		*	\$	F	LE:peachcon
AN ANALYSIS OF	(MED DENSIT	217) TREES PER ACRE PEA	ACH ORCHARD	
	AND		+		
POTENTIAL PRO	OFIT OF THE SYS	TEM			
Assumptions : All values	in COLOR may be o	changed, they	determine the other value	S	
Cost of Trees (per tree)	\$6.00	Custom Pla	anting Cost/Tree	\$0.25	
Straw Cost per Bale	\$1.25	Fertilizer C	ost/Ton	\$200.00	
Annual Cost of Cover/Tree	\$0.00	Cost of Mo	use Guards/Tree	\$0.25	
Cost of Tree Training/Tree	\$0.75	Interest Ra	te	12.00%	
Cost of Trellis/Tree	\$0.00	Harvest Co	st per Bushel	\$1.89	
Cost of Shelter & Post/Tree	\$0.00	Expected F	each Price per Bushel	\$20.00	
Cost of Wildlife Control/Tree	\$0.15	Expected L	ife of Orchard (years)	15	
그 같은 것, 아랍 한 것이 같은 것 같아.					
Tree spacing _ft_	20 10	200	217		
ve wid	th length	= sq.ft.	trees/acre		

Table 1. Site Preparation Cost for One Acre of Peaches (wholesale)

Activity	Labor hours	Equipment hours	Labor cost	Equipment code	Equipment cost	Material cost	Other cost	Total
Bulldoze old trees Lime (3 ton)		3.2			\$192.00	\$90.00		\$192.00 \$90.00
Real Estate Tax Management (hours)				1.00			\$35.00 \$9.00	\$35.00 \$9.00
 Total	0.0) 3.2	\$0.00		\$192.00	\$90.00	\$44.00	\$326.00

Table 2. Year One Planting and Growing Cost for One Acre of Peaches

Activity	Labor	Equipment	Labor	Equipment	Equipment	Material	Other	Total
	hours	hours	cost	code	cost	cost	cost	

Ground Preparation

PEACHCOI .LS

60hp tractor	0.25	0.25	* \$2.25	2	\$1.95			\$4.20
Plow		0.25	\$0.00	8	\$1.07			\$1.07
60hp tractor	0.40	0.40	\$3.60	2	\$3.12			\$6.72
Disc		0.40	\$0.00	9	\$2.01			\$2.01
Pick stone & roots	0.20	0.20	\$1.20	15	\$1.15			\$2.35
Nematode Control							\$125.00	\$125.00
Sprayer	0.31	0.31	\$2.79	5	\$1.22			\$4.01
40 hp tractor		0.31	\$0.00	3	\$1.55			\$1.55
Layout	0.50	0.50	\$3.00	1	\$4.78			\$7.78
Marking	1.00		\$6.00	1	\$0.00			\$6.00
Purchase trees			\$0.00		\$0.00	\$1,302.00		\$1,302.00
Custom Plant			\$0.00		\$0.00		\$54.25	\$54.25
Water trees	2.00	1.00	\$12.00	13	\$5.86			\$17.86
Straw 1/2 bale/tr	2.00	2.00	\$12.00	15	\$11.53	\$135.63		\$159.15
Mouse Bait	0.50	0.50	\$3.00		\$0.00	\$5.00		\$8.00
Mouse Guards	•		\$0.00		\$0.00	\$54.25		\$54.25
Weed Control			\$0.00		\$0.00	\$20.23		\$20.23
Weed sprayer	0.62	0.62	\$5.58	5	\$2.43			\$8.01
40 hp tractor		0.62	\$0.00	3	\$3.10			\$3.10
Insect & Disease Cont			\$0.00		\$0.00	\$99.22		\$99.22
Airblast spr.	1.23	1.23	\$11.07	4	\$14.27			\$25.34
40 hp tractor		1.23	\$0.00	3	\$6.15			\$6.15
Cover Crop	0.30	0.30	\$1.80	6	\$0.68	\$11.13		\$13.61
40 hp tractor		0.30	\$0.00	3	\$1.50			\$1.50
Cultipack	0.30	0.30	\$1.80	12	\$2.03			\$3.83
Mowing	0.21	0.21	\$1.23	7	\$0.88			\$2.12
40 hp tractor		0.21	\$0.00	3	\$1.03			\$1.03
Fertilize	0.50	0.50	\$3.00	6	\$1.13	\$9.77		\$13.90
40 hp tractor		0.50	\$0.00	3	\$2.50			\$2.50
Wildlife Control	6.00	6.00	\$36.00	1	\$57.40	\$32.55		\$125.95
Trellis			\$0.00		\$0.00	\$0.00		\$0.00
Shelter/posts			\$0.00		\$0.00	\$0.00		\$0.00
Cover (Plastic)	0.00		\$0.00		\$0.00	\$0.00		\$0.00
Trickle irrigation	5.00	1.00	\$30.00	17	\$0.00	÷0.00		\$30.00
Real Estate Tax	0.00		+		40.00		\$35.00	\$35.00
Management (hours)	1.00						\$9.00	\$9.00
								\$0.00

