

Estimating 2004 Costs of Production

STRAWBERRY PLASTICULTURE

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 AG-825-09-04

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CUSTOM	acre	4.00	1.0000	4.00	_____
HARVEST AID	acre	1339.75	1.0000	1339.75	_____
FERTILIZER	acre	2209.11	1.0000	2209.11	_____
FUNGICIDE	acre	983.70	1.0000	983.70	_____
HERBICIDE	acre	8.75	1.0000	8.75	_____
INSECTICIDE	acre	671.34	1.0000	671.34	_____
SEED/PLANTS	acre	1458.40	1.0000	1458.40	_____
OTHER	acre	1811.00	1.0000	1811.00	_____
GROWTH REGULATOR	acre	45.12	1.0000	45.12	_____
MARKETING LABOR	hour	1472.00	1.0000	1472.00	_____
IRRIGATION LABOR	hour	173.20	1.0000	173.20	_____
LABOR	hour	1898.95	1.0000	1898.95	_____
OPERATOR LABOR	hour	8.00	8.7231	69.76	_____
DIESEL FUEL	gal	1.64	25.1032	41.22	_____
GASOLINE	gal	1.80	4.0000	7.20	_____
REPAIR & MAINTENANCE	acre	531.99	1.0000	531.99	_____
INTEREST ON OP. CAP.	acre	331.27	1.0000	331.27	_____

TOTAL DIRECT EXPENSES				13056.76	_____
TOTAL FIXED EXPENSES				319.47	_____

TOTAL SPECIFIED EXPENSES				13376.23	_____

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Table 2. Estimated resource use and costs for field operations per acre, Strawberry Plasticulture Arkansas, 2004

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk	8 ft	2WD 75 hp	0.276	1.00	Jun	2.32	1.28	0.53	0.94	0.27	2.21				7.28
Custom Apply Fert	acre			1.00	Jun							1.0000	4.00	4.00	4.00
Lime (Spread)	ton											1.0000	28.77	28.77	28.77
Fert Applicator	20 Ft	2WD 75 hp	0.120	1.00	Jun	1.01	0.56	0.15	0.29	0.12	0.96				2.97
Fert 10-10-10	lb											300.0000	0.10	30.00	30.00
Spreader	20 ft	2WD 75 hp	0.173	1.00	Jun	1.46	0.80	0.21	0.40	0.17	1.39				4.26
Millet	lb											40.0000	0.50	20.00	20.00
Soybeans	lb											80.0000	0.18	14.40	14.40
Disk + Incorporate	10 Ft	2WD 75 hp	0.206	1.00	Aug	1.72	0.95	0.47	0.72	0.20	1.65				5.51
Chisel Plow	9 Ft	2WD 75 hp	0.204	2.00	Aug	3.42	1.89	0.29	0.55	0.40	3.26				9.41
Subsoiler 1 shank		2WD 75 hp	0.206	1.00	Aug	1.72	0.95	0.34	0.49	0.20	1.65				5.15
Disk	8 ft	2WD 75 hp	0.276	1.00	Aug	2.32	1.28	0.53	0.94	0.27	2.21				7.28
Chisel Plow	9 Ft	2WD 75 hp	0.204	1.00	Sep	1.71	0.94	0.15	0.27	0.20	1.63				4.70
Fert Applicator	20 Ft	2WD 75 hp	0.120	1.00	Sep	1.01	0.56	0.15	0.29	0.12	0.96				2.97
Amm Nitrate (34%)	cwt											175.0000	9.83	1720.25	1720.25
Potassium Sulfate	lb											120.0000	0.12	14.40	14.40
Triple Superphosphat	lb											100.0000	0.17	17.00	17.00
Bed Shaper		2WD 75 hp	0.470	1.00	Sep	3.95	2.18	0.23	0.43	0.47	3.76				10.55
Plastic Mulch	roll											3.5000	72.00	252.00	252.00
Drip Tape	roll											1.5000	125.00	187.50	187.50
Methyl Bromide	lb											200.0000	2.50	500.00	500.00
Transplanter	1-Row	2WD 75 hp	0.900	1.00	Sep	7.56	4.17	0.78	1.20	0.90	7.20				20.91
Labor (planting)	hr											30.0000	8.00	240.00	240.00
Straw plants(100)	100 pl											175.0000	8.00	1400.00	1400.00
Trailer - Utility		2WD 75 hp	0.090	1.00	Sep	0.76	0.42	0.04	0.08	0.09	0.72				2.02
Irrigate (system)	each			1.00	Sep							1.0000			267.96
Labor (setup)	hr											12.0000	8.00	96.00	96.00
Labor (planting)	hr			1.00	Oct							1.0000	8.00	8.00	8.00
Straw plants(100)	100 pl											3.0000	8.00	24.00	24.00
Spreader	20 ft	2WD 75 hp	0.173	1.00	Oct	1.46	0.80	0.21	0.40	0.17	1.39				4.26
Brigade	lb											3.2000	38.75	124.00	124.00
Labor (additional)	hr			1.00	Oct							0.2500	8.00	2.00	2.00
Tissue Sample												1.0000	4.50	4.50	4.50
Oct. Irrigation	hours			1.00	Oct				169.53			30.0000			169.53
Labor (irrigate)	hr			1.00	Oct							2.0000	8.00	16.00	16.00
Sprayer	21 ft	2WD 75 hp	0.165	1.00	Nov	1.39	0.77	0.16	0.30	0.16	1.32				3.94
Brigade	lb											3.2000	38.75	124.00	124.00
Labor (row covers)	hr			1.00	Nov							4.0000	8.00	32.00	32.00
row covers	roll											7.0000	147.00	1029.00	1029.00
Labor (row covers)	hr			1.00	Nov							2.1190	8.00	16.95	16.95
row cover hold down	bag											2500.0000	0.10	250.00	250.00
Labor (row covers)	hr			1.00	Dec							6.0000	8.00	48.00	48.00
Labor (weed/clean)	hr			1.00	Dec							24.0000	8.00	192.00	192.00
Labor (row covers)	hr			1.00	Dec							6.0000	8.00	48.00	48.00
Labor (row covers)	hr			1.00	Jan							6.0000	8.00	48.00	48.00

