

**Table 2.** Nitrous oxide emissions, grain yield, N<sub>2</sub>O-N emissions per unit yield and N<sub>2</sub>O -N emissions per unit N applied.

Year	Treatment	Corn growing season N <sub>2</sub> O emissions (g N ha <sup>-1</sup> )	Grain yield (Mg ha <sup>-1</sup> )	N <sub>2</sub> O-N emissions per unit grain yield	N applied (kg N ha <sup>-1</sup> )	N <sub>2</sub> O-N emissions per unit N applied (%)
2015	Inject manure	3050a	8.9a	322.8a	179	1.8a
	Broadcast manure	1420ab	8.9a	158.5ab	179	0.9ab
	Alf+Orchardgrass	1262ab	10.2a	124.9ab	132	0.9ab
	Crimson clover	1194ab	9.6a	123.2ab	101	1.2ab
	Soybean fertilizer	436b	11.4a	55.1b	226	0.4b
2016	Inject manure	1566a	10.0ab	246.6a	175	1.2a
	Broadcast manure	850bc	11.1ab	67.2ab	179	0.6b
	Alf+Orchardgrass	1353ab	8.6b	215.7ab	143	1.1ab
	Crimson clover	1272ab	11.7a	146.9ab	89	1.3a
	Soybean fertilizer	545cd	11.1ab	31.3b	225	0.4b

Different letters indicate significance at p<0.05.