number of acres

cotton-dry

planting variable cost

	% of revenue agreement	labor cost as % of revenue	grand total labor costs based on % revenue	labor cos hour w/pi	
employee	0.00%	\$-	\$ -	\$	14.00
employee	0.00%	\$-	_	\$	14.00
employee	0.00%	\$-		\$	14.00
				\$	14.00
	yield price				



hold all cost and selling cost constant, vary increase due to pollination yield and quality and number of colonies per acre

increase yield and quality

number of acres

1000

cotton-irrigated

planting variable cost

		grand total	
		labor costs	
% of revenue	labor cost as %	based on %	labor cost per
agreement	of revenue	revenue	hour w/picking



yield price



7% cost increase

	does not include fixed
	overhead expenses -
the second se	machinery, land, tax,
color	etc.

# labor hours w/picking	total l	abor cost w/picking	r cost w/o
69	94 \$	9,716.00	\$ 14.00
69	94 \$	9,716.00	\$ 14.00
	0 \$	-	\$ 14.00
	0 \$	-	\$ 14.00

base crop lbs. yield per acre		se in crop yield pollination per	increase in crop price due to higher quality crops per acre due to pollination	
-	750	11%		0
	585	7		

total gross variable total reveune profit

	does not include fixed
	overhead expenses -
input into cells with this	machinery, land, tax,
color	etc.

labor hours w/picking total labor cost w/o total labor cost w/picking picking

694	\$ 9,716.00	\$ 14.00
694	\$ 9,716.00	\$ 14.00
0	\$ -	\$ 14.00
0	\$ -	\$ 14.00

base crop lbs. yield per acre	increase in crop yield	increase in crop price due to higher quality crops per acre due to pollination
1400	3%	0

picking cost

\$0.1/lb

# labor hours w/o picking	total labor cost w/o picking	grand total labor costs w picking
\$ 278	\$ 3,886.40	\$ 19,432.00
\$ 278	\$ 3,886.40	
\$ -	\$ -	grand total labor costs w/o picking
\$ -	\$ -	\$ 7,772.80
	difference	\$ 11,659.20

total revenue \$ 541,125.00

total yield per acre lbs

832.5

picking cost

\$0.1/lb

labor hours w/o picking total labor cost w/o picking

grand total labor costs w picking

\$ 278	\$	3,886.40	\$	19,432.00
\$ 278	\$	3,886.40		
\$ -	\$	-	grand to w/o pick	otal labor costs king
\$ -	\$	-	\$	7,772.80
	difference		\$	11,659.20

total yield per acre lbs

1442

total revenue

\$ 819,921.20

drop off \$<u>1.65/ac</u> fuel ie reduce acre by 1000 ac labor \$8400/1000ac

	cost of picking per		ginning price acre	e per	cost of fer per acre	tilizer
with picking farmer picks	\$ 7	75.00	\$	75.00	\$	142.45
				75		142.45

cost of picking per acre

fuel/labor

w/o picking someone			
w/o picking someone else picks	\$ 100.00	\$ 75.00	\$ 142.45
		\$ -	\$ -

	gross variable profit	pollination colony cost impact on gross variable profit margin with picking
\$ 89,468.00	16.5%	4.1%

		pollination colony
total gross variable		cost impact on
profit= Total revenue -		gross variable
Total cost w/o farmer	gross variable profit	profit margin w/o
picking - contract out	margin w/o picking	picking
\$ 2,777.20	0.5%	4.1%

fuel/labor

drop off \$<u>1.65/ac</u> fuel ie reduce acre by 1000 ac labor \$8400/1000ac

cost of picking per acre ginning price per cost of fertilizer per acre

with picking farmer picks	\$	75.00	\$ 75.00	\$ 142.45
			75	142.45
	cost of picking	per acre		
w/o picking someone				
else picks	\$	90.00	\$ 75.00	\$ 142.45
			\$ -	\$ -

total gross variable profit= Total revenue - Total cost with picking	gross variable profit	pollination colony cost impact on gross variable profit margin with picking
\$ 368,264.20	44.9%	2.7%

		pollination colony cost impact on
total gross variable		gross variable
profit= Total revenue -		profit margin w/o
Total cost w/o picking	margin w/o picking	picking
\$ 291,573.40	35.6%	2.7%



<pre>\$ yield increase</pre>	
due to bees -	direct cost as
cost of hives with	% of revenue
picking	with picking
\$ 31,625.00	83%

<pre>\$ yield increase</pre>	
due to bees -	direct cost as
cost of hives w/o	% of revenue
picking	w/o picking
\$ 31,625.00	99%

cost of chemicals cost of seed per acre per acre number of acresseed cost

total fertilizer , chemical, and



\$ yield increase due to bees - cost of hives with	direct cost as % of revenue
picking	with picking
\$ 1,881.20	55%

\$ yield increase	
due to bees -	direct cost as
cost of hives w/o	% of revenue
picking	w/o picking
\$ 1,881.20	64%

number of colonies

gas number of gallons	cost of gas per gallon	total gas cost	number of farmers renting bees
3500	¢ 1.65	\$5,775.00	1
5500	۵.10 ¢	\$5,775.00	L

2500	\$	1.65	\$4,125.00
	difference		\$ 1,650.00



number of colonies

gas number of gallons cost of gas per gallon

total gas cost number of farmers renting bees

3500	\$ 1.65	\$5,775.00	1
2500			1
	difference	\$ 1,650.00	

number of cost of colonies per colonies acre		total number of colonies	total colony cost per farmer	
\$ 55.00	\$ 0.40	400.00	\$22,000.00	\$22,000,00



difference	\$ (86,690.80)
difference/acr	
е	\$ (86.69)

number of total colony colonies per total number of total colony cost per cost of colonie acre colonies cost farmer

\$	55.00	\$ 0.40	400.00	\$22,000.00	\$22,000.00

		0.4				_
\$	55.00	\$ 0.40	400.00	\$22,000.00	\$22,000.00	
				difference	\$-	difference

difference	\$ -
difference/acr	
e	\$ -



\$538,347.80	w/o picking- contract out picking	\$530,575.00	w/o picking- contract out picking
\$ (86,690.80)			

total costs hourly total colony cost as % of total cost total colony cost as % total costs : % of total revenue cost

\$451,657.00	with <mark>5%</mark> picki	farmer ng	\$432,225.00	with farmer picking
\$528,347.80 \$ (76,690.80)		bicking- ract out ng	\$520,575.00	w/o picking- contract out picking