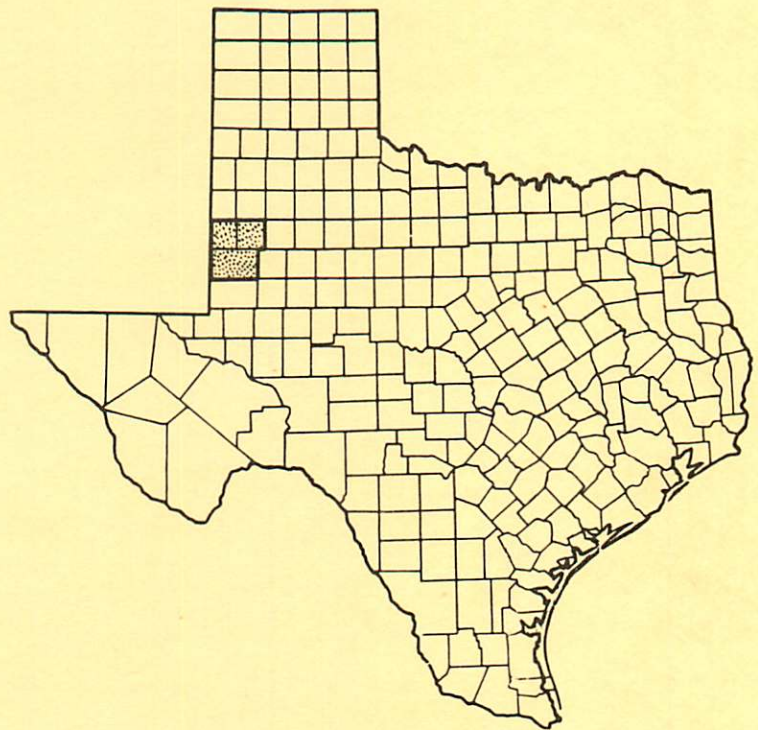




TEXAS HIGH PLAINS IV

FOREWORD

The enterprise budgets for Texas High Plains IV 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 bud-

gets 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 IV REGION

Assumed Prices Paid and Received by Farmers 1/

Item	Unit	Price
<u>Prices paid (1976)</u>		
Seed		
Cotton (delinted)	cwt.	\$ 35.00
Grain Sorghum	cwt.	40.00
Wheat (cleaned and treated)	bu.	7.00
Alfalfa	cwt.	175.00
Sprigs	bu.	1.00
Southern peas	cwt.	55.00
Custom rates		
Cotton (harvest and haul)	cwt.	1.00
Combining wheat (dryland)	acre	7.50
Combining wheat (irrigated)	acre	12.00
Combining grain sorghum (dryland)	acre	7.50
Combining grain sorghum (irrigated)	cwt.	.30
Hauling		
Grain sorghum	cwt.	.20
Wheat	bu.	.15
Chemical spraying (aerial)	acre	2.50
Cotton ginning	cwt.	1.25
Fuel lubricants		
Gasoline	gal.	.40
L.P. gas	gal.	.35
Diesel fuel	gal.	.40
Motor oil (heavy duty, detergent)	gal.	2.40
Fertilizer (bulk)		
Nitrogen (anhydrous)	lb.	.16
Nitrogen (granular)	lb.	.30
Labor (except hoeing & irrigation)	hour	2.75
Labor (irrigation)	hour	2.75
Labor (hoeing)	hour	2.25

Item	Unit	Price
Chemicals		
Pre-emergence herbicide	5 gal.	\$140.00
Methyl parathion	gal.	5.25
Malathion	gal.	11.00
Land Lease (cash rent)		
General	acre	50.00
Hail Insurance		
Wheat	\$100	8.00
Cotton	\$100	12.00
Grain Sorghum	\$100	8.00
Interest		
Capital	\$	.08
Operating	\$	.10

Price received (1976)

Cotton	lb. lint	.40
Cottonseed	ton	90.00
Wheat	bu.	3.75
Grain sorghum	cwt.	4.50
Alfalfa hay (standing in field)	ton	40.00
Pasture grazing	lb.	.20

