

Table 20: Input costs for crop management for all crop entry points in the GRAIN, FORAGE, and C-S Control rotations for 2011, broken down at the level of main management treatments: reduced herbicide (RH), standard herbicide (SH), inject manure (IM), and broadcast manure (BM).

GRAIN ROTATION																
INPUTS (\$/A)	Canola		Soybean + Rye		Corn Grain + Rye		Forage* Yr 1		Forage* Yr 2		Forage* Yr 3		Total Average			
	RH	SH	RH	SH	RH	SH	RH	SH	RH	SH	RH	SH	RH	SH		
Seed	\$21.84	\$21.84	\$110.71	\$110.71	\$100.47	\$100.47	\$92.34	\$86.94	\$0.00	\$0.00	\$0.00	\$0.00	\$81.34	\$79.99		
Fertilizer	\$59.65	\$59.65	\$0.00	\$0.00	\$53.67	\$53.67	\$103.95	\$103.95	\$74.25	\$148.50	\$74.25	\$74.25	\$54.32	\$54.32		
Herbicides	\$0.00	\$7.37	\$13.91	\$13.22	\$23.09	\$63.68	\$0.00	\$15.48	\$0.00	\$0.00	\$0.00	\$0.00	\$9.25	\$24.94		
Insecticides	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13.91	\$13.91	\$10.43	\$10.43	\$10.43	\$10.43	\$3.48	\$3.48		
Labor + Fuel	\$36.79	\$22.07	\$29.84	\$24.86	\$27.65	\$27.65	\$72.05	\$72.05	\$110.21	\$110.21	\$104.09	\$104.09	\$41.58	\$36.66		
Custom Hire	\$52.64	\$73.64	\$34.24	\$34.24	\$73.74	\$73.74	\$39.27	\$3.14	\$24.40	\$21.68	\$3.14	\$3.14	\$49.97	\$46.19		
TOTAL (\$/A)	\$170.91	\$184.57	\$188.69	\$183.03	\$278.61	\$319.20	\$321.52	\$295.45	\$219.29	\$290.82	\$191.90	\$191.90	\$239.93	\$245.56		
*RH includes alfalfa, orchard grass, pea, and triticale, while SH consists of pure alfalfa.																
FORAGE ROTATION																
INPUTS (\$/A)	Corn Silage, Wh.		Wheat		Red Clover ^A		Corn Silage, Can.		Canola		Alfalfa+Grass Yr 1		Alfalfa+Grass Yr 2		Total Average	
	IM	BM	IM	BM	IM	BM	IM	BM	IM	BM	IM	BM	IM	BM	IM	BM
Seed	\$70.00	\$70.00	\$37.20	\$37.20	\$46.44	\$46.44	\$70.00	\$70.00	\$21.84	\$21.84	\$113.40	\$113.40	\$0.00	\$0.00	\$69.81	\$69.81
Fertilizer	\$83.37	\$83.37	\$150.70	\$150.70	\$0.00	\$0.00	\$127.92	\$127.92	\$45.09	\$69.65	\$44.55	\$44.55	\$44.55	\$44.55	\$82.69	\$85.12
Herbicides	\$39.30	\$39.30	\$0.00	\$0.00	\$0.00	\$0.00	\$37.73	\$37.73	\$0.00	\$0.00	\$38.03	\$38.03	\$0.00	\$0.00	\$19.18	\$19.18
Insecticides	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.43	\$10.43	\$10.43	\$10.43	\$3.48	\$3.48
Labor + Fuel	\$18.22	\$18.22	\$17.67	\$17.67	\$35.14	\$35.14	\$18.22	\$18.22	\$29.43	\$29.43	\$128.58	\$128.58	\$104.09	\$104.09	\$68.54	\$68.54
Custom Hire	\$261.71	\$241.31	\$33.64	\$33.64	\$55.02	\$57.39	\$264.29	\$242.80	\$73.64	\$52.64	\$57.07	\$53.52	\$25.63	\$53.52	\$128.50	\$122.47
TOTAL	\$472.60	\$452.20	\$239.11	\$239.11	\$136.60	\$138.97	\$518.15	\$496.66	\$169.99	\$163.56	\$392.05	\$388.51	\$184.69	\$212.58	\$352.20	\$348.60
^A Red clover is double-cropped with wheat.																
C-S CONTROL ROTATION																
INPUTS (\$/A)	Corn Grain		Soybean		Total Average											
	IM	BM	IM	BM	IM	BM										
Seed	\$113.56	\$113.56	\$79.29	\$79.29	\$96.42	\$96.42										
Fertilizer	\$53.67	\$53.67	\$59.40	\$59.40	\$56.53	\$56.53										
Herbicides	\$44.64	\$44.64	\$8.45	\$8.45	\$26.54	\$26.54										
Insecticides	\$12.30	\$12.30	\$0.00	\$0.00	\$6.15	\$6.15										
Labor + Fuel	\$22.12	\$22.12	\$19.89	\$19.89	\$21.01	\$21.01										
Custom Hire	\$73.74	\$52.74	\$34.24	\$34.24	\$53.99	\$43.49										
TOTAL	\$320.02	\$289.02	\$201.26	\$201.26	\$260.64	\$250.14										

Table 21. Market and cost prices per ton for crops grown in 2010 that were fed in 2010 and 2011 in the A) broadcast manure/standard herbicide (BMSH) scenario and in the B) inject manure/reduced herbicide (IMRH) scenario. Costs for all forage crops reflect new seedlings.

