

FRESH MARKET SPINACH, IRRIGATED
TEXAS WINTER GARDEN REGION
1982 PROJECTED COSTS AND RETURNS PER ACRE

MACHINERY OPERATION	ITEM NO.	OPER MONTH	TIMES OVER	LABOR HOURS	MACHINE HOURS	MACH OPER COSTS	LABOR COSTS	APPL. INPUT COSTS	MACH FIXED COSTS	TOTAL OPER. COST
SHREDDER	3,30	AUG	1.00	0.263	0.199	2.02	1.31	0.0	3.51	6.84
OFFSET DISC	2,34	AUG	2.20	0.501	0.380	4.64	2.51	0.0	10.27	17.41
MOLDBOARD PLOW	1,32	AUG	1.00	0.571	0.432	6.78	2.85	0.0	13.85	23.49
LAND PLANE	1,50	AUG	0.20	0.050	0.038	0.53	0.25	0.0	1.22	2.01
BEDDER 6R	1,36	AUG	1.00	0.151	0.115	1.62	0.76	0.0	2.36	4.74
HERBICIDE SPRAYER	63	AUG	1.00	0.0	0.264	0.08	0.0	20.00	2.29	22.37
DRY FERT SPRDER	3,60	AUG	1.00	0.203	0.154	1.54	1.02	46.20	3.80	52.56
CULTIVATOR 4R	1,39	SEPT	1.00	0.227	0.172	2.40	1.13	0.0	3.93	7.47
PLANTER 4R	3,41	SEPT	1.00	0.303	0.230	2.55	1.52	16.00	6.48	26.55
BED SHAPER 6R	3,48	SEPT	1.00	0.252	0.191	1.83	1.26	0.0	3.15	6.24
CULTIVATOR 4R	1,39	OCT	1.00	0.227	0.172	2.40	1.13	0.0	3.93	7.47
CULTIVATOR 4R	1,39	NOV	1.00	0.227	0.172	2.40	1.13	0.0	3.93	7.47
TOTALS				2.975	2.519	28.79	14.88	82.20	58.72	184.59

IRRIGATION APPLICATION	APPL. MONTH	ACRE INCHES	LABOR HOURS	SYSTEM HOURS	IRRIG OPER. COSTS	LABOR COSTS	APPL. INPUT COSTS	IRRIG FIXED COSTS	TOTAL IRRIG COSTS
WATER APPLICATION	MAR	4.00	0.400	0.0	14.56	1.52	0.0	8.18	24.26
WATER APPLICATION	SEPT	4.00	0.400	0.0	14.56	1.52	13.80	8.18	38.06
WATER APPLICATION	NOV	4.00	0.400	0.0	14.56	1.52	0.0	8.18	24.26
WATER APPLICATION	JAN	4.00	0.400	0.0	14.56	1.52	0.0	8.18	24.26
TOTALS		16.00	1.600	0.0	58.24	6.08	13.80	32.72	110.84

RESIDUAL RETURNS AT ALTERNATIVE YIELDS AND PRICES
ADJUSTED FOR YIELD-RELATED COSTS AND CHANGES IN SHARE-RENT

INCOME ABOVE VARIABLE COSTS LESS SHARE-RENT

PRICE OF SPINACH, FRESH
(DOLLARS)

BU.	4.60	5.18	5.75	6.32	6.90
320.00	-319.56	-135.56	48.44	232.44	416.44
360.00	-315.56	-108.56	98.44	305.44	512.44
400.00	-311.56	-81.56	148.44	378.44	608.44
440.00	-307.56	-54.56	198.44	451.44	704.44
480.00	-303.56	-27.56	248.44	524.44	800.44

NOTE: NEGATIVE RETURNS OVER VARIABLE COSTS MAY BE AVOIDABLE
VIA CROP ABANDONMENT, GRAZE-OUT, OR OTHER MANAGEMENT
STRATEGIES.