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

TEXAS HIGH PLAINS IV REGION

Estimated Machinery and Equipment Cost Per Hour of Use

Machinery Item and Size	Purchase Price	Estimated Years of Use	Estimated Hours of Use	Fixed Costs Per Hour	Variable Costs Per Hour
Tractor - 120 HP	\$16,600	5	5000	\$3.27	\$5.44
Tractor - 100 HP	12,000	5	5000	2.37	4.22
Tractor - 45 HP	4,000	12	7200	.93	1.92
Pickup - 1/2 ton	5,100	3	2100	2.02	3.37
Rolling cultivator 6R - 20 feet	1,900	8	1280	2.04	1.11
MB plow 4B - 5.3 feet	1,550	8	1600	1.34	.72
Chisel - 13 feet	900	8	1600	.78	.24
Tandem disc - 13 feet	1,750	8	2000	1.20	.38
Grain drill - 16 feet	1,750	10	1200	2.26	.63
Shredder 4R - 13 feet	1,556	8	1000	2.14	.75
Sandfighter (2) - 20 feet	350	10	2000	.27	.08
Clod buster - 5.5 feet	450	12	2004	.38	.10
Herb sprayer - 24 feet	550	10	2000	.42	.12
Cotton trail (9) - 3 feet	800	12	1800	.75	.28
Lister 8R - 27 feet	1,800	8	1600	1.54	.63
Lister plant 8R - 27 feet	3,000	8	2000	2.07	.84
Bed planter - 27 feet	2,000	8	2000	1.37	.56
Rolling cultivator 8R - 27 feet	2,040	8	1200	2.33	1.27
Bed knife 8R - 27 feet	1,000	8	800	1.72	.94
Shredder 2R - 6.7 feet	378	8	1000	.52	.18

ALFALFA ESTAB., IRRIGATED, TEXAS HIGH PLAINS IV REGION
ESTIMATED COSTS AND RETURNS PER ACRE
TYPICAL MANAGEMENT (CENTER PIVOT SYSTEM)

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST
1. GROSS RECEIPTS FROM PRODUCTION				\$ -----
TOTAL				\$ 0.0
2. VARIABLE COSTS				\$
PREHARVEST				
SEED	LBS.	1.75	22.00	38.50
FERT(20-100-60)	ACRE	54.00	1.00	54.00
MACHINERY	ACRE	2.30	1.00	2.30
TRACTORS	ACRE	6.18	1.00	6.18
IRRIGATION MACHINERY	ACRE	17.60	1.00	17.60
LABOR(TRACTOR & MACHINERY)	HOURL	2.75	2.18	5.99
LABOR(IRRIGATION)	HOURL	2.75	1.50	4.12
INTEREST ON OP. CAP.	DOL.	0.10	34.91	3.49
SUBTOTAL, PRE-HARVEST				\$ 132.19
HARVEST COSTS				\$ -----
SUBTOTAL, HARVEST				\$ 0.0
TOTAL VARIABLE COST				\$ 132.19
3. INCOME ABOVE VARIABLE COSTS				\$-132.19
4. FIXED COSTS				\$
MACHINERY	ACRE	2.58	1.00	2.58
TRACTORS	ACRE	3.63	1.00	3.63
IRRIGATION MACHINERY	ACRE	22.40	1.00	22.40
LAND (NET RENT)	ACRE	39.80	1.00	39.80
TOTAL FIXED COSTS				\$ 68.41
5. TOTAL COSTS				\$ 200.60
6. NET RETURNS				\$-200.60

* LAND CHARGE BASED ON RATES IN REGION, \$50/ACRE, LESS 50 PCT. OF
IRRIGATION FIXED COSTS. PROJECTED, 1976

ALFALFA ESTAB., IRRIGATED, TEXAS HIGH PLAINS IV REGION
ESTIMATED COSTS AND RETURNS PER ACRE
TYPICAL MANAGEMENT (CENTER PIVOT SYSTEM)

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOURS	MACHINE HOURS	FUEL,OIL, LUB.,REP. PER ACRE	FIXED COSTS PER ACRE
MBPLOW 4B	1,33	JUNE	1.00	0.712	0.475	3.44	2.50
CLOD BUSTER	51	JUNE	1.00	0.0	0.404	0.04	0.15
PICKUP	10	JULY	0.10	0.125	0.100	0.34	0.20
TANDEM DISC	3,43	AUG	1.00	0.239	0.159	0.87	0.64
FERT.APPLI,RENTD	3,86	AUG	1.00	0.097	0.064	0.33	0.18
TANDEM DISC	1,43	AUG	1.00	0.239	0.159	1.10	0.82
PICKUP	10	AUG	0.10	0.125	0.100	0.34	0.20
GRAIN DRILL	3,45	SEPT	1.00	0.269	0.179	1.02	0.91
PICKUP	10	SEPT	0.10	0.125	0.100	0.34	0.20
PICKUP	10	OCT	0.10	0.125	0.100	0.34	0.20
PICKUP	10	NOV	0.10	0.125	0.100	0.34	0.20
TOTALS				2.180	1.941	8.48	6.21

