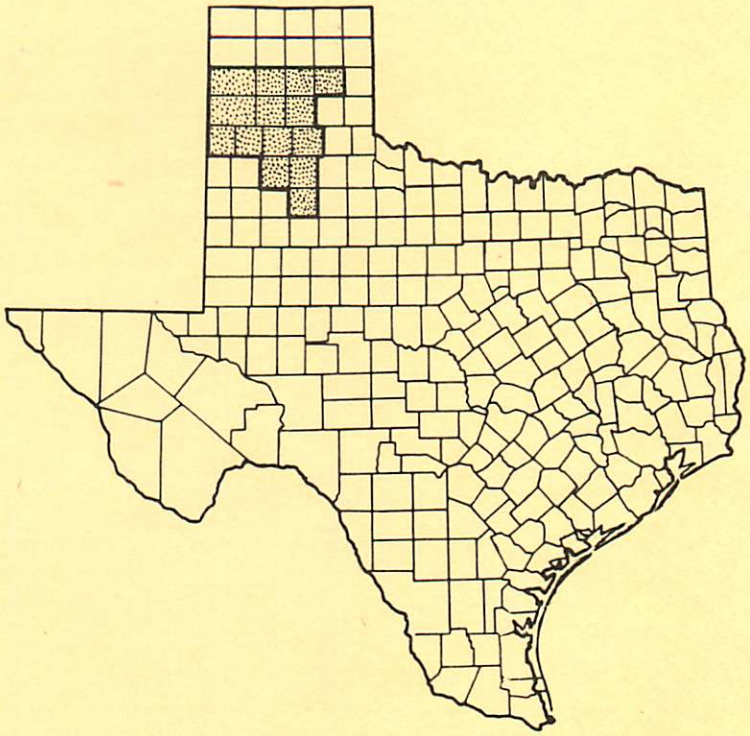

TEXAS HIGH PLAINS II

FOREWORD

The enterprise budgets for Texas High Plains II Region are based on estimates of yields, production input quantities, and production practices which represent the best judgment of local producers, county Extension agents-agriculture, financial institution representatives, farm machinery dealers and others knowledgeable of the area. Variation in yields, production inputs and production practices should be expected for particular farms.

Budgets for all major crops produced in the area are included for two levels of management, when applicable. Crop yields are directly related to levels of management. These differences are due largely to timing of operational practices which may not be evident in the budgets.

The machinery inventory is applicable to both typical and high level management. In some budgets custom rates, primarily harvesting, were used in lieu of the assumption that harvesting equipment was owned.

Budgets for establishing permanent type pasture grasses were prepared and used for prorating establishment costs in the respective pasture and hay budgets. Forage crops include expenses only because it is expected that the income will be derived from livestock enterprises.

Land charges were based on the customary landlord's crop share less his proportionate share of certain production and harvesting inputs and a percentage of fixed cost on the irrigation system when applicable. A per acre land charge was made when crop share was not used.

TEXAS HIGH PLAINS II REGION

Assumed Prices Paid and Received by Farmers 1/

Item	Unit	Price
Prices Paid (1978)		
Seed		
Cotton (Delinted)	lb.	$ .33
Grain Sorghum	lb.	.45
Soybean	lb.	.18
Wheat (Cleaned and Treated)	bu.	3.00
Alfalfa	lb.	1.50
Corn (For Grain)	bag	45.00
Corn (For Silage)	lb.	.60
Forage Sorghum	lb.	.35
Sugar Beets	lb.	1.25
Custom Rates		
Cotton (Strip and Haul)	cwt.	1.00
Combining Corn	bu.	.30
Combining Soybeans	acre	10.00
Combining Wheat (Dryland)	acre	7.00
Combining Wheat (Irrigated)	acre	7.00
Combining Grain Sorghum (Dryland)	acre	7.00
Combining Grain Sorghum (Irrigated)	cwt.	.30
Sugar Beets (Harvest and Haul)	ton	4.00
Hay Harvest, Swath, Bale, Haul	bale	.60
Corn (Harvest)	bu.	.30
Drying Corn	bu.	.10
Hauling		
Corn	bu.	.05
Grain Sorghum	cwt.	.10
Soybeans	bu.	.10
Wheat	bu.	.10
Cotton Ginning	cwt.	1.75
Fuel and Lubricants		
Gasoline	gal.	.55
L.P. Gas	gal.	.35
Diesel Fuel	gal.	.42
Motor Oil (Heavy Duty, Detergent)	gal.	2.40

