143	5	3515 11	4316 12	4284 6	4939 15	3905 18	
SD89119	9	3734 7	3728 27	3441 23	4858 17	4136 13	
SD89102	7	3046 26	4296 14	3297 27	5568 7	3974 17	
NE88588	24	3999 3	4069 19	3690 17	4744 20	4263 12	
ND8955	13	3490 12	4286 15	3833 13	4766 18	4017 15	
NE89526	18	3057 24	3895 23	3378 25	6124 1	4566 9	
ND90109	16	3756 6	3699 28	3804 14	4208 25	3891 19	
SD88231	8	3112 23	4320 11	3286 28	4948 14	4011 16	
SD88201	4	3438 15	4275 18	3795 15	4237 24	3496 25	
NE88526	22	3276 20	3662 30	3264 29	5655 6	4600 8	
WI88-083	30	3455 14	3946 21	3632 20	5859 3	4836 4	
ND89142	14	2929 27	3510 31	2959 31	3268 30	2892 29	
MT8713	31	2168 32	3741 26	3531 21	5122 12	3280 26	
ND8930	11	3305 18	3756 25	2914 32	3186 31	2772 31	
ND8933	12	3389 16	3901 22	2887 33	3682 26	2815 30	
MT8719	32	2736 29	3878 24	3634 19	2346 35	2674 32	
Roughrider	2	3252 21	3002 34	3421 24	3518 29	2982 28	
W-198	34	2068 33	4058 20	2885 34	3526 28	3080 27	
W-235	35	1743 34	3345 33	3156 30	2347 34	2623 33	
IDO426	33	1407 35	3385 32	3360 26	2712 33	2335 35	
Kharkof	1	2817 28	2882 35	2688 35	2765 32	2618 34	
MEAN		3201	4166	3702	4551	3850	
LSD (.05)		601	489	854	828	516	
C.V.		11.5	7.2	14.1	11.1	8.2	

Table 19. Concluded.

C.I. OR SEL. NO.	ENTRY: NO.	MOCCASIN MONTANA	WILLISTON N. DAKOTA	CASSELTON N. DAKOTA	ABERDEEN IDAHO	LETHBRIDGE ALBERTA	REGIONAL AVERAGE
XNH1650	27	5026 3	4362 2	3694 23	9990 1	6331 4	5286 1
XNH1687	28	4351 12	4056 5	5602 2	7818 13	6697 2	5249 2
NE90625	21	4817 4	3649 15	5704 1	8611 5	6101 9	5182 3
NE89522	17	3775 25	3298 23	4386 14	8083 10	5745 11	4902 4
NE88595	23	4226 14	3148 28	4361 17	7865 12	5638 16	4890 5
XNH1643	25	5167 2	4649 1	3117 26	7922 11	6751 1	4831 6
XNH1648	26	5284 1	3990 7	2783 32	9963 2	6471 3	4785 7
NE89657	19	3643 29	3096 29	5210 4	6950 24	5661 15	4741 8
SD89333	10	3829 23	3356 21	5001 9	8339 8	6172 8	4702 9
XNH1712	29	4806 5	3377 20	3090 27	8510 6	6268 5	4650 10
SD89204	6	4764 6	2691 30	4047 22	8921 4	5665 14	4648 11
NE87615	20	3788 24	2636 31	5031 8	7818 13	5542 21	4623 12
Abilene	3	3255 34	3294 24	2974 30	9159 3	5015 32	4574 13
ND8889	15	4530 8	4126 4	4377 15	7683 16	5637 17	4556 14
SD87143	5	3945 21	3591 17	4832 10	6755 26	5412 23	4550 15
SD89119	9	3939 22	3198 27	4307 19	8231 9	5780 10	4535 16
SD89102	7	4394 11	3845 12	4678 11	7152 21	5049 30	4530 18
NE88588	24	4170 15	3395 19	5057 7	6533 28	5384 24	4530 17
ND8955	13	3640 30	3873 10	4364 16	7219 20	5528 22	4502 19
NE89526	18	2531 35	2528 32	5187 5	8426 7	5042 31	4473 20
ND90109	16	3992 19	3681 14	4258 21	7250 19	5685 13	4422 21
SD88231	8	4104 16	3276 26	4271 20	6574 27	6202 7	4410 22
SD88201	4	3970 20	3284 25	4448 13	7051 22	5619 19	4361 23
NE88526	22	3333 33	2434 33	5326 3	6900 25	5066 29	4352 24
WI88-083	30	3383 32	1324 35	3025 29	7011 23	4752 34	4122 25
ND89142	14	4060 18	4140 3	5115 6	6063 30	5627 18	4056 26
MT8713	31	4075 17	3626 16	2950 31	6419 29	5275 26	4019 27
ND8930	11	3472 31	3852 11	4313 18	7660 17	4795 33	4003 28
ND8933	12	3748 27	4052 6	4620 12	5474 32	5117 28	3969 29
MT6719	32	4447 9	3756 13	2577 33	7350 18	5599 20	3900 30
Roughrider	2	4243 13	3980 8	3653 24	5276 33	5314 25	3864 31
W-198	34	3677 28	3952 9	3181 25	5706 31	5261 27	3739 32
W-235	35	4427 10	3568 18	2531 34	5010 34	5735 12	3449 33
IDO426	33	4618 7	1612 34	815 35	7814 15	6217 6	3428 34
Kharkof	1	3768 26	3319 22	3036 28	4378 35	4503 35	3278 35
MEAN		4091	3429	4055	7368	5619	4403
LSD (.05)		898	430	606	1988	705	608
C.V.		13.5	9.0	9.1	13.2	8.9	10.8

