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

Crop	Year	2011	2012	2013	2014	Avg ^b
Spring Wheat – Control	Bu/Ac	28.0	55.7	46.8	44.2	43.7
Protein Content	%	13.4	15.0	14.5	13.7	14.2
Test Weight	Lb	59.3	58.3	60.4	62.1	60.0
Spring Wheat – Rotation	Bu/Ac	30.1	45.1	39.2	47.9	40.6
Protein Content	%	13.7	13.4	13.2	13.0	13.3
Test Weight	Lb	58.8	59.5	60.2	61.9	60.0
Sunflower (oilseed type)	Lb/Ac	891	1590	1959	1060	1375
Percent oil Content	%	-	37.3	37.6	40.4	38.4^{c}
Corn Grain (90 Day forage type)	Bu/Ac	15.0	55.2	87.9	45	50.8
Corn Forage (Dry Matter (DM))	T/Ac	1.65	3.66	4.01	3.5	3.35
Triticale – Hairy Vetch Hay	T/Ac	2.71	1.59	0.00^{a}	0.66	1.65 ^c
Pea Grain	Bu/Ac	19.1	-			19.1
Pea-Barley Forage (DM)	T/Ac	-	3.11	4.53	3.75	3.80^{c}
Cover Crop:						
September	T/Ac	-	4.25	3.25	0.62	2.71

^a Triticale was winter killed. No hay harvested. Cover crop planted late June 2013

Table 2. Cow and calf performance through weaning

	Co	Control		Integrated		Forage	
No. Cows with Calves	72ª	72 ^b	72 a	72 ^b	72 a	72 ^b	
Cow:							
Start Wt., lb.	1441	1614	1348	1631	1321	1609	
Wean Wt., lb	1386	1606	1361	1606	1337	1574	
Gain, lb	-55	-8	13	-25	16	-35	
ADG, lb	-0.35	-0.05	0.083	-0.15	0.103	-0.21	
Cow BCS ^c							
Start	6.3	6.5	5.9	6.3	6.1	6.2	
Weaning	4.4	5.9	4.4	5.6	4.5	5.3	
Calf:							
Birth Wt., lb	88.3	95.8	88.8	97.8	88.7	93.8	
Weaning Age, d	176.1	164	176.2	163	176.5	165	
Weaning Wt., lb	515	573	508	588	499	585	
ADG, lb	3.30	3.50	3.26	3.60	3.20	3.55	

^aGrazing in 2013 started on June 16 and ended on November 19, 2013. Calves were weaned Nov. 19

^b 4-year average

^c 3-year average

^bIn 2014, grazing started June 17 and ended November 4-6. Calves were weaned Nov 4-6.

^cBody Condition Score: (1 – emaciated; 9 – obese)