

Table 1
Orientation, soil, and experimental characteristics of five experimental sites in north-central Montana.

	Site				
	Big Sandy	Box Elder	Joplin	Sunburst	Oilmont
Orientation					
Site location	47° 54'50" N, 109° 55'24" W	48° 18'08" N, 110° 05'55" W	48° 44'56" N, 110° 52'41" W	48° 48'05" N, 111° 38'30" W	48° 48'07" N, 111° 31'08" W
Elevation (m)	888	833	1059	1102	1090
Soils*					
Dominant soil classification	Aridic Argiborolls	Aridic Argiborolls	Aridic Argiborolls	Aridic Argiborolls	Aridic Argiborolls
Dominant soil texture	Sandy clay loam	Loam	Clay loam	Loam	Sandy clay loam
pH (saturated paste)	6.1	6.9	7.6	6.9	7.8
Soil organic C (g kg ⁻¹)	11.0	8.7	12.8	12.2	11.0
Salinity (dS m ⁻¹)	0.2	0.4	0.4	0.3	0.4
Fallow NO ₃ -N (kg ha ⁻¹)	16.0	10.1	11.2	37.0	12.3
LGM NO ₃ -N (kg ha ⁻¹)	10.6	7.8	15.7	16.8	11.2
Fallow Olsen P (mg kg ⁻¹)	23	19	16	12	9
LGM Olsen P (mg kg ⁻¹)	21	25	19	11	8
Fallow extractable K (mg kg ⁻¹)	340	422	319	599	355
LGM extractable K (mg kg ⁻¹)	433	403	451	519	507
Experimental Characteristics					
Transect length (m)	558	732	1288	671	732
Paired sampling points (n)	6	8	12	8	8

* All soil characteristics listed after "Dominant soil classification" refer to the 0-15 cm epipedon, sampled June 11, 2009.

† Soil Testing methods used: soil organic C- weight-loss-on-ignition (LOI); NO₃-N: 2 M KCl extraction, Cd reduction determination; Olsen P: NaHCO₃ extraction, colorimetric determination; extractable K: 1 M NH₄OAc extraction; mass spectrometry determination. (Brown 1998)