



TEXAS HIGH PLAINS III

FOREWORD

The enterprise budgets for Texas High Plains III 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 AGRICULTURAL EXTENSION SERVICE . THE TEXAS A&M UNIVERSITY SYSTEM
Daniel C. Pfannstiel, Director . College Station, Texas

TEXAS ENTERPRISE BUDGETS
TEXAS HIGH PLAINS III REGION
Projected for 1982

Educational programs conducted by the Texas Agricultural Extension Service serve people of all ages regardless of socio-economic level, race, color, sex, religion or national origin.

Cooperative Extension Work in Agriculture and Home Economics, The Texas A&M University System and the United States Department of Agriculture cooperating. Distributed in furtherance of the Acts of Congress of May 8, 1914, as amended, and June 30, 1914.
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ALFALFA ESTAB., IRRIGATED, TEXAS HIGH PLAINS III REGION
1982 PROJECTED COSTS AND RETURNS PER ACRE
FURROW IRRIGATION SYSTEM

CATEGORY	PROJECTED YIELD	UNIT	PROJECTED \$/UNIT	PROJECTED VALUE	YOUR ESTIMATE
1. GROSS RECEIPTS					
TOTAL PROJECTED RETURNS				\$ 0.0	\$ _____
2. VARIABLE COSTS					
PREHARVEST COSTS					
*ALFALFA SEED	22.00	LB.	1.70	37.40	_____
*NITROGEN	20.00	LB.	0.26	5.20	_____
*PHOSPHATE	100.00	LB.	0.26	26.00	_____
FERTILIZER APPLI	1.00	ACRE	2.00	2.00	_____
IRRIGATION WATER	17.00	ACIN			_____
FUEL & LUBE--TRACTOR		ACRE		8.15	_____
EQUIPMENT		ACRE		0.93	_____
IRRIGATION		ACRE		36.55	_____
REPAIRS-----TRACTOR		ACRE		1.52	_____
EQUIPMENT		ACRE		2.20	_____
IRRIGATION		ACRE		5.10	_____
LABOR-----MACHINERY	1.06	HOOR	5.00	5.30	_____
IRRIGATION	1.70	HOOR	5.00	8.50	_____
EQUIPMENT	0.42	HOOR	3.50	1.47	_____
OPERATING CAPITAL	48.91	DOL.	0.140	6.85	_____
SUBTOTAL, PREHARVEST		ACRE		\$ 147.16	\$ _____
HARVEST COSTS					
SUBTOTAL, HARVEST		ACRE		\$ 0.0	\$ _____
TOTAL VARIABLE COSTS		ACRE		\$ 147.16	\$ _____
3. INCOME ABOVE VARIABLE COSTS		ACRE		\$ -147.16	\$ _____
4. FIXED COSTS					
DEPREC., INTEREST, TAXES & INSUR.					
TRACTOR		ACRE		8.84	_____
EQUIPMENT		ACRE		6.16	_____
LAND-CASH RENT	1.00	ACRE	60.00	60.00	_____
IRR EQUIP (50%)	17.00	ACIN	1.00	17.00	_____
TOTAL FIXED COSTS		ACRE		\$ 92.00	\$ _____
5. TOTAL PROJECTED COSTS		ACRE		\$ 239.16	\$ _____
6. NET PROJECTED RETURNS		ACRE		\$ -239.16	\$ _____

LAND CHARGE BASED ON \$60/ACRE LESS 50 PCT. OF IRRIG. FIXED COSTS.

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 02/12/82.

B-1241 (C 3)

ALFALFA ESTAB., IRRIGATED, TEXAS HIGH PLAINS III REGION
1982 PROJECTED COSTS AND RETURNS PER ACRE
FURROW IRRIGATION SYSTEM

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
MLBD ROLLOVER	2,46	JUNE	1.00	0.571	0.432	6.47	2.85	0.0	7.55	16.88
PACKER	53	JUNE	1.00	0.0	0.206	0.03	0.0	0.0	0.10	0.13
TANDEM DISC	2,40	AUG	1.00	0.208	0.158	2.07	1.04	0.0	2.47	5.59
GRAIN DRILL	2,58	AUG	1.00	0.280	0.212	3.17	1.40	37.40	3.89	45.85
TOTALS				1.059	1.009	11.75	5.30	37.40	14.02	68.46

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	AUG	7.00	0.700	0.0	17.15	3.50	0.0	7.00	27.65
WATER APPLICATION	SEPT	5.00	0.500	0.0	12.25	2.50	0.0	5.00	19.75
WATER APPLICATION	NOV	5.00	0.500	0.0	12.25	2.50	0.0	5.00	19.75
TOTALS		17.00	1.700	0.0	41.65	8.50	0.0	17.00	67.15

