

**Table 1. Diverse crop rotation yields for grain, oilseed, forage, and cover crops**

Crop	Year	2011	2012	2013	Avg
Spring Wheat – Control	Bu/Ac	28.0	55.7	43.0	42.2
Protein Content	%	13.4	15.0	14.5	14.3
Test Weight	Lb	59.3	58.3	60.4	59.3
Spring Wheat – Rotation	Bu/Ac	30.1	45.1	36.5	37.2
Protein Content	%	13.7	13.4	13.2	13.4
Test Weight	Lb	58.8	59.5	60.2	59.5
Sunflower (oilseed type)	Lb/Ac	891	1590	1480	1480
Percent oil Content	%	-	37.3	37.6	37.5 <sup>b</sup>
Corn Grain (90 Day forage type)	Bu/Ac	15.0	55.2	87.9	52.7
Corn Forage (Dry Matter (DM))	T/Ac	1.65	3.66	4.01	3.11
Triticale – Hairy Vetch Hay <sup>a</sup>	T/Ac	2.71	1.59	0.00	2.15 <sup>b</sup>
Pea Grain	Bu/Ac	19.1	-		19.1
Pea-Barley Forage (DM)	T/Ac	-	3.11	4.52	3.82 <sup>b</sup>
Cover Crop:					
October	T/Ac	-	2.61	2.84	2.73

<sup>a</sup>Triticale was winter killed. No hay harvested. Cover crop planted late June 2013

<sup>b</sup>2-year average

**Table 2. Cow and calf performance through weaning <sup>a</sup>**

	Control	Integrated	Forage
No. Cows with Calves	72	72	72
Cow:			
Start Wt., lb.	1441	1348	1321
Wean Wt., lb	1386	1361	1337
Gain, lb	-55	13	16
ADG, lb	-0.35	0.083	0.103
Cow BCS <sup>b</sup> :			
Start	6.3	5.9	6.1
Weaning	4.4	4.4	4.5
Calf:			
Birth Wt., lb	88.3	88.8	88.7
Weaning Age, d	176.1	176.2	176.5
Weaning Wt., lb	515	508	499
ADG, lb	3.30	3.26	3.20

<sup>a</sup>Grazing of native range pasture started on June 16, 2013 and calves were weaned November 19, 2012 a total of 156 days.

<sup>b</sup>Body Condition Score: (1 – emaciated; 9 – obese)