**Table 20. Summary of mean yields (kg/ha) and ranks of 35 wheats grown in the 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 Trials	5	4	1	3	3	16	
XNH1687	28	3417 1	4845 6	5802 2	4291 1	3926 15	4170 1
XNH1650	27	2826 12	5722 1	3694 23	4265 2	4273 9	4145 2
NE90625	21	3159 3	4662 10	5704 1	3847 11	4713 4	4114 3
SD89204	6	2635 16	5025 4	4047 22	3372 26	5135 2	3928 4
SD89333	10	2422 24	4751 9	5001 9	3530 19	4932 3	3844 5
NE88588	24	3133 4	4086 24	5057 7	3478 23	4398 6	3793 6
NE89522	17	2969 9	4930 5	4386 14	3861 8	3353 29	3787 8
NE88595	23	3091 6	4755 8	4361 17	3665 14	3588 26	3787 7
ND8955	13	3066 7	4424 15	4364 16	3850 10	3665 17	3783 9
NE89657	19	3244 2	4159 21	5210 4	3915 5	3426 27	3755 10
ND8889	15	2716 13	4468 13	4377 15	3597 17	4376 8	3734 11
NE87615	20	2868 10	4510 12	5031 8	3517 20	3828 20	3715 12
SD89102	7	2515 22	4229 20	4678 11	4017 4	3996 13	3638 13
SD89119	9	2858 11	4447 14	4307 19	3501 21	3772 21	3638 14
ND90109	16	2665 15	4234 19	4258 21	3638 16	4232 10	3633 15
SD88231	8	2589 20	4055 26	4271 20	3561 18	4630 5	3625 16
XNH1643	25	2047 28	5085 3	3117 26	4061 3	4029 12	3623 17
SD87143	5	2567 21	4322 17	4832 10	3756 12	3907 16	3621 18
NE89526	18	3048 8	4395 16	5187 5	3652 15	2970 35	3617 19
XNH1648	26	2027 29	5275 2	2783 32	3732 13	4115 11	3598 20
NE88526	22	3110 5	3974 28	5326 3	3489 22	3030 34	3521 21
Abilene	3	2617 18	4596 11	2974 30	3859 9	3331 30	3501 22
ND89142	14	2697 14	3497 32	5115 6	3339 27	4362 7	3484 23
XNH1712	29	2070 27	4762 7	3090 27	3866 7	3847 19	3477 24
SD88201	4	2417 25	4144 22	4448 13	3300 29	3710 22	3384 25
ND8933	12	2630 17	3624 31	4620 12	3375 25	3682 23	3340 26
ND8930	11	2469 23	4114 23	4313 18	3272 30	3206 32	3284 27
WI88-083	30	2598 19	3991 27	3025 29	3044 31	3154 33	3161 28
MT8713	31	1927 30	3843 29	2950 31	3887 6	3609 25	3153 29
Roughrider	2	2321 26	3280 34	3653 24	3336 28	3657 24	3085 30
MT8719	32	1880 31	4060 25	2577 33	3022 32	3992 14	3079 31
W-198	34	1658 33	3664 30	3181 25	3441 24	3417 28	2919 32
ID0426	33	1056 35	4305 18	815 35	1915 35	5372 1	2823 33
W-235	35	1381 34	3366 33	2531 34	2846 33	3853 18	2687 34
Kharkof	1	1762 32	2812 35	3036 28	2741 34	3326 31	2581 35
MEAN	2527	4297	4055	3538	3915	3515	
LSD(.05)	534	834	607	N.S.	N.S.	488	
C.V.	15.9	13.2	9.2	13.5	13.2	13.7	

