

**Table 4**

Treatment means, standard error of the difference in means, and two-sided *p*-values for wheat yield component responses across five sites in north-central Montana.

Yield Component	Treatment, Statistics	Site†					Mean‡
		Big Sandy	Box Elder	Joplin	Sunburst	Oilmont	
Grain Yield (Mg ha <sup>-1</sup> )	Fallow	4.76	4.48	4.05	4.83	1.69	3.94
	LGM	4.25	4.43	3.92	4.36	1.51	3.70
	<i>SE difference</i>	0.36	0.26	0.22	0.26	0.18	0.11
	<i>p-value</i>	0.21	0.88	0.56	0.11	0.36	0.04*
Grain Protein (g kg <sup>-1</sup> )	Fallow	88	130	108	127	95	110
	LGM	94	123	99	117	99	106
	<i>SE difference</i>	4	6	4	7	3	2
	<i>p-value</i>	0.26	0.23	0.08*	0.24	0.24	0.13
Grain N Yield (kg ha <sup>-1</sup> )	Fallow	65	90	72	99	25	69
	LGM	61	84	62	79	23	62
	<i>SE difference</i>	5	5	5	7	2	2
	<i>p-value</i>	0.48	0.23	0.07*	0.04*	0.50	<0.01*
Grain Density (kg m <sup>-3</sup> )	Fallow	772	777	775	786	794	781
	LGM	776	788	770	796	800	786
	<i>SE difference</i>	2	4	4	6	2	2
	<i>p-value</i>	0.05*	0.03*	0.28	0.15	0.01*	0.04*

\* Treatment differences at individual sites determined by paired t-tests and treatment means across all sites from mixed-effects ANOVA considered significant at  $p \leq 0.10$ .

† Big Sandy, Box Elder and Joplin grew winter wheat, Sunburst and Oilmont grew spring wheat.

‡ Treatment means and statistics as calculated across all sites. Note: "Mean" is not the mean of site means.