

## Tepary Beans

Income	
Yield	1500 lbs/acre
Price per Unit	1.50 \$/lb
<b>Total Income</b>	<b>\$2,250.00 \$/acre</b>

Irrigation Option Expenses		
Irrigation Depth	20	inches
Labor Hours for Surface Irrigation	1.000	hours/acre
Labor Cost for Surface Irrigation	\$9.36	\$/acre
Well Power and Maintenance	\$109.42	\$/acre
Sprinkler Power and Maintenance	\$12.20	\$/acre

Operating Expenses										
No.	Operation	Hours		Operating Costs (\$/acre) per operation					Times	Total Expenses
		Machine	Labor	Fuel/Rps	Labor	Custom	Materials	Total		
1	Renovator	0.150	0.167	2.27	1.56			3.83	1.0	3.83
2	SW3 Organic Fertilizer	0.075	0.083	1.26	0.78		10.00	12.03	1.0	12.03
3	Disk	0.180	0.200	1.44	1.87			3.31	3.0	9.94
4	x Laser Level	0.450	0.500	7.83	4.68			12.51	1.0	12.51
5	List	0.300	0.333	2.50	3.12			5.61	1.0	5.61
6	Prep Master	0.250	0.278	2.10	2.60			4.70	1.0	4.70
7	Plant	0.600	1.334	10.24	12.48			22.72	1.0	22.72
8	x Prepare Head End	0.045	0.050	0.23	0.47			0.69	2.0	1.39
9	x Disk Ends	0.023	0.025	0.16	0.23			0.40	1.0	0.40
10	Effective Microorganisms						13.50	13.50	5.0	67.50
11	Cultivate	0.900	1.000	5.07	9.36			14.43	3.0	43.28
12	Hand Weeding		4.000		37.42			37.42	2.0	74.84
13	Harvest Load Haul	1.700	2.222	45.24	20.79			66.03	1.0	66.03
14	Hauling					20.00		20.00	1.0	20.00
15	Cleaning & Bagging					75.00	50.00	125.00	1.0	125.00
16	Disk Residue	0.150	0.167	1.19	1.56			2.75	1.0	2.75
17	Sales		5.000		46.78			46.78	1.0	46.78
	Pickup Use 20 Mi/Acre	0.667		7.20				7.20		7.20
Total Operating Expenses (Surface Irrigation)										526.52
Total Operating Expenses (Sprinkler Irrigation) (Does not include rows marked with "x")										512.22

Net Profit	CAP Water		Groundwater	
	Surface	Sprinkler	Surface	Sprinkler
Irrigation Type				
Income	\$2,250.00	\$2,250.00	\$2,250.00	\$2,250.00
Operating Expenses	\$526.52	\$512.22	\$526.52	\$512.22
Irrigation Expenses	\$9.36	\$12.20	\$118.77	\$121.62
Total Operating and Irrigation	\$535.87	\$524.43	\$645.29	\$633.84
General and Office Overhead	5%	\$26.79	\$26.22	\$32.26
General Farm Maintenance	3%	\$16.08	\$15.73	\$19.36
Farm Management	10%	\$53.59	\$52.44	\$64.53
Consulting Services	1%	\$5.36	\$5.24	\$6.45
<b>Net Profit per Acre</b>		\$1,612.31	\$1,625.93	\$1,482.10
Break Even Price	\$/lb	0.43	0.42	0.51

**Notes:**

Assumed that the beans would be hauled to Tucson for cleaning and bagging.

# Pumpkins

Income	
Yield	500.0 Pumpkin/acre
Price per Unit	2.00 \$/pumpkin
<b>Total Income</b>	<b>\$1,000.00 \$/acre</b>

Irrigation Option Expenses		
Irrigation Depth	20	inches
Labor Hours for Surface Irrigation	1.000	hours/acre
Labor Cost for Surface Irrigation	\$9.36	\$/acre
Well Power and Maintenance	\$109.42	\$/acre
Sprinkler Power and Maintenance	\$12.20	\$/acre