Table 21. Summary of mean yields (kg/ha) and ranks for 15 wheats grown in the Northern Regional Performance Nursery at 14 sites in 1992 and 1993 with state means and ranks.

C.I. OR SEL. NO.	ENTRY: NO.	NORTH PLATTE NEBRASKA	HEMING- FORD NEBRASKA	NEBRASKA STATE MEAN	ARCHER WYOMING	SHERIDAN WYOMING	WYOMING STATE MEAN	ABERDEEN IDAHO
NE89522	17	3273 8	4839 1	4056 1	2449 2	2137 2	2293 1	7685 2
ND8955	13	3805 1	4132 4	3968 2	2339 5	2198 1	2269 2	5977 9
SD89102	7	3684 3	4145 3	3915 3	2121 9	1870 4	1995 7	6580 4
SD89204	6	3516 6	4226 2	3871 4	2350 4	2069 3	2210 3	8038 1
NE89657	19	3742 2	3959 7	3850 5	2285 6	1827 7	2056 5	6355 5
SD87143	5	2870 12	4112 5	3491 8	2501 1	1691 10	2096 4	5372 13
ND89142	14	3012 11	3630 11	3321 12	1901 13	1444 14	1672 15	5504 12
NE89526	18	3119 9	3555 13	3337 11	2049 11	1729 9	1889 9	6749 3
ND8933	12	3315 7	3812 9	3564 7	1798 14	1843 5	1820 11	4795 15
SD88201	4	3589 4	4008 6	3798 6	2433 3	1559 11	1996 6	5807 11
ND8930	11	2806 13	3454 14	3130 13	1764 15	1742 8	1753 14	6269 6
MT8713	31	2546 14	3616 12	3081 14	2098 10	1523 12	1811 12	6163 8
Roughrider	2	3560 5	3384 15	3472 9	2165 8	1477 13	1821 10	5013 14
MT8719	32	3032 10	3676 10	3354 10	2199 7	1367 15	1783 13	6202 7
W-198	34	2268 15	3864 8	3066 15	2016 12	1835 6	1926 8	5879 10
MEAN		3209	3894	3552	2165	1748	1956	6159
LSD(.05)		N.S.	674	N.S.	N.S.	N.S.	N.S.	1297
C.V.		19.9	8.8	14.4	18.2	22.9	20.3	15.1



Table 21. Continued.

