

FEASIBILITY STUDY FOR A
BEAVER RESERVIOR
AGRICULTURAL WATER SUPPLY
VOLUME II

by

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TABLE 1. ESTIMATED COSTS AND RETURNS PER ACRE, 6 ROW EQUIPMENT,
 APPLES, COSTS FOR 1ST YR IN A NONIRRIGATED
 ORCHARD, NORTHWEST ARKANSAS, 1981

		PRICE OR	VALUE	YOUR	
		UNIT	COST/UNIT	QUANTITY	OR COST ESTIMATE

GROSS RECEIPTS FROM PRODUCTION					

TOTAL				0.0	-----
VARIABLE COSTS					
PRE-HARVEST					
LAND PREP CUS	ACRE	50.00	1.00	50.00	-----
RABBIT GUARD	EA.	0.25	181.00	45.25	-----
SURFLAN	LB.	3.00	4.00	12.00	-----
PARAQUAT	LB.	18.30	0.40	7.32	-----
APPLE TREES	EA.	3.75	181.00	678.75	-----
AMMONIUM NITRATE	CWT	7.50	0.70	5.25	-----
HOURLY LABOR	HR.	3.50	36.50	127.75	-----
MACHINERY	ACRE	0.84	1.00	0.84	-----
TRACTORS	ACRE	18.82	1.00	18.82	-----
LABOR (MACH & TRACT)	HOURLY	3.56	6.01	21.39	-----
INTEREST ON OP. CAP.	DOL.	0.14	698.22	97.75	----- 51.49 @ 7 %
SUBTOTAL, PRE-HARVEST				1065.12	----- 1018.86
HARVEST COSTS					
SUBTOTAL, HARVEST				0.0	-----
MANAGEMENT CHARGE	DOL.	0.10	1018.86	101.89	-----
TOTAL VARIABLE COST				1065.12	----- 1120.76
INCOME ABOVE VARIABLE COSTS				-1065.12	----- -1120.02
FIXED COSTS					
PRE-HARVEST					
MACHINERY	ACRE	6.20	1.00	6.20	-----
TRACTORS	ACRE	16.29	1.00	16.29	-----
HARVEST					
MACHINERY	ACRE	0.0	1.00	0.0	-----
TRACTORS	ACRE	0.0	1.00	0.0	-----
OVERHEAD LABOR	ACRE	22.03	1.00	22.03	-----
TOTAL FIXED COSTS				44.52	-----
TOTAL COSTS				1109.64	----- 1164.54
NET RETURNS ABOVE SPECIFIED COSTS				-1109.64	----- -1164.54
=====					

TABLE 2. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 APPLES, COSTS FOR 2ND YR IN A NONIRRIGATED
 ORCHARD, NORTHWEST ARKANSAS, 1981

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST	YOUR ESTIMATE
GROSS RECEIPTS FROM PRODUCTION					
TOTAL				0.0	
VARIABLE COSTS					
PRE-HARVEST					
FERT 13-13-13	CWT	8.25	3.60	29.70	
HOURLY LABOR	HR.	3.50	18.00	63.00	
PRINCEP	LB.	4.93	0.80	3.94	
PARAQUAT	LB.	2.00	0.60	1.20	
SEVIN	LB.	2.35	2.00	4.70	
APPLE TREES	EA.	3.75	9.00	33.75	
DORMANT OIL	GAL.	8.93	1.50	13.39	
STREPTOMYCIN	OZ.	2.95	10.00	29.50	
ZINEB	LB.	5.79	2.00	11.58	
AMMONIUM NITRATE	CWT	7.50	1.50	11.25	
DIAZINON	LB.	9.75	2.00	19.50	
MACHINERY	ACRE	0.84	1.00	0.84	
TRACTORS	ACRE	12.81	1.00	12.81	
LABOR (MACH & TRACT)	HOUR	3.56	4.09	14.56	
INTEREST ON OP. CAP.	DOL.	0.14	164.72	23.06	12.15 @ 7
SUBTOTAL, PRE-HARVEST				272.79	261.88
HARVEST COSTS					
SUBTOTAL, HARVEST				0.0	
MANAGEMENT CHARGE	DOL.	0.10	261.88		26.19
TOTAL VARIABLE COST				272.79	288.07
INCOME ABOVE VARIABLE COSTS				-272.79	288.07
FIXED COSTS					
PRE-HARVEST					
MACHINERY	ACRE	7.76	1.00	7.76	
TRACTORS	ACRE	11.09	1.00	11.09	
HARVEST					
MACHINERY	ACRE	0.0	1.00	0.0	
TRACTORS	ACRE	0.0	1.00	0.0	
OVERHEAD LABOR	ACRE	15.00	1.00	15.00	
TOTAL FIXED COSTS				33.85	
TOTAL COSTS				306.64	321.92
NET RETURNS ABOVE SPECIFIED COSTS				-306.64	321.92

TABLE 3. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT, APPLES, COSTS FOR 3RD YR IN A NONIRRIGATED ORCHARD, NORTHWEST ARKANSAS, 1981

