

**2019 - Onion - Irrigated Budget**  
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**INPUT DATA: Your values in the unprotected or highlighted cells**

**(Cash Flow Budget)**

Number of acres 1

	BEST	OPT	MEDIAN	PESS	WORST
Yield (40 lb boxes)	900	800	700	600	500
Price per box	16.00	14.00	12.00	10.00	8.00

Item	Unit	Quantity	Price	Amt/acre	Total	Yours
<b>Variable Costs</b>						
Plants	Thou	85.00	6.50	552.50	553	_____
Lime, applied	Ton	0.33	43.00	14.19	14	_____
Side-dressing (Cal Nitrate)	Ton	0.20	375.00	75.00	75	_____
Fertilizer (complete)	Ton	0.70	345.00	241.50	242	_____
Insecticide	Acre	1.00	321.00	60.00	60	_____
Fungicide	Acre	1.00	300.00	300.00	300	_____
Herbicide	Acre	1.00	30.00	30.00	30	_____
Machinery (fuel, lub & maintenance)	Acre	1.00	50.00	50.00	50	_____
Set plants	Acre	1.00	450.00	450.00	450	_____
Land rent 1/-	Acre	1.00	0.00	0.00	0	_____
Irrigation	Appl	8.00	8.90	71.20	71	_____
Interest on Oper. Cap.	\$	1844.39	0.07	64.55	65	_____
<b>PreHarvest Variable Costs</b>	Acre	1.00		<b>1908.94</b>	<b>1,909</b>	_____

<u>Harvest and Marketing Costs</u>	Unit	Quantity	Price	Amt/acre	Total	Yours
Hand harvest labor	Boxes	665.00	1.50	998	998	_____
General labor	Hrs	50.00	12.00	600	600	_____
Grading	Boxes	665.00	1.50	997.50	998	_____
Labeled mesh bags	Ea	100.00	0.48	48.00	48	_____

Cartons	Ea	665.00	1.25	831.25	831
Drying	Boxes	665.00	0.10	66.50	67
Vidalia Onion Committee Assessment	Bag	665.00	0.13	86.45	86
<b>Total Harvest and Marketing</b>				<b>3627.20</b>	<b>3,627</b>
<b>Total Variable Costs</b>				<b>5536.14</b>	<b>5,536</b>

1/- Land rent prices vary significantly from location to location and whether it is irrigated or not.

**FIXED COSTS: Press Button for Calculation of Annual Debt Payment)**

Annual Fixed Cost	Unit	Quantity	Price	Amt/acre	Total	Yours
Machinery	Acre	1.00	346.39	346.39	346	_____
Irrigation	Acre	1.00	305.18	305.18	305	_____
Overhead and Management	\$	1908.94	0.15	286.34	286	_____
<b>Total Fixed Costs</b>				<b>937.91</b>	<b>938</b>	_____
<b>Total budgeted cost per acre</b>				<b>6474.05</b>	<b>6,474</b>	

**Costs Per Cwt.**

Preharvest variable cost per box.					2.73
Harvest & marketing cost per box.					5.18
Fixed Outlays per box.					1.34
Total budgeted cost per box					9.25
Breakeven yield					306.00

**EXPECTED RETURNS FROM TOTAL ACREAGE**

ACRES	EXPECTED YIELD/AC	VOLUME MARKETED	EXPECTED PRICE	TOTAL RETURNS
1	500	665	12.00	<u>7,980</u>

**RISK RATED RETURNS OVER CASH FLOW COSTS**

Net return levels (TOP ROW);  
 The chances of obtaining this level or more (MIDDLE ROW); and  
 The chances of obtaining this level or less (BOTTOM ROW).

	<u>Optimistic</u>		<u>Expected</u>		<u>Pessimistic</u>			
Returns(\$)	4,262	3,483	2,705	1,926	1,147	369	-410	
Chances	7%	16%	31%	50%	∅	∅	∅	
Chances	∅	∅	∅	50%	31%	16%	7%	
<b>CHANCES FOR PROFIT</b>	<u><b>89%</b></u>		<b>BASE BUDGETED NET REVENUE</b>	<u><b>1,926</b></u>				

**Sensitivity Rated Returns Over Cash Flow Costs**

Price/Yield	Best	Opt	Opt	Expected 665.00	Pess	Pess	Worst	Net Returns	Chances of Profit %
8.00	1268	554	-160	-874	-1588	-2302	-3016	-874	27
10.00	2747	2007	1266	526	-214	-955	-1695	526	64
12.00	4262	3483	2705	1926	1147	369	-410	1926	89
14.00	5808	4981	4153	3326	2499	1671	844	3326	98
16.00	7380	6495	5611	4726	3841	2957	2072	4726	99

**Disclaimer:**

This budget is only a guideline. Production practices, yields, selling and input prices vary significantly between growers, researchers, states, regions and nationally. Growers are advised to enter their actual yields, selling and input price data.