* LAND CHARGE BASED ON RATES IN REGION, \$50/ACRE, LESS 50 PCT. OF IRRIGATION FIXED COSTS. PROJECTED, 1976

BUDGET IDENTIFICATION NUMBER--- 811004302 470 0
ANNUAL CAPITAL MONTH 12

ALFALFA, IRRIGATED, TEXAS HIGH PLAINS IV REGION
ESTIMATED COSTS AND RETURNS PER ACRE
TYPICAL MANAGEMENT (CENTER PIVOT SYSTEM)

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST
1. GROSS RECEIPTS FROM PRODUCTION				\$
HAY	TON	40.00	6.50	<u>260.00</u>
TOTAL				\$ 260.00
2. VARIABLE COSTS				\$
PREHARVEST				
FERT(0-100-60)	ACRE	48.00	1.00	48.00
MACHINERY	ACRE	1.68	1.00	1.68
TRACTORS	ACRE	0.15	1.00	0.15
IRRIGATION MACHINERY	ACRE	42.24	1.00	42.24
LABOR(TRACTOR & MACHINERY)	HOURL	2.75	0.72	1.98
LABOR(IRRIGATION)	HOURL	2.75	3.60	9.90
INTEREST ON OP. CAP.	DOL.	0.10	41.15	<u>4.11</u>
SUBTOTAL, PRE-HARVEST				\$ 108.07
HARVEST COSTS				\$ -----
SUBTOTAL, HARVEST				\$ 0.0
TOTAL VARIABLE COST				\$ 108.07
3. INCOME ABOVE VARIABLE COSTS				\$ 151.93
4. FIXED COSTS				\$
MACHINERY	ACRE	1.01	1.00	1.01
TRACTORS	ACRE	0.07	1.00	0.07
IRRIGATION MACHINERY	ACRE	53.76	1.00	53.76
PRORATED ESTAB. COST	ACRE	200.61	0.14	28.69
LAND (NET RENT)	ACRE	38.12	1.00	<u>38.12</u>
TOTAL FIXED COSTS				\$ 121.65
5. TOTAL COSTS				\$ 229.72
6. NET RETURNS				\$ 30.28

* CROP SOLD STANDING IN FIELD.

* LAND CHARGE BASED ON LANDLORD SHARE (1/4) LESS 50 PCT. OF IRRIGATION
FIXED COSTS. ESTABLISHMENT COST PRORATED OVER 7 YEARS. PROJECTED, 1976

ALFALFA, IRRIGATED, TEXAS HIGH PLAINS IV REGION
ESTIMATED COSTS AND RETURNS PER ACRE
TYPICAL MANAGEMENT (CENTER PIVOT SYSTEM)

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOURS	MACHINE HOURS	FUEL,OIL, LUB.,REP. PER ACRE	FIXED COSTS PER ACRE
FERT.APPLI,RENTD	5,86	MAR	1.00	0.097	0.064	0.15	0.07
PICKUP	10	MAR	0.10	0.125	0.100	0.34	0.20
PICKUP	10	MAY	0.10	0.125	0.100	0.34	0.20
PICKUP	10	JULY	0.10	0.125	0.100	0.34	0.20
PICKUP	10	SEPT	0.10	0.125	0.100	0.34	0.20
PICKUP	10	OCT	0.10	0.125	0.100	0.34	0.20
TOTALS				0.722	0.564	1.83	1.08

* CROP SOLD STANDING IN FIELD.

* LAND CHARGE BASED ON LANDLORD SHARE (1/4) LESS 50 PCT. OF IRRIGATION
FIXED COSTS. ESTABLISHMENT COST PRORATED OVER 7 YEARS. PROJECTED, 1976

BUDGET IDENTIFICATION NUMBER--- 81 004602 470 0
ANNUAL CAPITAL MONTH 10

ALFALFA ESTAB., IRRIGATED, TEXAS HIGH PLAINS IV REGION
ESTIMATED COSTS AND RETURNS PER ACRE
HIGH LEVEL MANAGEMENT (CENTER PIVOT SYSTEM)

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST
1. GROSS RECEIPTS FROM PRODUCTION				\$-----
TOTAL				\$ 0.0
2. VARIABLE COSTS				
PREHARVEST				\$
SEED	LBS.	1.75	22.00	38.50
FERT(20-120-100)	ACRE	72.00	1.00	72.00
MACHINERY	ACRE	2.30	1.00	2.30
TRACTORS	ACRE	5.95	1.00	5.95
IRRIGATION MACHINERY	ACRE	17.60	1.00	17.60
LABOR(TRACTOR & MACHINERY)	HOURL	2.75	2.18	5.99
LABOR(IRRIGATION)	HOURL	2.75	1.50	4.12
INTEREST ON OP. CAP.	DOL.	0.10	40.54	4.05
SUBTOTAL, PRE-HARVEST				\$ 150.52
HARVEST COSTS				\$-----
SUBTOTAL, HARVEST				\$ 0.0
TOTAL VARIABLE COST				\$ 150.52
3. INCOME ABOVE VARIABLE COSTS				\$-150.52
4. FIXED COSTS				\$
MACHINERY	ACRE	2.58	1.00	2.58
TRACTORS	ACRE	3.46	1.00	3.46
IRRIGATION MACHINERY	ACRE	22.40	1.00	22.40
LAND (NET RENT)	ACRE	38.80	1.00	38.80
TOTAL FIXED COSTS				\$ 67.24
5. TOTAL COSTS				\$ 217.76
6. NET RETURNS				\$-217.76