## Operating Expenses

No.	Operation	Hours		Operating Costs (\$/acre) per operation				Total Expenses	
		Machine	Labor	Fuel/Rps	Labor	Custom	Materials		
1	Disk	0.225	0.250	5.16	2.34			7.50	1.0
2	x Laser Level	0.450	0.500	7.83	4.68			12.51	1.0
3	List	0.225	0.250	4.00	2.34			6.34	1.0
4	Prep Master	0.250	0.278	2.10	2.60			4.70	1.0
5	Plant	0.225	0.250	3.05	2.34		250.49	255.88	1.0
6	x Prepare Head End	0.023	0.025	0.28	0.23			0.51	3.0
7	x Disk Ends	0.023	0.025	0.16	0.23			0.40	2.0
8	Cultivate	0.225	0.250	3.06	2.34			5.40	2.0
9	Hand Weeding		4.000		37.42			37.42	2.0
10	Pick and Load	2.000	4.444	31.65	41.57			73.22	1.0
11	Hauling	0.535	0.713	10.07	6.67			16.74	1.0
12	Disk Residue	0.225	0.071	4.02	0.67			4.68	1.0
13	Sales		5.000		46.78			46.78	1.0
	Pickup Use 20 MI/Acre	0.667		7.20				7.20	
<b>Total Operating Expenses (Surface Irrigation)</b>									<b>523.52</b>
<b>Total Operating Expenses (Sprinkler Irrigation) (Does not include rows marked with "x")</b>									<b>508.69</b>

Net Profit	CAP Water		Groundwater	
	Surface	Sprinkler	Surface	Sprinkler
Irrigation Type				
Income	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00
Operating Expenses	\$523.52	\$508.69	\$523.52	\$508.69
Irrigation Expenses	\$9.36	\$12.20	\$118.77	\$121.62
<b>Total Operating and Irrigation</b>	<b>\$532.88</b>	<b>\$520.89</b>	<b>\$642.29</b>	<b>\$630.31</b>
General and Office Overhead	5%	\$26.64	\$26.04	\$32.11
General Farm Maintenance	3%	\$15.99	\$15.63	\$19.27
Farm Management	10%	\$53.29	\$52.09	\$64.23
Consulting Services	1%	\$5.33	\$5.21	\$6.42
<b>Net Profit per Acre</b>		<b>\$365.88</b>	<b>\$380.14</b>	<b>\$235.67</b>
<b>Break Even Price</b>	\$/pumpkin	1.27	1.24	1.53

Sweet Corn

Income	
Yield	1210 Dozen/acre
Price per Unit	1.50 \$/dozen
Total Income	\$1,815.00 \$/acre

Irrigation Option Expenses		
Irrigation Depth	20	inches
Labor Hours for Surface Irrigation	1.000	hours/acre
Labor Cost for Surface Irrigation	\$9.36	\$/acre
Well Power and Maintenance	\$109.42	\$/acre
Sprinkler Power and Maintenance	\$12.20	\$/acre

Operating Expenses										
No.	Operation	Hours		Operating Costs (\$/acre) per operation				Total Expenses		
		Machine	Labor	Fuel/Rps	Labor	Custom	Materials			
1	Renovator	0.150	0.167	2.27	1.56			3.83	1.0	3.83
2	SW3 Organic Fertilizer	0.075	0.083	1.26	0.78		10.00	12.03	1.0	12.03
3	Disk	0.225	0.250	5.16	2.34			7.50	1.0	7.50
4	Soil Fertility						3.00	3.00	1.0	3.00
5	x Laser Level	0.450	0.500	7.83	4.68			12.51	1.0	12.51
6	List	0.225	0.250	3.89	2.34			6.23	1.0	6.23
7	Prep Master	0.250	0.278	2.10	2.60			4.70	1.0	4.70
8	Plant	0.360	0.400	7.51	3.74		11.00	22.25	1.0	22.25
9	x Prepare Head End	0.045	0.050	0.55	0.47			1.02	6.0	6.12
10	x Disk Ends	0.045	0.050	0.73	0.47			1.20	5.0	5.98
11	Effective Microorganisms						11.25	11.25	6.0	67.50
12	Garlic Foliar Feed	0.075	0.083	1.32	0.78		30.00	32.09	1.0	32.09
13	Foliar Nitrogen	0.075	0.083	1.32	0.78		20.00	22.09	1.0	22.09
14	Cultivate	0.150	0.167	2.13	1.56			3.70	3.0	11.09
15	Hand Weeding		4.000		37.42			37.42	2.0	74.84
16	Pick and Load	4.500	10.000	55.32	93.55		100.00	248.87	1.0	248.87
17	Haul	0.500	0.556	7.91	5.20			13.11	1.0	13.11
18	Disk Residue	0.225	0.250	5.16	2.34			7.50	1.0	7.50
19	Sales		2.000		18.71			18.71	1.0	18.71
	Pickup Use 30 MI/Acre	1.000		10.80				10.80		10.80
Total Operating Expenses (Surface Irrigation)										590.76
Total Operating Expenses (Sprinkler Irrigation) (Does not include rows marked with "x")										566.15