PROCESSED SPINACH, IRRIGATED
TEXAS WINTER GARDEN REGION
1982 PROJECTED COSTS AND RETURNS PER ACRE

CATEGORY	PROJECTED YIELD	UNIT	PROJECTED \$/UNIT	PROJECTED VALUE	YOUR ESTIMATE
1. GROSS RECEIPTS					
SPINACH, PROCESS	7.50	TON	84.50	633.75	
SPINACH SECONDS	0.80	TON	1.50	1.20	
TOTAL PROJECTED RETURNS				\$ 634.95	\$
2. VARIABLE COSTS					
PREHARVEST COSTS					
*SPINACH-PROC. SD	16.00	LB.	1.65	26.40	
*NITROGEN (LIQ)	60.00	LB.	0.23	13.80	
*PHOSPHATE	150.00	LB.	0.32	48.00	
*HERBICIDE	1.00	ACRE	20.00	20.00	
*INSECTICIDE	8.00	APPL	7.50	60.00	
*FUNGICIDE	3.00	APPL	5.00	15.00	
PESTICIDE APPLI.	8.00	ACRE	3.50	28.00	
*NITROGEN (DRY)	60.00	LB.	0.26	15.60	
IRRIGATION WATER	20.00	ACIN			
FUEL & LUBE--TRACTOR		ACRE		24.32	
EQUIPMENT		ACRE		1.04	
IRRIGATION		ACRE		57.60	
REPAIRS-----TRACTOR		ACRE		4.53	
EQUIPMENT		ACRE		3.01	
IRRIGATION		ACRE		15.20	
LABOR-----MACHINERY	2.98	HOURL	5.00	14.88	
IRRIGATION	2.00	HOURL	3.80	7.60	
EQUIPMENT	0.42	HOURL	3.80	1.60	
OTHER	6.00	HOURL	3.80	22.80	
OPERATING CAPITAL	97.28	DOL.	0.155	15.08	
SUBTOTAL, PREHARVEST		ACRE		\$ 394.45	\$
HARVEST COSTS					
HARV. PKG, HAUL	9.00	TON	4.85	43.65	
SUBTOTAL, HARVEST		ACRE		\$ 43.65	\$
TOTAL VARIABLE COSTS		ACRE		\$ 438.10	\$
BREAK-EVEN PRICE, VARIABLE COSTS			\$ 58.25/TON	SPINACH, PROCESS	
3. INCOME ABOVE VARIABLE COSTS		ACRE		\$ 196.85	\$
4. FIXED COSTS					
DEPREC., INTEREST, TAXES & INSUR.					
TRACTOR		ACRE		35.12	
EQUIPMENT		ACRE		27.31	
IRRIGATION		ACRE		40.90	
LAND-CASH RENT	1.00	ACRE	40.00	40.00	
MISC ADMIN O/H	0.50	ACRE	10.00	5.00	
TOTAL FIXED COSTS		ACRE		\$ 148.33	\$
5. TOTAL PROJECTED COSTS		ACRE		\$ 586.43	\$
BREAK-EVEN PRICE, TOTAL COSTS			\$ 78.03/TON	SPINACH, PROCESS	
6. NET PROJECTED RETURNS		ACRE		\$ 48.52	\$

INFORMATION PRESENTED IS PREPARED SOLELY AS A GENERAL GUIDE AND IS NOT INTENDED TO RECOGNIZE OR PREDICT THE COSTS AND RETURNS FROM ANY ONE PARTICULAR FARM OR RANCH OPERATION. THESE PROJECTIONS WERE COLLECTED AND DEVELOPED BY STAFF MEMBERS OF THE TEXAS AGRICULTURAL EXTENSION SERVICE AND APPROVED FOR PUBLICATION.

PROJECTIONS FOR PLANNING PURPOSES ONLY
NOT TO BE USED WITHOUT UPDATING AFTER 02/15/82-

B-1241 (C12)

PROCESSED SPINACH, IRRIGATED
TEXAS WINTER GARDEN REGION
1982 PROJECTED COSTS AND RETURNS PER ACRE

MACHINERY OPERATION	ITEM NO.	OPER. MONTH	TIMES OVER	LABOR HOURS	MACHINE HOURS	MACH OPER COSTS	LABOR COSTS	APPL. INPUT COSTS	MACH FIXED COSTS	TOTAL OPER. COST
SHREDDER	2,330	AUG	1-00	0-263	0-199	2-48	1-31	0-0	3-42	7-21
OFFSET DISC	2,334	AUG	2-20	0-501	0-380	4-64	2-51	0-0	10-27	17-41
MOLDBOARD PLOW	1,332	AUG	1-00	0-571	0-432	6-78	2-85	0-0	13-85	23-49
LAND PLANE	1,550	AUG	0-20	0-050	0-038	0-53	0-26	0-0	1-22	2-01
BEDDER 6R	1,336	AUG	1-00	0-151	0-115	1-62	0-75	0-0	2-36	4-74
HERBICIDE SPRAYER	1,63	AUG	1-00	0-0	0-264	0-08	0-0	20-00	2-29	22-37
DRY FERT SPRDER	1,60	AUG	1-00	0-203	0-154	2-21	1-02	0-0	4-54	7-47
CULTIVATOR 4R	1,339	SEPT	1-00	0-227	0-172	2-40	1-13	0-0	3-93	7-47
PLANTER 4R	1,431	SEPT	1-00	0-227	0-172	2-40	1-13	0-0	3-93	7-47
BED SHAPER 6R	1,448	SEPT	1-00	0-252	0-191	2-66	1-26	0-0	4-07	7-99
CULTIVATOR 4R	1,339	OCT	1-00	0-227	0-172	2-40	1-13	0-0	3-93	7-47
CULTIVATOR 4R	1,339	NOV	1-00	0-227	0-172	2-40	1-13	0-0	3-93	7-47
TOTALS				2,975	2,519	31-74	14-88	110-00	61-40	218-01

