

Season Actuals 2016

Prepared for: Acme Farms Inc

Date: August 24, 2017

Printed by: Connor Lankford

Company: Valley Agronomics



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Area Summary

GROUP	CROP	VARIETY	AREA (acre)	(%)
Cereals	Wheat - winter	Brundage 96	526.56	28.84
		CROP TOTAL	526.56	28.84
		GROUP TOTAL	526.56	28.84
Pasture	Alfalfa	LegenDairy XHD	115.60	6.33
		CROP TOTAL	115.60	6.33
		GROUP TOTAL	115.60	6.33
Sugar Crops	Sugar Beet	BTS 20RR28	598.64	32.78
		Crystal A399NT	71.53	3.92
		CROP TOTAL	670.17	36.70
		GROUP TOTAL	670.17	36.70
Vegetables & Melons	Potato	Russet Burbank	513.66	28.13
		CROP TOTAL	513.66	28.13
		GROUP TOTAL	513.66	28.13
		GRAND TOTAL	1825.99	100.00

Input Summary

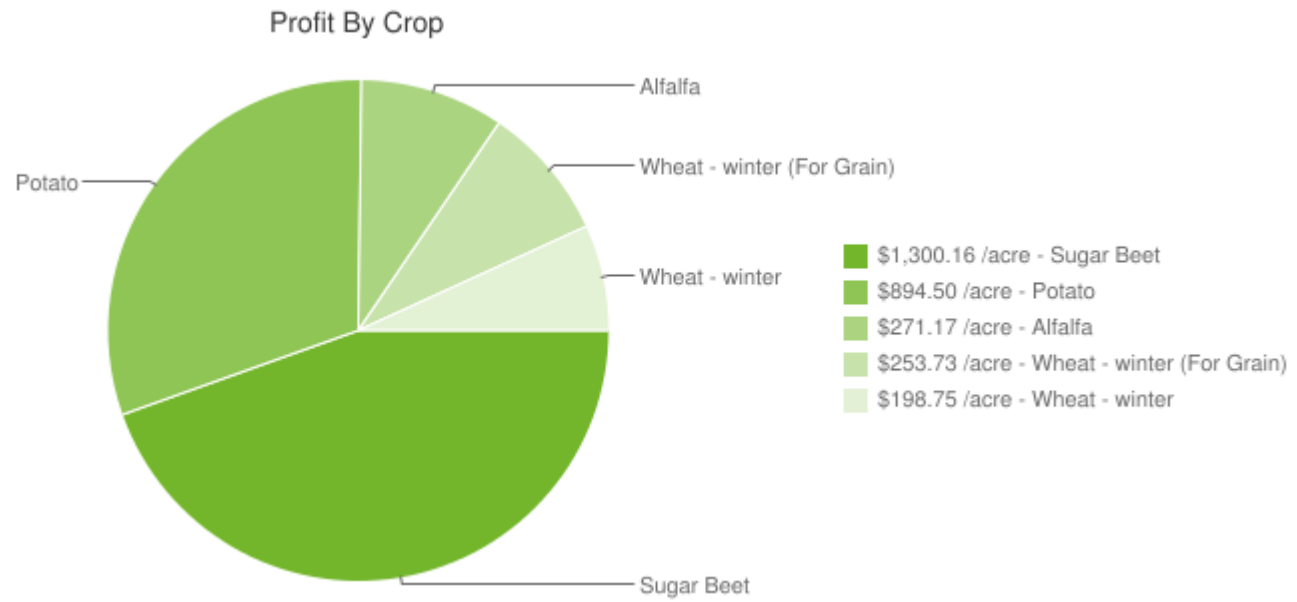
INPUTS	AMOUNT	COST
Seeds		
Alturas (wheat)	4904.40 lbs	\$490
BTS 20RR28	83809.60 lbs	\$41,905
Brundage 96	67987.20 lbs	\$5,725
Crystal A399NT	10014.20 lbs	\$5,308
Russet Burbank	14382.48 lbs	\$1,294
	TOTAL	\$54,722
Operations		
Boomspray - contract	513.66 acre	\$6,164
Boomspray application	3703.78 acre	\$29,009
Deep Ripping	513.66 acre	\$20,546
Fertilizer Application	1640.87 acre	\$16,327
Field Scouting	118.47 acre	\$89
Harvest	1710.39 acre	\$61,561
Irrigation	1603.20 acre	\$21,415
Mechanical harvesting	80.87 acre	\$809
Planting	1791.26 acre	\$32,187
Seed - Treatment	513.66 acre	\$514
Spray/aerial	1750.39 acre	\$16,371
Spray/herbicide	566.56 acre	\$5,666
Spreading fertilizer	606.56 acre	\$6,066
Variable Rate Ground - spreading 1	1027.32 acre	\$12,328
	TOTAL	\$229,051
Acidifiers		
Aduro	25.68 gal	\$565
	TOTAL	\$565
Adjuvants		
Masterlock	55.49 gal	\$1,450
	TOTAL	\$1,450
Deposition aids		
InterLock	45.50 gal	\$3,003
	TOTAL	\$3,003
Fertilizers		
Actagro Katalyst 0-0-25	115.60 gal	\$1,734
Actagro Liquid Humus 0-0-4	285.73 gal	\$8,192
Actagro Structure 7-21-0	3826.82 gal	\$30,615
Agfinity Manganese Sulfate 32%	3210.38 lbs	\$2,369
Agrium 11-52-0 MAP	62759.84 lbs	\$12,679
Andersons 46-0-0	146452.84 lbs	\$26,113
Elemental Sulphur 85%	60098.22 lbs	\$14,063
K-Mag	47770.38 lbs	\$13,070
Muriate of Potash 0-0-60	54311.04 lbs	\$10,862
Power Zinc 35 Granular	7191.24 lbs	\$4,073

INPUTS	AMOUNT	COST
Power-Line Urea 46-0-0 Granular	8720.00 lbs	\$1,570
Simplot Monoammonium Phosphate 11-52-0	3840.00 lbs	\$768
Sulfuric Acid	15409.80 gal	\$13,869
Thio-Sul 12-0-0	9322.93 gal	\$15,763
Valley 0-0-60	77049.00 lbs	\$13,314
Valley 11-37-0	6677.58 gal	\$27,413
Valley 12-45-0-5-1Z	155125.32 lbs	\$42,256
Valley 21-0-0-24s	195190.80 lbs	\$29,513
Valley 32-0-0	41149.55 gal	\$103,365
Winfield Liquid Zinc 7%	64.21 gal	\$385
	TOTAL	\$371,985
Fungicides		
DuPont Aproach Fungicide	17.71 gal	\$2,833
Endura Fungicide	192.62 lbs	\$17,259
Luna Tranquility	50.81 gal	\$17,657
Moncut 70-DF	385.25 lbs	\$13,869
Topaz	38.65 gal	\$2,842
UPI Microthiol Disperss	1340.34 lbs	\$4,999
Zing!	128.42 gal	\$8,989
	TOTAL	\$68,449
Herbicides		
Boundary 6.5 EC Herbicide	128.42 gal	\$11,557
Dimetric DF 75%	169.51 lbs	\$2,204
Huskie Herbicide	66.39 gal	\$5,312
Parazone 3SL	64.21 gal	\$1,926
Prowl H2O Herbicide	96.31 gal	\$4,623
Reglone Desiccant	128.42 gal	\$11,943
Roundup PowerMAX Herbicide	322.10 gal	\$8,375
	TOTAL	\$45,939
Insecticides		
ABBA Ultra	32.10 gal	\$3,371
Advise Four Flowable Insecticide	0.00 gal	\$0
Arysta Chlorpyrifos 4E AG	125.66 gal	\$7,665
Stallion EC Insecticide	44.50 gal	\$4,450
	TOTAL	\$15,486
Non ionic surfactants		
Class Act NG	212.39 gal	\$3,398
	TOTAL	\$3,398
Plant growth regulators		
MANA Ethephon 2SL	106.23 gal	\$8,498
	TOTAL	\$8,498
Seed treatments		
Power-Line Potato Seed Treat Mancozeb 6% Plus Bark	0.00 lbs	\$0
UPI Manzate Pro Stick	513.66 lbs	\$2,928
	TOTAL	\$2,928

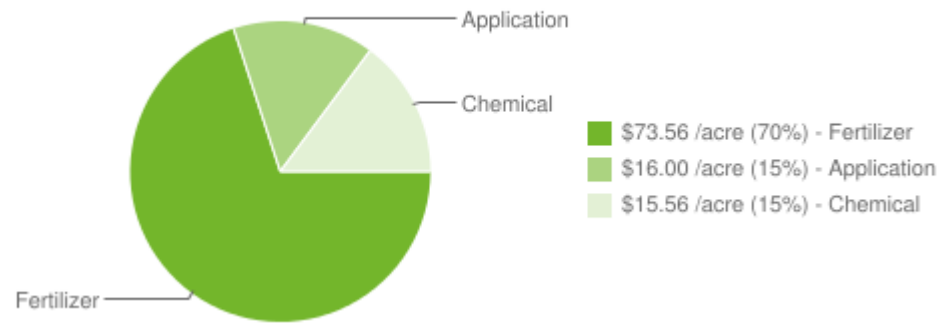
INPUTS	AMOUNT	COST
Soil fumigants		
Vapam HL Soil Fumigant	20546.40 gal	\$123,278
	TOTAL	\$123,278
	TOTAL	\$928,753

Profit By Crop

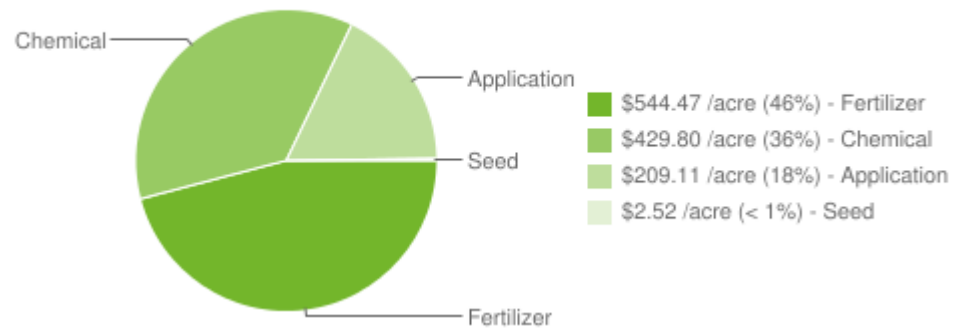
Year	Fields	Area (acre)	Yield	Price (\$/acre)	Other Inc. (\$/acre)	Total Inc. (\$/acre)	Seed Cost (\$/acre)	Fert Cost (\$/acre)	Chem Cost (\$/acre)	Cont Cost (\$/acre)	Oper Cost (\$/acre)	Other Cost (\$/acre)	Total Cost (\$/acre)	Profit (\$/acre)
Alfalfa (yield in ton/acre)														
2016	2	115.6	5.97	376	0	376	0	74	16	0	16	0	105	271
CROP TOTAL		115.6			0	376	0	74	16	0	16	0	105	271
Potato (yield in ton/acre)														
2016	5	513.66	23.12	2080	0	2,080	3	544	430	0	209	0	1,186	895
CROP TOTAL		513.66			0	2,080	3	544	430	0	209	0	1,186	895
Sugar Beet (yield in ton/acre)														
2016	5	670.17	39.46	1578	0	1,578	70	47	47	0	114	0	278	1,300
CROP TOTAL		670.17			0	1,578	70	47	47	0	114	0	278	1,300
Wheat - winter (yield in bu/acre)														
2016	1	40.87	110.35	480	0	480	22	154	34	0	71	0	281	199
CROP TOTAL		40.87			0	480	22	154	34	0	71	0	281	199
Wheat - winter (For Grain) (yield in bu/acre)														
2016	5	485.69	125.8	479	0	479	11	94	37	0	84	0	225	254
CROP TOTAL		485.69			0	479	11	94	37	0	84	0	225	254
GRAND TOTAL					0	1,327	30	204	150	0	125	0	509	818



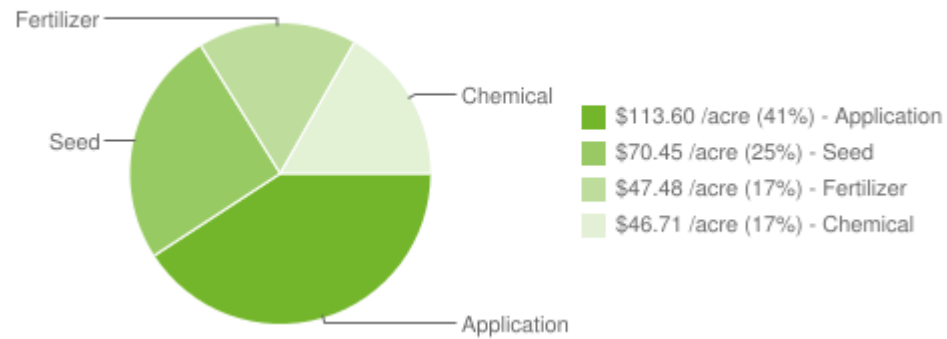
Costs for Alfalfa



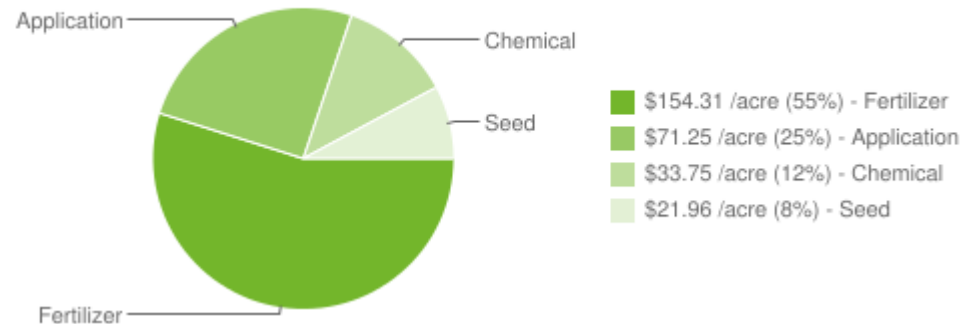
Costs for Potato



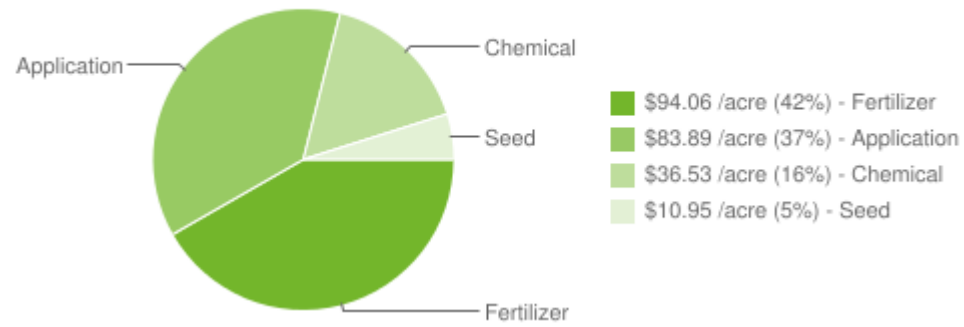
Costs for Sugar Beet



Costs for Wheat Winter

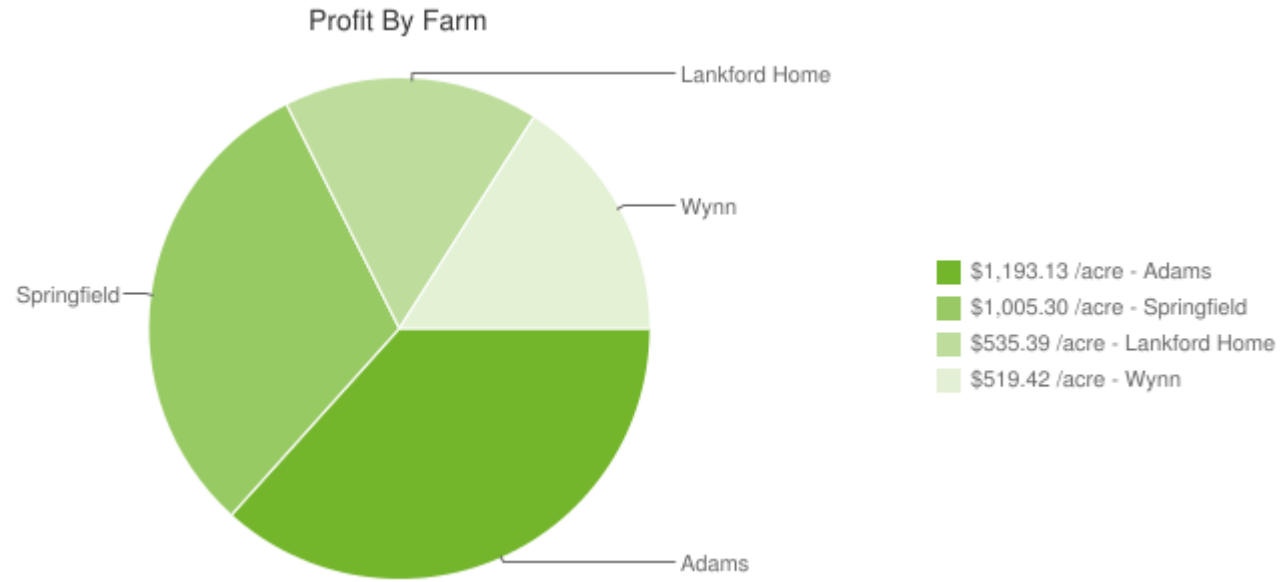


Costs for Wheat Winter (For Grain)