A) BMSH scenario			
Forages (Home-Raised)		Market \$/ton ¹	Cost \$/ton ²
Forage	Corn sil avg analysis	\$ 33.10	\$ 26.63
Forage	MML sil, aftermath, 19.2 CP, 48.6 NDF, .56 NEL	\$ 64.18	\$ 185.10
Forage	Leg sil, aftermath avg, 20.0 CP, 45.0 NDF, .57 NEL	\$ 85.21	\$ 62.09
Forage	MML hay, aftermath, 18.1 CP, 48.0 NDF, .64 NEL	\$ 134.43	\$ 233.29
Forage	MML hay, late fall, 20.0 CP, 45.9 NDF, .64 NEL	\$ 109.00	\$ -
Concentrates (Home-Raised)			
Conc Grain	Corn, shelled	\$ 269.01	\$ 57.38
Conc Grain	Soybeans COOKED	\$ 481.32	\$ 218.94
Conc Grain	Canola meal	\$ 308.74	\$ 535.67
			\$ -

B) IMRH scenario			
Forages (Home-Raised)		Market \$/ton ¹	Cost \$/ton ²
Forage	Corn sil avg analysis	\$ 33.10	\$ 28.72
Forage	MML sil, first cut, bud, 19.9 CP, 48.1 NDF, .61 NEL	\$ 64.18	\$ 74.29
Forage	MML hay, first cut, bud, 18.3 CP, 47.8 NDF, .64 NEL	\$ 134.33	\$ 158.81
Forage	SM grn sil boot	\$ 48.21	\$ 61.46
Concentrates (Home-Raised)			
Conc Grain	Corn, shelled	\$ 269.01	\$ 57.66
Conc Grain	Soybeans COOKED	\$ 481.32	\$ 120.40
Conc Grain	Canola meal	\$ 308.74	\$ 476.43

¹Market price is the average price of home raised feeds for 2011.

²Cost is the price to raise the feeds on farm including prices for seed, chemicals, fertilizer, custom hire and the related operating costs.

Table 22. Market and cost prices per ton for crops grown in 2011 that were fed in 2011 and 2012 in the A) broadcast manure/standard herbicide (BMSH) scenario and in the B) inject manure/reduced herbicide (IMRH) scenario.

A) BMSH scenario			
Forages (Home-Raised)		Market \$/ton ¹	Cost \$/ton ²
Forage	Corn sil avg analysis	\$ 40.80	\$ 38.96
Forage	Leg sil, aftermath avg, 20.0 CP, 45.0 NDF, .57 NEL	\$ 98.95	\$ 31.39
Forage	MML hay, first cut, bud, 18.3 CP, 47.8 NDF, .64 NEL	\$ 162.50	\$ 147.77
Forage	MML sil, first cut, bloom, 15.9 CP, 55.9 NDF, .54 NEL	\$ 77.64	\$ 55.24
Forage	Leg hay, first cut, prebud, 23.9 CP, 40.5 NDF, .68 NEL	\$ 197.90	\$ -
Concentrates (Home-Raised)			
Conc Grain	Corn, shelled	\$ 268.68	\$ 77.09
Conc Grain	Soybeans COOKED	\$ 511.10	\$ 133.50
Conc Grain	Canola meal	\$ 379.24	\$ 473.93

B) IMRH scenario			
Forages (Home-Raised)		Market \$/ton ¹	Cost \$/ton ²
Forage	Corn sil avg analysis	\$ 40.80	\$ 39.57
Forage	MML sil, first cut, bud, 19.9 CP, 48.1 NDF, .61 NEL	\$ 77.64	\$ 49.68
Forage	MML hay, first cut, bud, 18.3 CP, 47.8 NDF, .64 NEL	\$ 162.50	\$ 119.14
Forage	SM grn sil boot	\$ 58.32	\$ 154.56
Forage	MML hay, late fall, 20.0 CP, 45.9 NDF, .64 NEL	\$ 162.50	\$ 119.14
Concentrates (Home-Raised)			
Conc Grain	Corn, shelled	\$ 268.68	\$ 58.03
Conc Grain	Soybeans COOKED	\$ 511.10	\$ 188.07
Conc Grain	Canola meal	\$ 379.24	\$ 442.17
			\$ -

¹Market price is the average price of home raised feeds for 2012.

²Cost is the price to raise the feeds on farm including prices for seed, chemicals, fertilizer, custom hire and the related operating costs.

Table 23. 2011 feed cost and income over feed cost for A) BMSH and B) IMRH compared for feed cost per cow using the market price of home raised feeds versus the cost to actually raise the feeds.

A) BMSH

	Dairy	
	Market	Cost
Feed Cost/Cow/Day	\$ 5.05	\$ 4.22
Milk Lbs Shipped	1,779,375	1,779,375
Number of Days in Shipment	365	365
Daily Milk Sold	4,875	4,875
Lbs Milk/Cow/Day	75.0	75.0
Gross Milk Price per CWT.	\$ 20.79	\$ 20.79
Milk Income per Cow/Day	\$ 15.59	\$ 15.59
Income Over Feed Cost - Current	\$ 10.54	\$ 11.37
Income Over Feed Cost - Breakeven	\$ 8.15	\$ 8.15
IOFC Current Compared to Breakeven	\$ 2.39	\$ 3.22

B) IMRH

	Dairy	
	Market	Cost
Feed Cost/Cow/Day	\$ 4.70	\$ 3.64
Milk Lbs Shipped	1,779,375	1,779,375
Number of Days in Shipment	365	365
Daily Milk Sold	4,875	4,875
Lbs Milk/Cow/Day	75.0	75.0
Gross Milk Price per CWT.	\$ 20.79	\$ 20.79
Milk Income per Cow/Day	\$ 15.59	\$ 15.59
Income Over Feed Cost - Current	\$ 10.89	\$ 11.95
Income Over Feed Cost - Breakeven	\$ 8.02	\$ 8.02
IOFC Current Compared to Breakeven	\$ 2.87	\$ 3.93