IRRIGATION APPLICATION	APPL. MONTH	ACRE INCHES	LABOR HOURS	SYSTEM HOURS	IRRIG OPER. COSTS	LABOR COSTS	APPL. INPUT COSTS	IRRIG FIXED COSTS	TOTAL IRRIG COSTS
WATER APPLICATION	SEPT	4-00	0-400	0-0	14-56	1-52	0-0	8-18	24-26
WATER APPLICATION	OCT	4-00	0-400	0-0	14-56	1-52	13-80	8-18	38-06
WATER APPLICATION	NOV	3-00	0-300	0-0	10-92	1-14	0-0	6-14	18-19
WATER APPLICATION	DEC	3-00	0-300	0-0	10-92	1-14	0-0	6-14	18-19
WATER APPLICATION	JAN	3-00	0-300	0-0	10-92	1-14	0-0	6-14	18-19
WATER APPLICATION	FEB	3-00	0-300	0-0	10-92	1-14	0-0	6-14	18-19
TOTALS		20-00	2,000	0-0	72-80	7-60	13-80	40-90	135-10

RESIDUAL RETURNS AT ALTERNATIVE YIELDS AND PRICES
ADJUSTED FOR YIELD-RELATED COSTS AND CHANGES IN SHARE-RENT

INCOME ABOVE VARIABLE COSTS LESS SHARE-RENT

PRICE OF SPINACH, PROCESS
(DOLLARS)

TON	67.60	76.05	84.50	92.95	101.40
6.00	-22.81	27.89	78-59	129-29	179-99
6-75	23-64	80-68	137-72	194-75	251-79
7-50	70-10	133-47	196-85	260-22	323-60
8-25	116-55	186-26	255-98	325-69	395-40
9-00	163-01	239-06	315-11	391-16	467-21

NOTE: NEGATIVE RETURNS OVER VARIABLE COSTS MAY BE AVOIDABLE
VIA CROP ABANDONMENT, GRAZE-OUT, OR OTHER MANAGEMENT
STRATEGIES.

QUANTITY OF
SPINACH, PROCESS

SPINACH, (PROCESSED) IRRIGATED (GRAIN DRILL PLANTING)

TEXAS HINTER GARDEN REGION
 1982 PROJECTED COSTS AND RETURNS PER ACRE

CATEGORY	PROJECTED YIELD	UNIT	\$/UNIT	PROJECTED VALUE	YOUR ESTIMATE
1. GROSS RECEIPTS					
SPINACH, PROCESS	7.50	TON	84.50	633.75	
SPINACH, SECONDS	0.80	TON	1.50	1.20	
TOTAL PROJECTED RETURNS				\$ 634.95	\$
2. VARIABLE COSTS					
PREHARVEST COSTS					
*SPINACH-PROC. SD	21.00	LB.	1.65	34.65	
*NITROGEN (LIQ)	100.00	LB.	0.23	23.00	
*PHOSPHATE	160.00	LB.	0.32	51.20	
CUSTON FERTILIZE	1.00	ACRE	2.50	2.50	
*INSECTICIDE	6.00	APPL	7.50	45.00	
*FUNGICIDE	3.00	APPL	5.00	15.00	
PESTICIDE APPL.	6.00	ACRE	3.50	21.00	
*NITROGEN (DRY)	50.00	LB.	0.26	13.00	
*HERBICIDE APPL.	1.00	ACRE	20.00	20.00	
HERBICIDE WATER	1.00	ACRE	4.00	4.00	
IRRIGATION	21.00	ACIN		12.04	
FUEL & LUBE--TRACTOR		ACRE		1.04	
EQUIPMENT		ACRE		60.48	
IRRIGATION		ACRE		2.29	
REPAIRS-----TRACTOR		ACRE		1.88	
EQUIPMENT		ACRE		15.96	
LABOR-----MACHINERY	1.52	ACRE	5.00	7.62	
IRRIGATION	2.10	ACRE	3.80	7.98	
EQUIPMENT	0.42	ACRE	3.80	1.60	
MACHINERY	6.00	ACRE	3.80	22.80	
EQUIPMENT	14.14	DOL.	0.155	2.19	
OTHER		ACRE		364.23	\$
OPERATING CAPITAL					
SUBTOTAL, PREHARVEST	9.00	TON	4.85	43.65	\$
HARVEST COSTS		ACRE		43.65	\$
HARV, PKG, HAUL		ACRE			
SUBTOTAL, HARVEST		ACRE		\$ 407.88	\$
TOTAL VARIABLE COSTS					
BREAK-EVEN PRICE, VARIABLE COSTS		\$ 54.22/TON			SPINACH, PROCESS
3. INCOME ABOVE VARIABLE COSTS		ACRE		\$ 227.07	\$
4. FIXED COSTS					
DEPREC., INTEREST, TAXES & INSUR.					
TRACTOR		ACRE		16.83	
EQUIPMENT		ACRE		19.22	
IRRIGATION		ACRE		42.94	
LAND-CASH RENT	1.00	ACRE	40.00	40.00	
MISC ADMIN O/H	0.50	ACRE	10.00	5.00	
TOTAL FIXED COSTS		ACRE		\$ 124.00	\$
5. TOTAL PROJECTED COSTS		ACRE		\$ 531.88	\$
BREAK-EVEN PRICE, TOTAL COSTS		\$ 70.76/TON			SPINACH, PROCESS
6. NET PROJECTED RETURNS		ACRE		\$ 103.07	\$

BUDGET BASED ON GRAIN DRILL METHOD OF PLANTING.

