

Table A4. Economic analysis: return to cover crop, 2018.

Case	Coefficients (\$/bu)			Yield (bu/a, 13 or 15%)			Gross \$/a	Yield Dependant Costs						Constant Costs (cover crop)					Net \$/a			
	Dry (pt.)	Hauling	Removal	Price	Cover	No cover		(+/-)	Drying		Hauling		Nutrient Removal \$/a	Total \$/a	Seed \$/a	Estab. \$/a	Mgt. \$/a	Term. \$/a		Interest \$/a	Total \$/a	
									Moist %	Cost (\$)	wet bu. acre	\$/a										
7	0.047	0.13	0.21	3.56	190.70	186.70	4.00	14.24	16.10	0.05	0.21	4.29	0.56	0.84	1.60	7.00	15.00	0.00	0.00	1.32	23.32	-10.68
8	0.047	0.13	0.21	3.65	229.20	210.80	18.40	67.16	19.70	0.22	4.06	24.17	3.14	3.86	11.07	32.40	2.50	13.10	5.42	3.58	57.00	-0.91
9	0.000	0.13	0.64	9.30	70.80	70.20	0.60	5.58	11.70	0.00	0.00	0.47	0.06	0.38	0.44	7.00	15.00	0.00	0.00	1.32	23.32	-18.18
10	0.000	0.13	0.70	9.10	75.30	73.20	2.10	19.11	11.90	0.00	0.00	1.67	0.22	1.47	1.69	13.12	15.00	0.00	0.00	1.69	29.81	-12.39
																			Mean:	-10.54		

Drying: S&R (Cold Spring) charge

Hauling: 2017 Iowa State University Custom Rate Guide

Nutrient removal: calculated from individual prices paid for DAP and potash, using UWEX removal constants adjusted to 13 or 15% moisture

Interest: 6% APR from the time of cover crop planting and other management until corn harvest

Table A5. Economic analysis: breakeven yield and price, 2018.

Case	Coefficients (\$/bu)			Price (\$/bu)	Yield (bu/a)			Yield (bu/a)	Gross \$/a	Yield Dependant Costs						Constant Costs (cover crop)					Net \$/a	
	Dry (pt.)	Hauling	Removal		Cover	No cover	(+/-)			Drying		Hauling		Nutrient Removal \$/a	Total \$/a	Seed \$/a	Estab. \$/a	Mgt. \$/a	Term. \$/a	Interest \$/a		Total \$/a
										Moist %	Cost (\$)	wet bu. acre	\$/a									
Yield																						
7	0.047	0.13	0.21	3.56	190.70	186.70	7.382	26.28	16.10	0.05	0.38	7.92	1.03	1.55	2.96	7.00	15.00	0.00	0.00	1.32	23.32	0.00
8	0.047	0.13	0.21	3.65	229.20	210.80	18.70	68.26	19.70	0.22	4.13	24.56	3.19	3.93	11.25	32.40	2.50	13.10	5.42	3.58	57.00	0.00
9	0.000	0.13	0.64	9.30	70.80	70.20	2.730	25.39	11.70	0.00	0.00	2.46	0.32	1.75	2.07	7.00	15.00	0.00	0.00	1.32	23.32	0.00
10	0.000	0.13	0.70	9.10	75.30	73.20	3.60	32.76	11.90	0.00	0.00	3.30	0.43	2.52	2.95	13.12	15.00	0.00	0.00	1.69	29.81	0.00
Price																						
7	0.047	0.13	0.21	6.232	190.70	186.70	4.00	24.93	16.10	0.05	0.21	4.29	0.56	0.84	1.60	7.00	15.00	0.00	0.00	1.32	23.32	0.00
8	0.047	0.13	0.21	3.6995	229.20	210.80	18.40	68.07	19.70	0.22	4.06	24.17	3.14	3.86	11.07	32.40	2.50	13.10	5.42	3.58	57.00	0.00
9	0.000	0.13	0.64	39.62	70.80	70.20	0.60	23.77	11.70	0.00	0.00	0.54	0.07	0.38	0.45	7.00	15.00	0.00	0.00	1.32	23.32	0.00
10	0.000	0.13	0.70	15.015	75.30	73.20	2.10	31.53	11.90	0.00	0.00	1.92	0.25	1.47	1.72	13.12	15.00	0.00	0.00	1.69	29.81	0.00