

Performance of nine hard red spring (HRS) wheat cultivars following fallow and oat at Beulah, Hannover, and Glen Ullin, North Dakota.

	-----Beulah-----					-----Hannover-----					-----Glen Ullin-----				
	height	yield	TW	protein	kernel weight	height	yield	TW	protein	kernel weight	height	yield	TW	protein	kernel weight
Crop rotation (R)	-in-	-bu/ac-	-lb/bu-	-%-	kernel/lb	-in-	-bu/ac-	-lb/bu-	-%-	kernel/lb	-in-	-bu/ac-	-lb/bu-	-%-	kernel/lb
HRS wht-fallow	25	39.9	61.1	13.7	14,699	30	41.7	61.2	15.5	14,646	28	42.3	62.7	15.2	14,746
HRS wht-pea-oat	26	40.5	60.6	14.0	15,079	30	42.1	59.3	15.5	16,093	27	39.6	58.8	15.0	17,417
HRS wheat cultivar (C)															
Alsen	25	38.4	60.5	14.2	15,284	30	41.6	59.2	15.7	15,292	29	39.9	59.2	16.2	16,620
Briggs	27	39.7	62.3	13.4	14,930	30	41.2	60.4	15.0	15,099	28	41.6	60.3	14.6	16,332
Dapps	25	41.1	58.7	14.8	14,726	34	41.1	59.2	16.3	16,100	26	37.5	59.1	16.1	16,789
Granite	24	39.4	60.6	14.6	16,134	29	40.9	62.1	16.4	16,581	24	41.6	63.3	16.1	16,631
Hanna	28	38.9	60.3	13.7	14,236	35	42.3	61.4	15.0	14,943	32	39.8	62.2	14.3	15,169
Knudson	21	41.6	60.3	13.2	13,720	27	42.2	61.3	15.5	14,612	24	38.7	62.1	15.3	14,827
Parshall	27	40.5	62.1	13.8	14,799	31	38.4	59.7	15.7	15,998	28	42.3	61.8	14.7	15,619
Reeder	25	41.0	61.9	13.3	14,649	29	47.2	60.3	14.8	14,065	26	44.9	59.8	13.8	16,222
Walworth	25	41.1	60.9	13.6	15,525	30	42.3	59.0	15.1	15,634	27	42.3	59.2	14.9	16,534
Mean	25	40.1	60.8	13.9	15,014	30	41.8	60.4	15.6	15,491	27	41.0	61.0	15.2	16,137
R	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	*	NS	*
C	NS	NS	NS	NS	*	*	*	*	*	*	*	NS	*	NS	*

Additional information about this or other crop rotation studies coordinated by the NDSU Dickinson Research Extension Center can be obtained by contacting Dr. Patrick Carr at 701-483-2581 or by email pcarr@ndsu.nodak.edu.

NS = not significant; * = significant at P<0.05.

Planting Date: April 30, 2003 (Hannover, Beulah) May 1, 2003 (Glen Ullin)

Harvest Date: August 12, 2003 (Hannover, Glen Ullin, Beulah)