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SPINACH, (PROCESSED) IRRIGATED (GRAIN DRILL PLANTING)
TEXAS WINTER GARDEN REGION
1982 PROJECTED COSTS AND RETURNS PER ACRE

MACHINERY OPERATION	ITEM NO.	OPER MONTH	TIMES OVER	LABOR HOURS	MACHINE HOURS	MACH OPER COSTS	LABOR COSTS	APPL. INPUT COSTS	MACH FIXED COSTS	TOTAL OPER. COST
OFFSET DISC	2,34	AUG	1.00	0.228	0.173	2.11	1.14	0.0	4.67	7.91
MOLDBOARD PLOW	1,32	AUG	1.00	0.571	0.432	6.78	2.85	0.0	13.85	23.49
OFFSET DISC	2,34	SEPT	2.00	0.456	0.345	4.21	2.28	0.0	9.33	15.83
GRAIN DRILL	1,46	OCT	1.00	0.270	0.205	2.98	1.35	34.65	7.17	46.16
TOTALS				1.524	1.155	16.09	7.62	34.65	35.02	93.38

IRRIGATION APPLICATION	APPL. MONTH	ACRE INCHES	LABOR HOURS	SYSTEM HOURS	IRRIG OPER. COSTS	LABOR COSTS	APPL. INPUT COSTS	IRRIG FIXED COSTS	TOTAL IRRIG COSTS
WATER APPLICATION	SEPT	4.00	0.400	0.0	14.56	1.52	0.0	8.18	24.26
WATER APPLICATION	OCT	4.00	0.400	0.0	14.56	1.52	11.50	8.18	35.76
WATER APPLICATION	NOV	4.00	0.400	0.0	14.56	1.52	0.0	8.18	24.26
WATER APPLICATION	DEC	3.00	0.300	0.0	10.92	1.14	11.50	6.14	29.69
WATER APPLICATION	JAN	3.00	0.300	0.0	10.92	1.14	0.0	6.14	18.19
WATER APPLICATION	FEB	3.00	0.300	0.0	10.92	1.14	0.0	6.14	18.19
TOTALS		21.00	2.100	0.0	76.44	7.98	23.00	42.94	150.36

RESIDUAL RETURNS AT ALTERNATIVE YIELDS AND PRICES
ADJUSTED FOR YIELD-RELATED COSTS AND CHANGES IN SHARE-RENT

INCOME ABOVE VARIABLE COSTS LESS SHARE-RENT

PRICE OF SPINACH, PROCESS
(DOLLARS)

	67.60	76.05	84.50	92.95	101.40
TON					
6.00	7.41	58.11	108.81	159.51	210.21
6.75	53.86	110.90	167.94	224.98	282.01
QUANTITY OF SPINACH, PROCESS	100.32	163.69	227.07	290.44	353.82
7.50	146.77	216.49	286.20	355.91	425.62
8.25	193.23	269.28	345.33	421.38	497.43
9.00					