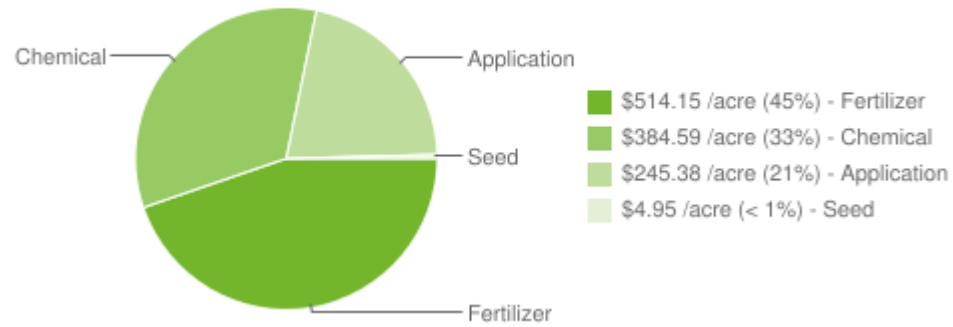


Profit By Farm

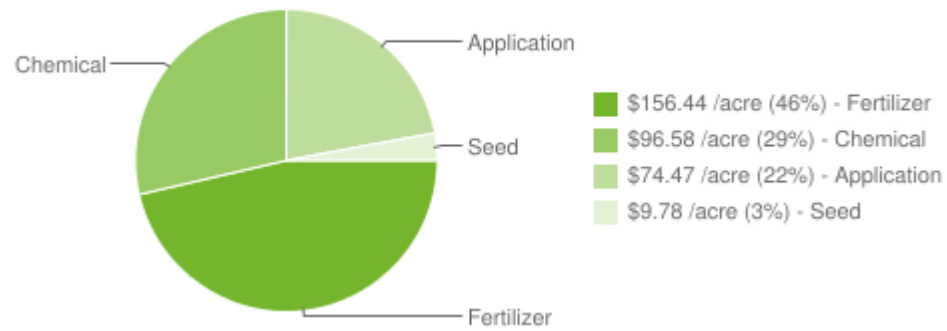
Year	Area (acre)	Other Inc. (\$/acre)	Total Inc. (\$/acre)	Seed Cost (\$/acre)	Fert Cost (\$/acre)	Chem Cost (\$/acre)	Cont Cost (\$/acre)	Oper Cost (\$/acre)	Other Cost (\$/acre)	Total Cost (\$/acre)	Profit (\$/acre)
Adams											
2016	320.52	0	2,342	5	514	385	0	245	0	1,149	1,193
FARM TOTAL	320.52	0	2,342	5	514	385	0	245	0	1,149	1,193
Lankford Home											
2016	489.16	0	873	10	156	97	0	74	0	337	535
FARM TOTAL	489.16	0	873	10	156	97	0	74	0	337	535
Springfield											
2016	661.27	0	1,237	51	52	40	0	88	0	231	1,005
FARM TOTAL	661.27	0	1,237	51	52	40	0	88	0	231	1,005
Wynn											
2016	355.04	0	1,202	41	270	215	0	157	0	683	519
FARM TOTAL	355.04	0	1,202	41	270	215	0	157	0	683	519
GRAND TOTAL	1825.99	0	1,327	30	204	150	0	125	0	509	818



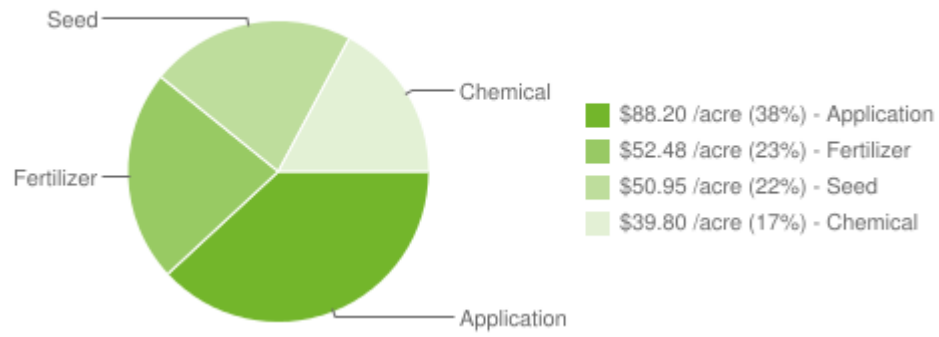
Costs for Adams



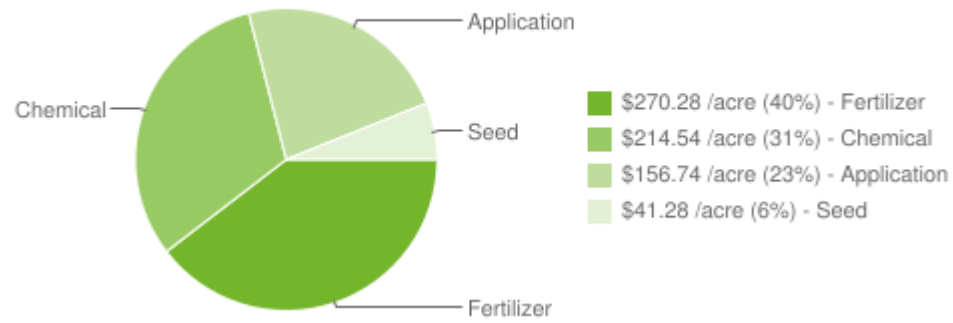
Costs for Lankford Home



Costs for Springfield



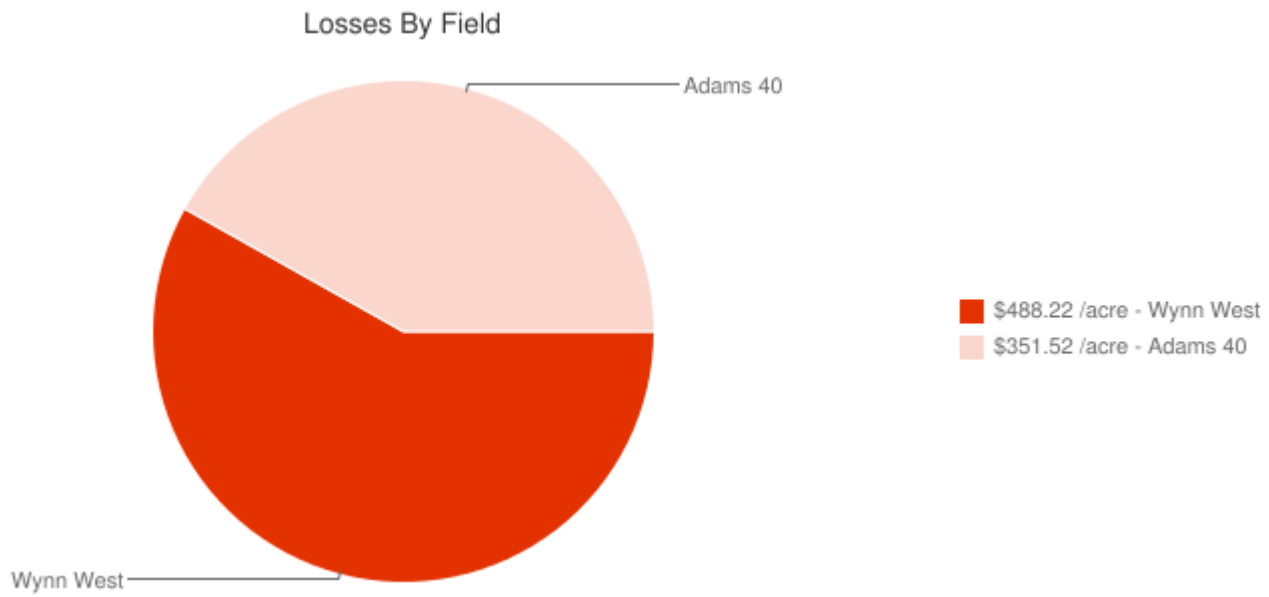
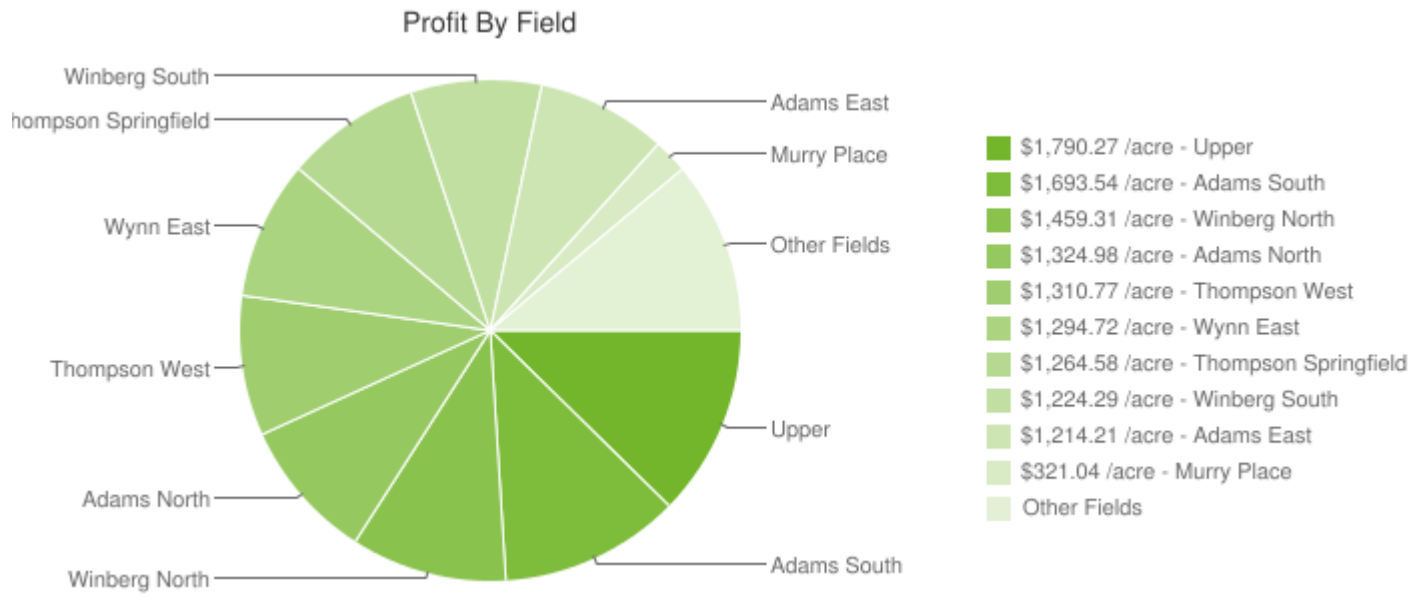
Costs for Wynn

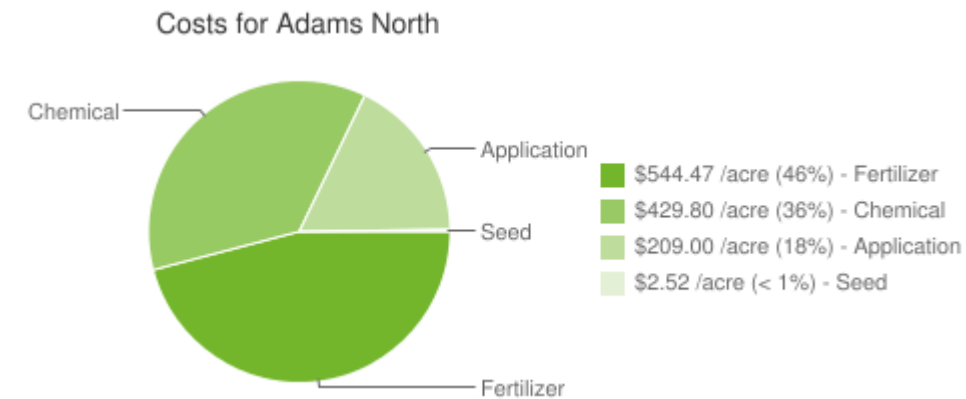
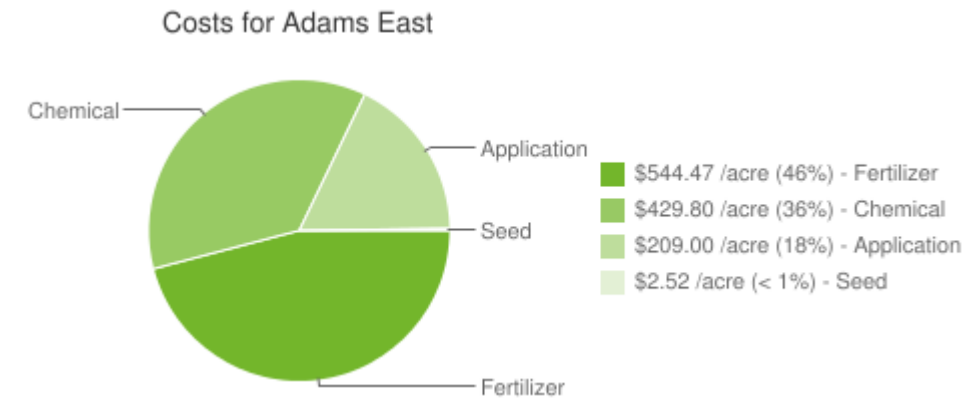
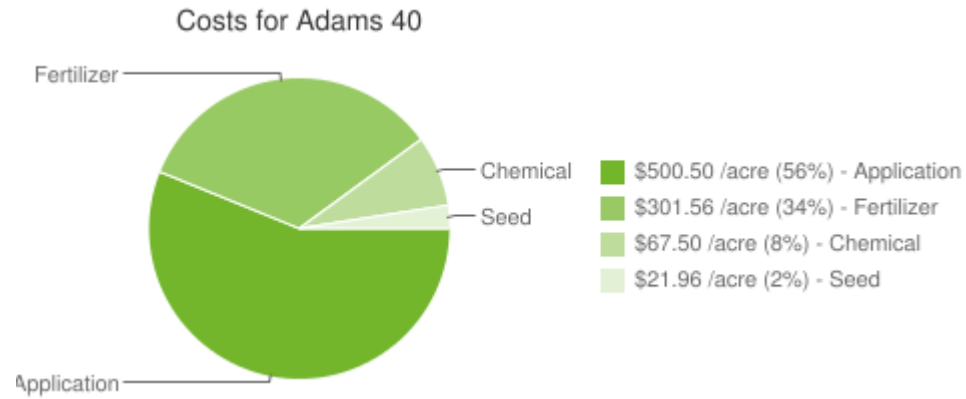


Profit By Field

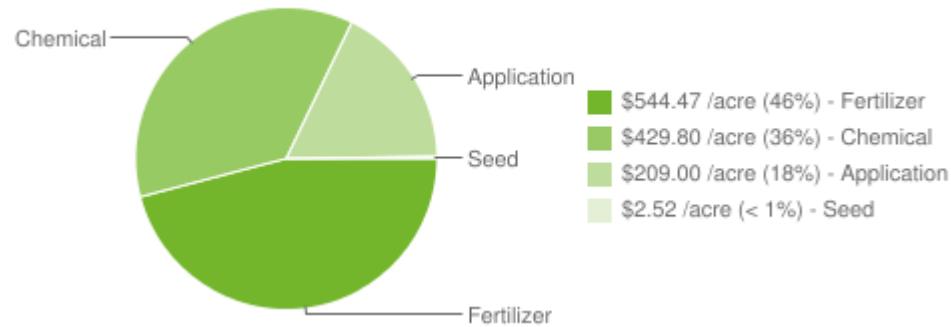
Year	Crop/Var	Area (acre)	Yield	Price (\$/acre)	Other Inc. (\$/acre)	Total Inc. (\$/acre)	Seed Cost (\$/acre)	Fert Cost (\$/acre)	Chem Cost (\$/acre)	Cont Cost (\$/acre)	Oper Cost (\$/acre)	Other Cost (\$/acre)	Total Cost (\$/acre)	Profit (\$/acre)
Adams														
Adams 40														
2016	Wheat - winter - Brundage 96 (For Grain) (bu/acre)	40	120	540	0	540	22	302	68	0	501	0	892	-352
FIELD TOTAL		40			0	540	22	302	68	0	501	0	892	-352
Adams East														
2016	Potato - Russet Burbank (ton/acre)	59	20	2400	0	2,400	3	544	430	0	209	0	1,186	1,214
FIELD TOTAL		59			0	2,400	3	544	430	0	209	0	1,186	1,214
Adams North														
2016	Potato - Russet Burbank (ton/acre)	136.5	20.92	2511	0	2,511	3	544	430	0	209	0	1,186	1,325
FIELD TOTAL		136.5			0	2,511	3	544	430	0	209	0	1,186	1,325
Adams South														
2016	Potato - Russet Burbank (ton/acre)	85.02	23.99	2879	0	2,879	3	544	430	0	209	0	1,186	1,694
FIELD TOTAL		85.02			0	2,879	3	544	430	0	209	0	1,186	1,694
FARM TOTAL		320.52			0	2,342	5	514	385	0	245	0	1,149	1,193
Lankford Home														
Barclay 50														
2016	Wheat - winter - Brundage 96 (For Grain) (bu/acre)	48.36	119.11	447	0	447	10	75	34	0	47	0	166	281
FIELD TOTAL		48.36			0	447	10	75	34	0	47	0	166	281
Lankford North														
2016	Wheat - winter - Brundage 96 (For Grain) (bu/acre)	98.96	123.79	464	0	464	10	75	34	0	47	0	166	299
FIELD TOTAL		98.96			0	464	10	75	34	0	47	0	166	299
Lower														
2016	Wheat - winter - Brundage 96 (bu/acre)	40.87	110.35	480	0	480	22	154	34	0	71	0	281	199
FIELD TOTAL		40.87			0	480	22	154	34	0	71	0	281	199
Murry Place														
2016	Wheat - winter - Brundage 96 (For Grain) (bu/acre)	223.37	129.78	487	0	487	10	75	34	0	47	0	166	321
FIELD TOTAL		223.37			0	487	10	75	34	0	47	0	166	321
Upper														
2016	Potato - Russet Burbank (ton/acre)	77.6	24.81	2977	0	2,977	3	544	430	0	210	0	1,187	1,790
FIELD TOTAL		77.6			0	2,977	3	544	430	0	210	0	1,187	1,790

Year	Crop/Var	Area (acre)	Yield	Price (\$/acre)	Other Inc. (\$/acre)	Total Inc. (\$/acre)	Seed Cost (\$/acre)	Fert Cost (\$/acre)	Chem Cost (\$/acre)	Cont Cost (\$/acre)	Oper Cost (\$/acre)	Other Cost (\$/acre)	Total Cost (\$/acre)	Profit (\$/acre)
FARM TOTAL		489.16			0	873	10	156	97	0	74	0	337	535
Springfield														
Thompson South														
2016	Wheat - winter - Brundage 96 (For Grain) (bu/acre)	75	124	465	0	465	10	75	34	0	47	0	166	299
FIELD TOTAL		75			0	465	10	75	34	0	47	0	166	299
Thompson Springfield														
2016	Sugar Beet - BTS 20RR28 (RR) (ton/acre)	236.94	38.85	1554	0	1,554	70	57	47	0	116	0	289	1,265
FIELD TOTAL		236.94			0	1,554	70	57	47	0	116	0	289	1,265
Winberg North														
2016	Sugar Beet - BTS 20RR28 (RR) (ton/acre)	107.19	41.93	1677	0	1,677	70	0	47	0	101	0	218	1,459
FIELD TOTAL		107.19			0	1,677	70	0	47	0	101	0	218	1,459
Winberg South														
2016	Sugar Beet - BTS 20RR28 (RR) (ton/acre)	126.54	37.84	1514	0	1,514	70	57	47	0	116	0	289	1,224
FIELD TOTAL		126.54			0	1,514	70	57	47	0	116	0	289	1,224
Wynn Homestead														
2016	Alfalfa - LegenDairy XHD (ton/acre)	45.81	5.89	354	0	354	0	74	16	0	16	0	105	249
FIELD TOTAL		45.81			0	354	0	74	16	0	16	0	105	249
Wynn Springfield														
2016	Alfalfa - LegenDairy XHD (ton/acre)	69.79	6.02	391	0	391	0	74	16	0	16	0	105	286
FIELD TOTAL		69.79			0	391	0	74	16	0	16	0	105	286
FARM TOTAL		661.27			0	1,237	51	52	40	0	88	0	231	1,005
Wynn														
Thompson West														
2016	Sugar Beet - BTS 20RR28 (RR) (ton/acre)	127.97	40	1600	0	1,600	70	57	47	0	116	0	289	1,311
FIELD TOTAL		127.97			0	1,600	70	57	47	0	116	0	289	1,311
Wynn East														
2016	Sugar Beet - Crystal A399NT (ton/acre)	71.53	39.7	1588	0	1,588	74	57	47	0	116	0	293	1,295
FIELD TOTAL		71.53			0	1,588	74	57	47	0	116	0	293	1,295
Wynn West														
2016	Potato - Russet Burbank (ton/acre)	155.54	24.91	698	0	698	3	544	430	0	209	0	1,186	-488
FIELD TOTAL		155.54			0	698	3	544	430	0	209	0	1,186	-488
FARM TOTAL		355.04			0	1,202	41	270	215	0	157	0	683	519
GRAND TOTAL		1825.99			0	1,327	30	204	150	0	125	0	509	818