Total	21.32	19.13	\$136.32	4 S	\$ \$127.33	\$1,669.77	\$223.25	\$2,156.68
Table 3. Year Two Grow	ving Cost for O	ne Acre of Peach	nes	*				
Activity	Labor hours	Equipment hours	Labor cost	Equipment code	Equipment cost	Material cost	Other cost	Total
60hp tractor	[,] 0.40	0.40	\$3.60	2	\$3.12		,	\$6.72
Disc		0.40	\$0.00	9	\$2.01			\$2.01
Prune/training	3.62	3.62	\$32.55	1	\$34.60	\$27.90	\$54.25	\$149.30
Tree replacement	1.00	1.00	\$6.00	15	\$5.76	\$71.61		\$83.37
Herbicide spray	0.62	0.62	\$3.72	5	\$2.43	\$20.23		\$26.38
40hp tractor		0.62	\$0.00	3	\$3.10			\$3.10
Insect and Disease	1.23	1.23	\$7.38	4	\$14.27	\$99.22		\$120.87
40hp tractor	•	1.23	\$0.00	3	\$6.15			\$6.15
Cover Crop	0.30	0.30	\$1.80	6	\$0.68	\$11.13		\$13.61
40 hp tractor		0.30	\$0.00	3	\$1.50			\$1.50
Mouse control	0.30	0.30	\$1.80	1	\$2.87	\$3.00		\$7.67
Wildlife Control	6.00	6.00	\$36.00	1	\$57.40	\$32.55		\$125.95
Fertilizer	0.50	0.50	\$3.00	6	\$1.13	\$13.02		\$17.15
40 hp tractor		0.50	\$0.00	3	\$2.50			\$2.50
Nematode Control						\$360.00		\$360.00
Sprayer	0.31	0.31	\$2.79	5	\$1.22			\$4.01
40 hp tractor		0.31	\$0.00	3	\$1.55			\$1.55
Trickle irrigation	5.00	1.00	\$30.00	17	\$0.00			\$30.00
Real Estate Tax							\$35.00	\$35.00
Management (hours)	1.00						\$9.00	\$9.00
Total	18.88	17.84	\$125.04		\$135.15	\$638.66	\$98.25	\$997.10
Table 4. Year Three Gro	owing Cost for	One Acre of Pea	ches					
			0					

Activity	Labor	Equipment	Labor	Equipment	Equipment	Material	Other	Total
	hours	hours	cost	code	cost	cost	cost	

-

60hp tractor	0.40	0.40	* \$3.60	2	\$3.12			\$6.72
Disc		0.40	\$0.00	9	\$2.01			\$2.01
Prune/Training	7.23	7.23	\$65.10	1	\$69.19	\$13.95		\$148.24
Tree replacement	1.00	1.00	\$6.00	11	\$3.80	\$71.61		\$81.41
Herbicide spray	0.31	0.31	\$1.86	5	\$1.22	\$3.74		\$6.82
40hp tractor		0.31	\$0.00	3	\$1.55			\$1.55
Insect and Disease	3.08	3.08	\$18.48	4	\$35.73	\$275.02		\$329.23
40hp tractor		3.08	\$0.00	3	\$15.40			\$15.40
Cover Crop	0.30	0.30	\$1.80	6	\$0.68	\$11.13		\$13.61
40 hp tractor		0.30	\$0.00	3	\$1.50			\$1.50
Wildlife control	6.00	6.00	\$36.00	1	\$57.40	\$32.55		\$125.95
Mouse control	0.30	0.30	\$1.80	1	\$2.87	\$3.00		\$7.67
Fertilizer	0.50	0.50	\$3.00	6	\$1.13	\$19.53		\$23.66
40 hp tractor		0.50	\$0.00	3	\$2.50			\$2.50
Lime (2 tons)			\$0.00		\$0.00	\$60.00		\$60.00
Nematode Control	•		\$0.00		\$0.00	\$360.00		\$360.00
Sprayer	0.31	0.31	\$2.79	5	\$1.22			\$4.01
40 hp tractor		0.31	\$0.00	3	\$1.55			\$1.55
Trickle Irrigation	5.00	1.00	\$30.00	17	\$0.00			\$30.00
Real Estate Tax							\$35.00	\$35.00
Management (hours)	1.00						\$9.00	\$9.00
 Total	25.03	24.53	\$166.83		\$195.73	\$850.53	\$44.00	\$1,257.09

Table 5. Year Four Growing Cost for One Acre of Peaches

Activity	Labor hours	Equipment hours	Labor cost	Equipment code	Equipment cost	Material cost	Other cost	Total
60hp tractor	0.40	0.40	\$3.60	2	\$3.12			\$6.72
Disc		0.40	\$0.00	9	\$2.01			\$2.01
Prune	10.85	10.85	\$97.65	1	\$103.79			\$201.44
Tree replacement	1.00	1.00	\$6.00	11	\$3.80	\$43.36		\$53.15
Herbicide spray	0.31	0.31	\$1.86	5	\$1.22	\$3.74		\$6.82
40hp tractor		0.31	\$0.00	3	\$1.55			\$1.55
Insect and Disease	3.08	3.08	\$18.48	4	\$35.73	\$275.02		\$329.23
				Page 4				