CODE	ITEM NAME	NMOD	UNIT	PRICE	CODE	ITEM NAME	NMOD	UNIT	PRICE
13	STEER CALVES	LIVE	CWT.	65.00	271	CUSTOM HARVEST I	SORG	CWT.	0.45
14	HEIFER CALVES	---	CWT.	58.00	272	CUSTOM HARVEST	CORN	ACRE	25.00
17	CULL COWS	---	CWT.	40.00	275	CUSTOM HARV&HAUL	BEET	TON	8.80
28	DEER LEASE	---	ACRE	2.50	282	GIN, BAG, TIES	---	BALE	49.00
73	GRAIN SORGHUM	---	CWT.	4.65	283	HAUL GRAIN SORG	---	CWT.	0.30
77	CORN	FOOD	BU.	4.20	284	HAUL WHEAT	---	BU.	0.13
79	WINTER WHEAT	---	BU.	3.75	285	HAUL CORN	---	BU.	0.17
80	SPRING WHEAT	---	BU.	3.75	288	HAUL GUAR	---	CWT.	0.25
82	PROC. BEETS #1	FOOD	TON	52.00	289	CUS HARV GUAR	---	ACRE	25.00
83	PROC. BEETS #2	FOOD	TON	65.00	291	SD COTTON-UPLAND	---	LB.	0.60
84	PROC. BEETS #3	FOOD	TON	16.50	296	HARVEST AND HAUL	CARR	TON	9.00
85	USABLE CULLS	BEET	TON	1.00	322	CUSTOM HAULING	---	HEAD	0.50
86	PROC. CARROTS #1	---	TON	64.00	328	CUST COTTON PICK	---	LB.	0.11
87	PRDC. CARROTS #2	---	TON	36.00	329	FUNGICIDE APPLI.	---	ACRE	2.75
88	PROC. CARROTS #3	---	TON	15.00	330	FERTILIZER APPLI	---	ACRE	2.50
89	CARROT CULLS	---	TON	1.00	331	PESTICIDE APPLI.	CSTM	ACRE	3.50
92	GUAR	---	CWT.	22.00	332	HERBICIDE APPLI.	CSTM	ACRE	4.00
93	COTTON LINT	---	LB.	0.58	333	INSECT. APPLI.	---	APPL	2.75
94	COTTONSEED	---	LB.	100.00	335	DEFOLIANT APPLI.	---	ACRE	2.75
95	SPANISH PEANUTS	---	CWT.	29.00	339	MOW,RAKE,BALE	---	BALE	0.65
96	PECANS	NATV	LB.	1.00	393	MISC EXPENSE	LIVE	DOL.	1.00
98	SOYBEANS	---	BU.	7.50	396	WATER FACIL REPR	---	HEAD	2.00
103	SALT & MIN.	---	LB.	0.18	410	VET MEDICINE	---	DOL.	4.00
110	COTTONSEED MEAL	---	LB.	0.12	451	HAIL INSURANCE	---	ACRE	8.00
151	PASTURE MAINT.	---	ACRE	2.00	479	GRAZING LEASES	---	ACRE	3.50
154	PASTURE RENT	UNIM	ACRE	3.50	486	SALES COMM	---	DOL.	1.00
155	PASTURE RENT	PAIM	ACRE	4.50	490	ZINC SULPHATE	PECN	LB.	0.32
156	PASTURE RENT	IMPR	DAYS	0.50	491	SURFACTANT	SOAP	LB.	0.60
161	CORN SILAGE	---	ACRE	7.50	492	CHAIN SAW	PECN	hour	1.50
170	HAY	---	TON	23.00	493	LOG SPLITTER	PECN	hour	3.00
175	SORGHUM HAY	---	BALE	2.00	494	SAW LOGS	PECN	MCF	0.15
180	PASTURE MAINT.	IMPR	TON	70.00	495	VENEER LOGS	PECN	MCF	0.40
184	SEED CORN/GRAIN	---	ACRE	3.00	499	BORON APPLICAT.	BEET	ACRE	3.00
185	SEED CORN/SILAGE	---	LB.	1.40	500	BORON	BEET	ACRE	2.75
186	GRAIN SORG. SEED	---	LB.	0.80	501	CABBAGE	---	BAGS	4.00
187	FORAGE SORG SEED	---	LB.	0.59	502	CANTALOUPS	---	CRTN	5.50
189	SOYBEAN SEED	---	LB.	0.30	503	CARROTS	---	EACH	6.50
195	GUAR SEED	---	LB.	0.45	504	CUCUMBERS	---	CRTN	6.50
212	NITROGEN (DRY)	---	LB.	0.40	505	CUCUMB. PICKLES	---	CWT.	7.50
213	NITROGEN (ANHY)	---	LB.	0.26	506	BUFFLE GR. PAST	---	DAYS	0.50
214	NITROGEN (LIQ)	---	LB.	0.14	507	ONIONS	---	BAGS	5.50
215	PHOSPHATE	---	LB.	0.23	508	SPINACH, FRESH	---	BU.	5.75
220	POTASH	---	LB.	0.32	509	SPINACH, PROCESS	---	TON	84.50
239	FUNGICIDE	DTRT	LB.	0.23	510	LETTUCE	---	CRTN	5.50
240	INSECTICIDE	ZOLO	LB.	9.30	511	OATS GRAZING AUD	---	DAYS	0.50
256	DEFOLIANT	---	GAL.	22.00	512	WHEAT SD TREATED	---	LB.	0.20
268	CUSTOM HARVEST	WHTI	ACRE	12.50	513	BUFFLE GRASS SD	---	CRTN	5.00
269	CUSTOM HARVEST	WHET	BU.	0.20	514	CABBAGE SEED	---	LB.	42.00
270	CUSTOM HARVEST D	SORG	ACRE	15.00	515	CANTALOUPE SEED	---	LB.	9.00
				18.00	516	CARROT SEED	---	LB.	5.50

HEAD	6 = BALE	11 = ACIN	15 = DOL.	19 = FEET	23 = CRTN	27 = EACH
2 = BU.	7 = ACRE	12 = LB.	16 = CWT.	20 = APPL	24 = CRAT	28 = GPM
3 = TON	8 = HOUR	13 = PINT	17 = OZ.	21 = SQFT	25 = BAGS	29 = KWH
4 = DOZ.	9 = DAYS	14 = QT.	18 = MILE	22 = LBGN	26 = TREE	30 = MCF
5 = GAL.	10 = AUM					