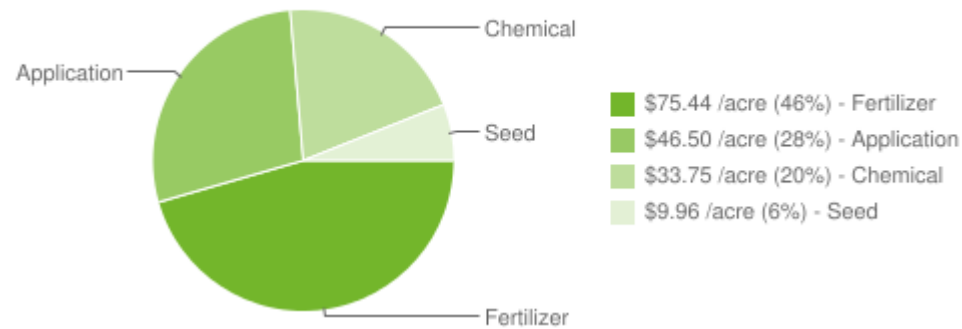




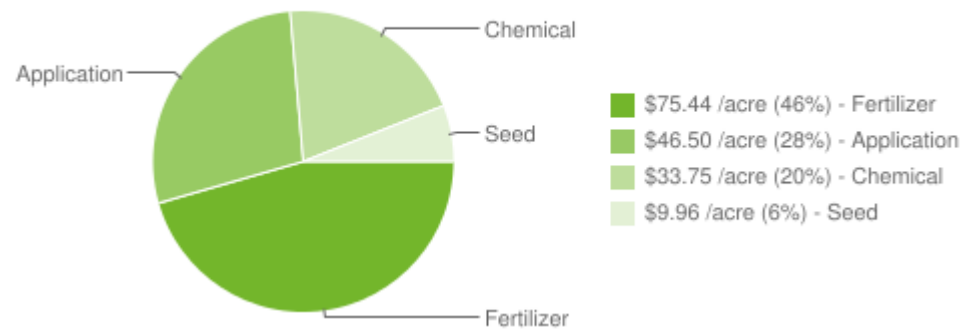
Costs for Adams South

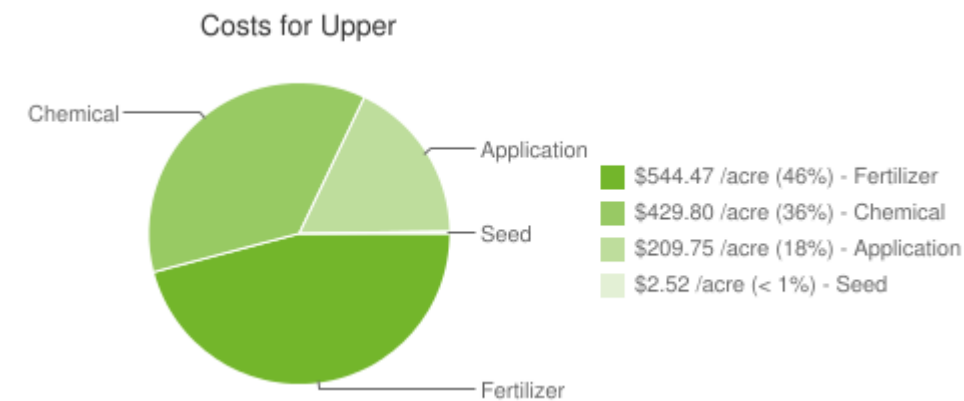
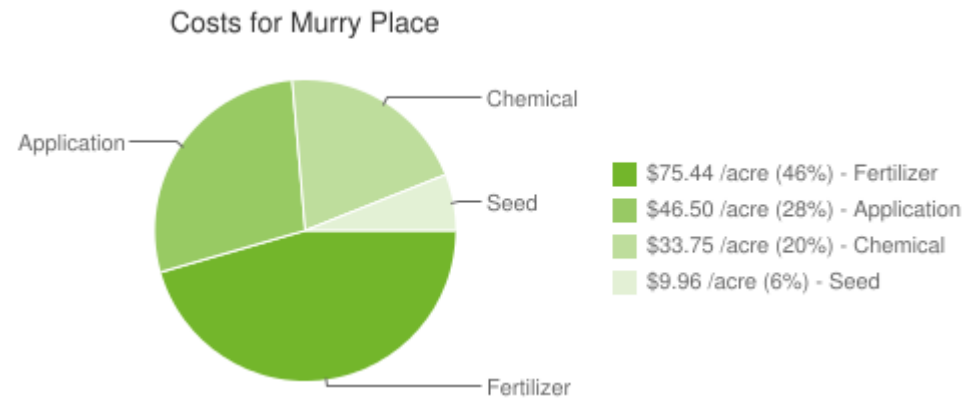
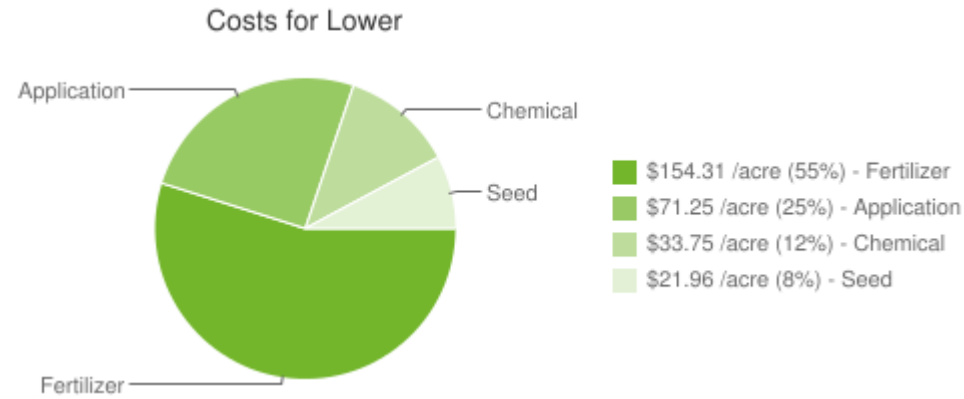


Costs for Barclay 50

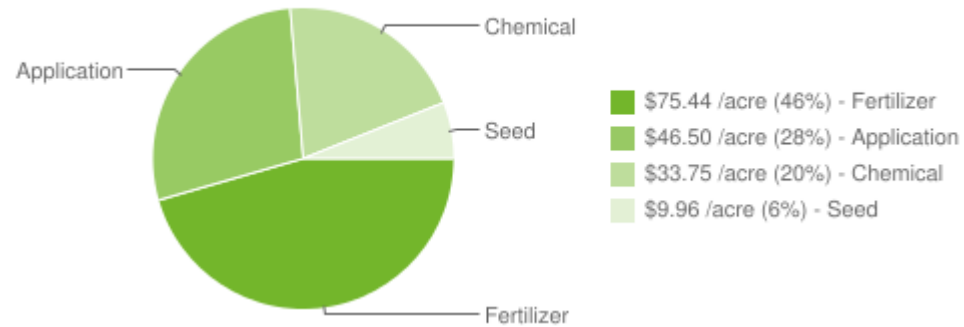


Costs for Lankford North

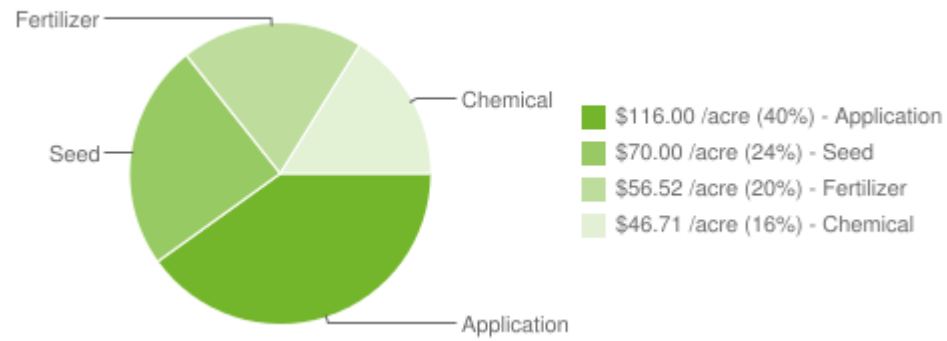




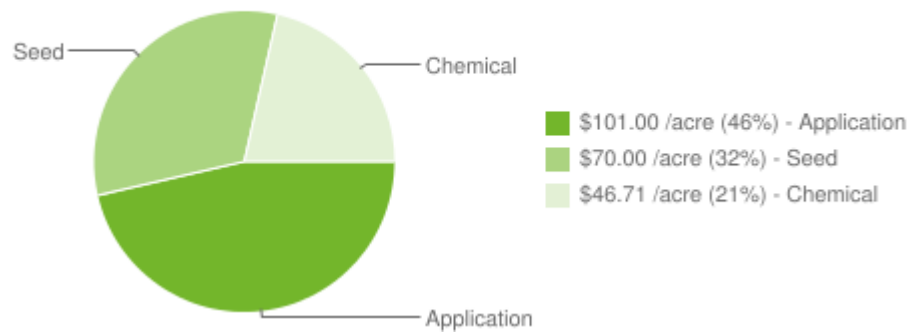
Costs for Thompson South

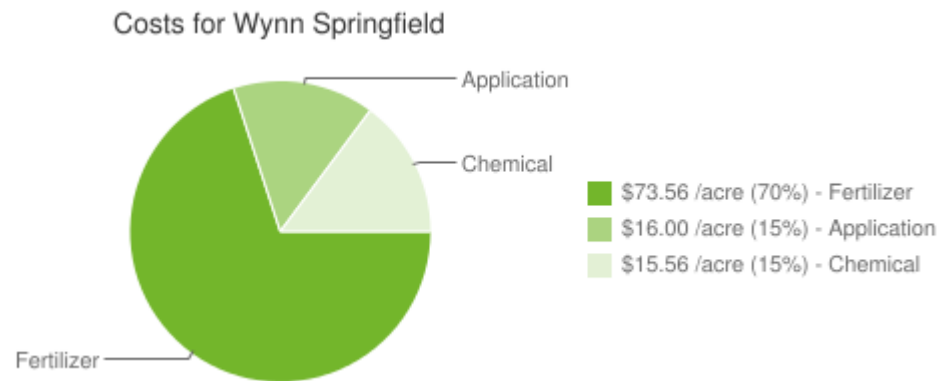
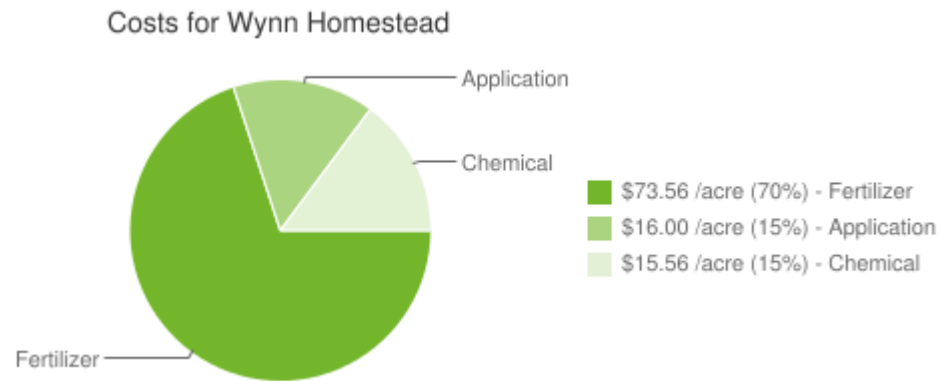
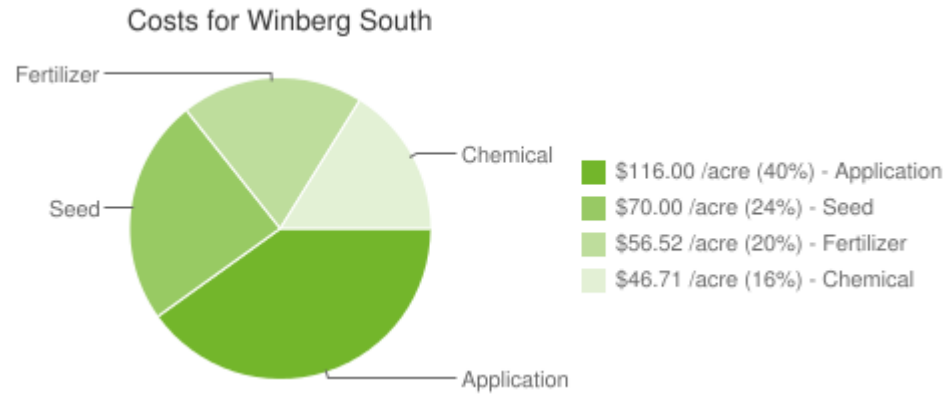


Costs for Thompson Springfield

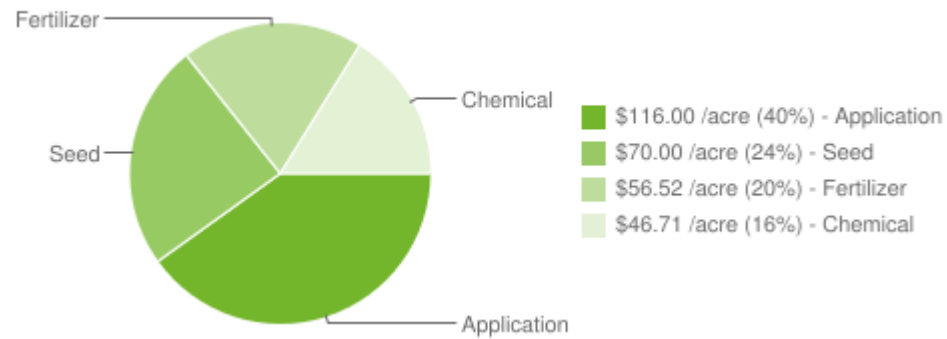


Costs for Winberg North

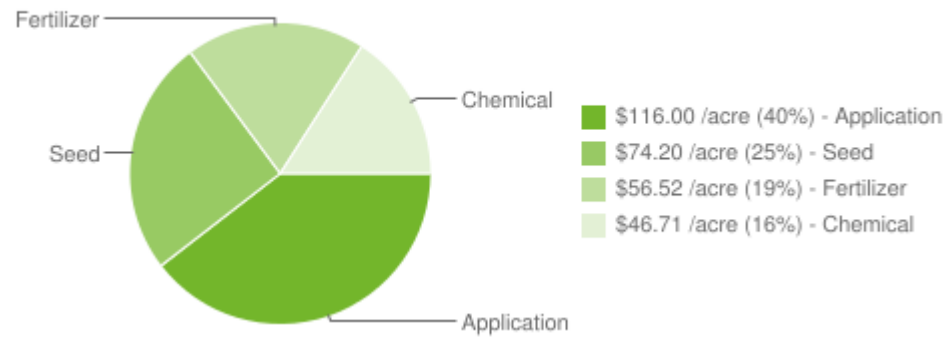




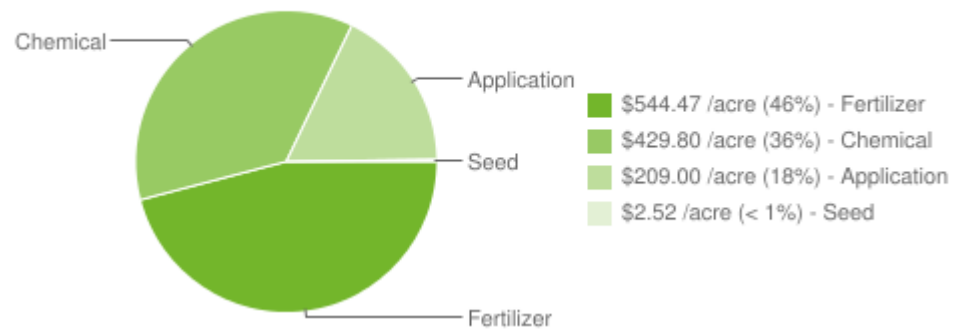
Costs for Thompson West



Costs for Wynn East

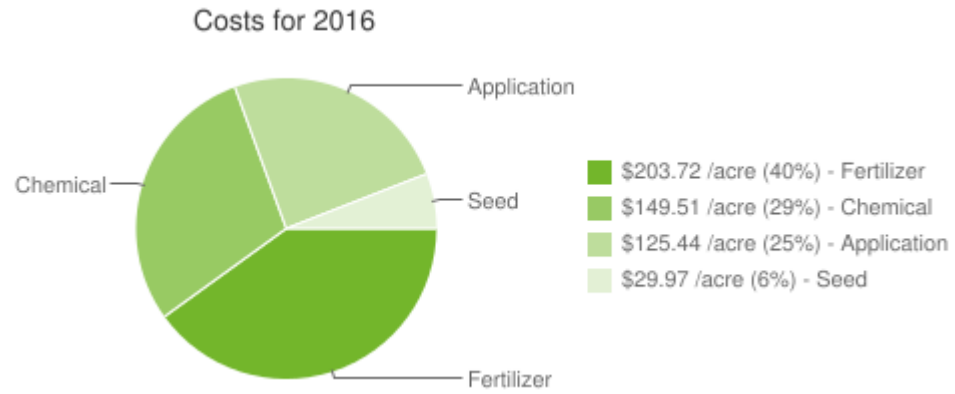


Costs for Wynn West




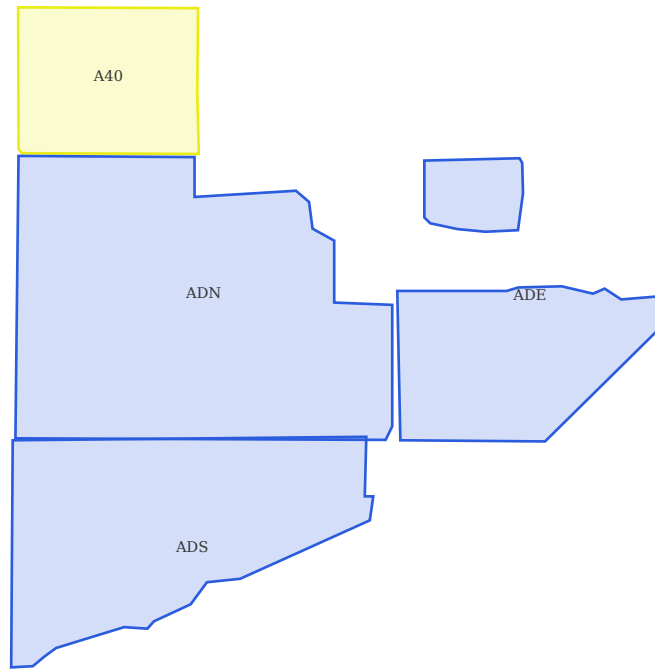
Profit By Season

Year	Area (acre)	Other Inc. (\$/acre)	Total Inc. (\$/acre)	Seed Cost (\$/acre)	Fert Cost (\$/acre)	Chem Cost (\$/acre)	Cont Cost (\$/acre)	Oper Cost (\$/acre)	Other Cost (\$/acre)	Total Cost (\$/acre)	Profit (\$/acre)
2016	1825.99	0	1,327	30	204	150	0	125	0	509	818
GRAND TOTAL	1825.99	0	1,327	30	204	150	0	125	0	509	818