Total	2 <u>7.</u> 65	28.15	\$199.38		\$230.32	\$785.84	\$48.50	\$1,264.04
Management (hours)	1.50	·					\$13.50	\$13.50
Real Estate Tax							\$35.00	\$35.00
Trickle Irrigation	5.00	1.00	\$30.00	17	\$0.00	\$30.00		\$60.00
40 hp tractor		0.31	\$0.00	3	\$1.55			\$1.55
Sprayer	0.31	0.31	\$2.79	5	\$1.22			\$4.01
Nematode Control			\$0.00		\$0.00	\$360.00		\$360.00
40 hp tractor		0.50	\$0.00	3	\$2.50			\$2.50
Fertilizer	0.50	0.50	\$3.00	6	\$1.13	\$26.04		\$30.17
Wildlife control	6.00	6.00	\$36.00	1	\$57.40	\$32.55		\$125.95
Mouse control	0.30	0.30	\$1.80	1	\$2.87	\$4.00		\$8.67
40 hp tractor		0.30	\$0.00	3	\$1.50			\$1.50
Cover Crop	0.30	0.30	\$1.80	6	\$0.68	\$11.13		\$13.61
40hp tractor		3.08	÷ \$0.00	3	\$15.40			\$15.40

Table 6. Year Five Growing Cost for One Acre of Peaches

Activity	Labor hours	Equipment hours	Labor cost	Equipment code	Equipment cost	Material cost	Other cost	Total
	0.40	0.40	¢2.00		¢0.40			* 2.70
60hp tractor	0.40	0.40	\$3.60	2	\$3.12			\$6.72
Disc	4 4 4 7	0.40	\$0.00	9	\$2.01			\$2.01
Prune	14.47	14.47	\$130.20	1	\$138.39			\$268.59
Tree replacement	0.50	0.50	\$3.00	11	\$1.90	\$28.90		\$33.80
Herbicide spray	0.31	0.31	\$1.86	5	\$1.22	\$3.74		\$6.82
40hp tractor		0.31	\$0.00	3	\$1.55			\$1.55
Insect and Disease	3.08	3.08	\$18.48	4	\$35.73	\$275.02		\$329.23
40hp tractor		3.08	\$0.00	3	\$15.40			\$15.40
Cover Crop	0.30	0.30	\$1.80	6	\$0.68	\$11.13		\$13.61
40 hp tractor		0.30	\$0.00	3	\$1.50			\$1.50
Mouse control	0.30	0.30	\$1.80	1	\$2.87	\$4.00		\$8.67
Wildlife control	6.00	6.00	\$36.00	1	\$57.40	\$32.55		\$125.95
Fertilizer	0.50	0.50	\$3.00	6	\$1.13	\$26.04		\$30.17
40 hp tractor		0.50	\$0.00	3	\$2.50			\$2.50
Nematode Control			\$0.00		\$0.00	\$360.00		\$360.00

Sprayer 40 hp tractor	0.31	0.31 0.31	* \$2.79 \$0.00	5 3	\$1.22 \$1.55			\$4.01 \$1.55
Trickle Irrigation Real Estate Tax	5.00	1.00	\$30.00	17	\$0.00	\$30.00	\$35.00	\$60.00 \$35.00
Management (hours)	2.00						\$18.00	\$18.00
Total	30.77	31.27	\$228.93		\$263.02	\$771.38	\$53.00	\$1,316.34

Table 7. Year Six Growing Cost for One Acre of Peaches

Activity	Labor hours	Equipment hours	Labor cost	Equipment code	Equipment cost	Material cost	Other cost	Total
60hp tractor	0.40	0.40	\$3.60	2	\$3.12			\$6.72
Disc		0,40	\$0.00	9	\$2.01			\$2.01
Rrune	14.47	14.47	\$130.20	5	\$138.39			
		0.50	· · ·	11		¢00.00		\$268.59
Tree replacement	0.50		\$3.00	11	\$1.90	\$28.90		\$33.80
Herbicide spray	0.31	0.31	\$1.86	5	\$1.22	\$3.74		\$6.82
40hp tractor	0.00	0.31	\$0.00	3	\$1.55	4075 00		\$1.55
Insect and Disease	3.08	3.08	\$18.48	4	\$35.73	\$275.02		\$329.23
40hp tractor		3.08	\$0.00	3	\$15.40			\$15.40
Cover Crop	0.30	0.30	\$1.80	6	\$0.68	\$11.13		\$13.61
40 hp tractor		0.30	\$0.00	3	\$1.50			\$1.50
Mouse control	0.30	0.30	\$1.80	1	\$2.87	\$4.00		\$8.67
Wildlife control	6.00	6.00	\$36.00	1	\$57.40	\$32.55		\$125.95
Fertilizer	0.50	0.50	\$3.00	6	\$1.13	\$26.04		\$30.17
40 hp tractor		0.50	\$0.00	3	\$2.50			\$2.50
Nematode Control			\$0.00		\$0.00	\$360.00		\$360.00
Sprayer	0.31	0.31	\$2.79	5	\$1.22			\$4.01
40 hp tractor		0.31	\$0.00	3	\$1.55			\$1.55
Trickle Irrigation	5.00	1.00	\$30.00	17	\$0.00	\$30.00		\$60.00
Paint trunks	1.00	1.00	\$6.00	1	\$9.57	\$15.00		\$30.57
Real Estate Tax			+		+		\$35.00	\$35.00
Management (hours)	3.00	۵. الد ما					\$27.00	\$27.00
Total	31.77	32.27	\$234.93		\$272.59	\$786.38	\$62.00	\$1,355.90