CODE	ITEM NAME	NMOD	UNIT	PRICE	CODE	ITEM NAME	NMOD	UNIT	PRICE
517	CUCUMBER SEED	_____	LB.	8.00	567	INSECTICIDE	SUNF	APPL	6.00
518	CUCUMBER=PCKL SD	_____	LB.	8.00	568	INSECTICIDE	SOYB	APPL	6.00
519	ONION SEED	_____	LB.	12.00	570	FUNGICIDE	CABB	APPL	6.50
520	DATS SEED	_____	LB.	0.15	571	FUNGICIDE	CANT	APPL	6.50
521	SPINACH=FRESH SD	_____	LB.	2.00	572	FUNGICIDE	CARR	APPL	5.00
522	SPINACH=PRDC. SD	_____	LB.	1.65	573	FUNGICIDE	CUC.	APPL	6.00
523	LETTUCE SEED	_____	LB.	24.00	574	FUNGICIDE	LETT	APPL	6.00
524	PEANUT SEED	_____	LB.	1.02	575	FUNGICIDE	ONIO	APPL	6.00
525	SUNFLOWER SEED	_____	LB.	0.75	576	FUNGICIDE	PEAN	APPL	6.00
526	SPRIG & SPRIGGNG	_____	ACRE	40.00	577	FUNGICIDE	SPIN	APPL	5.00
527	HVST,PKG,MKT CBG	_____	BAGS	2.00	578	CSTL PAST GRAZNG	_____	DAYS	0.50
528	HARV. PACK & MKT	CABB	CRTN	4.00	579	CUSTOM ROOT PLOW	_____	ACRE	45.00
529	HARV. PACK & MKT	CARR	BAGS	4.25	580	CSTL BERMUDA HAY	_____	TON	70.00
530	HRV,PKG,MKT	CCMB	CRTN	4.25	581	CUST HARV, STRIP	COTT	CWT.	1.75
531	HARVEST. PICKLES	CCMB	CWT.	4.00	582	GIN STRPR COTTON	_____	CWT.	1.75
532	HARV,PKG,MKT	ONIO	BAGS	3.30	583	BL,BG,TIE-ST CTN	_____	BALE	13.00
533	HARV,PKG,MKT	SPIN	BU.	4.50	584	BEEHIVE RENT	_____	ACRE	15.00
534	HARV,PKG,HAUL	SPPR	TON	4.85	585	BEET SEED	_____	LB.	2.40
535	HARV,PKG,HAUL	LETT	CRTN	4.25	586	NEMATICIDE	_____	ACRE	8.60
536	HARVEST & HAUL	SUNF	ACRE	25.00	587	FLORUNNER PEANUT	_____	CWT.	29.00
537	CUSTOM DRYING	PEAN	TON	25.00	588	FUNGICIDE	BEET	ACRE	7.50
538	CUSTOM HAUL	PEAN	TON	6.00	589	ALLOTMENT LEASE	PEAN	CWT.	2.65
539	CUSTOM HARVEST	SOYB	BU.	0.75	590	SPINACH SECONDS	_____	TON	1.50
540	CUSTOM HAUL	SOYB	BU.	0.15	591	GRAZING	_____	DAYS	0.50
541	CUSTOM HAUL	HAY	BALE	0.20	592	CUSTOM FERTILIZE	_____	ACRE	2.50
542	HERBICIDE	HAY	ACRE	4.50	593	SUNFLOWERS	_____	LB.	0.20
543	HERBICIDE	CABB	ACRE	8.00	595	INNOCULANT	_____	ACRE	0.50
544	HERBICIDE	CANT	ACRE	4.00	596	CUSTOM HAUL	_____	CWT.	0.20
545	HERBICIDE	CARR	ACRE	8.00	598	MISC ADMIN O/H	_____	ACRE	10.00
546	HERBICIDE	CORN	ACRE	11.00	599	HERBICIDE	GUAR	ACRE	8.00
547	HERBICIDE	COTT	ACRE	7.00	600	CORD WOOD	PECN	KWH	45.00
548	HERBICIDE	CUCU	ACRE	4.00	_____	_____	_____	_____	_____
549	HERBICIDE	LETT	ACRE	8.00	_____	_____	_____	_____	_____
550	HERBICIDE	SORG	ACRE	8.00	_____	_____	_____	_____	_____
551	HERBICIDE	ONIO	ACRE	4.00	_____	_____	_____	_____	_____
552	HERBICIDE	SP,B	ACRE	20.00	_____	_____	_____	_____	_____
553	HERBICIDE	PEAN	ACRE	3.75	_____	_____	_____	_____	_____
554	HERBICIDE	SUNF	ACRE	8.25	_____	_____	_____	_____	_____
555	HERBICIDE	SOYB	ACRE	8.50	_____	_____	_____	_____	_____
556	INSECTICIDE	CABB	APPL	7.00	_____	_____	_____	_____	_____
557	INSECTICIDE	CANT	APPL	7.00	_____	_____	_____	_____	_____
558	INSECTICIDE	CARR	APPL	6.00	_____	_____	_____	_____	_____
559	INSECTICIDE	CORN	APPL	8.00	_____	_____	_____	_____	_____
560	INSECTICIDE	COTT	APPL	7.50	_____	_____	_____	_____	_____
561	INSECTICIDE	CUC.	APPL	7.50	_____	_____	_____	_____	_____
562	INSECTICIDE	LETT	APPL	6.50	_____	_____	_____	_____	_____
563	INSECTICIDE	SORG	APPL	6.00	_____	_____	_____	_____	_____
564	INSECTICIDE	ONIO	APPL	6.00	_____	_____	_____	_____	_____
565	INSECTICIDE	PEAN	APPL	6.00	_____	_____	_____	_____	_____
566	INSECTICIDE	SPIN	APPL	7.50	_____	_____	_____	_____	_____