Item	Unit	Price
Fertilizer (Bulk)		
Nitrogen (Anhydrous)	lb.	$ .10
Phosphorous	lb.	.18
Labor (Tractor)	hour	6.00
Labor (Irrigation)	hour	5.00
Chemicals		
Pre-emergence Herbicide	5 gal.	140.00
Methyl Parathion	gal.	5.25
Malathion	gal.	11.00
Land Lease		
Irrigated	acre	50.00
Dry	acre	10.00
Hail Insurance		
Wheat	$100	8.00
Cotton	$100	12.00
Corn	$100	8.00
Interest		.10
Prices Received (1978)		
Cotton	lb. lint	.44
Cottonseed	ton	60.00
Wheat	bu.	2.20
Grain Sorghum	cwt.	3.25
Alfalfa Hay (Standing in Field)	ton	45.00
Forage Sorghum Hay (Baled)	ton	45.00
Ensilage (Corn) Standing in Field	ton	15.00
Corn (Grain)	bu.	1.95
Soybeans	bu.	4.75
Sugar Beets (14% Sugar)	ton	23.00

1/ These price assumptions are not to be interpreted as predictions or prospective prices.

TEXAS HIGH PLAINS II REGION

Estimated Machinery and Equipment Cost Per Hour of Use

Machinery Item and Size	Item No.	Purchase Price	Estimated Years of Use	Estimated Hours of Use	Fixed Costs Per Hour	Variable Costs Per Hour
Tractor 2	2	$22,000	5	2500	$7.23	$5.20
Tractor 3	3	16,500	5	2500	5.00	4.36
Pickup 10	10	5,000	3	2100	1.90	4.58
Rolling Cult. T	30	2,150	8	1400	1.86	.86
Cultivator 6R T	33	2,650	7	1400	2.29	1.08
Lister Plntr 6R T	36	2,700	7	1050	3.12	1.44
Tandem Disc T	40	2,000	7	1400	1.72	.81
Tandem Disc T	41	3,950	7	1400	3.42	1.59
Offset Disc T	42	3,200	7	1400	2.76	1.29
Offset Disc T	43	9,000	7	1400	7.74	2.99
Rodweeder T	50	3,200	7	1680	2.30	1.08
Furrow Opener T	52	1,200	7	840	1.72	.81
Lister 6R T	54	1,050	7	1050	1.20	.57
Lister 8R T	55	1,650	7	1050	1.89	.90
Shredder 4R T	57	2,000	7	875	2.76	1.29
Grain Drill T	58	2,300	7	840	3.34	1.53
Float Box T	60	400	7	700	1.41	.59
Herb Spr/Disc T	61	450	7	700	.79	.35
Rolling Cult. H	66	2,150	7	1400	2.42	1.13
Cultivator 8R H	69	3,450	7	1400	2.98	1.40
Lister Plntr 8R H	72	3,200	7	1050	3.70	1.71

(Continued)

Texas High Plains II Region

(Continued)

Machinery Item and Size	Item No.	Purchase Price	Estimated Years of Use	Estimated Hours of Use	Fixed Costs Per Hour	Variable Costs Per Hour
Tandem Disc H	76	$3,950	7	1400	$3.42	$1.59
Offset Disc H	77	3,200	7	1400	2.76	1.29
Offset Disc H	78	9,000	7	1400	7.92	3.29
Chisel H	79	4,150	7	1400	3.59	1.67
Rodweeder H	85	3,200	7	1680	2.30	1.07
Furrow Opener H	87	1,200	7	840	4.26	1.67
Lister 8R H	90	1,650	7	1050	1.89	.90
Shredder 4R H	92	2,000	7	875	2.76	1.29
Grain Drill H	93	2,300	7	840	3.31	1.55
Float Box H	95	400	7	700	1.41	.59
Herb Spr/Disc H	96	450	7	700	.79	.10