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 Table 8. Year Seven Growing Cost for One Acre of Peaches

Activity	Labor hours	Equipment hours	Labor cost	Equipment code	Equipment cost	Material cost	Other cost	Total
60hp tractor	0.40	0.40	\$3.60	2	\$3.12			\$6.72
Disc		0.40	\$0.00	9	\$2.01			\$2.01
Prune	8.00	8.00	\$72.00	1	\$76.53			\$148.53
Tree replacement	0.50	0.50	\$3.00	11	\$1.90	\$28.90		\$33.80
Herbicide spray	0.31	. 0.31	\$1.86	5	\$1.22	\$3.74		\$6.82
40hp tractor		0.31	\$0.00	3	\$1.55			\$1.55
Insect and Disease	3.08	3.08	\$18.48	4	\$35.73	\$275.02		\$329.23
40hp tractor	•	3.08	\$0.00	3	\$15.40			\$15.40
Cover Crop	0.30	0.30	\$1.80	6	\$0.68	\$11.13		\$13.61
40 hp tractor		0.30	\$0.00	3	\$1.50			\$1.50
Mouse control	0.30	0.30	\$1.80	1	\$2.87	\$4.00		\$8.67
Wildlife control	6.00	6.00	\$36.00	1	\$57.40	\$32.55		\$125.95
Fertilizer	0.50	0.50	\$3.00	6	\$1.13	\$26.04		\$30.17
40 hp tractor		0.50	\$0.00	3	\$2.50			\$2.50
Nematode Control			\$0.00		\$0.00	\$360.00		\$360.00
Sprayer	0.31	0.31	\$2.79	5	\$1.22			\$4.01
40 hp tractor		0.31	\$0.00	3	\$1.55			\$1.55
Trickle Irrigation	5.00	1.00	\$30.00	17	\$0.00	\$30.00		\$60.00
Paint trunks	1.00	1.00	\$6.00	1	\$9.57	\$15.00		\$30.57
Real Estate Tax							\$35.00	\$35.00
Management (hours)	3.00	·					\$27.00	\$27.00
Total	· 25.30	25.80	\$176.73		\$210.73	\$786.38	\$62.00	\$1,235.84

Table 9, Development Costs Including Interest

Y	ear	Growing	Interest	Annual	Accumulated
		Costs		Total	Total

Site preparation	\$326.00	\$96.00		\$422.00				
Year 1	2,156.68	146.64	2,303.32	2,725.32				
Year 2	997.10	423.04	1,420.14	4,145.45				
Year 3	1,257.09	593.45	1,850.54	5,995.99				
Year 4	1,264.04	815.52	2,079.56	8,075.55				
Year 5	1,316.34	1,065.07	2,381.40	10,456.96				
Year 6	1,355.90	1,350.83	2,706.74	13,163.69				
Year 7	1,235.84	1,675.64	2,911.49	16,075.18				
Accumulated Total	\$9,908.98	\$6,166.20	\$16,075.18					
Table 10. Poten	tial Profit from		238	Bushels/Acre	Average Mature			
Yield and				Per Bushel				
Year	Yield	Gross	Annual	Harvest	Interest	Total	Annual	Accumu-
	per	Income	growing	cost @	on	Annual	Profit	lated
	acre		cost	\$1.89	Investment	Cost		Profit
	(Bushel)			/Bushel	12.00%			
Site preparation			\$326.00		\$96.00	\$422.00	(\$422.00)	(\$422.00)
	1 0.00	0.00	2,156.68	0.00	146.64	2,303.32	(2,303.32)	(2,725.32
	2 0.00	0.00	997.10	0.00	372.40	1,369.50	(1,369.50)	(4,094.81
	3 100.00	2000.00	1,257.09	189.00	260.34	1,517.43	482.57	(3,612.24
	4 200.00	4000.00	1,264.04	378.00	278.09	1,542.13	2,457.87	(1,154.37
	5 250.00	5000.00	1,316.34	472.50	281.06	1,597.39	3,402.61	2,248.24
	6 250.00	5000.00	1,355.90	472.50	287.69	1,643.59	3,356.41	5,604.65
	7 300.00	6000.00	1,235.84	567.00	293.23	1,529.07	4,470.93	10,075.58
	8 350.00	7000.00	1,235.84	661.50	279.49	1,515.33	5,484.67	15,560.24
	9 350.00	7000.00	1,235.84	661.50	277.84	1,513.68	5,486.32	21,046.56
1	0 300.00	6000.00	1,235.84	567.00	277.64	1,513.48	4,486.52	25,533.08
' 1	1 250.00	5000.00	1,235.84	472.50	277.62	1,513.46	3,486.54	29,019.62
1:	2 250.00	5000.00	1,235.84	472.50	277.62	1,513.46	3,486.54	32,506.16
1	3 200.00	4000.00	1,235.84	378.00	277.61	1,513.46	2,486.54	34,992.70
1.		2000.00	1,235.84	189.00	277.61	1,513.46	486.54	35,479.25
1		2000.00	1,235.84	189.00	277.61	1,513.46	486.54	35,965.79
Value of land after 15	j years	\$800.00	19,795.72		4,238.49	24,034.21		