Net Profit	CAP Water		Groundwater	
	Surface	Sprinkler	Surface	Sprinkler
Irrigation Type				
Income	\$1,815.00	\$1,815.00	\$1,815.00	\$1,815.00
Operating Expenses	\$590.76	\$566.15	\$590.76	\$566.15
Irrigation Expenses	\$9.36	\$12.20	\$118.77	\$121.62
Total Operating and Irrigation	\$600.12	\$578.35	\$709.53	\$687.77
General and Office Overhead	5%	\$30.01	\$28.92	\$35.48
General Farm Maintenance	3%	\$18.00	\$17.35	\$21.29
Farm Management	10%	\$60.01	\$57.84	\$70.95
Consulting Services	1%	\$6.00	\$5.78	\$7.10
Net Profit per Acre		\$1,100.86	\$1,126.76	\$970.66
Break Even Price	\$/dozen	0.59	0.57	0.70
				0.68

## Traditional Corn

Income	
Yield	500 Dozen/acre
Price per Unit	0.50 \$/dozen
<b>Total Income</b>	<b>\$250.00 \$/acre</b>

Irrigation Option Expenses		
Irrigation Depth	20	inches
Labor Hours for Surface Irrigation	1.000	hours/acre
Labor Cost for Surface Irrigation	\$9.36	\$/acre
Well Power and Maintenance	\$109.42	\$/acre
Sprinkler Power and Maintenance	\$12.20	\$/acre

Operating Expenses										
No.	Operation	Hours		Operating Costs (\$/acre) per operation					Times	Total Expenses
		Machine	Labor	Fuel/Rps	Labor	Custom	Materials	Total		
	SW3 Organic Fertilizer	0.075	0.083	1.26	0.78		10.00	12.03	1.0	12.03
	Disk	0.225	0.250	5.16	2.34			7.50	1.0	7.50
x	Laser Level	0.450	0.500	7.83	4.68			12.51	1.0	12.51
	List	0.225	0.250	3.89	2.34			6.23	1.0	6.23
	Prep Master	0.250	0.278	2.10	2.60			4.70	1.0	4.70
	Plant	0.360	0.400	7.51	3.74			11.25	1.0	11.25
x	Prepare Head End	0.045	0.050	0.55	0.47			1.02	5.0	5.10
x	Disk Ends	0.045	0.050	0.73	0.47			1.20	4.0	4.78
	Effective Microorganisms						11.25	11.25	5.0	56.25
	Garlic Foller Feed	0.075	0.083	1.32	0.78		30.00	32.09	1.0	32.09
	Foller Nitrogen	0.075	0.083	1.32	0.78		20.00	22.09	1.0	22.09
	Cultivate	0.150	0.167	2.13	1.56			3.70	2.0	7.39
	Hand Weeding		4.000		37.42			37.42	2.0	74.84
	Pick and Load	1.860	4.200	22.86	39.29		42.00	104.15	1.0	104.15
	Haul	0.210	0.230	3.26	2.15			5.42	1.0	5.42
	Disk Residue	0.225	0.250	5.16	2.34			7.50	1.0	7.50
	Sales		2.000		18.71			18.71	1.0	18.71
	Pickup Use 30 Mi/Acre	1.000		10.80				10.80		10.80
Total Operating Expenses (Surface Irrigation)										403.35
Total Operating Expenses (Sprinkler Irrigation) (Does not include rows marked with "x")										380.95

Net Profit	CAP Water		Groundwater	
	Surface	Sprinkler	Surface	Sprinkler
Irrigation Type				
Income	\$250.00	\$250.00	\$250.00	\$250.00
Operating Expenses	\$403.35	\$380.95	\$403.35	\$380.95
Irrigation Expenses	\$9.36	\$12.20	\$118.77	\$121.62
Total Operating and Irrigation	\$412.70	\$393.16	\$522.12	\$502.57
General and Office Overhead	5%	\$20.64	\$19.66	\$26.11
General Farm Maintenance	3%	\$12.38	\$11.79	\$15.66
Farm Management	10%	\$41.27	\$39.32	\$52.21
Consulting Services	1%	\$4.13	\$3.93	\$5.22
<b>Net Profit per Acre</b>		<b>(\$241.12)</b>	<b>(\$217.86)</b>	<b>(\$371.32)</b>
Break Even Price	\$/dozen	0.98	0.94	1.24
				1.20

**Pima Wheat**

Income	
Yield	3000 lbs/acre
Price per Unit	0.08 \$/lb
<b>Total Income</b>	<b>\$240.00 \$/acre</b>

Irrigation Option Expenses		
Irrigation Depth	30	inches
Labor Hours for Surface Irrigation	1.500	hours/acre
Labor Cost for Surface Irrigation	\$14.03	\$/acre
Well Power and Maintenance	\$164.13	\$/acre
Sprinkler Power and Maintenance	\$18.31	\$/acre

