

**INVESTMENT AND ANNUAL FIXED COSTS**

Number of acres		1				
Interest rate		0.08				
<b>Item</b>	<b>% Time use</b>	<b>Cost</b>	<b>Sal. Value</b>	<b>life-span</b>	<b>Depre.</b>	<b>Int.</b>
Tractor	15%	70000	14000	15	560.00	504
Plow	20%	6600	1320	10	105.60	63.36
Disk	20%	12000	2400	10	192.00	115.2
Herbicide Applicator	10%	1700	340	10	13.60	8.16
Bedder	40%	3500	700	10	112.00	67.2
Sprayer	30%	3200	640	10	76.80	46.08
	40%	0	0	0	0.00	0
	40%	0	0	0	0.00	0
<b>Total</b>		<b>97000</b>	<b>19400</b>		<b>1060.00</b>	<b>804</b>
<b>Interest on Investment (Ave. Inv. X Int. Rate)</b>					<b>4656.00</b>	
<b>Taxes and Insurance (Ave. Inv. X 0.014)</b>					<b>814.8</b>	
<b>Total Annual Fixed Costs</b>					<b>6530.80</b>	
<b>Total Annual Fixed Costs per Acre</b>					<b>6530.80</b>	

DEBT PAYMENT CALCULATION ON NEW INVESTMENT  
(For Use In Calculating Debt Payment on New Investment)

Item	Time use on crop	FINANCING			Cal. Year	
		Cost	Amount	Years		Int.Rate
Tractor	15%	70000	50%	7	11%	\$4,042.50
Plow	20%	6600	50%	7	11%	\$508.20
Disk	20%	12000	50%	7	11%	\$924.00
Herbicide Applicator	10%	1700	50%	7	11%	\$65.45
Bedder	20%	3000	50%	7	11%	\$231.00
Sprayer	30%	3200	50%	7	11%	\$369.60
	40%	0	50%	7	11%	\$0.00
	40%	0	50%	7	11%	\$0.00
<b>Calculated Total Annual Debt Payment</b>						<b>\$6,140.75</b>

**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
<b>TOTAL ANNUAL DEBT PAYMENT</b>		<b>\$6,140.75</b>
Taxes and Insurance	0.014	\$85.97
Total Annual Fixed Outlay		\$6,226.72
Total Annual Fixed Outlay per Acre		\$6,312.69

**DRIP IRRIGATION FOR STRAWBERRY PLASTICULTURE**  
**By: Greg E. Fonsah and Kerry Harrison**  
**Ag. And Applied Economics and Bio. And Ag. Engineering Departments.**

<b>DRIP IRRIGATION</b>	
<b>ACRES IN SYSTEM</b>	<b>1</b>
<b>INTEREST RATE</b>	<b>0.1</b>
<b>ROW WIDTH IN FEET</b>	<b>6</b>
<b>PRICE OF TUBING (\$/1000)**</b>	<b>21.33</b>
<b>YEARS TUBING IS TO BE USED</b>	<b>1</b>

<b>DESCRIPTION</b>	<b>INVESTMENT</b>	<b>YEARS</b>	<b>DEPREC.</b>	<b>INTEREST</b>	<b>TAXES &amp; INS</b>
Pipe & Fittings 1/	250	20	300	12.5	2.25
Tubing	160	1	0	480	0.00
Well (4") 2/	4000	25	160	200	1.20
Pump & Motor	3500	12	291.67	175	2.19
Filter & Auto	200	10	20	10	0.15
Misc	60	1	60	3	0.45
Installation	300	20	15	15	0.11
<b>Total</b>	<b>8470</b>		<b>846.67</b>	<b>895.5</b>	<b>6.35</b>

<b>TOTAL ANNUAL FIXED COSTS</b>	<b>1748.52</b>
TOTAL ANNUAL FIXED COSTS/ACRE	<b>1748.52</b>
TOTAL ANNUAL FIXED PAYMENTS/ACRE	

**OPERATING COSTS**

MOTOR SIZE (hp) 2/	10	
REPAIRS	109.08	109.08
ANNUAL PUMPING HOURS	500	
ELECTRICITY		
(standby charge) per year	180	
Rate \$ per KWH	0.08	
ANNUAL ENERGY COST 3/	478.4	
ANNUAL ENERGY COST PER ACRE		478.40
TUBING		0.00

**OPERATING COST PER ACRE PER YEAR** **587.48**

1/ Quantity discounts may affect prices.

2/ Motor size(hp)/initial cost depends on the farm size and/or acreage or the existance of a well & pump already in use for other purposes.

3/ Frost protection would be in overhead irrigation budget.

**BASIC BREAKDOWN FOR IRRIGATION MATERIALS  
FOR DRIP IRRIGATION**

DESCRIPTION	COST/ACRE**	
	LINE SOURCE	POINT SOURCE
Tubing (10' row spacing)	\$150	\$250
Emitters (@\$0.25 each and 6' spacing)		\$200
PVC Submain	\$50	\$50
PVC Mainline	\$50	\$50
PVC fittings	\$50	\$50
Filters	\$50	\$50
Misc (valves, thrust blocking, etc.)	\$50	\$50
<b>Total</b>	<b>\$400</b>	<b>\$700</b>

\*\*Per acre cost can vary depending on quantities purchased. Some cost/item may be higher or lower than indicated due to actual field layout and system design. The above cost items exclude water source development such as well drilling, pond build ll

**OVERHEAD IRRIGATION FOR STRAWBERRY PLASTICULTURE**  
**By: Greg E. Fonsah and Kerry Harrison**  
**Ag. And Applied Economics and Biological and Ag.Engineering Dept.**  
**Jan-02**

ACRES IN SYSTEM	1.00
INTEREST RATE (%)	0.10
TAXES & INSURANCE	0.02
PRICE OF TUBING (\$/1000)	21.33
YEARS TUBING IS TO BE USED	1.00

**INVESTMENT AND ANNUAL FIXED COSTS**

	INVEST.	YEARS	DEPREC.	INTEREST	TAX & INS.
PIPE & FITTINGS 1/	303	20	15.15	15.15	2.27
SPRINKLERS	100	10	10.00	5.00	0.75
WELL 2/	6000	25	240	300.00	45.00
PUMP & MOTOR 2/	1500	15	100.00	75	11.25
FILTER & AUTO	26	10	2.60	1.30	0.20
MISC.	15	20	0.75	0.75	0.11
INSTALLATION	300	20	15.00	15.00	2.25
<b>TOTAL INVESTMENT</b>	<b>8244</b>		<b>383.50</b>	<b>412.2</b>	<b>61.83</b>

<b>TOTAL ANNUAL FIXED COSTS</b>	<b>857.53</b>
<b>ANNUAL FIXED COST PER ACRE</b>	<b>857.53</b>

**OPERATING COSTS**

MOTOR SIZE (HP) 2/	10	
REPAIRS	123.7	123.7
ANNUAL PUMPING HOURS 3/	180	
ELECTRICITY		
(standby charge) per year	120	
Rate \$ per KWH	0.08	
ANNUAL ENERGY COST	227.42	
ANNUAL ENERGY COST PER ACRE		227.42
<b>OPERATING COST PER ACRE PER YEAR</b>		<b>351.12</b>
<b>TOTAL ANNUAL COSTS PER ACRE</b>		<b>1208.65</b>

1/ Quantity discounts may affect prices.

2/ Motor size(HP)/initial cost depends on the farm size and/or acreage or the existence of a well and pump already in use for other purposes.

3/ Includes establishment and frost protection.