		PRICE OR	QUANTITY	VALUE	YOUR
		UNIT COST/UNIT		OR COST	ESTIMATE

GROSS RECEIPTS FROM PRODUCTION					

TOTAL				0.0	-----
VARIABLE COSTS					
PRE-HARVEST					
HOURLY LABOR	HR.	3.50	13.50	47.25	-----
DORMANT OIL	GAL.	8.93	2.00	17.86	-----
STREPTOMYCIN	OZ.	2.95	12.00	35.40	-----
AMMONIUM NITRATE	CWT	7.50	1.30	9.75	-----
DIAZINON	LB.	9.75	1.00	9.75	-----
KARMEX	LB.	2.15	4.00	8.60	-----
ROUNDUP	GAL.	72.00	0.25	18.00	-----
IIMIDAN	LB.	2.56	1.50	3.84	-----
ZINEB	LB.	5.79	1.50	8.68	-----
SEVIN	LB.	2.35	2.00	4.70	-----
OMITE	LB.	3.55	1.20	4.26	-----
MACHINERY	ACRE	0.63	1.00	0.63	-----
TRACTORS	ACRE	12.98	1.00	12.98	-----
LABOR (MACH & TRACT)	HOUR	3.56	4.14	14.75	-----
INTEREST ON OP. CAP.	DOL.	0.14	122.42	17.14	-----
					9.03 @ 7 3/8%
SUBTOTAL, PRE-HARVEST				213.60	205.49
HARVEST COSTS					
SUBTOTAL, HARVEST					
MANAGEMENT CHARGE	DOL.	0.10	205.49	0.0	20.55
TOTAL VARIABLE COST				213.60	226.04
INCOME ABOVE VARIABLE COSTS				-213.60	226.04
FIXED COSTS					
PRE-HARVEST					
MACHINERY	ACRE	6.48	1.00	6.48	-----
TRACTORS	ACRE	11.23	1.00	11.23	-----
HARVEST					
MACHINERY	ACRE	0.0	1.00	0.0	-----
TRACTORS	ACRE	0.0	1.00	0.0	-----
OVERHEAD LABOR	ACRE	15.19	1.00	15.19	-----
TOTAL FIXED COSTS				32.91	-----
TOTAL COSTS				246.51	258.95
NET RETURNS ABOVE SPECIFIED COSTS				-246.51	258.95
=====					

TABLE 3. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT, FOR APPLES, AVERAGE ANNUAL ESTIMATES FOR 5TH AND 6TH YEARS, NONIRRIGATED ORCHARD, NORTHWEST ARKANSAS, 1981

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST	YOUR ESTIMATE
GROSS RECEIPTS FROM PRODUCTION					
APPLES	BU.	4.29	221.00	948.09	-----
TOTAL				948.09	-----
VARIABLE COSTS					
PRE-HARVEST					
LIME APPLIED	TON	18.00	1.00	18.00	-----
HOURLY LABOR	HR.	3.50	35.50	124.25	-----
DORMANT OIL	GAL.	8.93	2.50	22.32	-----
STREPTOMYCIN	OZ.	2.95	14.00	41.30	-----
FOLIAR ANALYSIS	ACRE	0.80	1.00	0.80	-----
AMMONIUM NITRATE	CWT	7.50	2.00	15.00	-----
DIAZINON	LB.	9.75	1.50	14.63	-----
FERRAM	LB.	11.44	2.30	26.31	-----
KARMEX	LB.	2.15	4.00	8.60	-----
LIME APPLIED	TON	18.00	1.00	18.00	-----
ROUNDUP	GAL.	72.00	0.26	18.72	-----
IIMIDAN	LB.	2.56	2.30	5.89	-----
ZINEB	LB.	5.79	1.15	6.66	-----
CAPTAN	LB.	3.60	10.50	37.80	-----
SEVIN	LB.	2.35	10.70	25.14	-----
OMITE	LB.	3.55	3.60	12.78	-----
SOLUBAR	LB.	0.60	4.00	2.40	-----
CALCIUM CHLORIDE	LB.	0.23	15.00	3.45	-----
MACHINERY	ACRE	0.90	1.00	0.90	-----
TRACTORS	ACRE	16.04	1.00	16.04	-----
LABOR (MACH & TRACT)	HR.	3.56	5.12	18.22	-----
INTEREST ON OP. CAP.	DOL.	0.14	183.50	25.69	13.53 @ 7 3/8
SUBTOTAL, PRE-HARVEST				462.90	450.74
HARVEST COSTS					
HOURLY LABOR	HR.	3.50	55.00	192.50	-----
MACHINERY	ACRE	15.10	1.00	15.10	-----
LABOR (MACH & TRACT)	HR.	3.56	2.40	8.54	-----
SUBTOTAL, HARVEST				216.14	-----
MANAGEMENT CHARGE	DOL.	0.10	666.88		66.69
TOTAL VARIABLE COST				679.04	733.57
INCOME ABOVE VARIABLE COSTS				269.05	214.52
FIXED COSTS					
PRE-HARVEST					
MACHINERY	ACRE	11.15	1.00	11.15	-----
TRACTORS	ACRE	13.88	1.00	13.88	-----
HARVEST					
MACHINERY	ACRE	8.41	1.00	8.41	-----
TRACTORS	ACRE	0.0	1.00	0.0	-----
OVERHEAD LABOP	ACRE	27.57	1.00	27.57	-----
TOTAL FIXED COSTS				61.00	-----
TOTAL COSTS				740.04	794.57

TABLE 6. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 FOR APPLES, AVERAGE ANNUAL ESTIMATES FOR 7TH AND 8TH
 YEARS, NONIRRIGATED ORCHARD, NORTHWEST ARKANSAS, 1981

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST	YOUR ESTIMATE

GROSS RECEIPTS FROM PRODUCTION					
APPLES	BU.	4.29	484.00	2076.36	-----
TOTAL				2076.36	-----
VARIABLE COSTS					
PRE-HARVEST					
LIME APPLIED	TON	18.00	1.00	18.00	-----
HOURLY LABOR	HR.	3.50	35.50	124.25	-----
DORMANT OIL	GAL.	8.93	2.50	22.32	-----
STREPTOMYCIN	OZ.	2.95	14.00	41.30	-----
FOLIAR ANALYSIS	ACRE	0.80	1.00	0.80	-----
AMMONIUM NITRATE	CWT	7.50	2.00	15.00	-----
DIAZINON	LB.	9.75	1.50	14.63	-----
FERBAM	LB.	11.44	2.30	26.31	-----
KARMEX	LB.	2.15	4.00	8.60	-----
ROUNDUP	GAL.	72.00	0.26	18.72	-----
IIMIDAN	LB.	2.56	2.30	5.89	-----
ZINEB	LB.	5.79	1.15	6.66	-----
CAPTAN	LB.	3.60	10.50	37.80	-----
SEVIN	LB.	2.35	10.70	25.14	-----
OMITE	LB.	3.55	3.60	12.78	-----
SOLUBAR	LB.	0.60	4.00	2.40	-----
CALCIUM CHLORIDE	LB.	0.23	15.00	3.45	-----
MACHINERY	ACRE	0.90	1.00	0.90	-----
TRACTORS	ACRE	16.04	1.00	16.04	-----
LABOR (MACH & TRACT)	HOUR	3.56	5.12	18.22	-----
INTEREST ON OP. CAP.	DOL.	0.14	168.50	23.59	-----
					12.43 @ 7 3/8%
SUBTOTAL, PRE-HARVEST				442.80	431.64
HARVEST COSTS					
HOURLY LABOR	HR.	3.50	121.25	424.38	-----
MACHINERY	ACRE	22.64	1.00	22.64	-----
LABOR (MACH & TRACT)	HOUR	3.56	3.60	12.82	-----
SUBTOTAL, HARVEST				459.83	-----
MANAGEMENT CHARGE	DOL.	0.10	891.47		89.15
TOTAL VARIABLE COST				902.64	980.62
INCOME ABOVE VARIABLE COSTS				1173.72	1095.74
FIXED COSTS					
PRE-HARVEST					
MACHINERY	ACRE	11.15	1.00	11.15	-----
TRACTORS	ACRE	13.88	1.00	13.88	-----
HARVEST					
MACHINERY	ACRE	12.61	1.00	12.61	-----
TRACTORS	ACRE	0.0	1.00	0.0	-----
OVERHEAD LABOR	ACRE	31.97	1.00	31.97	-----
TOTAL FIXED COSTS				69.61	-----
TOTAL COSTS				972.24	1050.23
NET RETURNS ABOVE SPECIFIED COSTS					

