

Table 13. Effect of nitrogen fertilization on grain yield, test weight, straw yield, and 1,000-kernel weight of no-till winter wheat grown at the Columbia Plateau Conservation Research Center-ARS at Pendleton, Oregon, 2001-2002 and 2002-2003.

2001-2002 N	Yield A	Yield B	Yield C	Test wt A	Test wt B	Test wt C	Straw yield A	Straw yield B	Straw yield C	1000-kernel wt A	1000-kernel wt B	1000-kernel wt C
lbs/acre	bu/acre			lbs/bu			---t/acre---			---oz---		
0	38.2	44.7	60.8	58.1	58.3	58.7	2.03	2.25	3.16	1.57	1.60	1.75
40	58.1	61.0	--	58.9	59.1	--	3.26	3.09	--	1.54	1.51	--
80	71.5	72.6	--	59.0	59.8	--	3.85	4.26	--	1.38	1.40	--
120	61.9	67.3	73.0	56.6	57.7	55.4	3.81	4.08	4.20	1.23	1.31	1.12
160	56.2	58.9	--	54.1	56.2	--	4.28	4.32	--	1.20	1.25	--

2002-2003 N	Yield A	Yield B	Yield C	Test wt A	Test wt B	Test wt C	Straw yield A	Straw yield B	Straw yield C	1000-kernel wt A	1000-kernel wt B	1000-kernel wt C
lbs/acre		bu/acre			lbs/bu			---t/acre---			---oz---	
0	37.7	42.1		58.5	58.9	59.2	2.11	1.80	2.43	1.51	1.54	1.37
40	62.4	64.6	--	58.9	59.3	--	3.41	2.66	--	1.50	1.52	--
80	81.8	72.9	--	59.2	59.7	--	4.35	3.14	--	1.36	1.46	--
120	74.5	81.7		57.0	58.5	58.9	5.06	5.09	5.65	1.23	1.23	1.48
160	82.1	86.2	--	55.4	57.8	--	6.13	4.34	--	1.02	1.18	--

Means of four replications