Adams Aerial Overview

Potato  Wheat - winter 



GROSS PROFIT BY ROTATION HISTORY - Adams

FIELD	2016
Adams 40 (Map: A40)	Wheat - winter Brundage 96 -\$351.52 /acre
Adams East (Map: ADE)	Potato Russet Burbank \$1,214.21 /acre
Adams North (Map: ADN)	Potato Russet Burbank \$1,324.98 /acre
Adams South (Map: ADS)	Potato Russet Burbank \$1,693.54 /acre

Adams 40

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$891.52 /acre Total: \$35,660.80	\$540.00 /acre Total: \$21,600.00	-\$351.52 /acre Total: -\$14,060.80	-65.1 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
40 acre	120 bu/acre	\$4.50 /bu	\$0.00	\$21,600.00

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS	OPERATIONS	OTHER COSTS	TOTAL COST
\$21.96 /acre	\$301.56 /acre	\$67.50 /acre	\$0.00 /acre	\$500.50 /acre	\$0.00 /acre	\$891.52 /acre

ROTATION HISTORY

2016

Wheat - winter

40 acre | Brundage 96

Active Ingredients: K2O 201.6 lbs/acreN 443.69 lbs/acrePhosphate 201.24 lbs/acre

ACTIVITIES

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Spring Fertilizer 40 acre Mar 24, 2016 Spreader	Andersons 46-0-0	Nitrogen	218 lbs/acre	8,720 lbs	\$39.24	\$1,569.60
	Muriate of Potash 0-0-60	Potash	84 lbs/acre	3,360 lbs	\$16.80	\$672.00
	Agrium 11-52-0 MAP	Nitrogen and Phosphate	97 lbs/acre	3,880 lbs	\$19.40	\$776.00
	Spreading fertilizer		1 acre/acre	40 acre	\$10.00	\$400.00
					Total	\$3,417.60
Spring Fertilizer 40 acre Mar 31, 2016 Spreader	Andersons 46-0-0	Nitrogen	218 lbs/acre	8,720 lbs	\$39.24	\$1,569.60
	Muriate of Potash 0-0-60	Potash	84 lbs/acre	3,360 lbs	\$16.80	\$672.00
	Agrium 11-52-0 MAP	Nitrogen and Phosphate	97 lbs/acre	3,880 lbs	\$19.40	\$776.00
	Spreading fertilizer		1 acre/acre	40 acre	\$10.00	\$400.00
					Total	\$3,417.60
Herbicide Application 40 acre Apr 01, 2016 Self Propelled Boomspray	Water Rate		15 gal/acre	600 gal		
	Huskie Herbicide	Bromoxynil Octanoic Acid Ester, Pyrasulfotole, and Bromoxynil Heptanoate	15 floz/acre	4.69 gal	\$9.38	\$375.00
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	16 floz/acre	5 gal	\$2.50	\$100.00
	DuPont Aproach Fungicide Spray/herbicide	Picoxystrobin (stobilurin)	4 floz/acre	1.25 gal	\$5.00	\$200.00
			1 acre/acre	40 acre	\$10.00	\$400.00
					Total	\$1,075.00

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Planting 40 acre May 19, 2016	Brundage 96		120 lbs/acre	4,800 lbs	\$12.00	\$480.00
	Planting		1 acre/acre	40 acre	\$6.00	\$240.00
					Total	\$720.00
Ethephon 40 acre May 31, 2016	Water Rate		5 gal/acre	200 gal		
	MANA Ethephon 2SL	Ethephon	1.5 pt/acre	7.5 gal	\$15.00	\$600.00
	Spray/aerial		1 acre/acre	40 acre	\$8.00	\$320.00
Aerial Spraying	Topaz	Propiconazole	4 floz/acre	1.25 gal	\$1.87	\$75.00
					Total	\$995.00
Spring Fertilizer 40 acre Jul 21, 2016	Power-Line Urea 46-0-0 Granular	Nitrogen	218 lbs/acre	8,720 lbs	\$39.24	\$1,569.60
Fertiliser Application	Muriate of Potash 0-0-60	Potash	84 lbs/acre	3,360 lbs	\$16.80	\$672.00
	Simplot Monoammonium Phosphate 11-52-0	Nitrogen and Phosphate	96 lbs/acre	3,840 lbs	\$19.20	\$768.00
	Fertilizer Application		40 acre/acre	1,600 acre	\$400.00	\$16,000.00
					Total	\$19,009.60
Harvest 40 acre Aug 05, 2016	Mechanical harvesting		1 acre/acre	40 acre	\$10.00	\$400.00
					Total	\$400.00
Irrigation 40 acre Oct 14, 2016	Irrigation		1 acre/acre	40 acre	\$10.00	\$400.00
					Total	\$400.00
Harvest 40 acre Oct 14, 2016	Harvest		1 acre/acre	40 acre	\$4.50	\$180.00
					Total	\$180.00
Planting 40 acre Oct 14, 2016	Planting		1 acre/acre	40 acre	\$4.00	\$160.00
	Brundage 96		120 lbs/acre	4,800 lbs	\$9.96	\$398.40
					Total	\$558.40
Ethephon 40 acre Oct 14, 2016	Water Rate		5 gal/acre	200 gal		
	MANA Ethephon 2SL	Ethephon	1.5 pt/acre	7.5 gal	\$15.00	\$600.00
	Spray/aerial		1 acre/acre	40 acre	\$8.00	\$320.00
Aerial Spraying	Topaz	Propiconazole	4 floz/acre	1.25 gal	\$1.87	\$75.00
					Total	\$995.00
Herbicide Application 40 acre Oct 14, 2016	Water Rate		15 gal/acre	600 gal		
Self Propelled Boomspray	Huskie Herbicide	Bromoxynil Octanoic Acid Ester, Pyrasulfotole, and Bromoxynil Heptanoate	15 floz/acre	4.69 gal	\$9.38	\$375.00
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	16 floz/acre	5 gal	\$2.50	\$100.00
	DuPont Aproach Fungicide	Picoxystrobin (stobilurin)	4 floz/acre	1.25 gal	\$5.00	\$200.00
	Spray/herbicide		1 acre/acre	40 acre	\$10.00	\$400.00
					Total	\$1,075.00
Spring Fertilizer 40 acre Oct 14, 2016	Andersons 46-0-0	Nitrogen	218 lbs/acre	8,720 lbs	\$39.24	\$1,569.60
Spreader	Muriate of Potash 0-0-60	Potash	84 lbs/acre	3,360 lbs	\$16.80	\$672.00
	Agrium 11-52-0 MAP	Nitrogen and Phosphate	97 lbs/acre	3,880 lbs	\$19.40	\$776.00
	Spreading fertilizer		1 acre/acre	40 acre	\$10.00	\$400.00
					Total	\$3,417.60
					Total	\$35,660.80

Adams East

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$1,185.79 /acre Total: \$69,961.40	\$2,400.00 /acre Total: \$141,600.00	\$1,214.21 /acre Total: \$71,638.60	50.59 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
59 acre	20 ton/acre	\$120.00 /ton	\$0.00	\$141,600.00

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS	OPERATIONS	OTHER COSTS	TOTAL COST
\$2.52 /acre	\$544.47 /acre	\$429.80 /acre	\$0.00 /acre	\$209.00 /acre	\$0.00 /acre	\$1,185.79 /acre

ROTATION HISTORY

2016

Potato

59 acre | Russet Burbank

Active Ingredients: K2O 0.2 lbs/acreMg 10.04 lbs/acreMn 2 lbs/acreN 352.06 lbs/acreOrganic acids including Humic and Fulvic 5.32 lbs/acrePhosphate 209.65 lbs/acrePotash 110.46 lbs/acreS 412.3 lbs/acreZn 8.15 lbs/acre

ACTIVITIES

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Potato Irrigation/ Fertigation 59 acre Oct 14, 2016 Fertigation	Irrigation		1 acre/acre	59 acre	\$15.00	\$885.00
	Valley 32-0-0	Nitrogen	55 gal/acre	3,245 gal	\$138.16	\$8,151.21
	Thio-Sul 12-0-0	Nitrogen and Sulfur	18.15 gal/acre	1,070.85 gal	\$30.69	\$1,810.57
	Actagro Structure 7-21-0	Organic acids including Humic and Fulvic, Nitrogen, Phosphate, and Zinc	7 gal/acre	413 gal	\$56.00	\$3,304.00
					Total	\$14,150.78
Potato Spring Fertilizer 59 acre Oct 14, 2016 Fertiliser Application	Valley 21-0-0-24s	Nitrogen and Sulfur	380 lbs/acre	22,420 lbs	\$57.46	\$3,389.90
	Variable Rate Ground - spreading 1		1 acre/acre	59 acre	\$10.00	\$590.00
					Total	\$3,979.90
Potato Fall Fertilizer 59 acre Oct 14, 2016 Fertiliser Application	Valley 12-45-0-5-1Z	Sulfur, Nitrogen, Phosphate, and Zinc	302 lbs/acre	17,818 lbs	\$82.26	\$4,853.62
	Valley 0-0-60	Potash	150 lbs/acre	8,850 lbs	\$25.92	\$1,529.28
	K-Mag	Potash, Magnesium, and Sulfur	93 lbs/acre	5,487 lbs	\$25.44	\$1,501.24
	Elemental Sulphur 85%	Sulfur	117 lbs/acre	6,903 lbs	\$27.38	\$1,615.30
	Power Zinc 35 Granular	Sulfur and Zinc	14 lbs/acre	826 lbs	\$7.93	\$467.85
	Agfinity Manganese Sulfate 32%	Sulfur and Manganese	6.25 lbs/acre	368.75 lbs	\$4.61	\$272.14
Variable Rate Ground - spreading 1		1 acre/acre	59 acre	\$14.00	\$826.00	
					Total	\$11,065.43

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Potato Prep Fumigation 59 acre Oct 14, 2016	Vapam HL Soil Fumigant	Metam-Sodium	40 gal/acre	2,360 gal	\$240.00	\$14,160.00
Soil Shank Injection	Deep Ripping		1 acre/acre	59 acre	\$40.00	\$2,360.00
					Total	\$16,520.00
Stubble Digest Sulfuric Acid 59 acre Oct 14, 2016	Sulfuric Acid	Sulfur	30 gal/acre	1,770 gal	\$27.00	\$1,593.00
Boomspray	Boomspray - contract		1 acre/acre	59 acre	\$12.00	\$708.00
					Total	\$2,301.00
Potatoes-Fungicide/Insecticide-Zing!, Abba Ultra, Masterlock 59 acre Oct 14, 2016	Zing!	Zoxamide and Chlorothalonil	1 qt/acre	14.75 gal	\$17.50	\$1,032.50
	ABBA Ultra	Abamectin	8 floz/acre	3.69 gal	\$6.56	\$387.19
	Masterlock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil, and soybean oil, ethoxylated	6 floz/acre	2.77 gal	\$1.17	\$69.14
Aerial Spraying	Spray/aerial		1 acre/acre	59 acre	\$10.00	\$590.00
					Total	\$2,078.83
Potato Harvest 59 acre Oct 14, 2016	Harvest		1 acre/acre	59 acre	\$50.00	\$2,950.00
					Total	\$2,950.00
Potatoes-Desiccant-Reglone, Parazone, Aduro 59 acre Oct 14, 2016	Water Rate		20 gal/acre	1,180 gal		
	Reglone Desiccant	Diquat as the diquat dibromide	2 pt/acre	14.75 gal	\$23.25	\$1,371.75
	Parazone 3SL	Paraquat Dichloride	1 pt/acre	7.38 gal	\$3.75	\$221.25
	Aduro	Monocarbamide dihydrogen sulfate, alkyl amine ethoxylate, 1,2,3-trihydroxypropane	2 pt/100gal	2.95 gal	\$1.10	\$64.90
Self Propelled Boomspray	Boomspray application		1 acre/acre	59 acre	\$8.00	\$472.00
					Total	\$2,129.90
Potato Seed Cutting 59 acre Oct 14, 2016	Seed - Treatment		1 acre/acre	59 acre	\$1.00	\$59.00
	Advise Four Flowable Insecticide	Imidacloprid	4 floz/100lb	0 gal	\$0.00	\$0.00
	Power-Line Potato Seed Treat Mancozeb 6% Plus Bark	Mancozeb	0.75 lbs/100lb	0 lbs	\$0.00	\$0.00
					Total	\$59.00
White Mold/Early Blight Application 59 acre Oct 14, 2016	Luna Tranquility	Fluopyram and Pyrimethanil	11 floz/acre	5.07 gal	\$34.37	\$2,028.12
Self Propelled Boomspray	Boomspray application		1 acre/acre	59 acre	\$8.00	\$472.00
					Total	\$2,500.13
White Mold/Early Blight 59 acre Oct 14, 2016	Endura Fungicide	Boscalid	6 oz/acre	22.13 lbs	\$33.60	\$1,982.40
	UPI Manzate Pro Stick	Mancozeb	1 lbs/acre	59 lbs	\$5.70	\$336.30
Boomspray	Boomspray application		1 acre/acre	59 acre	\$8.00	\$472.00
					Total	\$2,790.70
Potato Herbicide 59 acre Oct 14, 2016	Prowl H2O Herbicide	Pendimethalin	1.5 pt/acre	11.06 gal	\$9.00	\$531.00
	Boundary 6.5 EC Herbicide	Metribuzin and S-Metolachlor	2 pt/acre	14.75 gal	\$22.50	\$1,327.50
	Dimetric DF 75%	Metribuzin	0.33 lbs/acre	19.47 lbs	\$4.29	\$253.11
Self Propelled Boomspray	Boomspray application		1 acre/acre	59 acre	\$8.00	\$472.00
					Total	\$2,583.61

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Potato Planting 59 acre Oct 14, 2016	Planting		1 acre/acre	59 acre	\$25.00	\$1,475.00
	Russet Burbank		28 lbs/acre	1,652 lbs	\$2.52	\$148.68
	Valley 11-37-0	Phosphate and Nitrogen	13 gal/acre	767 gal	\$53.37	\$3,148.69
	Actagro Liquid Humus 0-0-4	Potash	2 qt/acre	29.5 gal	\$7.50	\$442.50
	Winfield Liquid Zinc 7%	Sulfur and Zinc	1 pt/acre	7.38 gal	\$0.75	\$44.25
	Moncut 70-DF	Flutolanil	0.75 lbs/acre	44.25 lbs	\$27.00	\$1,593.00
					Total	\$6,852.12
						Total \$69,961.40

Adams North

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$1,185.79 /acre Total: \$161,860	\$2,510.77 /acre Total: \$342,720.00	\$1,324.98 /acre Total: \$180,860	52.77 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
136.5 acre	20.92 ton/acre	\$120.00 /ton	\$0.00	\$342,720.00

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS	OPERATIONS	OTHER COSTS	TOTAL COST
\$2.52 /acre	\$544.47 /acre	\$429.80 /acre	\$0.00 /acre	\$209.00 /acre	\$0.00 /acre	\$1,185.79 /acre

ROTATION HISTORY

2016

Potato

136.5 acre | Russet Burbank

Active Ingredients: K2O 0.2 lbs/acre Mg 10.04 lbs/acre Mn 2 lbs/acre N 352.06 lbs/acre Organic acids including Humic and Fulvic 5.32 lbs/acre Phosphate 209.65 lbs/acre Potash 110.46 lbs/acre S 412.3 lbs/acre Zn 8.15 lbs/acre

ACTIVITIES

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Potato Irrigation/ Fertigation 136.5 acre Oct 14, 2016 Fertigation	Irrigation		1 acre/acre	136.5 acre	\$15.00	\$2,047.50
	Valley 32-0-0	Nitrogen	55 gal/acre	7,507.5 gal	\$138.16	\$18,858.31
	Thio-Sul 12-0-0	Nitrogen and Sulfur	18.15 gal/acre	2,477.48 gal	\$30.69	\$4,188.86
	Actagro Structure 7-21-0	Organic acids including Humic and Fulvic, Nitrogen, Phosphate, and Zinc	7 gal/acre	955.5 gal	\$56.00	\$7,644.00
					Total	\$32,738.68
Potato Spring Fertilizer 136.5 acre Oct 14, 2016 Fertiliser Application	Valley 21-0-0-24s	Nitrogen and Sulfur	380 lbs/acre	51,870 lbs	\$57.46	\$7,842.74
	Variable Rate Ground - spreading 1		1 acre/acre	136.5 acre	\$10.00	\$1,365.00
					Total	\$9,207.74