**SPRINKLER IRRIGATION SYSTEM 1/-**

ACRES IN SYSTEM	40.00
INTEREST RATE	0.07

	<b>INVESTMENT</b>	<b>YRS.</b>	<b>DEPREC.</b>	<b>INTEREST</b>	<b>TAXES &amp; INS.</b>
Sprinkler system	60000	10	6000	2100	450
Power unit	12500	1	0	438	94
WELL (8 inches)	15000	20	750	525	113
Pump	12000	10	1200	420	90
FILTER & AUTO	200	10	20	7	2
	0	20	0	0	0
	0	20	0	0	0
<b>TOTAL</b>	<u>99700</u>		<u>7970</u>	<u>3490</u>	<u>748</u>
TOTAL ANNUAL FIXED COSTS					12207
TOTAL ANNUAL FIXED COSTS PER ACRE					<u>305.18</u>
TOTAL ANNUAL DEBT PAYMENT PER ACRE					<u>264</u>

**OPERATING COSTS**

MOTOR SIZE (HP)	15.00	
REPAIRS	2023.50	50.59
ANNUAL PUMPING HOURS	2000.00	
ELECTRICITY		
Demand (standby charge) per YEAR	180.00	
Rate \$ per KWH	0.08	
ANNUAL ENERGY COST	1970.40	
ANNUAL ENERGY COST PER ACRE		49.26
OPERATING COST PER ACRE PER YEAR		<u>99.85</u>

1/- Most onion growers use but center pivot irrigation system.



**Investment and Annual Fixed Costs**

Number of acres of this crop                    40  
 Interest rate                                        0.07

Equipment Costs for Eggplant - 2016

Item	% of time for		Salvage Value	Life	Depr.	Yrs. of		FC/Ac.
	This crop	Cost				Int.	Tax&Ins	
Tractors (100 hp)	10%	70000	14000	15	373	294	59	18
Plow (6 row bedder))	50%	22000	4400	15	587	462	92	29
Disk (24')	10%	22000	4400	15	117	92	18	6
Subsoiler	50%	5000	1000	15	133	105	21	6
Transplanter	25%	0	0	15	0	0	0	0
Cultivator (6 row)	40%	6000	1200	15	128	101	20	6
Sprayer (18 row boom	25%	15000	3000	15	200	158	32	10
Plastic bins	100%	6000	1200	6	800	252	50	28
Forklift	75%	46000	9200	15	1840	1449	290	89
	40%	0	0	0	0	0	0	0
<b>Total</b>		<u>192000</u>	<u>38400</u>		<u>4179</u>	<u>2913</u>	<u>583</u>	<u>192</u>

Interest on Investment (Ave. Inv. X Int. Rate)	8064.00
Taxes and Insurance (Ave. Inv. X .014)	1612.80
Total Annual Fixed Costs	<u>13855.47</u>
Total Annual Fixed Costs Per Acre	<u>346.39</u>



**2019 Debt Payment Calculation on New Investment:**  
 (For Use In Calculating Debt Payments on New Investment)

ITEM	% of time for		Financing			Calc. Yr. Payment
	This crop	Cost	Amount	Years	Int.Rate	
Tractors	10%	70000	50%	7	11%	743
Plow	10%	22000	50%	7	11%	233
Disk	50%	22000	50%	7	11%	1,167
Appl. Herb	50%	5000	50%	7	11%	265
Plant	25%	0	50%	7	11%	0
Cultivator	40%	6000	50%	7	11%	255
Sprayer	25%	15000	50%	7	11%	398
Forklift	50%	46000	50%	7	11%	2,440
_____	75%	46000	50%	7	11%	3,661
_____	40%	0	50%	7	11%	0

**Calculated Total Annual Debt Payment** 9,162

**Current Annual Debt Payments:**

(For Use In Totaling Debt Payments on Existing Investment)

LOAN # 1	0
LOAN # 2	0
LOAN # 3	0
LOAN # 4	0
LOAN # 5	0
Total Annual Debt Payment	<u><u>9,162</u></u>
Taxes and Insurance	1,613
Total Annual Fixed Outlay	<u>10,775</u>
Total Annual Fixed Outlay Per Acre	<u><u>269</u></u>