**Operating Expenses**

No.	Operation	Hours		Operating Costs (\$/acre) per operation				Total Expenses
		Machine	Labor	Fuel/Rps	Labor	Custom	Materials	
1	Renovator	0.150	0.167	2.27	1.56			3.83
2	Disk	0.230	0.256	1.85	2.39			4.24
3	x Laser Level	0.450	0.500	7.83	4.68			12.51
4	Plant	0.300	0.333	5.12	3.12			8.24
5	Effective Microorganisms						11.25	11.25
6	Harvest & Haul					65.00		65.00
7	Disk Residue	0.150	0.167	1.19	1.56			2.75
8	Sales		5.000		46.78			46.78
	Pickup Use 10 Mi/Acre	0.333		3.60				3.60
Total Operating Expenses (Surface Irrigation)								200.43
Total Operating Expenses (Sprinkler Irrigation) (Does not include rows marked with "x")								187.92

Net Profit	CAP Water		Groundwater	
	Surface	Sprinkler	Surface	Sprinkler
Irrigation Type				
Income	\$240.00	\$240.00	\$240.00	\$240.00
Operating Expenses	\$200.43	\$187.92	\$200.43	\$187.92
Irrigation Expenses	\$14.03	\$18.31	\$178.16	\$182.43
Total Operating and Irrigation	\$214.47	\$206.23	\$378.59	\$370.35
General and Office Overhead	5%	\$10.72	\$10.31	\$18.93
General Farm Maintenance	3%	\$6.43	\$6.19	\$11.36
Farm Management	10%	\$21.45	\$20.62	\$37.86
Consulting Services	1%	\$2.14	\$2.06	\$3.79
<b>Net Profit per Acre</b>		<b>(\$15.21)</b>	<b>(\$5.41)</b>	<b>(\$210.52)</b>
Break Even Price	\$/lb	0.09	0.08	0.15

## Oat Hay

Income	
Yield	9 tons/acre
Price per Unit	75.00 \$/ton
Total Income	\$675.00 \$/acre

Irrigation Option Expenses		
Irrigation Depth	30	inches
Labor Hours for Surface Irrigation	1.500	hours/acre
Labor Cost for Surface Irrigation	\$14.03	\$/acre
Well Power and Maintenance	\$164.13	\$/acre
Sprinkler Power and Maintenance	\$18.31	\$/acre

### Operating Expenses

No.	Operation	Hours		Old Fuel/Rps	Operating Costs (\$/acre) per operation			Total Expenses	Times	Total	
		Machine	Labor		Fuel/Rps	Labor	Custom				Materials
1	Renovator	0.150	0.167	1.81	2.27	1.56		3.83	1.0	3.83	3.83
2	Disk	0.230	0.256	1.47	1.85	2.39		4.24	3.0	12.72	12.72
3	x Laser Level	0.450	0.500	6.24	7.83	4.68		12.51	1.0	12.51	0.00
4	Plant	0.300	0.333	4.08	5.12	3.12		8.24	1.0	8.24	8.24
5	Effective Microorganisms						11.25	11.25	4.0	45.00	45.00
6	Cutting	0.200	0.222	2.9	3.64	2.08		5.72	3.0	17.15	17.15
7	Raking	0.150	0.167	1.16	1.46	1.56		3.02	3.0	9.06	9.06
8	Baling	0.384	0.426	10.51	13.19	3.99		17.18	3.0	51.54	51.54
9	Load, Haul, & Stack	0.147	0.163	12.81	16.08	1.52		17.61	3.0	52.82	52.82
10	Sales		2.000			18.71		18.71	1.0	18.71	18.71
11	Disk Residue	0.150	0.167	0.95	1.19	1.56		2.75	1.0	2.75	2.75
	Pickup Use 40 MI/Acre	1.333			14.40			14.40		14.40	14.40
Total Operating Expenses (Surface Irrigation)										248.72	
Total Operating Expenses (Sprinkler Irrigation) (Does not include rows marked with "x")										236.21	

Net Profit	CAP Water		Groundwater	
	Surface	Sprinkler	Surface	Sprinkler
Irrigation Type				
Income	\$675.00	\$675.00	\$675.00	\$675.00
Operating Expenses	\$248.72	\$236.21	\$248.72	\$236.21
Irrigation Expenses	\$14.03	\$18.31	\$178.16	\$182.43
Total Operating and Irrigation	\$262.75	\$254.52	\$426.88	\$418.64
General and Office Overhead	5% \$13.14	\$12.73	\$21.34	\$20.93
General Farm Maintenance	3% \$7.88	\$7.64	\$12.81	\$12.56
Farm Management	10% \$26.28	\$25.45	\$42.69	\$41.86
Consulting Services	1% \$2.63	\$2.55	\$4.27	\$4.19
Net Profit per Acre	\$362.32	\$0.00	\$167.01	\$176.82
Break Even Price	\$/ton 34.74	33.65	56.44	55.35