FOR APPLES, AVERAGE ANNUAL ESTIMATES FOR 9TH AND 10TH YEARS, NONIRRIGATED ORCHARD, NORTHWEST ARKANSAS, 1981

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST	YOUR ESTIMATE

GROSS RECEIPTS FROM PRODUCTION					
APPLES	BU.	4.29	786.00	3371.94	-----

TOTAL				3371.94	-----
VARIABLE COSTS					
PRE-HARVEST					
LIME APPLIED	TON	18.00	1.00	18.00	-----
HOURLY LABOR	HR.	3.50	35.50	124.25	-----
DORMANT OIL	GAL.	8.93	2.50	22.32	-----
STREPTOMYCIN	OZ.	2.95	14.00	41.30	-----
FOLIAR ANALYSIS	ACRE	0.80	1.00	0.80	-----
AMMONIUM NITRATE	CWT	7.50	2.00	15.00	-----
DIAZINON	LB.	9.75	1.50	14.63	-----
FERBAM	LB.	11.44	2.30	26.31	-----
KARMEX	LB.	2.15	4.00	8.60	-----
ROUNDUP	GAL.	72.00	0.26	18.72	-----
IIMIDAN	LB.	2.56	2.30	5.89	-----
ZINEB	LB.	5.79	1.15	6.66	-----
CAPTAN	LB.	3.60	10.50	37.80	-----
SEVIN	LB.	2.35	10.70	25.14	-----
OMITE	LB.	3.55	3.60	12.78	-----
SOLUBAR	LB.	0.60	4.00	2.40	-----
CALCIUM CHLORIDE	LB.	0.23	15.00	3.45	-----
MACHINERY	ACRE	0.90	1.00	0.90	-----
TRACTORS	ACRE	16.04	1.00	16.04	-----
LABOR (MACH & TRACT)	HOUR	3.56	5.12	18.22	-----
INTEREST ON OP. CAP.	DOL.	0.14	168.50	23.59	12.43 @ 7 3/8%
SUBTOTAL, PRE-HARVEST				442.80	431.64
HARVEST COSTS					
HOURLY LABOR	HR.	3.50	196.52	687.84	-----
MACHINERY	ACRE	60.38	1.00	60.38	-----
LABOR (MACH & TRACT)	HOUR	3.56	9.60	34.18	-----
SUBTOTAL, HARVEST				782.40	-----
MANAGEMENT CHARGE	DOL.	0.10	1214.04		121.40
TOTAL VARIABLE COST				1225.20	1335.44
INCOME ABOVE VARIABLE COSTS				2146.74	2036.50
FIXED COSTS					
PRE-HARVEST					
MACHINERY	ACRE	11.15	1.00	11.15	-----
TRACTORS	ACRE	13.88	1.00	13.88	-----
HARVEST					
MACHINERY	ACRE	33.63	1.00	33.63	-----
TRACTORS	ACRE	0.0	1.00	0.0	-----
OVERHEAD LABOR	ACRE	53.97	1.00	53.97	-----
TOTAL FIXED COSTS				112.62	-----
TOTAL COSTS				1337.82	1448.06
NET RETURNS ABOVE SPECIFIED COSTS				2036.50	1022.00

TABLE 9. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 FOR ESTABLISHING AN IRRIGATED APPLE
 ORCHARD, NORTHWEST ARKANSAS, 1981

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST	YOUR ESTIMATE
GROSS RECEIPTS FROM PRODUCTION					
TOTAL				0.0	
VARIABLE COSTS					
PRE-HARVEST					
LAND PREP CUS	ACRE	50.00	1.00	50.00	
RABBIT GUARD	EA.	0.25	181.00	45.25	
SURFLAN	LB.	3.00	4.00	12.00	
PARAQUAT	LB.	18.30	0.60	10.98	
APPLE TREES	EA.	3.75	181.00	678.75	
AMMONIUM NITRATE	CWT	7.50	0.70	5.25	
HOURLY LABOR	HR.	3.50	38.50	134.75	
MACHINERY	ACRE	0.85	1.00	0.85	
TRACTORS	ACRE	20.05	1.00	20.05	
IRRIGATION MACHINERY	ACRE	0.77	1.00	0.77	
LABOR(MACH & TRACT)	HR.	3.56	6.40	22.78	
LABOR(IRRIGATION)	HR.	3.83	0.43	1.65	
INTEREST ON OP. CAP.	DOL.	0.14	704.34	98.61	51.95 @ 7 3/8%
SUBTOTAL, PRE-HARVEST				1081.69	1035.03
HARVEST COSTS					
SUBTOTAL, HARVEST				0.0	
MANAGEMENT CHARGE	DOL.	0.10	1035.03		103.50
TOTAL VARIABLE COST				1081.69	1138.53
INCOME ABOVE VARIABLE COSTS				-1081.69	-1138.53
FIXED COSTS					
PRE-HARVEST					
MACHINERY	ACRE	6.41	1.00	6.41	
TRACTORS	ACRE	17.35	1.00	17.35	
IRRIGATION MACHINERY	ACRE	123.53	1.00	123.53	
HARVEST					
MACHINERY	ACRE	0.0	1.00	0.0	
TRACTORS	ACRE	0.0	1.00	0.0	
OVERHEAD LABOR	ACRE	25.17	1.00	25.17	
TOTAL FIXED COSTS				172.46	
TOTAL COSTS				1254.15	1310.99
NET RETURNS ABOVE SPECIFIED COSTS				-1254.15	-1310.99