ALFALFA ESTABLISHMENT. IRRIGATED. TEXAS HIGH PLAINS II REGION
ESTIMATED COSTS AND RETURNS PER ACRE
TYPICAL MANAGEMENT

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST
1. GROSS RECEIPTS FROM PRODUCTION				$
TOTAL				$ 0.0
2. VARIABLE COSTS				
PREHARVEST				$
SEED	LBS.	1.50	20.00	30.00
AERIAL SEEDING	ACRE	5.00	1.00	5.00
MACHINERY	ACRE	2.85	1.00	2.85
TRACTORS	ACRE	10.52	1.00	10.52
IRRIGATION MACHINERY	ACRE	24.50	1.00	24.50
LABOR(TRACTOR & MACHINERY)	HOUR	6.00	4.37	26.20
LABOR(IRRIGATION)	HOUR	5.00	1.72	8.61
INTEREST ON OP. CAP.	DOL.	0.10	21.97	2.20
SUBTOTAL. PRE-HARVEST				$ 109.87
HARVEST COSTS				$
SUBTOTAL. HARVEST				$ 0.0
TOTAL VARIABLE COST				$ 109.87
3. INCOME ABOVE VARIABLE COSTS				$-109.87
4. FIXED COSTS				$
MACHINERY	ACRE	3.83	1.00	3.83
TRACTORS	ACRE	12.03	1.00	12.03
IRRIGATION MACHINERY	ACRE	13.86	1.00	13.86
LAND (NET RENT)	ACRE	18.07	1.00	18.07
TOTAL FIXED COSTS				$ 47.79
5. TOTAL COSTS				$ 157.67
6. NET RETURNS				$-157.67

LAND CHARGE USES $25/ACRE LESS 50% OF IRRIGATION FIXED COSTS.
PREPARED BY RAY SAMMONS. TAEX. AMARILLO. TEXAS PROJECTED 1978

ALFALFA ESTABLISHMENT, IRRIGATED, TEXAS HIGH PLAINS II REGION
ESTIMATED COSTS AND RETURNS PER ACRE
TYPICAL MANAGEMENT

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOURS	MACHINE HOURS	FUEL,OIL, LUB.,REP, PER ACRE	FIXED COSTS PER ACRE
MOLDBOARD 4B TM	3.46	JULY	1.00	0.889	0.494	2.94	3.73
TANDEM DISC TM	3.40	JULY	1.00	0.303	0.168	1.02	1.30
PICKUP 1/2 TON	10	JULY	0.10	0.125	0.100	0.27	0.19
TANDEM DISC TM	3.40	AUG	2.00	0.606	0.337	2.03	2.60
BOX FLOAT TM	3.60	AUG	2.00	1.212	0.673	3.73	4.50
TANDEM DISC TM	3.40	AUG	1.00	0.303	0.168	1.02	1.30
TANDEM DISC TM	3.40	AUG	1.00	0.303	0.168	1.02	1.30
PICKUP 1/2 TON	10	NOV	0.50	0.625	0.500	1.34	0.95
TOTALS				4.367	2.609	13.37	15.86

LAND CHARGE USES $25/ACRE LESS 50% OF IRRIGATION FIXED COSTS.
PREPARED BY RAY SAMMONS, TAEX, AMARILLO, TEXAS PROJECTED 1978

BUDGET IDENTIFICATION NUMBER--- 811002402 220 0
ANNUAL CAPITAL MONTH 12

ALFALFA. IRRIGATED. TEXAS HIGH PLAINS II REGION
ESTIMATED COSTS AND RETURNS PER ACRE
TYPICAL MANAGEMENT

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST
1. GROSS RECEIPTS FROM PRODUCTION				$
HAY	TON	45.00	6.00	270.00
TOTAL				$ 270.00
2. VARIABLE COSTS				
PREHARVEST				$
FERT (P)APPL'D	LBS.	0.18	80.00	14.40
MACHINERY	ACRE	2.14	1.00	2.14
IRRIGATION MACHINERY	ACRE	42.00	1.00	42.00
LABOR(TRACTOR & MACHINERY)	HOUR	6.00	1.00	6.00
LABOR(IRRIGATION)	HOUR	5.00	2.95	14.76
INTEREST ON OP. CAP.	DOL.	0.10	20.16	2.02
SUBTOTAL. PRE-HARVEST				$ 81.32
HARVEST COSTS				$
SUBTOTAL. HARVEST				$ 0.0
TOTAL VARIABLE COST				$ 81.32
3. INCOME ABOVE VARIABLE COSTS				$ 188.68
4. FIXED COSTS				$
MACHINERY	ACRE	1.51	1.00	1.51
TRACTORS	ACRE	0.0	1.00	0.0
IRRIGATION MACHINERY	ACRE	23.76	1.00	23.76
PRORATED ESTAB. COST	ACRE	157.67	0.20	31.53
LAND (NET RENT)	ACRE	38.12	1.00	38.12
TOTAL FIXED COSTS				$ 94.93
5. TOTAL COSTS				$ 176.25
6. NET RETURNS				$ 93.75