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Potato Fall Fertilizer 136.5 acre Oct 14, 2016 Fertiliser Application	Valley 12-45-0-5-1Z	Sulfur, Nitrogen, Phosphate, and Zinc	302 lbs/acre	41,223 lbs	\$82.26	\$11,229.15
	Valley 0-0-60	Potash	150 lbs/acre	20,475 lbs	\$25.92	\$3,538.08
	K-Mag	Potash, Magnesium, and Sulfur	93 lbs/acre	12,694.5 lbs	\$25.44	\$3,473.22
	Elemental Sulphur 85%	Sulfur	117 lbs/acre	15,970.5 lbs	\$27.38	\$3,737.10
	Power Zinc 35 Granular	Sulfur and Zinc	14 lbs/acre	1,911 lbs	\$7.93	\$1,082.39
	Agfinity Manganese Sulfate 32%	Sulfur and Manganese	6.25 lbs/acre	853.13 lbs	\$4.61	\$629.61
Variable Rate Ground - spreading 1			1 acre/acre	136.5 acre	\$14.00	\$1,911.00
					Total	\$25,600.53
Potato Prep Fumigation 136.5 acre Oct 14, 2016 Soil Shank Injection	Vapam HL Soil Fumigant	Metam-Sodium	40 gal/acre	5,460 gal	\$240.00	\$32,760.00
	Deep Ripping		1 acre/acre	136.5 acre	\$40.00	\$5,460.00
					Total	\$38,220.00
Stubble Digest Sulfuric Acid 136.5 acre Oct 14, 2016 Boomspray	Sulfuric Acid	Sulfur	30 gal/acre	4,095 gal	\$27.00	\$3,685.50
	Boomspray - contract		1 acre/acre	136.5 acre	\$12.00	\$1,638.00
					Total	\$5,323.50
Potatoes-Fungicide/Insecticide-Zing!, Abba Ultra, Masterlock 136.5 acre Oct 14, 2016 Aerial Spraying	Zing!	Zoxamide and Chlorothalonil	1 qt/acre	34.13 gal	\$17.50	\$2,388.75
	ABBA Ultra	Abamectin	8 floz/acre	8.53 gal	\$6.56	\$895.78
	Masterlock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil, and soybean oil, ethoxylated	6 floz/acre	6.4 gal	\$1.17	\$159.96
	Spray/aerial		1 acre/acre	136.5 acre	\$10.00	\$1,365.00
					Total	\$4,809.49
Potato Harvest 136.5 acre Oct 14, 2016	Harvest		1 acre/acre	136.5 acre	\$50.00	\$6,825.00
						Total
Potatoes-Desiccant-Reglone, Parazone, Aduro 136.5 acre Oct 14, 2016 Self Propelled Boomspray	Water Rate		20 gal/acre	2,730 gal		
	Reglone Desiccant	Diquat as the diquat dibromide	2 pt/acre	34.13 gal	\$23.25	\$3,173.63
	Parazone 3SL	Paraquat Dichloride	1 pt/acre	17.06 gal	\$3.75	\$511.87
	Aduro	Monocarbamide dihydrogen sulfate, alkyl amine ethoxylate, 1,2,3-trihydroxypropane	2 pt/100gal	6.83 gal	\$1.10	\$150.15
	Boomspray application		1 acre/acre	136.5 acre	\$8.00	\$1,092.00
					Total	\$4,927.65
Potato Seed Cutting 136.5 acre Oct 14, 2016	Seed - Treatment		1 acre/acre	136.5 acre	\$1.00	\$136.50
	Advise Four Flowable Insecticide	Imidacloprid	4 floz/100lb	0 gal	\$0.00	\$0.00
	Power-Line Potato Seed Treat Mancozeb 6% Plus Bark	Mancozeb	0.75 lbs/100lb	0 lbs	\$0.00	\$0.00
					Total	\$136.50
White Mold/Early Blight Application 136.5 acre Oct 14, 2016 Self Propelled Boomspray	Luna Tranquility	Fluopyram and Pyrimethanil	11 floz/acre	11.73 gal	\$34.37	\$4,692.19
	Boomspray application		1 acre/acre	136.5 acre	\$8.00	\$1,092.00
					Total	\$5,784.19

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
White Mold/ Early Blight 136.5 acre Oct 14, 2016 Boomspray	Endura Fungicide	Boscalid	6 oz/acre	51.19 lbs	\$33.60	\$4,586.40
	UPI Manzate Pro Stick	Mancozeb	1 lbs/acre	136.5 lbs	\$5.70	\$778.05
	Boomspray application		1 acre/acre	136.5 acre	\$8.00	\$1,092.00
					Total	\$6,456.45
Potato Herbicide 136.5 acre Oct 14, 2016 Self Propelled Boomspray	Prowl H2O Herbicide	Pendimethalin	1.5 pt/acre	25.59 gal	\$9.00	\$1,228.50
	Boundary 6.5 EC Herbicide	Metribuzin and S- Metolachlor	2 pt/acre	34.13 gal	\$22.50	\$3,071.25
	Dimetric DF 75%	Metribuzin	0.33 lbs/acre	45.05 lbs	\$4.29	\$585.59
	Boomspray application		1 acre/acre	136.5 acre	\$8.00	\$1,092.00
					Total	\$5,977.34
Potato Planting 136.5 acre Oct 14, 2016	Planting		1 acre/acre	136.5 acre	\$25.00	\$3,412.50
	Russet Burbank		28 lbs/acre	3,822 lbs	\$2.52	\$343.98
	Valley 11-37-0	Phosphate and Nitrogen	13 gal/acre	1,774.5 gal	\$53.37	\$7,284.68
	Actagro Liquid Humus 0-0-4	Potash	2 qt/acre	68.25 gal	\$7.50	\$1,023.75
	Winfield Liquid Zinc 7%	Sulfur and Zinc	1 pt/acre	17.06 gal	\$0.75	\$102.38
	Moncut 70-DF	Flutolanil	0.75 lbs/acre	102.38 lbs	\$27.00	\$3,685.50
					Total	\$15,852.78
					Total	\$161,859.85

Adams South

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$1,185.79 /acre Total: \$100,816	\$2,879.32 /acre Total: \$244,800.00	\$1,693.54 /acre Total: \$143,984	58.82 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
85.02 acre	23.99 ton/acre	\$120.00 /ton	\$0.00	\$244,800.00

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS	OPERATIONS	OTHER COSTS	TOTAL COST
\$2.52 /acre	\$544.47 /acre	\$429.80 /acre	\$0.00 /acre	\$209.00 /acre	\$0.00 /acre	\$1,185.79 /acre

ROTATION HISTORY

2016

Potato

85.02 acre | Russet Burbank

Active Ingredients: K2O 0.2 lbs/acreMg 10.04 lbs/acreMn 2 lbs/acreN 352.06 lbs/acreOrganic acids including Humic and Fulvic 5.32 lbs/acrePhosphate 209.65 lbs/acrePotash 110.46 lbs/acreS 412.3 lbs/acreZn 8.15 lbs/acre



ACTIVITIES

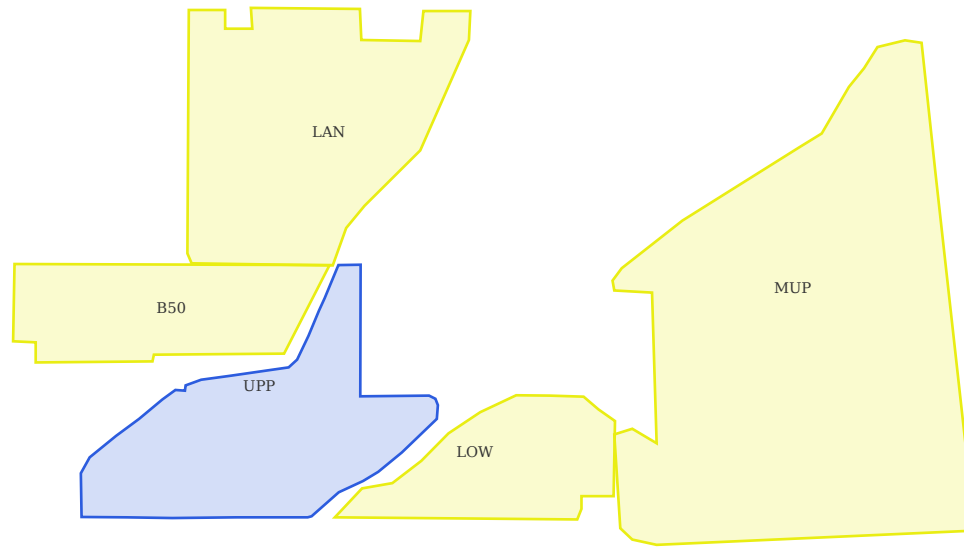
SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Potato Irrigation/ Fertigation 85.02 acre Oct 14, 2016 Fertigation	Irrigation		1 acre/acre	85.02 acre	\$15.00	\$1,275.30
	Valley 32-0-0	Nitrogen	55 gal/acre	4,676.1 gal	\$138.16	\$11,746.04
	Thio-Sul 12-0-0	Nitrogen and Sulfur	18.15 gal/acre	1,543.11 gal	\$30.69	\$2,609.06
	Actagro Structure 7-21-0	Organic acids including Humic and Fulvic, Nitrogen, Phosphate, and Zinc	7 gal/acre	595.14 gal	\$56.00	\$4,761.12
					Total	\$20,391.52
Potato Spring Fertilizer 85.02 acre Oct 14, 2016 Fertiliser Application	Valley 21-0-0-24s	Nitrogen and Sulfur	380 lbs/acre	32,307.6 lbs	\$57.46	\$4,884.91
	Variable Rate Ground - spreading 1		1 acre/acre	85.02 acre	\$10.00	\$850.20
					Total	\$5,735.11

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Potato Fall Fertilizer 85.02 acre Oct 14, 2016 Fertiliser Application	Valley 12-45-0-5-1Z	Sulfur, Nitrogen, Phosphate, and Zinc	302 lbs/acre	25,676.04 lbs	\$82.26	\$6,994.15
	Valley 0-0-60	Potash	150 lbs/acre	12,753 lbs	\$25.92	\$2,203.72
	K-Mag	Potash, Magnesium, and Sulfur	93 lbs/acre	7,906.86 lbs	\$25.44	\$2,163.32
	Elemental Sulphur 85%	Sulfur	117 lbs/acre	9,947.34 lbs	\$27.38	\$2,327.68
	Power Zinc 35 Granular	Sulfur and Zinc	14 lbs/acre	1,190.28 lbs	\$7.93	\$674.17
	Agfinity Manganese Sulfate 32%	Sulfur and Manganese	6.25 lbs/acre	531.38 lbs	\$4.61	\$392.15
Variable Rate Ground - spreading 1			1 acre/acre	85.02 acre	\$14.00	\$1,190.28
					Total	\$15,945.48
Potato Prep Fumigation 85.02 acre Oct 14, 2016 Soil Shank Injection	Vapam HL Soil Fumigant	Metam-Sodium	40 gal/acre	3,400.8 gal	\$240.00	\$20,404.80
	Deep Ripping		1 acre/acre	85.02 acre	\$40.00	\$3,400.80
					Total	\$23,805.60
Stubble Digest Sulfuric Acid 85.02 acre Oct 14, 2016 Boomspray	Sulfuric Acid	Sulfur	30 gal/acre	2,550.6 gal	\$27.00	\$2,295.54
	Boomspray - contract		1 acre/acre	85.02 acre	\$12.00	\$1,020.24
					Total	\$3,315.78
Potatoes-Fungicide/Insecticide-Zing!, Abba Ultra, Masterlock 85.02 acre Oct 14, 2016 Aerial Spraying	Zing!	Zoxamide and Chlorothalonil	1 qt/acre	21.26 gal	\$17.50	\$1,487.85
	ABBA Ultra	Abamectin	8 floz/acre	5.31 gal	\$6.56	\$557.94
	Masterlock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil, and soybean oil, ethoxylated	6 floz/acre	3.99 gal	\$1.17	\$99.63
	Spray/aerial		1 acre/acre	85.02 acre	\$10.00	\$850.20
					Total	\$2,995.63
Potato Harvest 85.02 acre Oct 14, 2016	Harvest		1 acre/acre	85.02 acre	\$50.00	\$4,251.00
					Total	\$4,251.00
Potatoes-Desiccant-Reglone, Parazone, Aduro 85.02 acre Oct 14, 2016 Self Propelled Boomspray	Water Rate		20 gal/acre	1,700.4 gal		
	Reglone Desiccant	Diquat as the diquat dibromide	2 pt/acre	21.26 gal	\$23.25	\$1,976.72
	Parazone 3SL	Paraquat Dichloride	1 pt/acre	10.63 gal	\$3.75	\$318.82
	Aduro	Monocarbamide dihydrogen sulfate, alkyl amine ethoxylate, 1,2,3-trihydroxypropane	2 pt/100gal	4.25 gal	\$1.10	\$93.52
Boomspray application			1 acre/acre	85.02 acre	\$8.00	\$680.16
					Total	\$3,069.22
Potato Seed Cutting 85.02 acre Oct 14, 2016	Seed - Treatment		1 acre/acre	85.02 acre	\$1.00	\$85.02
	Advise Four Flowable Insecticide	Imidacloprid	4 floz/100lb	0 gal	\$0.00	\$0.00
	Power-Line Potato Seed Treat Mancozeb 6% Plus Bark	Mancozeb	0.75 lbs/100lb	0 lbs	\$0.00	\$0.00
					Total	\$85.02

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
White Mold/ Early Blight Application 85.02 acre Oct 14, 2016 Self Propelled Boomspray	Luna Tranquility	Fluopyram and Pyrimethanil	11 floz/acre	7.31 gal	\$34.37	\$2,922.56
	Boomspray application		1 acre/acre	85.02 acre	\$8.00	\$680.16
					Total	\$3,602.72
White Mold/ Early Blight 85.02 acre Oct 14, 2016 Boomspray	Endura Fungicide	Boscalid	6 oz/acre	31.88 lbs	\$33.60	\$2,856.67
	UPI Manzate Pro Stick	Mancozeb	1 lbs/acre	85.02 lbs	\$5.70	\$484.61
	Boomspray application		1 acre/acre	85.02 acre	\$8.00	\$680.16
					Total	\$4,021.45
Potato Herbicide 85.02 acre Oct 14, 2016 Self Propelled Boomspray	Prowl H2O Herbicide	Pendimethalin	1.5 pt/acre	15.94 gal	\$9.00	\$765.18
	Boundary 6.5 EC Herbicide	Metribuzin and S- Metolachlor	2 pt/acre	21.26 gal	\$22.50	\$1,912.95
	Dimetric DF 75%	Metribuzin	0.33 lbs/acre	28.06 lbs	\$4.29	\$364.74
	Boomspray application		1 acre/acre	85.02 acre	\$8.00	\$680.16
					Total	\$3,723.03
Potato Planting 85.02 acre Oct 14, 2016	Planting		1 acre/acre	85.02 acre	\$25.00	\$2,125.50
	Russet Burbank		28 lbs/acre	2,380.56 lbs	\$2.52	\$214.25
	Valley 11-37-0	Phosphate and Nitrogen	13 gal/acre	1,105.26 gal	\$53.37	\$4,537.31
	Actagro Liquid Humus 0-0-4	Potash	2 qt/acre	42.51 gal	\$7.50	\$637.65
	Winfield Liquid Zinc 7%	Sulfur and Zinc	1 pt/acre	10.63 gal	\$0.75	\$63.76
	Moncut 70-DF	Flutolanil	0.75 lbs/acre	63.76 lbs	\$27.00	\$2,295.54
					Total	\$9,874.02
					Total	\$100,815.57

Lankford Home Aerial Overview

Potato  Wheat - winter 



GROSS PROFIT BY ROTATION HISTORY - Lankford Home

FIELD	2016
Barclay 50 (Map: B50)	Wheat - winter Brundage 96 \$281.00 /acre
Lankford North (Map: LAN)	Wheat - winter Brundage 96 \$298.55 /acre
Lower (Map: LOW)	Wheat - winter Brundage 96 \$198.75 /acre
Murry Place (Map: MUP)	Wheat - winter Brundage 96 \$321.04 /acre
Upper (Map: UPP)	Potato Russet Burbank \$1,790.27 /acre

Barclay 50

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$165.65 /acre Total: \$8,010.83	\$446.65 /acre Total: \$21,600.00	\$281.00 /acre Total: \$13,589.17	62.91 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
48.36 acre	119.11 bu/acre	\$3.75 /bu	\$0.00	\$21,600.00

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS OPERATIONS	OTHER COSTS	TOTAL COST	
\$9.96 /acre	\$75.44 /acre	\$33.75 /acre	\$0.00 /acre	\$46.50 /acre	\$0.00 /acre	\$165.65 /acre

ROTATION HISTORY

2016

Wheat - winter

48.36 acre | Brundage 96

Active Ingredients: K2O 50.4 lbs/acreN 110.95 lbs/acrePhosphate 50.44 lbs/acre

ACTIVITIES

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ACRE	COST
Irrigation 48.36 acre Oct 14, 2016	Irrigation		1 acre/acre	48.36 acre	\$10.00	\$483.60
						Total \$483.60
Harvest 48.36 acre Oct 14, 2016	Harvest		1 acre/acre	48.36 acre	\$4.50	\$217.62
						Total \$217.62
Planting 48.36 acre Oct 14, 2016	Planting		1 acre/acre	48.36 acre	\$4.00	\$193.44
	Brundage 96		120 lbs/acre	5,803.2 lbs	\$9.96	\$481.67
						Total \$675.11
Ethephon 48.36 acre Oct 14, 2016 Aerial Spraying	Water Rate		5 gal/acre	241.8 gal		
	MANA Ethephon 2SL	Ethephon	1.5 pt/acre	9.07 gal	\$15.00	\$725.40
	Spray/aerial		1 acre/acre	48.36 acre	\$8.00	\$386.88
	Topaz	Propiconazole	4 floz/acre	1.51 gal	\$1.87	\$90.68
						Total \$1,202.96
Herbicide Application 48.36 acre Oct 14, 2016 Self Propelled Boomspray	Water Rate		15 gal/acre	725.4 gal		
	Huskie Herbicide	Bromoxynil Octanoic Acid Ester, Pyrasulfotole, and Bromoxynil Heptanoate	15 floz/acre	5.67 gal	\$9.38	\$453.38
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	16 floz/acre	6.05 gal	\$2.50	\$120.90
	DuPont Aproach Fungicide	Picoxystrobin (stobilurin)	4 floz/acre	1.51 gal	\$5.00	\$241.80
	Spray/herbicide		1 acre/acre	48.36 acre	\$10.00	\$483.60
						Total \$1,299.68

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ACRE	COST
Spring Fertilizer 48.36 acre Oct 14, 2016 Spreader	Andersons 46-0-0	Nitrogen	218 lbs/acre	10,542.48 lbs	\$39.24	\$1,897.65
	Muriate of Potash 0-0-60	Potash	84 lbs/acre	4,062.24 lbs	\$16.80	\$812.45
	Agrium 11-52-0 MAP	Nitrogen and Phosphate	97 lbs/acre	4,690.92 lbs	\$19.40	\$938.18
	Spreading fertilizer		1 acre/acre	48.36 acre	\$10.00	\$483.60
					Total \$4,131.88	Total \$8,010.83

Lankford North

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$165.65 /acre Total: \$16,392.72	\$464.20 /acre Total: \$45,937.50	\$298.55 /acre Total: \$29,544.78	64.32 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
98.96 acre	123.79 bu/acre	\$3.75 /bu	\$0.00	\$45,937.50

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS	OPERATIONS	OTHER COSTS	TOTAL COST
\$9.96 /acre	\$75.44 /acre	\$33.75 /acre	\$0.00 /acre	\$46.50 /acre	\$0.00 /acre	\$165.65 /acre