FOR THE 2ND YEAR IN AN IRRIGATED APPLE
ORCHARD, NORTHWEST ARKANSAS, 1981

		PRICE OR		VALUE	YOUR
		UNIT	COST/UNIT	QUANTITY	OR COST
					ESTIMATE
GROSS RECEIPTS FROM PRODUCTION					
TOTAL				0.0	
VARIABLE COSTS					
PRE-HARVEST					
FERT 13-13-13	CWT	8.25	3.60	29.70	
HOURLY LABOR	HR.	3.50	20.00	70.00	
PRINCEP	LB.	4.93	0.80	3.94	
PARAQUAT	LB.	18.30	1.20	21.96	
SEVIN	LB.	2.35	2.00	4.70	
APPLE TREES	EA.	3.75	9.00	33.75	
DORMANT OIL	GAL.	8.93	1.60	14.29	
STREPTOMYCIN	OZ.	2.95	10.00	29.50	
ZINEB	LB.	5.79	2.20	12.74	
AMMONIUM NITRATE	CWT	7.50	1.50	11.25	
DIAZINON	LB.	9.75	2.20	21.45	
MACHINERY	ACRE	0.84	1.00	0.84	
TRACTORS	ACRE	12.81	1.00	12.81	
IRRIGATION MACHINERY	ACRE	0.76	1.00	0.76	
LABOR(MACH & TRACT)	HOUR	3.56	4.09	14.56	
LABOR(IRRIGATION)	HOUR	3.83	0.65	2.48	
INTEREST ON OP. CAP.	DOL.	0.14	184.32	25.81	13.59 @ 7 3/8%
SUBTOTAL, PRE-HARVEST				310.54	298.32
HARVEST COSTS					
SUBTOTAL, HARVEST				0.0	
MANAGEMENT CHARGE	DOL.	0.10	298.32		29.83
TOTAL VARIABLE COST				310.54	328.15
INCOME ABOVE VARIABLE COSTS				-310.54	-328.15
FIXED COSTS					
PRE-HARVEST					
MACHINERY	ACRE	7.76	1.00	7.76	
TRACTORS	ACRE	11.09	1.00	11.09	
IRRIGATION MACHINERY	ACRE	123.64	1.00	123.64	
HARVEST					
MACHINERY	ACRE	0.0	1.00	0.0	
TRACTORS	ACRE	0.0	1.00	0.0	
OVERHEAD LABOR	ACRE	17.55	1.00	17.55	
TOTAL FIXED COSTS				160.04	
TOTAL COSTS				470.58	488.19
NET RETURNS ABOVE SPECIFIED COSTS				-470.58	488.19

TABLE 10. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR 3RD YEAR IN AN IRRIGATED APPLE
ORCHARD, NORTHWEST ARKANSAS, 1981

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST	YOUR ESTIMATE

GROSS RECEIPTS FROM PRODUCTION					
TOTAL				0.0	-----
VARIABLE COSTS					
PRE-HARVEST					
HOURLY LABOR	HR.	3.50	17.00	59.50	-----
DORMANT OIL	GAL.	8.93	2.10	18.75	-----
STREPTOMYCIN	OZ.	2.95	12.00	35.40	-----
AMMONIUM NITRATE	CWT	7.50	1.30	9.75	-----
DIAZINON	LB.	9.75	1.10	10.72	-----
KARMEX	LB.	2.15	4.00	8.60	-----
ROUNDUP	GAL.	72.00	0.25	18.00	-----
IIMIDAN	LB.	2.56	1.60	4.10	-----
ZINEB	LB.	5.79	1.60	9.26	-----
SEVIN	LB.	2.35	2.10	4.93	-----
OMITE	LB.	3.55	1.30	4.61	-----
MACHINERY	ACRE	0.63	1.00	0.63	-----
TRACTORS	ACRE	12.98	1.00	12.98	-----
IRRIGATION MACHINERY	ACRE	0.78	1.00	0.78	-----
LABOR(MACH & TRACT)	HOURLY	3.56	4.14	14.75	-----
LABOR(IRRIGATION)	HOURLY	3.83	1.76	6.73	-----
INTEREST ON OP. CAP.	DOL.	0.14	132.91	18.61	9.80 @ 7 3/8%
				-----	-----
SUBTOTAL, PRE-HARVEST				238.12	229.31
HARVEST COSTS					
				-----	-----
SUBTOTAL, HARVEST				0.0	-----
MANAGEMENT CHARGE	DOL.	0.10	229.31		22.93
TOTAL VARIABLE COST				238.12	252.24
INCOME ABOVE VARIABLE COSTS				-238.12	-252.24
FIXED COSTS					
PRE-HARVEST					
MACHINERY	ACRE	6.48	1.00	6.48	-----
TRACTORS	ACRE	11.23	1.00	11.23	-----
IRRIGATION MACHINERY	ACRE	123.01	1.00	123.01	-----
HARVEST					
MACHINERY	ACRE	0.0	1.00	0.0	-----
TRACTORS	ACRE	0.0	1.00	0.0	-----
OVERHEAD LABOR	ACRE	22.12	1.00	22.12	-----
TOTAL FIXED COSTS				162.84	-----
TOTAL COSTS				400.96	415.08
NET RETURNS ABOVE SPECIFIED COSTS				-400.96	-415.08
=====					

TABLE 11. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT.
FOR 4TH YEAR IN AN IRRIGATED APPLE
ORCHARD, NORTHWEST ARKANSAS, 1981

