

Table 12

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

Conservation parameters	Treatment, Statistics	Site†					Mean‡
		Big Sandy	Box Elder	Joplin	Sunburst	Oilmont	
NUE§							
	Fallow	0.86	0.69	0.74	0.83	1.07	0.84
	LGM	1.37	0.77	0.87	1.05	1.32	1.04
	<i>SE difference</i>	0.19	0.04	0.07	0.10	0.14	0.04
	<i>p-value</i>	0.04*	0.10*	0.07*	0.05*	0.12	<0.01*
Residue C Returned (kg ha ⁻¹) §§							
	Fallow	2867	2482	2159	2687	811	2179
	LGM	2933	2709	2649	2918	909	2439
	<i>SE difference</i>	182	183	121	125	106	65
	<i>p-value</i>	0.73	0.26	<0.01*	0.15	0.39	<0.01*
Residue N Returned (kg ha ⁻¹) §§							
	Fallow	26	33	20	33	8	24
	LGM	67	47	59	54	21	50
	<i>SE difference</i>	2	2	3	2	2	2
	<i>p-value</i>	<0.01*	<0.01*	<0.01*	<0.01*	<0.01*	<0.01*

* 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.

§ Calculated as grain N yield (kg-ha⁻¹) divided by N fertilizer added plus pre-seeding 0 to 0.9 m soil nitrate (kg-ha⁻¹).

§§ Sum of residue C and N returned over both fallow/LGM and wheat years.