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1,319.71 282.57 1,602,28 \$7.49

231 Bushels Per Acre

\$1.89 / Bushel

Table 11. Present Value of the Potential Profit from
Average mature Yield at a Price of
and a discount rate of23\$20.00 per Bushel, harvest rate of
12.00%

Yield Year Gross Annual Harvest Net Annual Accumulated per Income arowing cost Annual Discount present present acre Profit cost Factor value of value of profit profit Value of land \$800.00 (\$800.00) \$0.00 Site preparation \$326.00 (\$326.00) \$0.00 1 0 \$0.00 \$2.156.68 \$0.00 (\$2,156.68) 0.8929 (\$1,925.60)(\$1,925.60)2 . 0 \$997.10 \$0.00 \$0.00 (\$997.10)0.7972 (\$794.88) (\$2,720.49)3 \$1,257.09 100 \$2,000.00 \$189.00 0.7118 • . \$553.91 \$394.27 (\$2,326.22)4 200 \$4,000.00 \$1,264.04 \$378.00 \$2,357.96 0.6355 \$1,498.53 (\$827.69) 5 250 \$5,000.00 \$1,316.34 \$472.50 \$3,211.16 0.5674 \$1,822.10 \$994.41 6 \$5,000.00 \$1.355.90 \$472.50 \$1,606.83 250 \$3,171.60 0.5066 \$2.601.24 7 \$6,000.00 \$1,235.84 \$567.00 300 \$4,197.16 0.4523 \$1,898.58 \$4,499.82 8 350 \$7,000.00 \$1.235.84 \$661.50 \$5,102.66 0.4039 \$2.060.88 \$6,560.70 9 350 \$7,000.00 \$1,235.84 \$661.50 \$5,102.66 0.3606 \$1,840.07 \$8,400.76 10 300 \$6,000.00 \$1.235.84 \$567.00 \$4,197.16 0.3220 \$1.351.37 \$9,752.14 11 250 \$5,000.00 \$1.235.84 \$472.50 \$3,291.66 0.2875 \$946.27 \$10,698.41 12 250 \$5,000.00 \$1,235.84 \$472.50 \$3,291.66 0.2567 \$844.89 \$11,543.30 13 200 \$4,000.00 \$1,235.84 \$378.00 \$2,386.16 0.2292 \$546.85 \$12,090.14 14 \$2,000.00 \$1,235.84 \$189.00 \$575.16 0.2046 \$117.69 \$12,207.83 100 15 100 \$2,000.00 \$1,235.84 \$189.00 \$575.16 0.1827 \$105.08 \$12,312.91 Value of land after 15 years \$800.00 \$800.00 0.1827 \$146.16 \$12,459.07

Table 12

Effect of varying yield on cost/bushel for peaches (fresh market)

	(MED DENSIT	217)	Trees/Acre
Average growing cost 15 years		\$1,373.05	
Average interest cost 15 years		\$282.57	
Growing	Harvest	Interest	Total
Cost	Cost	Cost	Cost

Average Yield/Acre	per Bushel	per Bushel	per [·] Bushel	per Bushel	
100	\$13.73	\$1.89	\$2.83	\$18.45	
150	\$9.15	\$1.89	\$1.88	\$12.93	
200	\$6.87	\$1.89	\$1.41	\$10.17	
250	\$5.49	\$1.89	\$1.13	\$8.51	
350	\$3.92	\$1.89	\$0.81	\$6.62	
400	\$3.43	\$1.89	\$0.71	\$6.03	
450	\$3.05	\$1.89	\$0.63	\$5.57	

Prepared by:

W. Conard "Bud" Search for Dr. James A. Flore, MSU, Professor, Dept. of Horticulture 03-Oct-94

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Modified for Excel 3.0 by Mark Longstroth (1-Mar-1992)