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST	YOUR ESTIMATE

GROSS RECEIPTS FROM PRODUCTION					
APPLES	BU.	4.29	30.00	128.70	-----
TOTAL				128.70	-----
VARIABLE COSTS					
PRE-HARVEST					
LIME APPLIED	TON	18.00	1.00	18.00	-----
HOURLY LABOR	HR.	3.50	27.00	94.50	-----
DORMANT OIL	GAL.	8.93	2.60	23.22	-----
STREPTOMYCIN	OZ.	2.95	15.00	44.25	-----
FOLIAR ANALYSIS	ACRE	0.80	1.00	0.80	-----
AMMONIUM NITRATE	CWT	7.50	2.00	15.00	-----
DIAZINON	LB.	9.75	1.60	15.60	-----
FERBAM	LB.	11.44	2.40	27.46	-----
KARMEX	LB.	2.15	4.00	8.60	-----
ROUNDUP	GAL.	72.00	0.26	18.72	-----
IIMIDAN	LB.	2.56	2.50	6.40	-----
ZINEB	LB.	5.79	1.25	7.24	-----
CAPTAN	LB.	3.60	10.80	38.88	-----
SEVIN	LB.	2.35	11.10	26.08	-----
OMITE	LB.	3.55	3.80	13.49	-----
SOLUBAR	LB.	0.60	4.10	2.46	-----
CALCIUM CHLORIDE	LB.	0.23	15.60	3.59	-----
MACHINERY	ACRE	0.91	1.00	0.91	-----
TRACTORS	ACRE	17.26	1.00	17.26	-----
IRRIGATION MACHINERY	ACRE	0.80	1.00	0.80	-----
LABOR(MACH & TRACT)	HOUR	3.56	5.51	19.61	-----
LABOR(IRRIGATION)	HOUR	3.83	2.40	9.18	-----
INTEREST ON OP. CAP.	DOL.	0.14	156.37	21.89	11.53 @ 7 3/8%
SUBTOTAL, PRE-HARVEST				433.94	423.58
HARVEST COSTS					
HOURLY LABOR	HR.	3.50	8.00	28.00	-----
MACHINERY	ACRE	0.01	1.00	0.01	-----
TRACTORS	ACRE	1.12	1.00	1.12	-----
LABOR(MACH & TRACT)	HOUR	3.56	0.36	1.27	-----
SUBTOTAL, HARVEST				30.40	-----
MANAGEMENT CHARGE	DOL.	0.10	453.98		-----
TOTAL VARIABLE COST				464.33	45.40
INCOME ABOVE VARIABLE COSTS				-335.63	499.38
FIXED COSTS					
PRE-HARVEST					
MACHINERY	ACRE	11.36	1.00	11.36	-----
TRACTORS	ACRE	14.94	1.00	14.94	-----
IRRIGATION MACHINERY	ACRE	123.62	1.00	123.62	-----
HARVEST					
MACHINERY	ACRE	0.16	1.00	0.16	-----
TRACTORS	ACRE	0.97	1.00	0.97	-----
OVERHEAD LABOR	ACRE	30.96	1.00	30.96	-----
TOTAL FIXED COSTS					-----

TOTAL COSTS

646.35 681.39

NET RETURNS ABOVE SPECIFIED COSTS

-517.65 -552.69

TABLE 12. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR 5TH AND 6TH YEARS IN AN IRRIGATED APPLE
ORCHARD, NORTHWEST ARKANSAS, 1981

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST	YOUR ESTIMATE

GROSS RECEIPTS FROM PRODUCTION					
APPLES	BU.	4.29	245.00	1051.05	-----

TOTAL				1051.05	-----

VARIABLE COSTS					
PRE-HARVEST					
LIME APPLIED	TON	18.00	1.00	18.00	-----
HOURLY LABOR	HR.	3.50	37.00	129.50	-----
DORMANT OIL	GAL.	8.93	2.60	23.22	-----
STREPTOMYCIN	OZ.	2.95	15.00	44.25	-----
FOLIAR ANALYSIS	ACRE	0.80	1.00	0.80	-----
AMMONIUM NITRATE	CWT	7.50	2.00	15.00	-----
DIAZINON	LB.	9.75	1.60	15.60	-----
FERBAM	LB.	11.44	2.40	27.46	-----
KARMEX	LB.	2.15	4.00	8.60	-----
LIME APPLIED	TON	18.00	1.00	18.00	-----
ROUNDUP	GAL.	72.00	0.26	18.72	-----
IIMIDAN	LB.	2.56	2.50	6.40	-----
ZINEB	LB.	5.79	1.25	7.24	-----
CAPTAN	LB.	3.60	10.80	38.88	-----
SEVIN	LB.	2.35	11.10	26.08	-----
OMITE	LB.	3.55	3.80	13.49	-----
SOLUBAR	LB.	0.60	4.10	2.46	-----
CALCIUM CHLORIDE	LB.	0.23	15.60	3.59	-----
MACHINERY	ACRE	0.91	1.00	0.91	-----
TRACTORS	ACRE	17.26	1.00	17.26	-----
IRRIGATION MACHINERY	ACRE	0.69	1.00	0.69	-----
LABOR(MACH & TRACT)	HOUR	3.56	5.51	19.61	-----
LABOR(IRRIGATION)	HOUR	3.83	3.10	11.87	-----
INTEREST ON OP. CAP.	DOL.	0.14	188.84	26.44	13.93 @ 7 3/8
SUBTOTAL, PRE-HARVEST				494.07	481.56

HARVEST COSTS					
HOURLY LABOR	HR.	3.50	61.25	214.38	-----
MACHINERY	ACRE	15.10	1.00	15.10	-----
LABOR(MACH & TRACT)	HOUR	3.56	2.40	8.54	-----
SUBTOTAL, HARVEST				238.01	-----
MANAGEMENT CHARGE	DOL.	0.10	719.57	71.96	-----
TOTAL VARIABLE COST				732.08	791.53
INCOME ABOVE VARIABLE COSTS				318.97	259.52

FIXED COSTS					
PRE-HARVEST					
MACHINERY	ACRE	11.36	1.00	11.36	-----
TRACTORS	ACRE	14.94	1.00	14.94	-----
IRRIGATION MACHINERY	ACRE	122.92	1.00	122.92	-----
HARVEST					
MACHINERY	ACRE	8.41	1.00	8.41	-----
TRACTORS	ACRE	0.0	1.00	0.0	-----
OVERHEAD LABOR	ACRE	41.23	1.00	41.23	-----
TOTAL FIXED COSTS				168.85	-----