1 = HEAD	6 = BALE	11 = ACIN	15 = DOL.	19 = FEET	23 = CRTN	27 = EACH
2 = BU.	7 = ACRE	12 = LB.	16 = CWT.	20 = APPL	24 = CRAT	28 = GPM
3 = TON	8 = HOUR	13 = PINT	17 = OZ.	21 = SQFT	25 = BAGS	29 = KWH
4 = DOZ.	9 = DAYS	14 = QT.	18 = MILE	22 = LBGN	26 = TREE	30 = MCF
5 = GAL.	10 = AUM					

TABLE 1. DEFAULT PARAMETER VALUES AND DEFINITIONS

REGION: 12 DATE: 021582

ROW	PARAMETER DEFINITION	DEFAULT VALUE
1.	PRICE PER GALLON OF GASOLINE	1.1800
2.	PRICE PER GALLON OF L.P. GAS	0.6700
3.	PRICE PER GALLON OF DIESEL	1.1100
4.	PRICE PER KILOWATT HOUR OF ELECTRICITY	0.0750
5.	PRICE PER 1000 CU. FT. OF NATURAL GAS	4.0000
6.	NOMINAL INTEREST RATE	0.1550
7.	MACHINERY INSUR. RATE (AVERAGE INVESTMENT)	0.0100
8.	MACHINERY TAX RATE (PURCHASE VALUE)	0.0050
9.	IRRIGATION SYSTEM NUMBER	1.
10.	HOURLY MACHINERY WAGE RATE	5.00
11.	HOURLY OTHER LABOR WAGE RATE	3.80
12.	HOURLY IRRIG./LIVESTOCK WAGE RATE	3.80
13.	DEATH LOSS (PERCENT OF TOTAL RECEIPTS)	0.0
14.	LIVESTOCK INSUR. RATE (AVERAGE INVESTMENT)	0.0100
15.	EQUIPMENT INSUR. RATE (AVERAGE INVESTMENT)	0.0100
16.	LIVESTOCK TAX RATE (AVERAGE VALUE)	0.0050
17.	EQUIPMENT TAX RATE (AVERAGE VALUE)	0.0050
18.	IRRIGATION LABOR MULTIPLIER (HRS/ACIN)	0.1000
19.	FACTOR TO CONVERT MACHINE HRS TO TRACTOR HRS	1.1000
20.	FACTOR TO CONVERT TRACTOR HRS TO LABOR HRS	1.2000
21.	FACTOR TO CONVERT SELF-POWERED MACHINERY HRS TO LABOR HRS	1.2500
22.	LUBRICATION COST MULTIPLIER OF MACHINERY FUEL COSTS	0.1000
23.	INFLATION RATE	0.0
24.	LUBRICATION COST MULTIPLIER OF EQUIPMENT FUEL COSTS	0.0500