C.I. OR SEL. NO.	: ENTRY: : NO. :	SIDNEY : MONTANA :	MOCCASIN : MONTANA :	BOZEMAN : MONTANA :	MONTANA : STATE MEAN :	WILLISTON : N. DAKOTA :	CASSELTON : N. DAKOTA :	NORTH DAKOTA : STATE MEAN :
NE89522	17	4124 13	2916 2	3702 10	3581 8	2962 12	3932 9	3447 8
ND8955	13	4909 1	2094 14	4321 4	3775 4	3593 5	4113 5	3853 2
SD89102	7	4548 2	2764 3	4220 6	3844 2	3396 9	4027 7	3711 6
SD89204	6	4485 3	3087 1	5802 1	4458 1	2517 14	3191 11	2854 14
NE89657	19	4162 12	2172 12	3836 8	3390 11	2677 13	4740 1	3709 7
SD87143	5	3979 14	2726 4	4361 3	3689 6	3230 10	4402 2	3816 4
ND89142	14	4262 8	2572 7	4523 2	3786 3	3583 6	4002 8	3792 5
NE89526	18	3524 15	1781 15	3615 11	2973 15	2242 15	4143 4	3192 11
ND8933	12	4216 10	2390 11	3514 13	3373 12	3709 1	4333 3	4021 1
SD88201	4	4253 9	2456 10	3776 9	3495 10	3164 11	3633 10	3398 10
ND8930	11	4312 6	2107 13	3139 15	3186 14	3617 4	4036 6	3827 3
MT8713	31	4461 4	2525 9	4048 7	3678 7	3419 8	2302 14	2860 13
Roughrider	2	4200 11	2526 8	3303 14	3343 13	3665 2	3174 12	3420 9
MT8719	32	4273 7	2615 6	4241 5	3709 5	3495 7	2121 15	2808 15
W-198	34	4340 5	2639 5	3526 12	3501 9	3627 3	2359 13	2993 12
MEAN		4270	2489	3895	3585	3260	3634	3447
LSD(.05)		N.S.	N.S.	N.S.	N.S.	388	744	N.S.
C.V.		14.4	17.3	12.5	14.5	10.0	10.4	10.1

Table 21. Concluded.

C.I. OR SEL. NO.	ENTRY: NO.	ROSEMOUNT WINNESOTA	WASECA MINNESOTA	MINNESOTA STATE MEAN	PIERRE S. DAKOTA	WINNER S. DAKOTA	SOUTH DAKOTA STATE MEAN	REGIONAL AVERAGE
NE89522	17	3587 5	2863 6	3125 6	4038 1	4421 1	4230 1	3766 1
ND8955	13	4097 1	2796 5	3447 2	3081 8	3942 4	3512 6	3671 2
SD89102	7	3268 8	2574 7	2921 7	3933 3	4194 2	4063 2	3666 3
SD89204	6	3095 10	1931 15	2513 14	3242 7	3533 9	3387 7	3649 4
NE89657	19	3747 3	3188 1	3467 1	3971 2	4021 3	3996 3	3620 5
SD87143	5	3582 6	2273 10	2917 8	3385 5	3938 5	3652 5	3456 6
ND89142	14	3665 4	2840 4	3253 4	2753 12	3260 13	3007 13	3354 7
NE89526	18	3813 2	2967 2	3390 3	3777 4	3766 6	3771 4	3345 8
ND8933	12	3437 7	2917 3	3177 5	2747 13	3513 10	3130 12	3310 9
SD88201	4	3142 9	1945 13	2544 12	2885 10	3610 7	3247 10	3304 10
ND8930	11	2817 13	2543 8	2680 9	3076 9	3457 11	3267 8	3224 11
MT8713	31	2957 11	2132 11	2544 11	3287 6	3246 14	3267 9	3166 12
Roughrider	2	2656 14	2529 9	2592 10	2806 11	3558 8	3182 11	3144 13
MT6719	32	2945 12	2090 12	2517 13	2463 14	3083 15	2773 15	3129 14
W-198	34	2533 15	1931 14	2232 15	2318 15	3269 12	2794 14	3029 15
MEAN		3288	2488	2888	3183	3654	3418	3388
LSD(.05)		759	N.S.	N.S.	N.S.	N.S.	N.S.	400
C.V.		8.5	33.7	21.6	16.3	13.8	15.9	15.6

Table 22. Mean yield, regression coefficient, correlation coefficient, and coefficient of determination from linear regression analysis of variety mean yield on nursery mean yield for the 35 entries in the 1993 Northern Regional Performance Nursery grown at 16 locations.