ROTATION HISTORY

2016

Wheat - winter

98.96 acre | Brundage 96

Active Ingredients: K2O 50.4 lbs/acreN 110.95 lbs/acrePhosphate 50.44 lbs/acre

ACTIVITIES

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Irrigation 98.96 acre Oct 14, 2016	Irrigation		1 acre/acre	98.96 acre	\$10.00	\$989.60
					Total	\$989.60
Harvest 98.96 acre Oct 14, 2016	Harvest		1 acre/acre	98.96 acre	\$4.50	\$445.32
					Total	\$445.32
Planting 98.96 acre Oct 14, 2016	Planting		1 acre/acre	98.96 acre	\$4.00	\$395.84
	Brundage 96		120 lbs/acre	11,875.2 lbs	\$9.96	\$985.64
					Total	\$1,381.48
Ethephon 98.96 acre Oct 14, 2016	Water Rate		5 gal/acre	494.8 gal		
	MANA Ethephon 2SL	Ethephon	1.5 pt/acre	18.55 gal	\$15.00	\$1,484.40
	Spray/aerial		1 acre/acre	98.96 acre	\$8.00	\$791.68
Aerial Spraying	Topaz	Propiconazole	4 floz/acre	3.09 gal	\$1.87	\$185.55
					Total	\$2,461.63

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Herbicide Application 98.96 acre Oct 14, 2016 Self Propelled Boomspray	Water Rate		15 gal/acre	1,484.4 gal		
	Huskie Herbicide	Bromoxynil Octanoic Acid Ester, Pyrasulfotole, and Bromoxynil Heptanoate	15 floz/acre	11.6 gal	\$9.38	\$927.75
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	16 floz/acre	12.37 gal	\$2.50	\$247.40
	DuPont Aproach Fungicide	Picoxystrobin (stobilurin)	4 floz/acre	3.09 gal	\$5.00	\$494.80
	Spray/herbicide		1 acre/acre	98.96 acre	\$10.00	\$989.60
					Total	\$2,659.55
Spring Fertilizer 98.96 acre Oct 14, 2016 Spreader	Andersons 46-0-0	Nitrogen	218 lbs/acre	21,573.28 lbs	\$39.24	\$3,883.19
	Muriate of Potash 0-0-60	Potash	84 lbs/acre	8,312.64 lbs	\$16.80	\$1,662.53
	Agrium 11-52-0 MAP	Nitrogen and Phosphate	97 lbs/acre	9,599.12 lbs	\$19.40	\$1,919.82
	Spreading fertilizer		1 acre/acre	98.96 acre	\$10.00	\$989.60
						Total
					Total	\$16,392.72

Lower

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$281.27 /acre Total: \$11,495.50	\$480.02 /acre Total: \$19,618.50	\$198.75 /acre Total: \$8,123.00	41.4 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
40.87 acre	110.35 bu/acre	\$4.35 /bu	\$0.00	\$19,618.50

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS	OPERATIONS	OTHER COSTS	TOTAL COST
\$21.96 /acre	\$154.31 /acre	\$33.75 /acre	\$0.00 /acre	\$71.25 /acre	\$0.00 /acre	\$281.27 /acre

ROTATION HISTORY

2016

Wheat - winter

40.87 acre | Brundage 96

Active Ingredients: K2O 50.4 lbs/acreN 281.59 lbs/acrePhosphate 100.36 lbs/acre

ACTIVITIES

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
spring fertilizer 40.87 acre Mar 31, 2016 Broadcast	Andersons 46-0-0	Nitrogen	348 lbs/acre	14,222.76 lbs	\$56.55	\$2,311.20
	Agrium 11-52-0 MAP	Nitrogen and Phosphate	96 lbs/acre	3,923.52 lbs	\$22.32	\$912.22
	Fertilizer Application		1 acre/acre	40.87 acre	\$8.00	\$326.96
					Total	\$3,550.38
Planting 40.87 acre May 19, 2016	Alturas (wheat)		120 lbs/acre	4,904.4 lbs	\$12.00	\$490.44
	Planting		1 acre/acre	40.87 acre	\$6.00	\$245.22
					Total	\$735.66
Harvest 40.87 acre Aug 05, 2016	Mechanical harvesting		1 acre/acre	40.87 acre	\$10.00	\$408.70
					Total	\$408.70
Aerial Imagery 40.87 acre Oct 14, 2016	Field Scouting		1 acre/acre	40.87 acre	\$0.75	\$30.65
					Total	\$30.65
Irrigation 40.87 acre Oct 14, 2016	Irrigation		1 acre/acre	40.87 acre	\$10.00	\$408.70
					Total	\$408.70
Harvest 40.87 acre Oct 14, 2016	Harvest		1 acre/acre	40.87 acre	\$4.50	\$183.92
					Total	\$183.92
Planting 40.87 acre Oct 14, 2016	Planting		1 acre/acre	40.87 acre	\$4.00	\$163.48
	Brundage 96		120 lbs/acre	4,904.4 lbs	\$9.96	\$407.07
					Total	\$570.55

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Ethephon 40.87 acre Oct 14, 2016 Aerial Spraying	Water Rate		5 gal/acre	204.35 gal		
	MANA Ethephon 2SL	Ethephon	1.5 pt/acre	7.66 gal	\$15.00	\$613.05
	Spray/aerial		1 acre/acre	40.87 acre	\$8.00	\$326.96
	Topaz	Propiconazole	4 floz/acre	1.28 gal	\$1.87	\$76.63
					Total	\$1,016.64
Herbicide Application 40.87 acre Oct 14, 2016 Self Propelled Boomspray	Water Rate		15 gal/acre	613.05 gal		
	Huskie Herbicide	Bromoxynil Octanoic Acid Ester, Pyrasulfotole, and Bromoxynil Heptanoate	15 floz/acre	4.79 gal	\$9.38	\$383.16
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	16 floz/acre	5.11 gal	\$2.50	\$102.18
	DuPont Aproach Fungicide	Picoxystrobin (stobilurin)	4 floz/acre	1.28 gal	\$5.00	\$204.35
	Spray/herbicide		1 acre/acre	40.87 acre	\$10.00	\$408.70
					Total	\$1,098.38
Spring Fertilizer 40.87 acre Oct 14, 2016 Spreader	Andersons 46-0-0	Nitrogen	218 lbs/acre	8,909.66 lbs	\$39.24	\$1,603.74
	Muriate of Potash 0-0-60	Potash	84 lbs/acre	3,433.08 lbs	\$16.80	\$686.62
	Agrium 11-52-0 MAP	Nitrogen and Phosphate	97 lbs/acre	3,964.39 lbs	\$19.40	\$792.88
	Spreading fertilizer		1 acre/acre	40.87 acre	\$10.00	\$408.70
					Total	\$3,491.93
					Total	\$11,495.50

Murry Place

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$165.65 /acre Total: \$37,001.24	\$486.69 /acre Total: \$108,713	\$321.04 /acre Total: \$71,711.26	65.96 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
223.37 acre	129.78 bu/acre	\$3.75 /bu	\$0.00	\$108,712.50

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS	OPERATIONS	OTHER COSTS	TOTAL COST
\$9.96 /acre	\$75.44 /acre	\$33.75 /acre	\$0.00 /acre	\$46.50 /acre	\$0.00 /acre	\$165.65 /acre

ROTATION HISTORY

2016

Wheat - winter

223.37 acre | Brundage 96

Active Ingredients: K2O 50.4 lbs/acreN 110.95 lbs/acrePhosphate 50.44 lbs/acre

ACTIVITIES

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Irrigation 223.37 acre Oct 14, 2016	Irrigation		1 acre/acre	223.37 acre	\$10.00	\$2,233.70
					Total	\$2,233.70
Harvest 223.37 acre Oct 14, 2016	Harvest		1 acre/acre	223.37 acre	\$4.50	\$1,005.17
					Total	\$1,005.17
Planting 223.37 acre Oct 14, 2016	Planting		1 acre/acre	223.37 acre	\$4.00	\$893.48
	Brundage 96		120 lbs/acre	26,804.4 lbs	\$9.96	\$2,224.77
					Total	\$3,118.25
Ethephon 223.37 acre Oct 14, 2016	Water Rate		5 gal/acre	1,116.85 gal		
Aerial Spraying	MANA Ethephon 2SL	Ethephon	1.5 pt/acre	41.88 gal	\$15.00	\$3,350.55
	Spray/aerial		1 acre/acre	223.37 acre	\$8.00	\$1,786.96
	Topaz	Propiconazole	4 floz/acre	6.98 gal	\$1.87	\$418.82
					Total	\$5,556.33

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Herbicide Application 223.37 acre Oct 14, 2016 Self Propelled Boomspray	Water Rate		15 gal/acre	3,350.55 gal		
	Huskie Herbicide	Bromoxynil Octanoic Acid Ester, Pyrasulfotole, and Bromoxynil Heptanoate	15 floz/acre	26.18 gal	\$9.38	\$2,094.09
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	16 floz/acre	27.92 gal	\$2.50	\$558.43
	DuPont Aproach Fungicide	Picoxystrobin (stobilurin)	4 floz/acre	6.98 gal	\$5.00	\$1,116.85
	Spray/herbicide		1 acre/acre	223.37 acre	\$10.00	\$2,233.70
					Total	\$6,003.07
Spring Fertilizer 223.37 acre Oct 14, 2016 Spreader	Andersons 46-0-0	Nitrogen	218 lbs/acre	48,694.66 lbs	\$39.24	\$8,765.04
	Muriate of Potash 0-0-60	Potash	84 lbs/acre	18,763.08 lbs	\$16.80	\$3,752.62
	Agrium 11-52-0 MAP	Nitrogen and Phosphate	97 lbs/acre	21,666.89 lbs	\$19.40	\$4,333.38
	Spreading fertilizer		1 acre/acre	223.37 acre	\$10.00	\$2,233.70
					Total	\$19,084.73
					Total	\$37,001.24

Upper

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$1,186.54 /acre Total: \$92,075.23	\$2,976.80 /acre Total: \$231,000.00	\$1,790.27 /acre Total: \$138,925	60.14 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
77.6 acre	24.81 ton/acre	\$120.00 /ton	\$0.00	\$231,000.00

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS	OPERATIONS	OTHER COSTS	TOTAL COST
\$2.52 /acre	\$544.47 /acre	\$429.80 /acre	\$0.00 /acre	\$209.75 /acre	\$0.00 /acre	\$1,186.54 /acre

ROTATION HISTORY

2016

Potato

77.6 acre | Russet Burbank

Active Ingredients: K2O 0.2 lbs/acre Mg 10.04 lbs/acre Mn 2 lbs/acre N 352.06 lbs/acre Organic acids including Humic and Fulvic 5.32 lbs/acre Phosphate 209.65 lbs/acre Potash 110.46 lbs/acre S 412.3 lbs/acre Zn 8.15 lbs/acre

ACTIVITIES

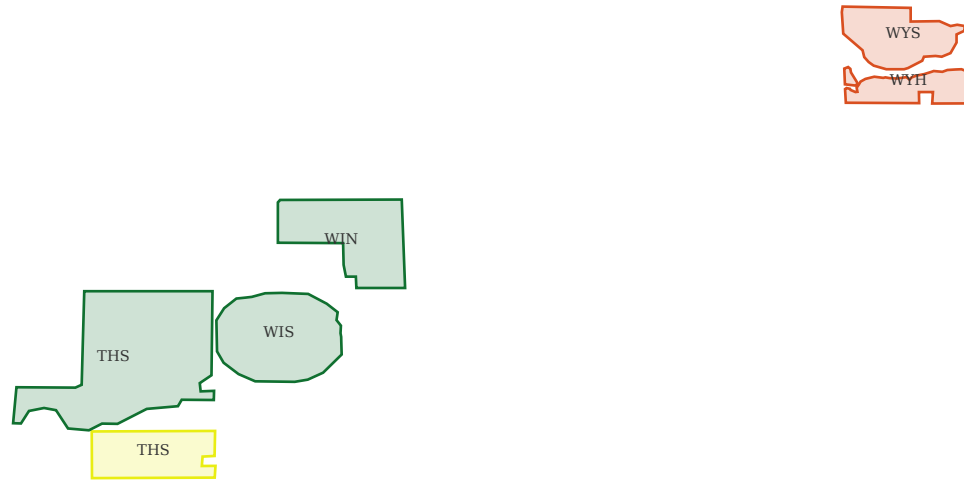
SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Potatoes- White Mold Early Blight- Luna Tranquility 77.6 acre Aug 30, 2016 Self Propelled Boomspray	Water Rate		20 gal/acre	1,552 gal		
	Luna Tranquility	Fluopyram and Pyrimethanil	11 floz/acre	6.67 gal	\$0.00	\$0.00
	Boomspray application		1 acre/acre	77.6 acre	\$0.00	\$0.00
					Total	\$0.00
Aerial Imagery 77.6 acre Oct 14, 2016	Field Scouting		1 acre/acre	77.6 acre	\$0.75	\$58.20
					Total	\$58.20
Potato Irrigation/ Fertigation 77.6 acre Oct 14, 2016 Fertigation	Irrigation		1 acre/acre	77.6 acre	\$15.00	\$1,164.00
	Valley 32-0-0	Nitrogen	55 gal/acre	4,268 gal	\$138.16	\$10,720.92
	Thio-Sul 12-0-0	Nitrogen and Sulfur	18.15 gal/acre	1,408.44 gal	\$30.69	\$2,381.36
	Actagro Structure 7-21-0	Organic acids including Humic and Fulvic, Nitrogen, Phosphate, and Zinc	7 gal/acre	543.2 gal	\$56.00	\$4,345.60
					Total	\$18,611.88

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Potato Spring Fertilizer 77.6 acre Oct 14, 2016 Fertiliser Application	Valley 21-0-0-24s	Nitrogen and Sulfur	380 lbs/acre	29,488 lbs	\$57.46	\$4,458.59
	Variable Rate Ground - spreading 1		1 acre/acre	77.6 acre	\$10.00	\$776.00
					Total	\$5,234.59
Potato Fall Fertilizer 77.6 acre Oct 14, 2016 Fertiliser Application	Valley 12-45-0-5-1Z	Sulfur, Nitrogen, Phosphate, and Zinc	302 lbs/acre	23,435.2 lbs	\$82.26	\$6,383.75
	Valley 0-0-60	Potash	150 lbs/acre	11,640 lbs	\$25.92	\$2,011.39
	K-Mag	Potash, Magnesium, and Sulfur	93 lbs/acre	7,216.8 lbs	\$25.44	\$1,974.52
	Elemental Sulphur 85%	Sulfur	117 lbs/acre	9,079.2 lbs	\$27.38	\$2,124.53
	Power Zinc 35 Granular	Sulfur and Zinc	14 lbs/acre	1,086.4 lbs	\$7.93	\$615.34
Agfinity Manganese Sulfate 32%	Sulfur and Manganese	6.25 lbs/acre	485 lbs	\$4.61	\$357.93	
Variable Rate Ground - spreading 1		1 acre/acre	77.6 acre	\$14.00	\$1,086.40	
					Total	\$14,553.86
Potato Prep Fumigation 77.6 acre Oct 14, 2016 Soil Shank Injection	Vapam HL Soil Fumigant	Metam-Sodium	40 gal/acre	3,104 gal	\$240.00	\$18,624.00
	Deep Ripping		1 acre/acre	77.6 acre	\$40.00	\$3,104.00
					Total	\$21,728.00
Stubble Digest Sulfuric Acid 77.6 acre Oct 14, 2016 Boomspray	Sulfuric Acid	Sulfur	30 gal/acre	2,328 gal	\$27.00	\$2,095.20
	Boomspray - contract		1 acre/acre	77.6 acre	\$12.00	\$931.20
					Total	\$3,026.40
Potatoes-Fungicide/Insecticide-Zing!, Abba Ultra, Masterlock 77.6 acre Oct 14, 2016 Aerial Spraying	Zing!	Zoxamide and Chlorothalonil	1 qt/acre	19.4 gal	\$17.50	\$1,358.00
	ABBA Ultra	Abamectin	8 floz/acre	4.85 gal	\$6.56	\$509.25
	Masterlock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil, and soybean oil, ethoxylated	6 floz/acre	3.64 gal	\$1.17	\$90.94
	Spray/aerial		1 acre/acre	77.6 acre	\$10.00	\$776.00
					Total	\$2,734.19
Potato Harvest 77.6 acre Oct 14, 2016	Harvest		1 acre/acre	77.6 acre	\$50.00	\$3,880.00
						Total
Potatoes-Desiccant-Reglone, Parazone, Aduro 77.6 acre Oct 14, 2016 Self Propelled Boomspray	Water Rate		20 gal/acre	1,552 gal		
	Reglone Desiccant	Diquat as the diquat dibromide	2 pt/acre	19.4 gal	\$23.25	\$1,804.20
	Parazone 3SL	Paraquat Dichloride	1 pt/acre	9.7 gal	\$3.75	\$291.00
	Aduro	Monocarbamide dihydrogen sulfate, alkyl amine ethoxylate, 1,2,3-trihydroxypropane	2 pt/100gal	3.88 gal	\$1.10	\$85.36
Boomspray application		1 acre/acre	77.6 acre	\$8.00	\$620.80	
					Total	\$2,801.36
Potato Seed Cutting 77.6 acre Oct 14, 2016	Seed - Treatment		1 acre/acre	77.6 acre	\$1.00	\$77.60
	Advise Four Flowable Insecticide	Imidacloprid	4 floz/100lb	0 gal	\$0.00	\$0.00
	Power-Line Potato Seed Treat Mancozeb 6% Plus Bark	Mancozeb	0.75 lbs/100lb	0 lbs	\$0.00	\$0.00
					Total	\$77.60

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
White Mold/ Early Blight Application 77.6 acre Oct 14, 2016 Self Propelled Boomspray	Luna Tranquility	Fluopyram and Pyrimethanil	11 floz/acre	6.67 gal	\$34.38	\$2,667.50
	Boomspray application		1 acre/acre	77.6 acre	\$8.00	\$620.80
					Total	\$3,288.30
White Mold/ Early Blight 77.6 acre Oct 14, 2016 Boomspray	Endura Fungicide	Boscalid	6 oz/acre	29.1 lbs	\$33.60	\$2,607.36
	UPI Manzate Pro Stick	Mancozeb	1 lbs/acre	77.6 lbs	\$5.70	\$442.32
	Boomspray application		1 acre/acre	77.6 acre	\$8.00	\$620.80
					Total	\$3,670.48
Potato Herbicide 77.6 acre Oct 14, 2016 Self Propelled Boomspray	Prowl H2O Herbicide	Pendimethalin	1.5 pt/acre	14.55 gal	\$9.00	\$698.40
	Boundary 6.5 EC Herbicide	Metribuzin and S- Metolachlor	2 pt/acre	19.4 gal	\$22.50	\$1,746.00
	Dimetric DF 75%	Metribuzin	0.33 lbs/acre	25.61 lbs	\$4.29	\$332.90
	Boomspray application		1 acre/acre	77.6 acre	\$8.00	\$620.80
					Total	\$3,398.10
Potato Planting 77.6 acre Oct 14, 2016	Planting		1 acre/acre	77.6 acre	\$25.00	\$1,940.00
	Russet Burbank		28 lbs/acre	2,172.8 lbs	\$2.52	\$195.55
	Valley 11-37-0	Phosphate and Nitrogen	13 gal/acre	1,008.8 gal	\$53.37	\$4,141.33
	Actagro Liquid Humus 0-0-4	Potash	2 qt/acre	38.8 gal	\$7.50	\$582.00
	Winfield Liquid Zinc 7%	Sulfur and Zinc	1 pt/acre	9.7 gal	\$0.75	\$58.20
	Moncut 70-DF	Flutolanil	0.75 lbs/acre	58.2 lbs	\$27.00	\$2,095.20
					Total	\$9,012.28
					Total	\$92,075.23