* LAND CHARGE BASED ON RATES IN REGION, \$50/ACRE, LESS 50 PCT. OF
IRRIGATION FIXED COSTS. PROJECTED, 1976

ALFALFA ESTAB., IRRIGATED, TEXAS HIGH PLAINS IV REGION
ESTIMATED COSTS AND RETURNS PER ACRE
HIGH LEVEL MANAGEMENT (CENTER PIVOT SYSTEM)

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOURS	MACHINE HOURS	FUEL,OIL, LUB.,REP. PER ACRE	FIXED COSTS PER ACRE
MBPLOW 4B	1,33	JULY	1.00	0.712	0.475	3.44	2.50
CLOD BUSTER	51	JULY	1.00	0.0	0.404	0.04	0.15
PICKUP	10	JULY	0.10	0.125	0.100	0.34	0.20
TANDEM DISC	3,43	AUG	1.00	0.239	0.159	0.87	0.64
FERT.APPL I,RENTD	3,86	AUG	1.00	0.097	0.064	0.33	0.18
TANDEM DISC	3,43	AUG	1.00	0.239	0.159	0.87	0.64
PICKUP	10	AUG	0.10	0.125	0.100	0.34	0.20
GRAIN DRILL	3,45	SEPT	1.00	0.269	0.179	1.02	0.91
PICKUP	10	SEPT	0.10	0.125	0.100	0.34	0.20
PICKUP	10	OCT	0.10	0.125	0.100	0.34	0.20
PICKUP	10	NOV	0.10	0.125	0.100	0.34	0.20
TOTALS				2.180	1.941	8.25	6.04

* LAND CHARGE BASED ON RATES IN REGION, \$50/ACRE, LESS 50 PCT. OF
IRRIGATION FIXED COSTS. PROJECTED, 1976

BUDGET IDENTIFICATION NUMBER--- 811004301 470 0
ANNUAL CAPITAL MONTH 12

ALFALFA, IRRIGATED, TEXAS HIGH PLAINS IV REGION
ESTIMATED COSTS AND RETURNS PER ACRE
HIGH LEVEL MGMT., (CENTER PIVOT SYSTEM)

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST
1. GROSS RECEIPTS FROM PRODUCTION				\$
HAY	TON	40.00	8.50	<u>340.00</u>
TOTAL				\$ 340.00
2. VARIABLE COSTS				\$
PREHARVEST				
FERT(0-120-80)	ACRE	60.00	1.00	60.00
MACHINERY	ACRE	1.68	1.00	1.68
TRACTORS	ACRE	0.33	1.00	0.33
IRRIGATION MACHINERY	ACRE	58.08	1.00	58.08
LABOR(TRACTOR & MACHINERY)	HOUR	2.75	0.72	1.98
LABOR(IRRIGATION)	HOUR	2.75	4.95	13.61
INTEREST ON OP. CAP.	DOL.	0.10	52.07	<u>5.21</u>
SUBTOTAL, PRE-HARVEST				\$ 140.89
HARVEST COSTS				\$ -----
SUBTOTAL, HARVEST				\$ 0.0
TOTAL VARIABLE COST				\$ 140.89
3. INCOME ABOVE VARIABLE COSTS				\$ 199.11
4. FIXED COSTS				\$
MACHINERY	ACRE	1.01	1.00	1.01
TRACTORS	ACRE	0.18	1.00	0.18
IRRIGATION MACHINERY	ACRE	73.92	1.00	73.92
PRORATED ESTAB. COST	ACRE	217.77	0.14	31.14
LAND (NET RENT)	ACRE	48.04	1.00	<u>48.04</u>
TOTAL FIXED COSTS				\$ 154.29
5. TOTAL COSTS				\$ 295.19
6. NET RETURNS				\$ 44.81

* CROP SOLD STANDING IN FIELD.

* LAND CHARGE BASED ON LANDLORD SHARE (1/4) LESS 50 PCT. OF IRRIGATION
FIXED COSTS. ESTABLISHMENT COST PRORATED OVER 7 YEARS. PROJECTED, 1976