TOTAL COSTS

930.94 990.38

NET RETURNS ABOVE SPECIFIED COSTS

120.11 60.67

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TABLE 13. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
 FOR 7TH AND 8TH YEARS IN AN IRRIGATED APPLE
 ORCHARD, NORTHWEST ARKANSAS, 1981

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST	YOUR ESTIMATE

GROSS RECEIPTS FROM PRODUCTION					
APPLES	BU.	4.29	537.00	2303.73	-----
TOTAL				2303.73	-----
VARIABLE COSTS					
PRE-HARVEST					
LIME APPLIED	TON	18.00	1.00	18.00	-----
HOURLY LABOR	HR.	3.50	37.00	129.50	-----
DORMANT OIL	GAL.	8.93	2.60	23.22	-----
STREPTOMYCIN	OZ.	2.95	15.00	44.25	-----
FOLIAR ANALYSIS	ACRE	0.80	1.00	0.80	-----
AMMONIUM NITRATE	CWT	7.50	2.00	15.00	-----
DIAZINON	LB.	9.75	1.60	15.60	-----
FERBAM	LB.	11.44	2.40	27.46	-----
KARMEX	LB.	2.15	4.00	8.60	-----
ROUNDUP	GAL.	72.00	0.26	18.72	-----
IIMIDAN	LB.	2.56	2.50	6.40	-----
ZINEB	LB.	5.79	1.25	7.24	-----
CAPTAN	LB.	3.60	10.80	38.88	-----
SEVIN	LB.	2.35	11.10	26.08	-----
OMITE	LB.	3.55	3.80	13.49	-----
SOLUBAR	LB.	0.60	4.10	2.46	-----
CALCIUM CHLORIDE	LB.	0.23	15.60	3.59	-----
MACHINERY	ACRE	0.91	1.00	0.91	-----
TRACTORS	ACRE	17.26	1.00	17.26	-----
IRRIGATION MACHINERY	ACRE	0.69	1.00	0.69	-----
LABOR (MACH & TRACT)	HOUR	3.56	5.51	19.61	-----
LABOR (IRRIGATION)	HOUR	3.83	3.10	11.87	-----
INTEREST ON OP. CAP.	DOL.	0.14	173.84	24.34	12.82 @ 7 3/8%
SUBTOTAL, PRE-HARVEST				473.97	462.45
HARVEST COSTS					
HOURLY LABOR	HR.	3.50	134.25	469.88	-----
MACHINERY	ACRE	15.10	1.00	15.10	-----
LABOR (MACH & TRACT)	HOUR	3.56	2.40	8.54	-----
SUBTOTAL, HARVEST				493.51	-----
MANAGEMENT CHARGE	DOL.	0.10	955.96	95.60	-----
TOTAL VARIABLE COST				967.48	1051.56
INCOME ABOVE VARIABLE COSTS				1336.25	1252.17
FIXED COSTS					
PRE-HARVEST					
MACHINERY	ACRE	11.36	1.00	11.36	-----
TRACTORS	ACRE	14.94	1.00	14.94	-----
IRRIGATION MACHINERY	ACRE	122.92	1.00	122.92	-----
HARVEST					
MACHINERY	ACRE	8.41	1.00	8.41	-----
TRACTORS	ACRE	0.0	1.00	0.0	-----
OVERHEAD LABOR	ACRE	41.23	1.00	41.23	-----
TOTAL FIXED COSTS				198.85	-----

NET RETURNS ABOVE SPECIFIED COSTS

1137.39 ---1053.32

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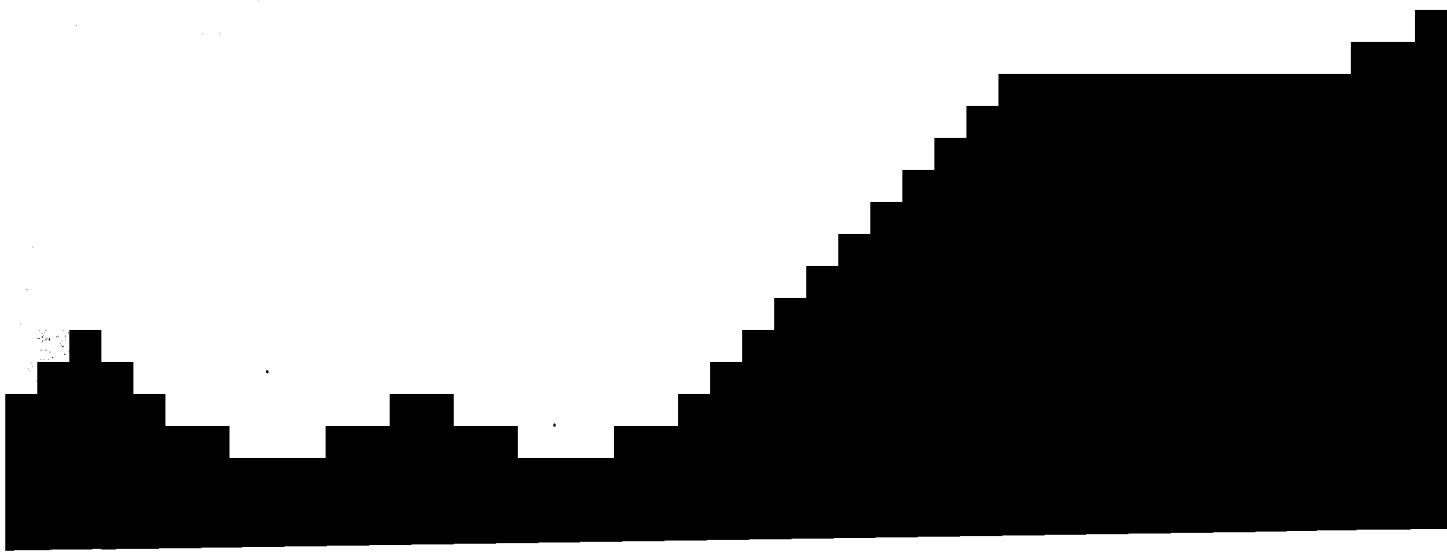