LAND CHARGE USES $50/ACRE LESS 50 PERCENT OF IRRIGATION FIXED COSTS.
ESTABLISHMENT COSTS PRORATED OVER 5 YEARS.
PREPARED BY RAY SAMMONS. TAEX. AMARILLO. TEXAS PROJECTED 1978

ALFALFA, IRRIGATED, TEXAS HIGH PLAINS II REGION
ESTIMATED COSTS AND RETURNS PER ACRE
TYPICAL MANAGEMENT

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOURS	MACHINE HOURS	FUEL,OIL, LUB.,REP. PER ACRE	FIXED COSTS PER ACRE
PICKUP 1/2 TON	10	OCT	0.10	0.125	0.100	0.27	0.19
PICKUP 1/2 TON	10	MAR	0.10	0.125	0.100	0.27	0.19
PICKUP 1/2 TON	10	APR	0.10	0.125	0.100	0.27	0.19
PICKUP 1/2 TON	10	MAY	0.10	0.125	0.100	0.27	0.19
PICKUP 1/2 TON	10	JUNE	0.10	0.125	0.100	0.27	0.19
PICKUP 1/2 TON	10	JULY	0.10	0.125	0.100	0.27	0.19
PICKUP 1/2 TON	10	AUG	0.10	0.125	0.100	0.27	0.19
PICKUP 1/2 TON	10	SEPT	0.10	0.125	0.100	0.27	0.19
TOTALS				1.000	0.800	2.14	1.51

LAND CHARGE USES $50/ACRE LESS 50 PERCENT OF IRRIGATION FIXED COSTS.
ESTABLISHMENT COSTS PRORATED OVER 5 YEARS.
PREPARED BY RAY SAMMONS, TAEX, AMARILLO, TEXAS PROJECTED 1978

BUDGET IDENTIFICATION NUMBER--- 81 002602 220 0
ANNUAL CAPITAL MONTH 9

ALFALFA ESTABLISHMENT. IRRIGATED. TEXAS HIGH PLAINS II REGION
ESTIMATED COSTS AND RETURNS PER/ACRE
HIGH LEVEL MANAGEMENT

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST
1. GROSS RECEIPTS FROM PRODUCTION				$_____
TOTAL				$ 0.0
2. VARIABLE COSTS				
PREHARVEST				$
SEED	LBS.	1.50	20.00	30.00
AERIAL SEEDING	ACRE	5.00	1.00	5.00
MACHINERY	ACRE	2.97	1.00	2.97
TRACTORS	ACRE	9.18	1.00	9.18
IRRIGATION MACHINERY	ACRE	24.50	1.00	24.50
LABOR(TRACTOR & MACHINERY)	HOUR	6.00	3.40	20.38
LABOR(IRRIGATION)	HOUR	5.00	1.72	8.61
INTEREST ON OP. CAP.	DOL.	0.10	21.58	2.16
SUBTOTAL. PRE-HARVEST				$ 102.79
HARVEST COSTS				$_____
SUBTOTAL. HARVEST				$ 0.0
TOTAL VARIABLE COST				$ 102.79
3. INCOME ABOVE VARIABLE COSTS				$-102.79
4. FIXED COSTS				$
MACHINERY	ACRE	4.08	1.00	4.08
TRACTORS	ACRE	12.74	1.00	12.74
IRRIGATION MACHINERY	ACRE	13.86	1.00	13.86
LAND (NET RENT)	ACRE	18.07	1.00	18.07
TOTAL FIXED COSTS				$ 48.75
5. TOTAL COSTS				$ 151.54
6. NET RETURNS				$-151.54

LAND CHARGE USES $25/ACRE LESS 50% OF IRRIGATION FIXED COSTS.