Table 2. Estimated resource use and costs for field operations per acre, Strawberry Plasticulture Arkansas, 2004 (continued)

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Rotary Mower	8 ft	2WD 75 hp	0.290	1.00	Jan	2.44	1.34	0.42	0.79	0.29	2.32				7.31
Labor (misc.)	hr											12.0000	8.00	96.00	96.00
Labor (weed/clean)	hr			1.00	Jan							40.0000	8.00	320.00	320.00
Sprayer	21 ft	2WD 75 hp	0.165	1.00	Jan	1.39	0.77	0.16	0.30	0.16	1.32				3.94
Captan	lb											4.0000	3.50	14.00	14.00
Labor (scouting)	hr			1.00	Feb							1.0000	8.00	8.00	8.00
Labor (scouting)	hr			1.00	Feb							1.0000	8.00	8.00	8.00
Labor (planting)	hr			1.00	Feb							15.0000	8.00	120.00	120.00
Sprayer	21 ft	2WD 75 hp	0.165	1.00	Feb	1.39	0.77	0.16	0.30	0.16	1.32				3.94
Gramoxone	pt											0.2500	5.00	1.25	1.25
Crop Oil	qt											1.0000	3.12	3.12	3.12
Labor (scouting)	hr			1.00	Feb							1.0000	8.00	8.00	8.00
Sprayer	21 ft	2WD 75 hp	0.165	1.00	Feb	1.39	0.77	0.16	0.30	0.16	1.32				3.94
Brigade	lb											3.2000	38.75	124.00	124.00
Ridomil Gold EC	pt			1.00	Feb							1.0000	105.00	105.00	105.00
Labor (irrigate)	hr											0.2000	8.00	1.60	1.60
Labor (scouting)	hr			1.00	Feb							1.0000	8.00	8.00	8.00
Sprayer	21 ft	2WD 75 hp	0.165	1.00	Feb	1.39	0.77	0.16	0.30	0.16	1.32				3.94
Lorsban 4E	pt											2.0000	4.63	9.26	9.26
Labor (planting)	hr			1.00	Mar							0.2500	8.00	2.00	2.00
Tissue Sample												1.0000	4.50	4.50	4.50
Labor (weed/clean)	hr			1.00	Mar							10.0000	8.00	80.00	80.00
March Irrigation	hours			1.00	Mar				113.02			20.0000			113.02
Liquid N	qt			1.00	Mar							12.9200	12.99	167.83	167.83
Sul-Po-Mag	lb											10.0000	0.10	1.00	1.00
Boron (20% Solu)	lb											0.6300	0.75	0.47	0.47
Labor (irrigate)	hr											0.2000	8.00	1.60	1.60
Labor (row covers)	hr			1.00	Mar							6.0000	8.00	48.00	48.00
Labor (row covers)	hr			1.00	Mar							6.0000	8.00	48.00	48.00
Labor (scouting)	hr			1.00	Mar							1.0000	8.00	8.00	8.00
Sprayer	21 ft	2WD 75 hp	0.165	1.00	Mar	1.39	0.77	0.16	0.30	0.16	1.32				3.94
Brigade	lb											3.2000	38.75	124.00	124.00
Sprayer	21 ft	2WD 75 hp	0.165	1.00	Mar	1.39	0.77	0.16	0.30	0.16	1.32				3.94
Captan	lb											4.0000	3.50	14.00	14.00
Labor (row covers)	hr			1.00	Mar							6.0000	8.00	48.00	48.00
Labor (row covers)	hr			1.00	Mar							6.0000	8.00	48.00	48.00
Ridomil Gold EC	pt			1.00	Mar							1.0000	105.00	105.00	105.00
Labor (irrigate)	hr											0.2000	8.00	1.60	1.60
Pollination	hive			1.00	Mar							2.0000	35.00	70.00	70.00
Labor (planting)	hr			1.00	Mar							0.2500	8.00	2.00	2.00
Tissue Sample												1.0000	4.50	4.50	4.50
Liquid N	qt			1.00	Mar							12.9200	12.99	167.83	167.83
Sul-Po-Mag	lb											10.0000	0.10	1.00	1.00
Labor (irrigate)	hr											0.2000	8.00	1.60	1.60