TABLE 14. ESTIMATED COSTS AND RETURNS PER ACRE, 4 ROW EQUIPMENT,
FOR 9TH AND 10TH YEARS IN AN IRRIGATED APPLE
ORCHARD, NORTHWEST ARKANSAS, 1981

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST	YOUR ESTIMATE

GROSS RECEIPTS FROM PRODUCTION					
APPLES	BU.	4.29	873.00	3745.17	-----
TOTAL				3745.17	-----
VARIABLE COSTS					
PRE-HARVEST					
LIME APPLIED	TON	18.00	1.00	18.00	-----
HOURLY LABOR	HR.	3.50	39.00	136.50	-----
DORMANT OIL	GAL.	8.93	2.60	23.22	-----
STREPTOMYCIN	OZ.	2.95	15.00	44.25	-----
FOLIAR ANALYSIS	ACRE	0.80	1.00	0.80	-----
AMMONIUM NITRATE	CWT	7.50	2.00	15.00	-----
DIAZINON	LB.	9.75	1.60	15.60	-----
FERBAM	LB.	11.44	2.40	27.46	-----
KARMEX	LB.	2.15	4.00	8.60	-----
ROUNDUP	GAL.	72.00	0.26	18.72	-----
IIMIDAN	LB.	2.56	2.50	6.40	-----
ZINEB	LB.	5.79	1.25	7.24	-----
CAPTAN	LB.	3.60	10.80	38.88	-----
SEVIN	LB.	2.35	11.10	26.08	-----
OMITE	LB.	3.55	3.80	13.49	-----
SOLUBAR	LB.	0.60	4.10	2.46	-----
CALCIUM CHLORIDE	LB.	0.23	15.60	3.59	-----
MACHINERY	ACRE	0.91	1.00	0.91	-----
TRACTORS	ACRE	17.26	1.00	17.26	-----
IRRIGATION MACHINERY	ACRE	0.69	1.00	0.69	-----
LABOR(MACH & TRACT)	HOUR	3.56	5.51	19.61	-----
LABOR(IRRIGATION)	HOUR	3.83	3.10	11.87	-----
INTEREST ON OP. CAP.	DOL.	0.14	180.26	25.24	13.29 @ 7 3/8%
SUBTOTAL, PRE-HARVEST				481.87	469.92
HARVEST COSTS					
HOURLY LABOR	HR.	3.50	218.25	763.88	-----
MACHINERY	ACRE	15.10	1.00	15.10	-----
LABOR(MACH & TRACT)	HOUR	3.56	2.40	8.54	-----
SUBTOTAL, HARVEST				787.51	-----
MANAGEMENT CHARGE	DOL.	0.10	1257.43		125.74
TOTAL VARIABLE COST				1269.38	1383.17
INCOME ABOVE VARIABLE COSTS				2475.79	2362.00
FIXED COSTS					
PRE-HARVEST					
MACHINERY	ACRE	11.36	1.00	11.36	-----
TRACTORS	ACRE	14.94	1.00	14.94	-----
IRRIGATION MACHINERY	ACRE	122.92	1.00	122.92	-----
HARVEST					
MACHINERY	ACRE	8.41	1.00	8.41	-----
TRACTORS	ACRE	0.0	1.00	0.0	-----
OVERHEAD LABOR	ACRE	41.23	1.00	41.23	-----
TOTAL FIXED COSTS				198.85	-----