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EQUIP MISC	=\$X\$4
FERT01	=\$Q\$46
FERT02	=\$Q\$47
FERT03	=\$Q\$48
FERT04	=\$Q\$49
FERT05	=\$Q\$50
FERT06	=\$Q\$51
FERT07	=\$Q\$52
FERTCST	=\$G\$12
FUEL	=\$V\$3
HARCST	=\$G\$15
HERB01_AREA	=\$U\$62
HERB01_LABOR	=\$P\$67
HERB01_MAT	=\$S\$67
HERB02_AREA	=\$U\$89
HERB02_LABOR	=\$P\$94
NERBO2_MAT	=\$S\$94
herb03_area	=\$U\$118
herb03_labor	=\$P\$123
HERB03_MAT	=\$S\$123
HERBNO_01	=\$O\$63
HERBNO_02	=\$0\$90
HERBNO_03	=\$0\$119
INTEREST_RATE	=\$G\$14
LANDVAL	=\$G\$8
MACROS	=\$A\$376
MANAGEMENT	=\$P\$42:\$W\$74
MOUSE	=\$R\$55
MOUSEGRD	=\$G\$13
mow	=\$V\$53
MOW01	=\$V\$4 6
MOW02	=\$V\$47
MOW03	=\$V\$48
MOW04	=\$V\$49
MOW05	=\$V\$50
MOW06	=\$V\$51
MOW07	=\$V\$52

Mowtime	= \$V\$45
NEMCST	=\$G\$10
NOSKILL	=\$C\$8
NOTREES	=\$E\$20
POSTCST	=\$C\$16
POTPROF	=\$A\$250
PRESVAL	=\$A\$282
PRICE	=\$G\$16
PRUN01	=\$S\$46
PRUN02	=\$S\$47
PRUN03	=\$S\$48
PRUN04	=\$\$\$49
PRUN05	=\$\$\$50
PRUN06	=\$S\$51
PRUN07	=\$S\$52
RE_TAX	=\$G\$9
ROW_LGTH	=\$P\$59
Row_width	=\$B\$20
SKILLED	=\$C\$9
Spac_tree	=\$C\$20
SPRAY01_LABOR	=\$P\$84
SPRAY01_MAT	=\$S\$84
SPRAY02_LABOR	=\$P\$111
SPRAY02_MAT	=\$S\$111
SPRAY03_LABOR	=\$P\$140
SPRAY03_MAT	=\$S\$140
SPRAYNO_01	=\$0\$83
SPRAYNO_02	=\$O\$110
SPRAYNO_03	=\$O\$139
SPRAY_MATURE	=\$O\$116:\$Z\$141
SPRAY_YOUNG	=\$O\$87:\$Z\$111
STANINC	=\$K\$291:\$K\$313
STRAW	=\$C\$12
TGRCST0	=\$ \$33
TGRCST01	=\$1\$77
TGRCST02	=\$1\$102
TGRCST03	=\$ \$128

TGRCST04	=\$1\$153
TGRCST05	=\$1\$178
TGRCST06	=\$1\$204
TGRCST07	=\$1\$231
TREETRIM	=\$C\$14
TREE ACRE	=\$E\$20
TRELLCST	=\$C\$15
TRMORT01	=\$T\$46
TRMORT02	=\$T\$47
TRMORT03	=\$T\$48
TRMORT04	=\$T\$49
TRMORT05	=\$T\$50
TRMORT06	=\$T\$51
WILDLIFE	=\$C\$17
YIELD	=\$B\$259;\$B\$278
A	=\$B\$377
15	=\$B\$379:\$C\$379
1C	=\$B\$381:\$C\$381
\D	=\$B\$383:\$C\$383
١E	=\$B\$385:\$C\$385
١F	=\$B\$387:\$C\$387

Table 13. Equipment Cost

ltem	Equip. code	Cost	- Index cost	Years life		Annual depr.	Interest 12.0%	Gal. fuel /hr.
 6ਂਯੋਖਿਸਪੀesel Airblast	1	\$12,000	\$11,000		5	\$2,200	\$660	1.73
sprayer	4	\$20,000	\$18,000		10	\$1,800	\$1,080	1.44
Weed Sprayer 3pt. fert.	5	\$3,500	\$2,275		10	\$228	\$137	
Spreader	6	\$1,150	\$874		7	\$125	\$52	
Rotary Mower	7	\$5,000	\$3,800		7	\$543	\$228	
Plow 3/16	8	\$1,400	\$770		15	\$51	\$46	•
Disc Spring tooth	9	\$3,500	\$1,925		15	\$128	\$116	
harrow	10	\$1,600	\$880		15	\$59	\$53	
Tree planter	11	\$1,200	\$780		10	\$78	\$47	
Cultipacker	12	\$1,200	\$660		15	\$44	\$40	
Water tank	13	\$2,500	\$2,100		5	\$420	\$126	1.60
Dump truck Flat bed	14	\$2,500	\$2,100		5	\$420	\$126	1.60
truck Drip Irrigation	15	\$5,000	\$4,250		5	\$850	\$255	1.60
Low Density/A Drip Irrigation	. 16	\$300	\$300		20	\$15	\$18	
High Density/A	17		\$450		20	\$23	\$27	