Springfield Aerial Overview

Alfalfa  Sugar Beet  Wheat - winter 



GROSS PROFIT BY ROTATION HISTORY - Springfield

FIELD	2016
Thompson South (Map: THS)	Wheat - winter Brundage 96 \$299.35 /acre
Thompson Springfield (Map: THS)	Sugar Beet BTS 20RR28 \$1,264.58 /acre
Winberg North (Map: WIN)	Sugar Beet BTS 20RR28 \$1,459.31 /acre
Winberg South (Map: WIS)	Sugar Beet BTS 20RR28 \$1,224.29 /acre
Wynn Homestead (Map: WYH)	Alfalfa LegenDairy XHD \$248.51 /acre
Wynn Springfield (Map: WYS)	Alfalfa LegenDairy XHD \$286.05 /acre

Thompson South

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$165.65 /acre Total: \$12,423.75	\$465.00 /acre Total: \$34,875.00	\$299.35 /acre Total: \$22,451.25	64.38 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
75 acre	124 bu/acre	\$3.75 /bu	\$0.00	\$34,875.00

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS	OPERATIONS	OTHER COSTS	TOTAL COST
\$9.96 /acre	\$75.44 /acre	\$33.75 /acre	\$0.00 /acre	\$46.50 /acre	\$0.00 /acre	\$165.65 /acre

ROTATION HISTORY

2016

Wheat - winter

75 acre | Brundage 96

Active Ingredients: K2O 50.4 lbs/acreN 110.95 lbs/acrePhosphate 50.44 lbs/acre

ACTIVITIES

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Irrigation 75 acre Oct 14, 2016	Irrigation		1 acre/acre	75 acre	\$10.00	\$750.00
					Total	\$750.00
Harvest 75 acre Oct 14, 2016	Harvest		1 acre/acre	75 acre	\$4.50	\$337.50
					Total	\$337.50
Planting 75 acre Oct 14, 2016	Planting		1 acre/acre	75 acre	\$4.00	\$300.00
	Brundage 96		120 lbs/acre	9,000 lbs	\$9.96	\$747.00
					Total	\$1,047.00
Ethephon 75 acre Oct 14, 2016	Water Rate		5 gal/acre	375 gal		
	MANA Ethephon 2SL	Ethephon	1.5 pt/acre	14.06 gal	\$15.00	\$1,125.00
	Spray/aerial		1 acre/acre	75 acre	\$8.00	\$600.00
	Aerial Spraying	Propiconazole	4 floz/acre	2.34 gal	\$1.87	\$140.63
					Total	\$1,865.63
Herbicide Application 75 acre Oct 14, 2016	Water Rate		15 gal/acre	1,125 gal		
	Huskie Herbicide	Bromoxynil Octanoic Acid Ester, Pyrasulfotole, and Bromoxynil Heptanoate	15 floz/acre	8.79 gal	\$9.38	\$703.13
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	16 floz/acre	9.38 gal	\$2.50	\$187.50
	DuPont Aproach Fungicide	Picoxystrobin (stobilurin)	4 floz/acre	2.34 gal	\$5.00	\$375.00
	Spray/herbicide		1 acre/acre	75 acre	\$10.00	\$750.00
					Total	\$2,015.63

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Spring Fertilizer 75 acre Oct 14, 2016 Spreader	Andersons 46-0-0	Nitrogen	218 lbs/acre	16,350 lbs	\$39.24	\$2,943.00
	Muriate of Potash 0-0-60	Potash	84 lbs/acre	6,300 lbs	\$16.80	\$1,260.00
	Agrium 11-52-0 MAP	Nitrogen and Phosphate	97 lbs/acre	7,275 lbs	\$19.40	\$1,455.00
	Spreading fertilizer		1 acre/acre	75 acre	\$10.00	\$750.00
					Total \$6,408.00	Total \$12,423.75

Thompson Springfield

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$289.23 /acre Total: \$68,529.78	\$1,553.81 /acre Total: \$368,160.00	\$1,264.58 /acre Total: \$299,630	81.39 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
236.94 acre	38.85 ton/acre	\$40.00 /ton	\$0.00	\$368,160.00

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS	OPERATIONS	OTHER COSTS	TOTAL COST
\$70.00 /acre	\$56.52 /acre	\$46.71 /acre	\$0.00 /acre	\$116.00 /acre	\$0.00 /acre	\$289.23 /acre

ROTATION HISTORY

2016

Sugar Beet

236.94 acre | BTS 20RR28

Active Ingredients: N 79.92 lbs/acre

ACTIVITIES

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Sugar Beet Fertilizer 236.94 acre Oct 14, 2016	Valley 32-0-0	Nitrogen	22.5 gal/acre	5,331.15 gal	\$56.52	\$13,391.48
						Total \$13,391.48
Irrigation 236.94 acre Oct 14, 2016	Irrigation		1 acre/acre	236.94 acre	\$15.00	\$3,554.10
						Total \$3,554.10
Sugar Beet Harvest 236.94 acre Oct 14, 2016	Harvest		1 acre/acre	236.94 acre	\$50.00	\$11,847.00
						Total \$11,847.00
Sugar Beets-Fungicide-Topaz, Micronized Sulfur, Masterlock 236.94 acre Oct 14, 2016 Aerial Spraying	Topaz	Propiconazole	4 floz/acre	7.4 gal	\$2.66	\$629.37
	UPI Microthiol Disperss	Sulfur	2 lbs/acre	473.88 lbs	\$7.46	\$1,767.57
	Masterlock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil, and soybean oil, ethoxylated	6 floz/acre	11.11 gal	\$1.27	\$299.88
	Spray/aerial		1 acre/acre	236.94 acre	\$10.00	\$2,369.40
						Total \$5,066.22

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Sugar Beets- Herbicide/ Insecticide- Round-Up PM, Class Act NG, Chlorpyrifos 4E, Interlock 236.94 acre Oct 14, 2016 Broadcast	Water Rate		10 gal/acre	2,369.4 gal		
	Roundup PowerMAX Herbicide	Glyphosate as the Potassium Salt	32 floz/acre	59.24 gal	\$6.50	\$1,540.11
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	16 floz/acre	29.62 gal	\$1.75	\$414.65
	Arysta Chlorpyrifos 4E AG	Chlorpyrifos	1.5 pt/acre	44.43 gal	\$11.44	\$2,710.00
	InterLock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil	4 floz/acre	7.4 gal	\$2.06	\$488.69
	Boomspray application		1 acre/acre	236.94 acre	\$8.00	\$1,895.52
					Total	\$7,048.97
Sugar Beets- Herbicide/ Insecticide- Round Up Power Max, Stallion, Class Act, Interlock 236.94 acre Oct 14, 2016 Boomspray	Roundup PowerMAX Herbicide	Glyphosate as the Potassium Salt	24 floz/acre	44.43 gal	\$4.87	\$1,155.08
	Stallion EC Insecticide	Zeta-cypermethrin and Chlorpyrifos	8.5 floz/acre	15.73 gal	\$6.64	\$1,573.43
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	2.5 gal/100gal	0 gal	\$0.00	\$0.00
	InterLock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil	4 floz/acre	7.4 gal	\$2.06	\$488.69
		Boomspray application		1 acre/acre	236.94 acre	\$8.00
					Total	\$5,112.72
Planting 236.94 acre Oct 14, 2016	Planting		1 acre/acre	236.94 acre	\$25.00	\$5,923.50
	BTS 20RR28		140 lbs/acre	33,171.6 lbs	\$70.00	\$16,585.80
					Total	\$22,509.30
					Total	\$68,529.78

Winberg North

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$217.71 /acre Total: \$23,336.33	\$1,677.02 /acre Total: \$179,760.00	\$1,459.31 /acre Total: \$156,424	87.02 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
107.19 acre	41.93 ton/acre	\$40.00 /ton	\$0.00	\$179,760.00

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS	OPERATIONS	OTHER COSTS	TOTAL COST
\$70.00 /acre	\$0.00 /acre	\$46.71 /acre	\$0.00 /acre	\$101.00 /acre	\$0.00 /acre	\$217.71 /acre

ROTATION HISTORY

2016

Sugar Beet

107.19 acre | BTS 20RR28

ACTIVITIES

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Sugar Beets- Herbicide/ Insecticide- Round Up Power Max, Stallion, Class Act, Interlock 107.19 acre Oct 14, 2016 Boomspray	Roundup PowerMAX Herbicide	Glyphosate as the Potassium Salt	24 floz/acre	20.1 gal	\$4.88	\$522.55
	Stallion EC Insecticide	Zeta-cypermethrin and Chlorpyrifos	8.5 floz/acre	7.12 gal	\$6.64	\$711.81
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	2.5 gal/100gal	0 gal	\$0.00	\$0.00
	InterLock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil	4 floz/acre	3.35 gal	\$2.06	\$221.08
	Boomspray application		1 acre/acre	107.19 acre	\$8.00	\$857.52
					Total	\$2,312.96
Sugar Beets- Herbicide/ Insecticide- Round-Up PM, Class Act NG, Clorpyrifos 4E, Interlock 107.19 acre Oct 14, 2016 Broadcast	Water Rate		10 gal/acre	1,071.9 gal		
	Roundup PowerMAX Herbicide	Glyphosate as the Potassium Salt	32 floz/acre	26.8 gal	\$6.50	\$696.73
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	16 floz/acre	13.4 gal	\$1.75	\$187.58
	Arysta Chlorpyrifos 4E AG	Chlorpyrifos	1.5 pt/acre	20.1 gal	\$11.44	\$1,225.99
	InterLock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil	4 floz/acre	3.35 gal	\$2.06	\$221.08
	Boomspray application		1 acre/acre	107.19 acre	\$8.00	\$857.52
					Total	\$3,188.90

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Sugar Beets- Fungicide- Topaz, Micronized Sulfur, Masterlock 107.19 acre Oct 14, 2016 Aerial Spraying	Topaz	Propiconazole	4 floz/acre	3.35 gal	\$2.66	\$284.72
	UPI Microthiol Disperss	Sulfur	2 lbs/acre	214.38 lbs	\$7.46	\$799.64
	Masterlock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil, and soybean oil, ethoxylated	6 floz/acre	5.02 gal	\$1.27	\$135.66
	Spray/aerial		1 acre/acre	107.19 acre	\$10.00	\$1,071.90
					Total	\$2,291.92
Sugar Beet Harvest 107.19 acre Oct 14, 2016	Harvest		1 acre/acre	107.19 acre	\$50.00	\$5,359.50
					Total	\$5,359.50
Planting 107.19 acre Oct 14, 2016	Planting		1 acre/acre	107.19 acre	\$25.00	\$2,679.75
	BTS 20RR28		140 lbs/acre	15,006.6 lbs	\$70.00	\$7,503.30
					Total	\$10,183.05
					Total	\$23,336.33

Winberg South

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$289.23 /acre Total: \$36,598.96	\$1,513.51 /acre Total: \$191,520.00	\$1,224.29 /acre Total: \$154,921	80.89 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
126.54 acre	37.84 ton/acre	\$40.00 /ton	\$0.00	\$191,520.00

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS	OPERATIONS	OTHER COSTS	TOTAL COST
\$70.00 /acre	\$56.52 /acre	\$46.71 /acre	\$0.00 /acre	\$116.00 /acre	\$0.00 /acre	\$289.23 /acre

ROTATION HISTORY

2016

Sugar Beet

126.54 acre | BTS 20RR28

Active Ingredients: N 79.92 lbs/acre

ACTIVITIES

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Sugar Beet Fertilizer 126.54 acre Oct 14, 2016	Valley 32-0-0	Nitrogen	22.5 gal/acre	2,847.15 gal	\$56.52	\$7,151.84
					Total	\$7,151.84
Irrigation 126.54 acre Oct 14, 2016	Irrigation		1 acre/acre	126.54 acre	\$15.00	\$1,898.10
					Total	\$1,898.10
Sugar Beet Harvest 126.54 acre Oct 14, 2016	Harvest		1 acre/acre	126.54 acre	\$50.00	\$6,327.00
					Total	\$6,327.00
Sugar Beets-Fungicide-Topaz, Micronized Sulfur, Masterlock 126.54 acre Oct 14, 2016 Aerial Spraying	Topaz UPI Microthiol Disperss	Propiconazole Sulfur	4 floz/acre 2 lbs/acre	3.95 gal 253.08 lbs	\$2.66 \$7.46	\$336.12 \$943.99
	Masterlock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil, and soybean oil, ethoxylated	6 floz/acre	5.93 gal	\$1.27	\$160.15
	Spray/aerial		1 acre/acre	126.54 acre	\$10.00	\$1,265.40
					Total	\$2,705.66

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Sugar Beets- Herbicide/ Insecticide- Round-Up PM, Class Act NG, Chlorpyrifos 4E, Interlock 126.54 acre Oct 14, 2016 Broadcast	Water Rate		10 gal/acre	1,265.4 gal		
	Roundup PowerMAX Herbicide	Glyphosate as the Potassium Salt	32 floz/acre	31.64 gal	\$6.50	\$822.51
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	16 floz/acre	15.82 gal	\$1.75	\$221.45
	Arysta Chlorpyrifos 4E AG	Chlorpyrifos	1.5 pt/acre	23.73 gal	\$11.44	\$1,447.30
	InterLock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil	4 floz/acre	3.95 gal	\$2.06	\$260.99
	Boomspray application		1 acre/acre	126.54 acre	\$8.00	\$1,012.32
					Total	\$3,764.57
Sugar Beets- Herbicide/ Insecticide- Round Up Power Max, Stallion, Class Act, Interlock 126.54 acre Oct 14, 2016 Boomspray	Roundup PowerMAX Herbicide	Glyphosate as the Potassium Salt	24 floz/acre	23.73 gal	\$4.88	\$616.88
	Stallion EC Insecticide	Zeta-cypermethrin and Chlorpyrifos	8.5 floz/acre	8.4 gal	\$6.64	\$840.30
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	2.5 gal/100gal	0 gal	\$0.00	\$0.00
	InterLock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil	4 floz/acre	3.95 gal	\$2.06	\$260.99
		Boomspray application		1 acre/acre	126.54 acre	\$8.00
					Total	\$2,730.50
Planting 126.54 acre Oct 14, 2016	Planting		1 acre/acre	126.54 acre	\$25.00	\$3,163.50
	BTS 20RR28		140 lbs/acre	17,715.6 lbs	\$70.00	\$8,857.80
					Total	\$12,021.30
					Total	\$36,598.96

Wynn Homestead

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$105.12 /acre Total: \$4,815.72	\$353.63 /acre Total: \$16,200.00	\$248.51 /acre Total: \$11,384.28	70.27 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
45.81 acre	5.89 ton/acre	\$60.00 /ton	\$0.00	\$16,200.00

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS OPERATIONS	OTHER COSTS	TOTAL COST
\$0.00 /acre	\$73.56 /acre	\$15.56 /acre	\$0.00 /acre	\$16.00 /acre	\$105.12 /acre

ROTATION HISTORY

2016

Alfalfa

45.81 acre | LegenDairy XHD

Active Ingredients: K2O 0.1 lbs/acre N 8.62 lbs/acre Organic acids including Humic and Fulvic 1.52 lbs/acre Phosphate 4.58 lbs/acre Potash 2.74 lbs/acre Zn 0.04 lbs/acre

ACTIVITIES

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ACRE	COST
Alfalfa- Herbicide- Round-Up PM, Class Act, Interlock 45.81 acre Oct 14, 2016 Boomspray	Water Rate		10 gal/acre	458.1 gal		
	Roundup PowerMAX Herbicide	Glyphosate as the Potassium Salt	32 floz/acre	11.45 gal	\$6.50	\$297.77
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	5 gal/100gal	22.91 gal	\$7.00	\$320.67
	InterLock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil	4 floz/acre	1.43 gal	\$2.06	\$94.48
	Boomspray application		1 acre/acre	45.81 acre	\$8.00	\$366.48
					Total \$1,079.40	
Alfalfa Foliar 45.81 acre Oct 14, 2016 Boomspray	Actagro Structure 7-21-0	Organic acids including Humic and Fulvic, Nitrogen, Phosphate, and Zinc	2 gal/acre	91.62 gal	\$16.00	\$732.96
	Valley 32-0-0	Nitrogen	2 gal/acre	91.62 gal	\$5.02	\$230.14
	Actagro Katalyst 0-0-25	Potash	1 gal/acre	45.81 gal	\$15.00	\$687.15
	Actagro Liquid Humus 0-0-4	Potash	1 qt/acre	11.45 gal	\$37.54	\$1,719.59
	Boomspray application		1 acre/acre	45.81 acre	\$8.00	\$366.48
					Total \$3,736.33	
					Total \$4,815.72	

Wynn Springfield

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$105.12 /acre Total: \$7,336.59	\$391.17 /acre Total: \$27,300.00	\$286.05 /acre Total: \$19,963.41	73.13 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
69.79 acre	6.02 ton/acre	\$65.00 /ton	\$0.00	\$27,300.00

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS	OPERATIONS	OTHER COSTS	TOTAL COST
\$0.00 /acre	\$73.56 /acre	\$15.56 /acre	\$0.00 /acre	\$16.00 /acre	\$0.00 /acre	\$105.12 /acre

ROTATION HISTORY

2016

Alfalfa

69.79 acre | LegenDairy XHD

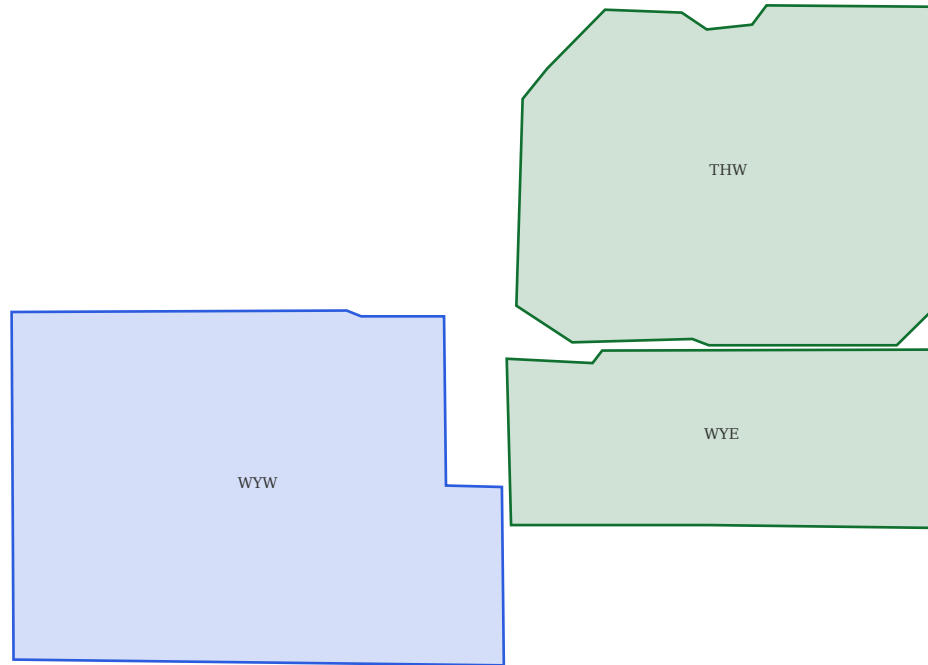
Active Ingredients: K2O 0.1 lbs/acre N 8.62 lbs/acre Organic acids including Humic and Fulvic 1.52 lbs/acre Phosphate 4.58 lbs/acre Potash 2.74 lbs/acre Zn 0.04 lbs/acre