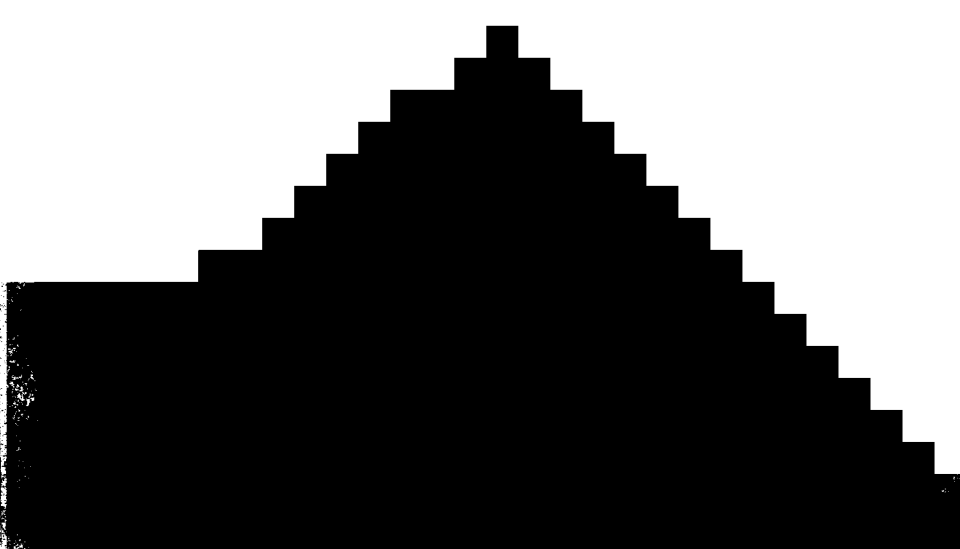
TOTAL COSTS

1468.24 1582.02

NET RETURNS ABOVE SPECIFIED COSTS

2276.93 2163.15

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FOR ESTABLISHING PEACHES, NONIRRIGATED
NORTHWEST ARKANSAS, 1981

		PRICE OR	VALUE	YOUR
		UNIT COST/UNIT	QUANTITY OR COST	ESTIMATE
GROSS RECEIPTS FROM PRODUCTION				
TOTAL			0.0	
VARIABLE COSTS				
PRE-HARVEST				
LAND PREP CUS	ACRE	50.00	1.00	50.00
LIME APPLIED	TON	18.00	1.00	18.00
SURFLAN	LB.	3.00	3.00	9.00
PEACH TREES	EA.	1.25	110.00	137.50
RABBIT GUARD	EA.	0.25	110.00	27.50
HOURLY LABOR	HR.	3.50	18.00	63.00
BENLATE	LB.	23.00	0.50	11.50
SEVIN	LB.	2.35	2.00	4.70
AMMONIUM NITRATE	CWT	7.50	0.55	4.12
IIMIDAN	LB.	2.56	0.50	1.28
MACHINERY	ACRE	0.96	1.00	0.96
TRACTORS	ACRE	17.57	1.00	17.57
LABOR (MACH & TRACT)	HR	3.56	5.61	19.96
INTEREST ON OP. CAP.	DOL.	0.14	257.05	35.99
SUBTOTAL, PRE-HARVEST			401.08	384.05
HARVEST COSTS				
SUBTOTAL, HARVEST			0.0	
MANAGEMENT CHARGE	DOL.	0.10	384.05	38.41
TOTAL VARIABLE COST			401.08	422.46
INCOME ABOVE VARIABLE COSTS			-401.08	-422.46
FIXED COSTS				
PRE-HARVEST				
MACHINERY	ACRE	5.32	1.00	5.32
TRACTORS	ACRE	15.20	1.00	15.20
HARVEST				
MACHINERY	ACRE	0.0	1.00	0.0
TRACTORS	ACRE	0.0	1.00	0.0
OVERHEAD LABOR	ACRE	20.56	1.00	20.56
TOTAL FIXED COSTS			41.08	
TOTAL COSTS			442.17	463.54
NET RETURNS ABOVE SPECIFIED COSTS			-442.17	-463.54

18.96 @ 7 3/8%

FOR ESTABLISHING PEACHES, 2ND YEAR, NONIRRIGATED
 NORTHWEST ARKANSAS, 1981

		PRICE OR	QUANTITY	VALUE	YOUR
		UNIT COST/UNIT		OR COST	ESTIMATE
GROSS RECEIPTS FROM PRODUCTION					
TOTAL				0.0	
VARIABLE COSTS					
PRE-HARVEST					
FERBAM	LB.	11.44	0.50	5.72	
DORMANT OIL	GAL.	8.93	1.10	9.82	
AMMONIUM NITRATE	CWT	7.50	1.10	8.25	
PEACH TREES	EA.	1.25	5.00	6.25	
SURFLAN	LB.	3.00	3.00	9.00	
BENLATE	LB.	23.00	0.50	11.50	
THIODAN	LB.	8.33	1.00	8.33	
HOURLY LABOR	HR.	3.50	17.00	59.50	
MACHINERY	ACRE	0.64	1.00	0.64	
TRACTORS	ACRE	10.13	1.00	10.13	
LABOR (MACH & TRACT)	HR.	3.56	3.23	11.51	
INTEREST ON OP. CAP.	DOL.	0.14	90.08	12.61	6.64 @ 7 3/8%
SUBTOTAL, PRE-HARVEST				153.27	147.30
HARVEST COSTS					
SUBTOTAL, HARVEST				0.0	
MANAGEMENT CHARGE	DOL.	0.10	147.30		14.73
TOTAL VARIABLE COST				153.27	162.03
INCOME ABOVE VARIABLE COSTS				-153.27	-162.03
FIXED COSTS					
PRE-HARVEST					
MACHINERY	ACRE	4.27	1.00	4.27	
TRACTORS	ACRE	8.77	1.00	8.77	
HARVEST					
MACHINERY	ACRE	0.0	1.00	0.0	
TRACTORS	ACRE	0.0	1.00	0.0	
OVERHEAD LABOR	ACRE	11.86	1.00	11.86	
TOTAL FIXED COSTS				24.90	
TOTAL COSTS				178.16	186.93
NET RETURNS ABOVE SPECIFIED COSTS				-178.16	-186.93

FOR ESTABLISHING PEACHES, 3RD YEAR, NONIRRIGATED
NORTHWEST ARKANSAS, 1981

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST	YOUR ESTIMATE
GROSS RECEIPTS FROM PRODUCTION					
PEACHES	BU.	8.00	55.00	440.00	-----
TOTAL				440.00	-----
VARIABLE COSTS					
PRE-HARVEST					
FERRAM	LB.	11.44	1.00	11.44	-----
DORMANT OIL	GAL.	8.93	3.00	26.79	-----
AMMONIUM NITRATE	CWT	7.50	2.20	16.50	-----
HOURLY LABOR	HR.	3.50	16.00	56.00	-----
BENLATE	LB.	23.00	2.00	46.00	-----
CAPTAN	LB.	3.60	4.00	14.40	-----
THIODAN	LB.	8.33	1.00	8.33	-----
IIMIDAN	LB.	2.56	0.75	1.92	-----
SEVIN	LB.	2.35	2.00	4.70	-----
SINBAR	LB.	19.84	1.00	19.84	-----
KARMEX	LB.	2.15	1.00	2.15	-----
PARAQUAT	LB.	18.30	0.50	9.15	-----
CONTAINERS	EA.	0.60	20.00	12.00	-----
MACHINERY	ACRE	0.88	1.00	0.88	-----
TRACTORS	ACRE	13.37	1.00	13.37	-----
LABOR (MACH & TRACT)	HOUR	3.56	4.27	15.20	-----
INTEREST ON OP. CAP.	DOL.	0.14	67.25	9.42	4.96 @ 7 3/8%
SUBTOTAL, PRE-HARVEST				268.09	263.63
HARVEST COSTS					
HOURLY LABOR	HR.	3.50	5.00	17.50	-----
SUBTOTAL, HARVEST				17.50	-----
MANAGEMENT CHARGE	DOL.	0.10	281.13	28.11	-----
TOTAL VARIABLE COST				285.59	309.24
INCOME ABOVE VARIABLE COSTS				154.41	130.76
FIXED COSTS					
PRE-HARVEST					
MACHINERY	ACRE	8.56	1.00	8.56	-----
TRACTORS	ACRE	11.57	1.00	11.57	-----
HARVEST					
MACHINERY	ACRE	0.0	1.00	0.0	-----
TRACTORS	ACRE	0.0	1.00	0.0	-----
OVERHEAD LABOR	ACRE	15.65	1.00	15.65	-----
TOTAL FIXED COSTS				35.79	-----
TOTAL COSTS				321.37	345.03
NET RETURNS ABOVE SPECIFIED COSTS				118.63	94.97