DATE:021502

LISTING OF ECONOMIC AND ENGINEERING DATA FOR MACHINERY IN REGION 12

16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	MACHINE
HP	FUEL LIFE	PRICE	FUEL LIFE	PRICE	HP	ANNUAL TEARS	ANNUAL TEARS	AGE	AGE	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	
16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
150	12000	3	35130	0.92	0.68	7	500	1.60	0.88	1.20	4.5	0.88	1.20	1.50	1	TRACTOR
125	12000	3	29100	0.92	0.68	7	600	1.60	0.88	1.20	4.5	0.88	1.20	1.25	2	TRACTOR
100	12000	3	25150	0.92	0.68	7	500	1.60	0.88	1.20	4.5	0.88	1.20	100	3	TRACTOR
75	12000	3	16530	0.92	0.68	7	300	1.60	0.88	1.20	4.5	0.88	1.20	75	4	TRACTOR
40	12000	3	10080	0.92	0.68	7	300	1.60	0.88	1.20	4.5	0.88	1.20	40	5	TRACTOR
225	12000	3	51805	0.92	0.68	7	600	1.60	0.88	1.20	4.5	0.88	1.20	225	6	TRACTOR 4 WD DR
30	2800	1	7650	0.88	0.60	3	700	1.60	0.88	1.20	4.5	0.88	1.20	30	7	PICKUP TRUCK
120	2000	1	47760	0.88	0.60	6	100	1.80	0.70	0.33	3.0	0.70	0.33	10	8	SECONDHAND
150	2000	1	50050	0.88	0.64	6	100	1.80	0.70	0.33	3.0	0.70	0.33	14	9	SECONDHAND
25	2000	1	19440	0.88	0.60	10	200	1.60	0.70	0.33	0.5	0.70	0.33	18	10	SPRAYER H. SPEED
50	1000	1	12960	0.88	0.60	10	100	1.60	0.70	0.33	0.6	0.70	0.33	19	11	PECAN PICKER
0	2000	0	4750	0.88	0.60	7	200	1.80	0.80	0.60	3.7	0.80	0.60	20	12	PECAN PICKER
0	2000	0	6480	0.88	0.60	7	100	1.80	0.80	1.00	4.5	0.80	1.00	30	13	SHREDDER
0	2000	0	3780	0.88	0.60	7	100	1.80	0.80	1.00	4.5	0.80	1.00	32	14	HOLDBOARD PLOW
0	2000	0	6590	0.88	0.60	7	100	1.80	0.80	1.00	4.5	0.80	1.00	33	15	CHISEL PLOW
0	2000	0	2700	0.88	0.60	7	100	1.80	0.80	1.00	4.5	0.80	1.00	36	16	OFFSET DISC
0	2000	0	1760	0.88	0.60	7	100	1.80	0.80	1.00	4.5	0.80	1.00	37	17	SHREDDER 6A
0	2000	0	3780	0.88	0.60	7	100	1.80	0.80	1.00	3.5	0.80	1.00	38	18	ROLLING CULT 4B
0	2000	0	2590	0.88	0.60	7	100	1.80	0.80	1.00	3.5	0.80	1.00	39	19	ROLLING CULT 6B
0	2000	0	3240	0.88	0.60	7	100	1.80	0.80	1.00	5.0	0.80	1.00	40	20	COLLATOR 4B
0	2000	0	5180	0.88	0.60	7	100	1.80	0.80	1.00	5.0	0.80	1.00	41	21	COLLATOR 6B
0	1200	0	3240	0.88	0.60	7	100	1.80	0.80	1.00	4.5	0.60	0.80	42	22	PLANTER 4B
0	1200	0	6480	0.88	0.60	7	100	1.80	0.80	1.00	4.5	0.60	0.80	43	23	PLANTER 6B
0	1200	0	3240	0.88	0.60	7	100	1.80	0.80	1.00	4.5	0.60	0.80	44	24	PLANTER 4B
0	1000	0	3890	0.88	0.60	7	50	1.80	0.80	0.75	4.5	0.60	0.80	45	25	PLANTER 6B
0	2000	0	1950	0.88	0.60	7	100	1.80	0.80	1.00	4.0	0.72	0.75	46	26	MAIN DRILL
0	2500	0	6480	0.88	0.60	7	100	1.80	0.80	1.00	4.5	0.60	0.80	48	27	RED SHAPER 6B
0	2000	0	1080	0.88	0.60	7	100	1.80	0.80	1.00	6.0	0.60	0.60	49	28	LAND PLANE
0	2000	0	1080	0.88	0.60	7	50	1.80	0.80	1.00	6.0	0.60	0.60	50	29	1-TYPE DICHER
0	2000	0	4320	0.88	0.60	7	50	1.80	0.80	1.00	4.5	0.60	0.60	51	30	SCAPE BLADE
0	2000	0	2700	0.88	0.60	7	50	1.80	0.67	1.20	4.5	0.67	1.20	52	31	TAMPING DISC
0	2000	0	16200	0.88	0.60	12	100	1.80	0.60	0.50	2.5	0.60	0.50	53	32	ROB SHAPER
0	2500	0	1300	0.88	0.60	12	100	1.80	0.60	1.00	5.0	0.60	1.00	54	33	REBBLER
0	2000	0	1080	0.88	0.60	10	100	1.80	0.80	1.00	4.0	0.80	1.00	55	34	REBBLER SPREADER
0	2000	0	2160	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	56	35	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	57	36	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	58	37	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	59	38	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	60	39	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	61	40	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	62	41	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	63	42	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	64	43	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	65	44	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	66	45	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	67	46	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	68	47	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	69	48	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	70	49	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	71	50	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	72	51	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	73	52	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	74	53	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	75	54	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	76	55	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	77	56	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	78	57	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	79	58	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	80	59	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	81	60	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	82	61	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	83	62	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	84	63	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	85	64	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	86	65	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	87	66	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	88	67	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	89	68	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	90	69	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	91	70	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	92	71	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	93	72	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	94	73	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	95	74	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	96	75	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	97	76	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	98	77	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	99	78	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	100	79	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	101	80	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7	100	1.80	0.65	1.00	4.0	0.65	1.00	102	81	REBBLER SPREADER
0	1200	0	1300	0.88	0.60	7										