PREPARED BY RAY SAMMONS. TAEX. AMARILLO. TEXAS PROJECTED 1978

ALFALFA ESTABLISHMENT, IRRIGATED, TEXAS HIGH PLAINS II REGION
ESTIMATED COSTS AND RETURNS PER/ACRE
HIGH LEVEL MANAGEMENT

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOURS	MACHINE HOURS	FUEL,OIL, LUB.,REP. PER ACRE	FIXED COSTS PER ACRE
MLBD ROLLOVR HLM	2.81	JULY	1.00	0.815	0.453	3.37	5.10
TANDEM DISC HLM	2.76	JULY	1.00	0.175	0.097	0.76	1.18
PICKUP 1/2 TON	10	JULY	0.10	0.125	0.100	0.27	0.19
TANDEM DISC HLM	2.76	AUG	1.00	0.175	0.097	0.76	1.18
BOX FLOAT HLM	2.95	AUG	2.00	1.131	0.629	4.12	5.89
TANDEM DISC HLM	2.76	AUG	2.00	0.350	0.195	1.52	2.35
PICKUP 1/2 TON	10	NOV	0.50	0.625	0.500	1.34	0.95
TOTALS				3.396	2.070	12.15	16.82

LAND CHARGE USES $25/ACRE LESS 50% OF IRRIGATION FIXED COSTS.

PREPARED BY RAY SAMMONS, TAEX, AMARILLO, TEXAS PROJECTED 1978

BUDGET IDENTIFICATION NUMBER--- 811002401 220 0
ANNUAL CAPITAL MONTH 12

ALFALFA. IRRIGATED. TEXAS HIGH PLAINS II REGION
ESTIMATED COSTS AND RETURNS PER ACRE
HIGH LEVEL MANAGEMENT

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST
1. GROSS RECEIPTS FROM PRODUCTION				$
HAY	TON	45.00	8.00	360.00
TOTAL				$ 360.00
2. VARIABLE COSTS				
PREHARVEST				$
FERT (P) APPL'D	LBS.	0.18	120.00	21.60
MACHINERY	ACRE	2.14	1.00	2.14
IRRIGATION MACHINERY	ACRE	59.50	1.00	59.50
LABOR(TRACTOR & MACHINERY)	HOUR	6.00	1.00	6.00
LABOR(IRRIGATION)	HOUR	5.00	4.18	20.91
INTEREST ON OP. CAP.	DOL.	0.10	32.18	3.22
SUBTOTAL. PRE-HARVEST				$ 113.37
HARVEST COSTS				$
SUBTOTAL. HARVEST				$ 0.0
TOTAL VARIABLE COST				$ 113.37
3. INCOME ABOVE VARIABLE COSTS				$ 246.63
4. FIXED COSTS				$
MACHINERY	ACRE	1.51	1.00	1.51
TRACTORS	ACRE	0.0	1.00	0.0
IRRIGATION MACHINERY	ACRE	33.66	1.00	33.66
PRORATED ESTAB. COST	ACRE	151.54	0.14	21.67
LAND (NET RENT)	ACRE	33.17	1.00	33.17
TOTAL FIXED COSTS				$ 90.01
5. TOTAL COSTS				$ 203.39
6. NET RETURNS				$ 156.61

LAND CHARGE USES $50/ACRE LESS 50 PERCENT OF IRRIGATION FIXED COSTS.
ESTABLISHMENT COSTS PRORATED OVER 7 YEARS.
PREPARED BY RAY SAMMONS. TAEX. AMARILLO. TEXAS PROJECTED 1978

ALFALFA. IRRIGATED. TEXAS HIGH PLAINS II REGION
ESTIMATED COSTS AND RETURNS PER ACRE
HIGH LEVEL MANAGEMENT

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOURS	MACHINE HOURS	FUEL.OIL. LUB..REP. PER ACRE	FIXED COSTS PER ACRE
PICKUP 1/2 TON	10	MAR	0.10	0.125	0.100	0.27	0.19
PICKUP 1/2 TON	10	APR	0.10	0.125	0.100	0.27	0.19
PICKUP 1/2 TON	10	MAY	0.10	0.125	0.100	0.27	0.19
[illegible]ICKUP 1/2 TON	10	JUNE	0.10	0.125	0.100	0.27	0.19
[illegible]CKUP 1/2 TON	10	JULY	0.10	0.125	0.100	0.27	0.19
P[illegible]UP 1/2 TON	10	AUG	0.10	0.125	0.100	0.27	0.19
P[illegible]P 1/2 TON	10	SEPT	0.10	0.125	0.100	0.27	0.19
PIC[illegible] 1/2 TON	10	OCT	0.10	0.125	0.100	0.27	0.19
T[illegible]S				1.000	0.800	2.14	1.51

LAND CHARGE [illegible]S $50/ACRE LESS 50 PERCENT OF IRRIGATION FIXED COSTS.
ESTABLISHMENT [illegible]OSTS PRORATED OVER 7 YEARS.
PREPARED BY RAY [illegible]AMMONS. TAEX. AMARILLO. TEXAS PROJECTED 1978

