

Table 1. 2013-2016 yields (Mg ha⁻¹, dry matter) are presented for the injection manure (IM) versus broadcast manure (BM).

Crop	Year	IM	BM	SE	P-value
		(Mg ha ⁻¹)			
Alf+Grass - Yr. 1	2013	5.78	5.00	0.42	0.11
	2014	12.25	12.28	0.77	0.45
	2015	9.57	8.72	0.59	0.64
	2016	9.20	9.29	0.44	0.20
Alf+Grass - Yr. 2 [^]	2013	6.65	6.66	0.42	0.97
	2014	17.87	18.55	0.77	0.45
	2015	15.41	16.87	0.59	0.64
	2016	15.65	17.28	0.45	0.04
Spring Canola	2013	1.07	1.53	0.14	0.10
Rye Silage [#]	2014	6.29	6.89	0.24	0.02
	2015	6.85	6.74	0.48	0.16
	2016	8.47	7.80	0.11	0.19
	2014	4.54	5.53	0.35	0.05
SS Grass [#]	2015	5.01	4.88	0.43	0.83
	2016	8.01	7.67	0.99	0.81
	2014	9.06	10.06	0.47	0.11
Red Clover	2015	9.56	10.38	0.48	0.22
Corn Silage (after RC/HV)	2013	13.63	13.42	0.67	0.14
Corn Silage (after RC/CC)	2014	18.09	16.48	0.80	0.25
	2015	17.16	16.08	0.37	0.12
Corn silage after AOG ₂	2016	14.90	16.00	1.21	0.58
Corn Silage (wheat) [§]	2013	17.96	16.05	0.67	0.14
Corn Silage (after intersd) [§]	2014	15.50	15.96	0.80	0.25
	2015	14.90	16.30	0.40	0.11
	2016	13.50	12.10	0.33	0.06
Corn Grain	2013	9.97	10.57	0.20	0.13
	2014	10.02	10.34	0.46	0.80
	2015	9.33	8.85	0.40	0.82
	2016	9.79	9.80	0.33	0.99

Manure Management Comparison		2013	2014	2015	2016
Sources of Variation	df	p-value			
Crop ^{&}	3	<0.001	<0.001	<0.001	<0.001
Manure Management	1	0.42	0.6383	0.85	0.73
MainMgt*Crop	3	0.05	0.1341	0.04	0.07

[^] Due to a failed alfalfa+grass stand in 2012, timothy grass + red clover was planted in 2013, resulting in lower yields.

[#] Spring canola was replaced with rye silage followed by sorghum sudangrass and fall-planted crimson clover or rye silage underseeded by red clover. In 2016, we had a third cut of sorghum sudangrass in the split-split plots planted into rye silage.

[§] In 2014-2015, corn silage that was after wheat in 2013 will follow interseeded clovers and annual ryegrass mix.

[&] When crop entry plots received manure treatments, they were included in the manure management comparison analysis. These included canola, both corn silage, and corn grain plots in 2013, corn grain and both corn silage plots in 2014 due to canola winterkill, corngrain, both corn silage, and rye silage in 2015