

Table A6. Economic analysis: return to cover crop, 2019.

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		Seed \$/a	Estab. \$/a	Mgt. \$/a	Term. \$/a		Interest \$/a	Total \$/a																				
									Moist %	Cost (\$) bu.	wet bu. acre	\$/a	\$/a	\$/a								\$/a																			
11	0.04	0.10	0.21	3.70	175.80	179.90	-4.10	-15.17	19.20	0.00	0.00	0.00	0.00	0.00	0.00	10.00	15.00	0.00	0.00	1.69	26.69	-41.86																			
12	0.04	0.10	0.21	3.71	196.00	199.00	-3.00	-11.13	22.00	0.28	0.00	0.00	0.00	0.00	0.00	8.00	15.00	0.00	0.00	1.53	24.53	-35.66																			
13	0.00	0.13	0.69	8.70	52.20	51.50	0.70	6.09	16.50	0.00	0.00	0.77	0.10	0.48	0.58	10.00	15.00	0.00	0.00	1.42	26.42	-20.91																			
14	0.00	0.12	0.66	8.71	51.00	49.20	1.80	15.68	14.50	0.00	0.00	1.74	0.21	1.19	1.40	6.00	15.00	0.00	0.00	1.31	22.31	-8.03																			
Mean:																																									-26.62

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: 6.5% APR from the time of cover crop planting and other management until corn harvest

Table A7. Economic analysis: breakeven yield and price, 2019.

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			Moist %	Drying		Hauling		Nutrient		Seed \$/a	Estab. \$/a	Mgt. \$/a	Term. \$/a		Interest \$/a	Total \$/a
										Cost (\$) bu.	acre	wet bu. acre	\$/a	\$/a	\$/a							
Yield																						
11	0.04	0.10	0.21	3.70	175.80	179.90	8.36	30.91	19.20	0.17	1.40	10.69	1.07	1.75	4.23	10.00	15.00	0.00	0.00	1.69	26.69	0.00
12	0.04	0.10	0.21	3.71	196.00	199.00	7.98	29.61	22.00	0.28	2.23	11.70	1.17	1.68	5.08	8.00	15.00	0.00	0.00	1.53	24.53	0.00
13	0.00	0.13	0.69	8.70	52.20	51.50	3.37	29.30	16.50	0.00	0.00	4.27	0.56	2.32	2.88	10.00	15.00	0.00	0.00	1.42	26.42	0.00
14	0.00	0.12	0.66	8.71	51.00	49.20	2.82	24.54	14.50	0.00	0.00	3.14	0.38	1.86	2.24	6.00	15.00	0.00	0.00	1.31	22.31	0.00
Price																						
11	0.04	0.10	0.21	n/a	175.80	179.90	-4.10	-15.17	19.20	0.00	0.00	0.00	0.00	0.00	0.00	10.00	15.00	0.00	0.00	1.69	26.69	
12	0.04	0.10	0.21	n/a	196.00	199.00	-3.00	-11.13	22.00	0.28	0.00	0.00	0.00	0.00	0.00	8.00	15.00	0.00	0.00	1.53	24.53	
13	0.00	0.13	0.69	38.60	52.20	51.50	0.70	27.02	16.50	0.00	0.00	0.89	0.12	0.48	0.60	10.00	15.00	0.00	0.00	1.42	26.42	0.00
14	0.00	0.12	0.66	13.19	51.00	49.20	1.80	23.74	14.50	0.00	0.00	2.01	0.24	1.19	1.43	6.00	15.00	0.00	0.00	1.31	22.31	0.00

n/a, not applicable, unachievable due to yield reduction.