BUDGET IDENTIFICATI[illegible]UMBER--- 81 002901 220 0
ANNUAL CAPITAL MONTH

CORN FOR GRAIN. IRRIGATED. TEXAS HIGH PLAINS II REGION
ESTIMATED COSTS AND RETURNS PER ACRE
TYPICAL MANAGEMENT

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST
1. GROSS RECEIPTS FROM PRODUCTION				$
CORN	BU.	1.95	125.00	243.75
TOTAL				$ 243.75
2. VARIABLE COSTS				
PREHARVEST				$
SEED	BAGS	45.00	0.35	15.75
FERT (N) APPL'D	LBS.	0.10	200.00	20.00
HERB. POSTEMERGE	ACRE	8.75	1.00	8.75
INSECTICIDE	ACRE	15.00	1.00	15.00
MACHINERY	ACRE	4.87	1.00	4.87
TRACTORS	ACRE	8.77	1.00	8.77
IRRIGATION MACHINERY	ACRE	38.50	1.00	38.50 ↑ 5.50
LABOR(TRACTOR & MACHINERY)	HOUR	6.00	4.52	27.09
LABOR(IRRIGATION)	HOUR	5.00	2.71	13.53
INTEREST ON OP. CAP.	DOL.	0.10	54.78	5.48
SUBTOTAL. PRE-HARVEST				$ 157.74
HARVEST COSTS				$
CUSTOM COMBINE	BU.	0.30	125.00	37.50
CUSTOM HAUL	BU.	0.05	125.00	6.25
CUSTOM DRYING	BU.	0.10	125.00	12.50
SUBTOTAL. HARVEST				$ 56.25
TOTAL VARIABLE COST				$ 213.99
3. INCOME ABOVE VARIABLE COSTS				$ 29.76
4. FIXED COSTS				$
MACHINERY	ACRE	5.83	1.00	5.83
TRACTORS	ACRE	10.03	1.00	10.03
IRRIGATION MACHINERY	ACRE	21.78	1.00	21.78
LAND (NET RENT)	ACRE	14.96	1.00	14.96
TOTAL FIXED COSTS				$ 52.60
5. TOTAL COSTS				$ 266.59
6. NET RETURNS				$ -22.84

LAND (NET RENT) BASED ON 33% OF GROSS INCOME LESS 33% OF FERT. GAS. HERB. INSECT. HARVEST & 50% OF FIXED IRRIG COSTS. GOVT PROGRAM PAYMT NOT INCL.
PREPARED BY RAY SAMMONS. TAEX. AMARILLO. TEXAS PROJECTED 1978

CORN FOR GRAIN. IRRIGATED. TEXAS HIGH PLAINS II REGION
ESTIMATED COSTS AND RETURNS PER ACRE
TYPICAL MANAGEMENT

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOURS	MACHINE HOURS	FUEL,OIL. LUB..REP. PER ACRE	FIXED COSTS PER ACRE
SHREDDER 4R TM	3.57	NOV	1.00	0.354	0.197	1.29	1.72
PICKUP 1/2 TON	10	DEC	1.20	1.500	1.200	3.22	2.27
OFFSET DISC TM	3.42	FEB	3.00	0.909	0.505	3.30	4.42
BOX FLOAT TM	3.60	MAR	1.00	0.606	0.337	1.87	2.25
LISTER 6R TM	3.54	MAR	1.00	0.221	0.123	0.71	0.88
LISTER-PLNT6R TM	3.36	APR	1.00	0.371	0.206	1.38	1.88
RODWEEDER TM	3.50	APR	1.00	0.141	0.079	0.50	0.65
ROLLING CULT TM	3.30	MAY	1.00	0.212	0.118	0.72	0.92
FURROW OPENER TM	3.52	MAY	1.00	0.200	0.111	0.67	0.86
TOTALS				4.516	2.875	13.64	15.86

LAND (NET RENT) BASED ON 33% OF GROSS INCOME LESS 33% OF FERT. GAS. HERB INSECT. HARVEST & 50% OF FIXED IRRIG COSTS. GOVT PROGRAM PAYMT NOT INCL.
PREPARED BY RAY SAMMONS. TAEX. AMARILLO. TEXAS PROJECTED 1978

BUDGET IDENTIFICATION NUMBER--- 72 002602 220 0
ANNUAL CAPITAL MONTH 10