C.I. OR SEL. NO.	: ENTRY: NO.	: 16 SITE REGIONAL AVERAGE KG/HA	: REGRESSION COEFFICIENT (b)	: CORRELATION COEFFICIENT (r)	: COEFFICIENT OF DETERMINATION (r <sup>2</sup> )
XNH1687	28	4170	1.13	0.93	0.87
XNH1650	27	4145	1.33	0.97	0.94
NE90625	21	4114	1.15	0.96	0.92
SD89204	6	3928	1.01	0.88	0.78
SD89333	10	3844	1.05	0.90	0.82
NE88588	24	3793	0.77	0.92	0.86
NE89522	17	3787	1.18	0.95	0.89
NE88595	23	3787	1.11	0.95	0.90
ND8955	13	3783	0.85	0.98	0.96
NE89657	19	3755	0.99	0.92	0.84
ND8889	15	3734	0.95	0.96	0.93
NE87615	20	3715	1.06	0.97	0.93
SD89102	7	3638	0.96	0.97	0.93
SD89119	9	3638	1.07	0.97	0.95
ND90109	16	3633	0.90	0.97	0.95
SD88231	8	3625	0.89	0.94	0.88
XNH1643	25	3623	1.27	0.93	0.86
SD87143	5	3621	0.95	0.98	0.95
NE89526	18	3617	1.07	0.89	0.79
XNH1648	26	3598	1.46	0.95	0.90
NE88526	22	3521	0.93	0.88	0.77
Abilene	3	3501	1.23	0.94	0.88
ND89142	14	3484	0.69	0.84	0.70
XNH1712	29	3477	1.32	0.97	0.93
SD88201	4	3384	1.02	0.99	0.97
ND8933	12	3340	0.65	0.91	0.83
ND8930	11	3284	0.90	0.93	0.86
WI88-083	30	3161	1.03	0.89	0.80
MT8713	31	3153	0.97	0.96	0.91
Roughrider	2	3085	0.76	0.90	0.82
MT8719	32	3079	1.00	0.91	0.83
W-198	34	2919	0.87	0.93	0.87
IDO426	33	2823	1.01	0.72	0.51
W-235	35	2687	0.81	0.85	0.72
Kharkof	1	2581	0.66	0.91	0.83

Table 23. Mean yield, regression coefficient, correlation coefficient, and coefficient of determination from linear regression analysis of variety mean yield on nursery mean yield for the 15 entries in the 1992 and 1993 Northern Regional Performance Nursery grown at 14 locations.

C.I. OR SEL. NO.	: ENTRY: NO.	: 14 SITE REGIONAL AVERAGE KG/HA	: REGRESSION COEFFICIENT (b)	: CORRELATION COEFFICIENT (r)	: COEFFICIENT OF DETERMINATION (r <sup>2</sup> )
NE89522	17	3766	1.16	0.94	0.88
ND8955	13	3671	1.03	0.97	0.94
SD89102	7	3666	1.05	0.98	0.96
SD89204	6	3649	1.12	0.89	0.79
NE89657	19	3620	1.08	0.94	0.88
SD87143	5	3456	0.96	0.95	0.89
ND89142	14	3354	0.85	0.93	0.87
NE89526	18	3345	1.07	0.91	0.83
ND8933	12	3310	0.80	0.92	0.85
SD88201	4	3304	1.02	0.97	0.95
ND8930	11	3224	0.94	0.93	0.86
MT8713	31	3166	1.09	0.96	0.92
Roughrider	2	3144	0.86	0.93	0.87
MT8719	32	3129	1.02	0.92	0.85
W-198	34	3029	0.93	0.93	0.86