Labor (scouting)	hr			1.00	Mar							1.0000	8.00	8.00	8.00

Table 2. Estimated resource use and costs for field operations per acre, Strawberry Plasticulture Arkansas, 2004 (continued)

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC HOURS	LABOR COST	OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED			AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Sprayer	21 ft	2WD 75 hp	0.165	1.00	Mar	1.39	0.77	0.16	0.30	0.16	1.32				3.94
Elevate	lb											1.5000	34.37	51.55	51.55
April Irrigaion	hours			1.00	Apr				113.02			20.0000			113.02
Sul-Po-Mag	lb			1.00	Apr							10.0000	0.10	1.00	1.00
Calcium Nitrate	lb											67.7400	0.27	18.29	18.29
Labor (irrigate)	hr											0.2000	8.00	1.60	1.60
Labor (planting)	hr			1.00	Apr							0.2500	8.00	2.00	2.00
Tissue Sample												1.0000	4.50	4.50	4.50
Spray (Broadcast)	27'	2WD 50 hp	0.061	1.00	Apr	0.35	0.19	0.17	0.20	0.06	0.49				1.40
Agri-mek	oz											16.0000	5.19	83.04	83.04
Sprayer	21 ft	2WD 75 hp	0.165	1.00	Apr	1.39	0.77	0.16	0.30	0.16	1.32				3.94
Elevate	lb											1.5000	34.37	51.55	51.55
Nova	oz											5.0000	4.50	22.50	22.50
Potassium nitrate	lb			1.00	Apr							53.8500	0.27	14.54	14.54
Labor (irrigate)	hr											0.2500	8.00	2.00	2.00
Labor (mktg)	hr			2.00	Apr							24.0000	8.00	192.00	192.00
Labor (harvest)	hr			1.00	Apr							6.0000	8.00	48.00	48.00
4-qt Basket	basket											125.0000	0.35	43.75	43.75
Sprayer	21 ft	2WD 75 hp	0.165	1.00	Apr	1.39	0.77	0.16	0.30	0.16	1.32				3.94
Captan	lb											4.0000	3.50	14.00	14.00
Agri-mek	oz											16.0000	5.19	83.04	83.04
Labor (mktg)	hr			2.00	Apr							24.0000	8.00	192.00	192.00
Labor (harvest)	hr			1.00	Apr							6.0000	8.00	48.00	48.00
5-Gal Bucket	each											167.0000	1.00	167.00	167.00
4-qt Basket	basket											167.0000	0.35	58.45	58.45
Labor (misc.)	hr			1.00	May							0.2500	8.00	2.00	2.00
Tissue Sample												1.0000	4.50	4.50	4.50
May Irrigation	hours			1.00	May				113.02			20.0000			113.02
Potassium nitrate	lb			1.00	May							53.8500	0.27	14.54	14.54
Labor (irrigate)	hr											0.2000	8.00	1.60	1.60
Sprayer	21 ft	2WD 75 hp	0.165	1.00	May	1.39	0.77	0.16	0.30	0.16	1.32				3.94
Elevate	lb											1.5000	34.37	51.55	51.55
Nova	oz											5.0000	4.50	22.50	22.50
Labor (mktg)	hr			2.00	May							40.0000	8.00	320.00	320.00
Labor (harvest)	hr			1.00	May							1.0000	8.00	8.00	8.00
4-qt Basket	basket											1.0000	0.35	0.35	0.35
5-Gal Bucket	each											1.0000	1.00	1.00	1.00
Calcium Nitrate	lb			1.00	May							45.1600	0.27	12.19	12.19
Labor (irrigate)	hr											0.2000	8.00	1.60	1.60
Labor (mktg)	hr			2.00	May							32.0000	8.00	256.00	256.00
Labor (harvest)	hr			1.00	May							6.0000	8.00	48.00	48.00
4-qt Basket	basket											417.0000	0.35	145.95	145.95
5-Gal Bucket	each											417.0000	1.00	417.00	417.00