Orchard Management Tables

Others are	related to ho	w many	times a	in operatio	n is preformed	d each year
	Fertilizer	Pruning		Pruning	Tree	Mowing at
	lb/tree	min/tree	;	hr/acre	death	# times?
Year 1	0.45			0.	0 5.5%	1
Year 2	0.60		1	3.	6 5.5%	2
Year 3	0.90		2	7.	2 3.3%	2
Year 4	1.20		3	10.	9 2.2%	2
Year 5	1.20		4	14.	5 2.2%	2
Year 6	1.20		4	14.	5 2.2%	2
Year 7+	1.20		5	18.	1	2
					Mow	er Speed is
Wildlife con	ntrol is		\$0.15	tree		
Mouse con	trol bait is		\$4.00	acre		

Table 14. Many costs are tied to the number of trees acre and change as t Others are related to how many times an operation is preformed each year

2170 Linear ft of tree row / acre.	<u>4</u>	
Non-Bearing Orchard Spray Management		
2 mph is the Herbicide Sprayer Speed		
2 ft is the width of the herbicide swath and		0.10
2 Contact Herbicide sprays @	8.0 pts / treated acre	
Paraquat costing	\$30 Gal.	
One spray with Residual Herb. @	2.5 lb./acre	
Cost of Simizine	\$3 lb.	
0.62 hours of labor and	\$20.23 of material	

2 mph is the Airblast sprayer speed

20 ft is the row width		Rate	Cost /lb.
1 Dormant spray containing	ng Oil @	0.00 gal./A @	\$0.00
	Asana XL	8.00 oz/A	\$0.00
	Ferbam 76W	4.50 lb/acre	\$3.75
1 Pre&Post Bloom Spray	Bravo 720	4.00 pts./acre	\$0.00
	Asana XL	8.00 oz/A	\$0.00
1 Cover Sprays with	Captan 50W	6.00 lbs./acre	\$2.30

PEACHCON. KLS

	Guthion 35W	3.00	lbs/acre	\$4.40
1 Trunk Sprays	Lorsban 4E	3.00	qts/100gal	\$0.00
4 Total Sprays 1.23 hours of lab	or and	\$99.22	of material	
One spray with Residua	brayer Speed bicide swath and ys @ Paraquat costing al Herb. @ Cost of Simizine	\$30 2.5 \$3	lb./acre	0.10 cre
2 mph is the Airblast spra 20 ft is the row width		ate	C	ost /lb.
1 Dormant spray	Asana XL Ferbam 76W	8.00	gal./A @ oz/A lb/acre	\$0.00 \$0.00 \$3.75
1 Pink Sprays	Fungicide @ Asana XL		lbs/acre oz/A	\$0.00 \$0.00
1 Bloom Sprays	Bravo 720 Insecticide @		pts./acre lbs/acre	\$0.00 \$0.00
1 Petal Fall Sprays	Bravo 720 Guthion 35W		pts./acre lbs/acre	\$0.00 \$4.40
1 Shuck-Split Sprays	Bravo 720 Asana XL		pts./acre oz/A	\$0.00 \$0.00
2 Cover Sprays	Captan 50W	6.00	lbs./acre	\$2.30

3	Guthion 35W	3.00 lbs/acre	\$4.40
1 Trunk Sprays	Lorsban 4E	3.00 qts/100gal	\$0.00
1 Cover Sprays	Captan 50W	6.00 lbs./acre	\$2.30
	Guthion 35W	3.00 lbs/acre	\$4.40
1 Pre-harvest Sprays	Ro∨ral 50W	2.00 lbs./acre	\$20.50
	Guthion 35W	3.00 lbs/acre	\$4.40
0 Post-harvest Sprays	Fungicide	0.00 qts/100gal	\$0.00
	Insecticide @	0.00 lbs/acre	\$0.00
10 Total Sprays 3.08 hours of lab	oor and	\$275.02 of material	

Mature Bearing Orchard Spray Management		
2 mph is the Herbicide Sprayer Speed		
2 ft is the width of the herbicide swath and		0.10
1 Contact Herbicide sprays @	8.0 pts / treated acre	
Paraquat costing	\$30 Gal.	
One spray with Residual Herb. @	2.5 lb./acre	
Cost of Simizine	\$3 lb.	
0.31 hours of labor and	\$3.74 of material	

2 mph is the Airblast s	prayer speed		Material
20 ft is the row width		Rate	Cost /lb.
1 Dormant spray		0.00 gal./A @	\$0.00
	Asana XL	8.00 oz/A	\$0.00
	Ferbam 76W	4.50 lb/acre	\$3.75
1 Pink Sprays	Fungicide @	0.00 lbs/acre	\$0.00
	Asana XL	8.00 oz/A	\$0.00