ACTIVITIES

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ACRE	COST
Alfalfa- Herbicide- Round-Up PM, Class Act, Interlock 69.79 acre Oct 14, 2016 Boomspray	Water Rate		10 gal/acre	697.9 gal		
	Roundup PowerMAX Herbicide	Glyphosate as the Potassium Salt	32 floz/acre	17.45 gal	\$6.50	\$453.64
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	5 gal/100gal	34.9 gal	\$7.00	\$488.53
	InterLock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil	4 floz/acre	2.18 gal	\$2.06	\$143.94
	Boomspray application		1 acre/acre	69.79 acre	\$8.00	\$558.32
					Total \$1,644.43	
Alfalfa Foliar 69.79 acre Oct 14, 2016 Boomspray	Actagro Structure 7-21-0	Organic acids including Humic and Fulvic, Nitrogen, Phosphate, and Zinc	2 gal/acre	139.58 gal	\$16.00	\$1,116.64
	Valley 32-0-0	Nitrogen	2 gal/acre	139.58 gal	\$5.02	\$350.62
	Actagro Katalyst 0-0-25	Potash	1 gal/acre	69.79 gal	\$15.00	\$1,046.85
	Actagro Liquid Humus 0-0-4	Potash	1 qt/acre	17.45 gal	\$37.54	\$2,619.74
	Boomspray application		1 acre/acre	69.79 acre	\$8.00	\$558.32
					Total \$5,692.17	
					Total \$7,336.59	

Wynn Aerial Overview

Potato ■ Sugar Beet ■



GROSS PROFIT BY ROTATION HISTORY - Wynn

FIELD	2016
Thompson West (Map: THW)	Sugar Beet BTS 20RR28 \$1,310.77 /acre
Wynn East (Map: WYE)	Sugar Beet Crystal A399NT \$1,294.72 /acre
Wynn West (Map: WYW)	Potato Russet Burbank -\$488.22 /acre

Thompson West

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$289.23 /acre Total: \$37,012.56	\$1,600.00 /acre Total: \$204,752	\$1,310.77 /acre Total: \$167,739	81.92 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
127.97 acre	40 ton/acre	\$40.00 /ton	\$0.00	\$204,752.00

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS	OPERATIONS	OTHER COSTS	TOTAL COST
\$70.00 /acre	\$56.52 /acre	\$46.71 /acre	\$0.00 /acre	\$116.00 /acre	\$0.00 /acre	\$289.23 /acre

ROTATION HISTORY

2016

Sugar Beet

127.97 acre | BTS 20RR28

Active Ingredients: N 79.92 lbs/acre

ACTIVITIES

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Sugar Beet Fertilizer 127.97 acre Oct 14, 2016	Valley 32-0-0	Nitrogen	22.5 gal/acre	2,879.33 gal	\$56.52	\$7,232.66
					Total	\$7,232.66
Irrigation 127.97 acre Oct 14, 2016	Irrigation		1 acre/acre	127.97 acre	\$15.00	\$1,919.55
					Total	\$1,919.55
Sugar Beet Harvest 127.97 acre Oct 14, 2016	Harvest		1 acre/acre	127.97 acre	\$50.00	\$6,398.50
					Total	\$6,398.50
Sugar Beets-Fungicide-Topaz, Micronized Sulfur, Masterlock 127.97 acre Oct 14, 2016 Aerial Spraying	Topaz UPI Microthiol Disperss	Propiconazole Sulfur	4 floz/acre 2 lbs/acre	4 gal 255.94 lbs	\$2.66 \$7.46	\$339.92 \$954.66
	Masterlock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil, and soybean oil, ethoxylated	6 floz/acre	6 gal	\$1.27	\$161.96
	Spray/aerial		1 acre/acre	127.97 acre	\$10.00	\$1,279.70
					Total	\$2,736.24

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Sugar Beets- Herbicide/ Insecticide- Round-Up PM, Class Act NG, Chlorpyrifos 4E, Interlock 127.97 acre Oct 14, 2016 Broadcast	Water Rate		10 gal/acre	1,279.7 gal		
	Roundup PowerMAX Herbicide	Glyphosate as the Potassium Salt	32 floz/acre	31.99 gal	\$6.50	\$831.81
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	16 floz/acre	16 gal	\$1.75	\$223.95
	Arysta Chlorpyrifos 4E AG	Chlorpyrifos	1.5 pt/acre	23.99 gal	\$11.44	\$1,463.66
	InterLock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil	4 floz/acre	4 gal	\$2.06	\$263.94
	Boomspray application		1 acre/acre	127.97 acre	\$8.00	\$1,023.76
					Total	\$3,807.11
Sugar Beets- Herbicide/ Insecticide- Round Up Power Max, Stallion, Class Act, Interlock 127.97 acre Oct 14, 2016 Boomspray	Roundup PowerMAX Herbicide	Glyphosate as the Potassium Salt	24 floz/acre	23.99 gal	\$4.88	\$623.85
	Stallion EC Insecticide	Zeta-cypermethrin and Chlorpyrifos	8.5 floz/acre	8.5 gal	\$6.64	\$849.80
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	2.5 gal/100gal	0 gal	\$0.00	\$0.00
	InterLock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil	4 floz/acre	4 gal	\$2.06	\$263.94
		Boomspray application		1 acre/acre	127.97 acre	\$8.00
					Total	\$2,761.35
Planting 127.97 acre Oct 14, 2016	Planting		1 acre/acre	127.97 acre	\$25.00	\$3,199.25
	BTS 20RR28		140 lbs/acre	17,915.8 lbs	\$70.00	\$8,957.90
					Total	\$12,157.15
					Total	\$37,012.56

Wynn East

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$293.43 /acre Total: \$20,988.94	\$1,588.14 /acre Total: \$113,600.00	\$1,294.72 /acre Total: \$92,611.06	81.52 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
71.53 acre	39.7 ton/acre	\$40.00 /ton	\$0.00	\$113,600.00

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS	OPERATIONS	OTHER COSTS	TOTAL COST
\$74.20 /acre	\$56.52 /acre	\$46.71 /acre	\$0.00 /acre	\$116.00 /acre	\$0.00 /acre	\$293.43 /acre

ROTATION HISTORY

2016

Sugar Beet

71.53 acre | Crystal A399NT

Active Ingredients: N 79.92 lbs/acre

ACTIVITIES

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Sugar Beet Fertilizer 71.53 acre Oct 14, 2016	Valley 32-0-0	Nitrogen	22.5 gal/acre	1,609.43 gal	\$56.52	\$4,042.76
Total						\$4,042.76
Irrigation 71.53 acre Oct 14, 2016	Irrigation		1 acre/acre	71.53 acre	\$15.00	\$1,072.95
Total						\$1,072.95
Sugar Beet Harvest 71.53 acre Oct 14, 2016	Harvest		1 acre/acre	71.53 acre	\$50.00	\$3,576.50
Total						\$3,576.50
Sugar Beets-Fungicide-Topaz, Micronized Sulfur, Masterlock 71.53 acre Oct 14, 2016	Topaz UPI Microthiol Disperss	Propiconazole Sulfur	4 floz/acre 2 lbs/acre	2.24 gal 143.06 lbs	\$2.66 \$7.46	\$190.00 \$533.61
Masterlock 71.53 acre Oct 14, 2016	Masterlock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil, and soybean oil, ethoxylated	6 floz/acre	3.35 gal	\$1.27	\$90.53
Aerial Spraying	Spray/aerial		1 acre/acre	71.53 acre	\$10.00	\$715.30
Total						\$1,529.45

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Sugar Beets- Herbicide/ Insecticide- Round-Up PM, Class Act NG, Clorpyrifos 4E, Interlock 71.53 acre Oct 14, 2016 Broadcast	Water Rate		10 gal/acre	715.3 gal		
	Roundup PowerMAX Herbicide	Glyphosate as the Potassium Salt	32 floz/acre	17.88 gal	\$6.50	\$464.95
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	16 floz/acre	8.94 gal	\$1.75	\$125.18
	Arysta Chlorpyrifos 4E AG	Chlorpyrifos	1.5 pt/acre	13.41 gal	\$11.44	\$818.12
	InterLock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil	4 floz/acre	2.24 gal	\$2.06	\$147.53
	Boomspray application		1 acre/acre	71.53 acre	\$8.00	\$572.24
					Total	\$2,128.02
Sugar Beets- Herbicide/ Insecticide- Round Up Power Max, Stallion, Class Act, Interlock 71.53 acre Oct 14, 2016 Boomspray	Roundup PowerMAX Herbicide	Glyphosate as the Potassium Salt	24 floz/acre	13.41 gal	\$4.88	\$348.71
	Stallion EC Insecticide	Zeta-cypermethrin and Chlorpyrifos	8.5 floz/acre	4.75 gal	\$6.64	\$475.00
	Class Act NG	Ammonium sulfate, corn syrup, alkyl polyglycoside	2.5 gal/100gal	0 gal	\$0.00	\$0.00
	InterLock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil	4 floz/acre	2.24 gal	\$2.06	\$147.53
		Boomspray application		1 acre/acre	71.53 acre	\$8.00
					Total	\$1,543.48
Planting 71.53 acre Oct 14, 2016	Crystal A399NT		140 lbs/acre	10,014.2 lbs	\$74.20	\$5,307.53
	Planting		1 acre/acre	71.53 acre	\$25.00	\$1,788.25
					Total	\$7,095.78
					Total	\$20,988.94

Wynn West

FIELD SUMMARY

Costs	Income	Gross Profit	Gross Margin
\$1,185.79 /acre Total: \$184,437	\$697.57 /acre Total: \$108,500.00	-\$488.22 /acre Total: -\$75,937.23	-69.99 %

INCOME SUMMARY

AREA	YIELD	PRICE	OTHER INCOME	TOTAL INCOME
155.54 acre	24.91 ton/acre	\$28.00 /ton	\$0.00	\$108,500.00

COST SUMMARY

SEED	FERTILIZER	CHEMICALS	CONTRACTORS	OPERATIONS	OTHER COSTS	TOTAL COST
\$2.52 /acre	\$544.47 /acre	\$429.80 /acre	\$0.00 /acre	\$209.00 /acre	\$0.00 /acre	\$1,185.79 /acre

ROTATION HISTORY

2016

Potato

155.54 acre | Russet Burbank

Active Ingredients: K2O 0.2 lbs/acreMg 10.04 lbs/acreMn 2 lbs/acreN 352.06 lbs/acreOrganic acids including Humic and Fulvic 5.32 lbs/acrePhosphate 209.65 lbs/acrePotash 110.46 lbs/acreS 412.3 lbs/acreZn 8.15 lbs/acre

ACTIVITIES

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Potato Irrigation/ Fertigation 155.54 acre Oct 14, 2016 Fertigation	Irrigation		1 acre/acre	155.54 acre	\$15.00	\$2,333.10
	Valley 32-0-0	Nitrogen	55 gal/acre	8,554.7 gal	\$138.16	\$21,488.81
	Thio-Sul 12-0-0	Nitrogen and Sulfur	18.15 gal/acre	2,823.05 gal	\$30.69	\$4,773.16
	Actagro Structure 7-21-0	Organic acids including Humic and Fulvic, Nitrogen, Phosphate, and Zinc	7 gal/acre	1,088.78 gal	\$56.00	\$8,710.24
					Total	\$37,305.30
Potato Spring Fertilizer 155.54 acre Oct 14, 2016 Fertiliser Application	Valley 21-0-0-24s	Nitrogen and Sulfur	380 lbs/acre	59,105.2 lbs	\$57.46	\$8,936.71
	Variable Rate Ground - spreading 1		1 acre/acre	155.54 acre	\$10.00	\$1,555.40
					Total	\$10,492.11

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
Potato Fall Fertilizer 155.54 acre Oct 14, 2016 Fertiliser Application	Valley 12-45-0-5-1Z	Sulfur, Nitrogen, Phosphate, and Zinc	302 lbs/acre	46,973.08 lbs	\$82.26	\$12,795.47
	Valley 0-0-60	Potash	150 lbs/acre	23,331 lbs	\$25.92	\$4,031.60
	K-Mag	Potash, Magnesium, and Sulfur	93 lbs/acre	14,465.22 lbs	\$25.44	\$3,957.68
	Elemental Sulphur 85%	Sulfur	117 lbs/acre	18,198.18 lbs	\$27.38	\$4,258.37
	Power Zinc 35 Granular	Sulfur and Zinc	14 lbs/acre	2,177.56 lbs	\$7.93	\$1,233.37
	Agfinity Manganese Sulfate 32%	Sulfur and Manganese	6.25 lbs/acre	972.13 lbs	\$4.61	\$717.43
	Variable Rate Ground - spreading 1		1 acre/acre	155.54 acre	\$14.00	\$2,177.56
					Total	\$29,171.48
Potato Prep Fumigation 155.54 acre Oct 14, 2016 Soil Shank Injection	Vapam HL Soil Fumigant	Metam-Sodium	40 gal/acre	6,221.6 gal	\$240.00	\$37,329.60
	Deep Ripping		1 acre/acre	155.54 acre	\$40.00	\$6,221.60
					Total	\$43,551.20
Stubble Digest Sulfuric Acid 155.54 acre Oct 14, 2016 Boomspray	Sulfuric Acid	Sulfur	30 gal/acre	4,666.2 gal	\$27.00	\$4,199.58
	Boomspray - contract		1 acre/acre	155.54 acre	\$12.00	\$1,866.48
					Total	\$6,066.06
Potatoes-Fungicide/Insecticide-Zing!, Abba Ultra, Masterlock 155.54 acre Oct 14, 2016 Aerial Spraying	Zing!	Zoxamide and Chlorothalonil	1 qt/acre	38.88 gal	\$17.50	\$2,721.95
	ABBA Ultra	Abamectin	8 floz/acre	9.72 gal	\$6.56	\$1,020.73
	Masterlock	Modified vegetable oil, polyoxyethylene sorbitan fatty acid ester, vegetable oil, and soybean oil, ethoxylated	6 floz/acre	7.29 gal	\$1.17	\$182.27
	Spray/aerial		1 acre/acre	155.54 acre	\$10.00	\$1,555.40
					Total	\$5,480.35
Potato Harvest 155.54 acre Oct 14, 2016	Harvest		1 acre/acre	155.54 acre	\$50.00	\$7,777.00
					Total	\$7,777.00
Potatoes-Desiccant-Reglone, Parazone, Aduro 155.54 acre Oct 14, 2016 Self Propelled Boomspray	Water Rate		20 gal/acre	3,110.8 gal		
	Reglone Desiccant	Diquat as the diquat dibromide	2 pt/acre	38.88 gal	\$23.25	\$3,616.31
	Parazone 3SL	Paraquat Dichloride	1 pt/acre	19.44 gal	\$3.75	\$583.27
	Aduro	Monocarbamide dihydrogen sulfate, alkyl amine ethoxylate, 1,2,3-trihydroxypropane	2 pt/100gal	7.78 gal	\$1.10	\$171.09
	Boomspray application		1 acre/acre	155.54 acre	\$8.00	\$1,244.32
					Total	\$5,614.99
Potato Seed Cutting 155.54 acre Oct 14, 2016	Seed - Treatment		1 acre/acre	155.54 acre	\$1.00	\$155.54
	Advise Four Flowable Insecticide	Imidacloprid	4 floz/100lb	0 gal	\$0.00	\$0.00
	Power-Line Potato Seed Treat Mancozeb 6% Plus Bark	Mancozeb	0.75 lbs/100lb	0 lbs	\$0.00	\$0.00
					Total	\$155.54

SITUATION/ TIMING	INPUTS	ACTIVE	APPLY	UNITS	COST/ ACRE	COST
White Mold/ Early Blight Application 155.54 acre Oct 14, 2016 Self Propelled Boomspray	Luna Tranquility	Fluopyram and Pyrimethanil	11 floz/acre	13.37 gal	\$34.38	\$5,346.69
	Boomspray application		1 acre/acre	155.54 acre	\$8.00	\$1,244.32
					Total	\$6,591.01
White Mold/ Early Blight 155.54 acre Oct 14, 2016 Boomspray	Endura Fungicide	Boscalid	6 oz/acre	58.33 lbs	\$33.60	\$5,226.14
	UPI Manzate Pro Stick	Mancozeb	1 lbs/acre	155.54 lbs	\$5.70	\$886.58
	Boomspray application		1 acre/acre	155.54 acre	\$8.00	\$1,244.32
					Total	\$7,357.04
Potato Herbicide 155.54 acre Oct 14, 2016 Self Propelled Boomspray	Prowl H2O Herbicide	Pendimethalin	1.5 pt/acre	29.16 gal	\$9.00	\$1,399.86
	Boundary 6.5 EC Herbicide	Metribuzin and S- Metolachlor	2 pt/acre	38.88 gal	\$22.50	\$3,499.65
	Dimetric DF 75%	Metribuzin	0.33 lbs/acre	51.33 lbs	\$4.29	\$667.27
	Boomspray application		1 acre/acre	155.54 acre	\$8.00	\$1,244.32
					Total	\$6,811.10
Potato Planting 155.54 acre Oct 14, 2016	Planting		1 acre/acre	155.54 acre	\$25.00	\$3,888.50
	Russet Burbank		28 lbs/acre	4,355.12 lbs	\$2.52	\$391.96
	Valley 11-37-0	Phosphate and Nitrogen	13 gal/acre	2,022.02 gal	\$53.37	\$8,300.80
	Actagro Liquid Humus 0-0-4	Potash	2 qt/acre	77.77 gal	\$7.50	\$1,166.55
	Winfield Liquid Zinc 7%	Sulfur and Zinc	1 pt/acre	19.44 gal	\$0.75	\$116.65
	Moncut 70-DF	Flutolanil	0.75 lbs/acre	116.65 lbs	\$27.00	\$4,199.58
					Total	\$18,064.04
					Total	\$184,437.23

Notes:

¹ These seasons contain aggregate values because the field was split/grouped.

² All costs per acre are divided by the area of the field. All yields are calculated based on the area of the field in this season.