Table 2. Estimated resource use and costs for field operations per acre, Strawberry Plasticulture Arkansas, 2004 (continued)

OPERATION/ OPERATING INPUT	SIZE/ UNIT	POWER UNIT SIZE	PERF RATE	TIMES OVER	MTH	POWER UNIT COST		EQUIPMENT COST		ALLOC LABOR		OPERATING/DURABLE INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Labor (mktg)	hr			2.00	May							32.0000	8.00	256.00	256.00
Labor (harvest)	hr			1.00	May							6.0000	8.00	48.00	48.00
4-qt Basket	basket											250.0000	0.35	87.50	87.50
5-Gal Bucket	each											250.0000	1.00	250.00	250.00
Sprayer	21 ft	2WD 75 hp	0.165	1.00	May	1.39	0.77	0.16	0.30	0.16	1.32				3.94
Elevate	lb											1.5000	34.37	51.55	51.55
Nova	oz											5.0000	4.50	22.50	22.50
Labor (mktg)	hr			2.00	May							32.0000	8.00	256.00	256.00
Labor (harvest)	hr			1.00	May							6.0000	8.00	48.00	48.00
4-qt Basket	basket											125.0000	0.35	43.75	43.75
5-Gal Bucket	each											125.0000	1.00	125.00	125.00
Trailer utility	10 ft	2WD 50 hp	0.600	1.00	May	3.38	1.92	0.25	0.88	0.60	4.80				11.23
Labor (irrigate)	hr											6.0000	8.00	48.00	48.00
Sprayer	21 ft	2WD 75 hp	0.165	1.00	May	1.39	0.77	0.16	0.30	0.16	1.32				3.94
Gramoxone	pt											1.5000	5.00	7.50	7.50
Fork Lift			1.000	1.00	May	4.20	4.96				1.00	8.00			17.16
Labor (misc.)	hr											18.0000	8.00	144.00	144.00
Truck		1/2 ton	1.000	1.00	May	5.96	3.54				1.00	8.00			17.50
Labor (misc.)	hr											1.0000	8.00	8.00	8.00
TOTALS						64.82	38.74	515.59	280.73	8.72	69.76			12075.32	13044.96
INTEREST ON OPERATING CAPITAL															331.27
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															13376.23

Note: Cost of production estimates are based on last year's input prices.

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not named, nor does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.

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