1 Bloom Sprays	Bravo 720	4.00 pts./acre	\$0.00
	Insecticide @	0.00 lbs/acre	\$0.00
1 Petal Fall Sprays	Bravo 720	4.00 pts./acre	\$0.00
	Guthion 35W	3.00 lbs/acre	\$4.40
1 Shuck-Split Sprays	Bravo 720	4.00 pts./acre	\$0.00
· · · · · · · · · · · · · · · · · · ·	Asana XL	8.00 oz/A	\$0.00
2 Cover Sprays	Captan 50W	6.00 lbs./acre	\$2.30
	Guthion 35W	3.00 lbs/acre	\$4.40
1 Trunk Sprays	Lorsban 4E	3.00 qts/100gal	\$0.00
1 Cover Sprays	Captan 50W	6.00 lbs./acre	\$2.30
	Guthion 35W	3.00 lbs/acre	\$4.40
1 Pre-harvest Sprays	Rovral 50W	2.00 lbs./acre	\$20.50
	Guthion 35W	3.00 lbs/acre	\$4.40
0 Post-harvest Sprays	Fungicide	0.00 qts/100gal	\$0.00
	Insecticide @	0.00 lbs/acre	\$0.00
10 Total Sprays			

3.08 hours of labor and \$275.02 of material

Fuel \$1.25 /gal.	Repair + main.	Other cost 1%	Total annual cost	Hours of use	Cost per hour	Rate used
\$1,083	\$720	\$120	\$4,783	500	\$9.57	\$9.57
\$720	\$840	\$200	\$4,640	400	\$11.60	\$11.60
	\$189	\$35	\$588	150	\$3.92	\$3.92
	\$151	\$12	\$340	150	\$2.27	\$2.27
	\$471	\$50	\$1,292	300	\$4.31	\$4.31
i	\$17	\$14	\$129	30	\$4.28	\$4.28
\$0	\$98	\$35	\$377	75	\$5.02	\$5.02
\$0	\$45	\$16	\$172	75	\$2.30	\$2.30
\$0	\$15	\$12	\$152	40	\$3.80	\$3.80
\$0	\$6	\$12	\$102	15	\$6.77	\$6.77
\$400	\$200	\$25	\$1,171	200	\$5.86	\$5.86
\$300	\$1 50 ·	\$25	\$1,021	150	\$6.81	\$6.81
\$800	\$350	\$50	\$2,305	400	\$5.76	\$5.76
	\$18	\$22	\$73	1	\$73.00	\$73.00
	\$27	\$66	\$143	1	\$142.50	\$142.50

he orchard a	ges
--------------	-----

he ord	chard	ages
takes	hr.	Mouse
	0.21	Bait/A
	0.21	
	0.41	
	0.41	
	0.41	
	0.41	
	0.41	
	0.41	
	3	mph

is the treated acrege

	Cost / gal.		Cost/Acre
Gal.	\$0.00	Gal.	\$0
lb.	\$1.00	Oz.	\$8
lb.	\$0.00	Gal.	\$17
lb.	\$5.80	Pt.	\$23
lb.	\$1.00	Oz.	\$8
lb.	\$0.00	Pt.	\$14

lb.	\$0.00	Gal.	\$13
lb.	\$5.38	Qt.	\$16

is the treated acrege

	Cost / gal.		Cost/Acre
Gal.	\$0.00	Gal.	\$0
lb.	\$1.00	Oz.	\$8
lb.	\$0.00	Gal.	\$17
			\$0
lb.	\$0.00	Gal.	\$0
lb.	\$1.00	Oz.	\$8
			\$0
lb.	\$5.80	Pt.	\$23
lb.	\$0.00	Gal.	\$0
			\$0
lb.	\$5.80	Pt.	\$23
lb.	\$0.00	Gal.	\$13
			\$0
lb.	\$5.80	Pt.	\$23
lb.	\$1.00	Oz.	\$8
lb.	\$0.00	Pt.	\$28

lb.	\$0.00	Gal.	\$26
lb.	\$5.38	Qt.	\$16
lb.	\$0.00	Pt.	\$14
lb.	\$0.00	Gal.	\$13
lb.	\$0.00	Pt.	\$41
lb.	\$0.00	Gal.	\$13
			\$0
lb.	\$0.00	Gal.	\$0
lb.	\$0.00	Gal.	\$0

is the treated acrege

	Material		
	Cost / gal.		Cost/Acre
Gal.	\$0.00	Gal.	\$0
lb.	\$1.00	Oz.	\$8
lb.	\$0.00	Gal.	\$17
			\$0
lb.	\$0.00	Gal.	\$0
lb.	\$1.00	Oz.	\$8
			\$0

lb.	\$5.80	Pt.	\$23
lb.	\$0.00	Gal.	\$0
			\$0
lb.	\$5.80	Pt.	\$23
lb.	\$0.00	Gal.	\$13
			\$0
lb.	\$5.80	Pt.	\$23
lb.	\$1.00	Oz.	\$8
lb.	\$0.00	Pt.	\$28
lb.	\$0.00	Gal.	\$26
lb.	\$5.38	Qt.	\$16
lb.	\$0.00	Pt.	\$14
lb.	\$0.00	Gal.	\$13
1			
lb.	\$0.00	Pt.	\$41
lb.	\$0.00	Gal.	\$13
			\$0
lb.	\$0.00	Gal.	\$0
lb.	\$0.00	Gal.	\$0