

Cost of Production - Sweet Potato		Unit	Qty/acre	Cost/Unit	Total/acre
Variable Costs					
Pre-Harvest					
Land preparation					
	Soil sampling (nutrient analysis)	Acre	1.00	15.00	15.00
	Lime/Gypsum	ton	1.00	55.00	55.00
	34-0-0	lb	220.00	0.28	60.83
	0-0-60	lb	120.00	0.23	27.10
	Labor	Hours	2.00	19.28	38.56
Planting					
	Slips Sweet Potato	thou	11.00	250.00	2,750.00
Herbicide					
	Flumioxazin	oz	3.00	2.05	6.15
	Sethoxydim	oz	23.00	0.98	22.60
	S-metolachlor	pt	0.80	7.56	6.05
Fungicide					
	Cyprodinil Fludioxonil	oz	14.00	3.20	44.80
	Azoxystrobin	oz	14.00	0.80	11.17
	Difenoconazole; Benzovindiflupyr	oz	20.00	2.22	44.38
Insecticide					
	Bifenthrin	oz	18.00	0.50	9.07
	Imidacloprid	oz	10.00	0.82	8.24
Herb.; Fung.; Insect.					
	Labor	Hours	10.00	19.28	192.80
Irrigation system					
	Running irrigation system Sprinkler	\$	1.00	110.09	110.09
	Labor	Hours	8.00	19.28	154.24
Harvest					
	Labor	Hours	20.00	19.28	385.60
	Box Sweet Potato - 40 lb bottom	Each	500.00	1.00	500.00
Overall					
Machinery					
Labor					
	Disk + Incorporate 10 with 2WD 75 hp with	hrs/acre	0.21	6.94	1.49
	Spray (Broadcast) 27 with 2WD 75 hp with	hrs/acre	0.07	6.94	0.45
	Cultivate 1-Row with 2WD 75 hp with	hrs/acre	0.44	6.94	3.08
	Fert-Side Dresser 1R 3' with 2WD 75 hp with	hrs/acre	0.64	6.94	4.42
	Plntr/Transplanter 1-Row with 2WD with 75 hp	hrs/acre	3.95	6.94	27.40
	Harvester,Swt.Potato 2 Row with MFWD 170 with	hrs/acre	4.27	6.94	29.64
Fuel					
	Disk + Incorporate 10 with 2WD 75 hp with	gal/acre	0.42	3.09	1.28
	Spray (Broadcast) 27 with 2WD 75 hp with	gal/acre	0.13	3.09	0.39
	Cultivate 1-Row with 2WD 75 hp with	gal/acre	1.19	3.09	3.67
	Fert-Side Dresser 1R 3' with 2WD 75 hp with	gal/acre	1.71	3.09	5.27
	Plntr/Transplanter 1-Row with 2WD with 75 hp	gal/acre	3.20	3.09	9.90
	Harvester,Swt.Potato 2 Row with MFWD 170 with	gal/acre	4.63	3.09	14.30
R&M					
	Disk + Incorporate 10 with 2WD 75 hp with	\$/acre	0.05	1.16	0.06
	Spray (Broadcast) 27 with 2WD 75 hp with	\$/acre	0.01	0.24	0.00
	Cultivate 1-Row with 2WD 75 hp with	\$/acre	0.05	0.70	0.04
	Fert-Side Dresser 1R 3' with 2WD 75 hp with	\$/acre	0.05	3.20	0.16
	Plntr/Transplanter 1-Row with 2WD with 75 hp	\$/acre	0.05	1.79	0.09
	Harvester,Swt.Potato 2 Row with MFWD 170 with	\$/acre	0.02	11.55	0.23
	Irrigation System R&M Sprinkler	\$/acre	1.00	43.50	43.50
Cleanup field					
	Labor	Hours	2.00	19.28	38.56
Interest on operating expenses					
	Interest rate	%	4,750.61	0.09	831.36
	Crop Insurance - Fruit and Vegetable*	\$	1.00	125.00	125.00
Total Variable Costs					5,581.97
*Based on USDA FSA NAP Insurance administrative fee of \$325/crop assuming 2.6 acres of production.					
Fixed Costs					
	Irrigation depreciation	System	5.00	41.43	207.14
	Disk + Incorporate 10 with 2WD 75 hp with	\$/acre	0.05	2.95	0.15
	Spray (Broadcast) 27 with 2WD 75 hp with	\$/acre	0.01	0.76	0.01
	Cultivate 1-Row with 2WD 75 hp with	\$/acre	0.05	4.12	0.21
	Fert-Side Dresser 1R 3' with 2WD 75 hp with	\$/acre	0.05	14.40	0.72
	Plntr/Transplanter 1-Row with 2WD with 75 hp	\$/acre	0.05	21.00	1.05
	Harvester,Swt.Potato 2 Row with MFWD 170 with	\$/acre	0.13	40.67	5.29
	Misc. Overhead	%	5,581.97	0.07	390.74
	Land ownership	-	-	-	-
Total Fixed Costs					605.30
TOTAL COSTS					6,187.27
Total receipts					10,000.00
Return to land and capital					3,812.73
Initial Capital Investment					
	Sprinkler system (90 ft)	Kit	3.00	290.00	870.00

Return to land and capital

PRICE	YIELD					
	Price/acre/yield	-20%	-10%	Expected	10%	20%
		16,000.00	18,000.00	20,000.00	22,000.00	24,000.00
\$0.40	\$212.73	\$1,012.73	\$1,812.73	\$2,612.73	\$3,412.73	\$4,212.73
\$0.45	\$1,012.73	\$1,912.73	\$2,812.73	\$3,712.73	\$4,612.73	\$5,512.73
\$0.50	\$1,812.73	\$2,812.73	\$3,812.73	\$4,812.73	\$5,812.73	\$6,812.73
\$0.55	\$2,612.73	\$3,712.73	\$4,812.73	\$5,912.73	\$7,012.73	\$8,112.73
\$0.60	\$3,412.73	\$4,612.73	\$5,812.73	\$7,012.73	\$8,212.73	\$9,412.73

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