ALFALFA, IRRIGATED, TEXAS HIGH PLAINS III REGION
1982 PROJECTED COSTS AND RETURNS PER ACRE
FURROW IRRIGATION SYSTEM

CATEGORY	PROJECTED YIELD	UNIT	PROJECTED \$/UNIT	PROJECTED VALUE	YOUR ESTIMATE
1. GROSS RECEIPTS					
ALFALFA HAY	5.10	TON	50.00	255.00	
TOTAL PROJECTED RETURNS				\$ 255.00	\$
2. VARIABLE COSTS					
PREHARVEST COSTS					
*PHOSPHATE	80.00	LB.	0.26	20.80	
FERTILIZER APPLI	1.00	ACRE	2.00	2.00	
IRRIGATION WATER	40.00	ACIN			
FUEL & LUBE--TRACTOR		ACRE		0.0	
EQUIPMENT		ACRE		1.54	
IRRIGATION		ACRE		86.00	
REPAIRS-----TRACTOR		ACRE		0.0	
EQUIPMENT		ACRE		0.20	
IRRIGATION		ACRE		12.00	
LABOR-----MACHINERY	0.0	HOOR	5.00	0.0	
IRRIGATION	4.00	HOOR	5.00	20.00	
EQUIPMENT	0.70	HOOR	3.50	2.45	
OPERATING CAPITAL	-19.15	DOL.	0.140	-2.68	
SUBTOTAL, PREHARVEST		ACRE		\$ 142.32	\$
HARVEST COSTS					
SUBTOTAL, HARVEST		ACRE		\$ 0.0	\$
TOTAL VARIABLE COSTS		ACRE		\$ 142.32	\$
BREAK-EVEN PRICE, VARIABLE COSTS		\$ 27.91/TON		ALFALFA HAY	
3. INCOME ABOVE VARIABLE COSTS		ACRE		\$ 112.68	\$
4. FIXED COSTS					
DEPREC., INTEREST, TAXES & INSUR.					
TRACTOR		ACRE		0.0	
EQUIPMENT		ACRE		1.64	
LAND-CASH RENT	1.00	ACRE	60.00	60.00	
IRR EQUIP (50%)	40.00	ACIN	1.00	40.00	
PRORATED ESTABL.	239.16	DOL.	0.14	34.16	
TOTAL FIXED COSTS		ACRE		\$ 135.80	\$
5. TOTAL PROJECTED COSTS		ACRE		\$ 278.12	\$
BREAK-EVEN PRICE, TOTAL COSTS		\$ 54.53/TON		ALFALFA HAY	
6. NET PROJECTED RETURNS		ACRE		\$ -23.12	\$

LAND CHARGE BASED ON \$60/ACRE LESS 50 PCT. OF IRRIG. FIXED COSTS.
ESTABLISHMENT COST PRORATED OVER 7 YEARS. CROP SOLD STANDING IN FIELD.

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ALFALFA, IRRIGATED, TEXAS HIGH PLAINS III REGION
1982 PROJECTED COSTS AND RETURNS PER ACRE
FURROW IRRIGATION SYSTEM

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
TOTALS				0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	9.80	2.00	0.0	4.00	15.80
WATER APPLICATION	APR	4.00	0.400	0.0	9.80	2.00	0.0	4.00	15.80
WATER APPLICATION	MAY	4.00	0.400	0.0	9.80	2.00	0.0	4.00	15.80
WATER APPLICATION	JUNE	8.00	0.800	0.0	19.60	4.00	0.0	8.00	31.60
WATER APPLICATION	JULY	8.00	0.800	0.0	19.60	4.00	0.0	8.00	31.60
WATER APPLICATION	AUG	8.00	0.800	0.0	19.60	4.00	0.0	8.00	31.60
WATER APPLICATION	SEPT	4.00	0.400	0.0	9.80	2.00	0.0	4.00	15.80
TOTALS		40.00	4.000	0.0	98.00	20.00	0.0	40.00	158.00

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 ALFALFA HAY
(DOLLARS)

	40.00	45.00	50.00	55.00	60.00
TON					
4.08	20.88	41.28	61.68	82.08	102.48
4.59	41.28	64.23	87.18	110.13	133.08
5.10	61.68	87.18	112.68	138.18	163.68
5.61	82.08	110.13	138.18	166.23	194.28
6.12	102.48	133.08	163.68	194.28	224.88

QUANTITY OF
ALFALFA HAY

CORN, IRRIGATED, TEXAS HIGH PLAINS III REGION
1982 PROJECTED COSTS AND RETURNS PER ACRE
FURROW IRRIGATION SYSTEM

CATEGORY	PROJECTED YIELD	UNIT	PROJECTED \$/UNIT	PROJECTED VALUE	YOUR ESTIMATE
1. GROSS RECEIPTS					
CORN	130.00	BU.	2.85	370.50	
TOTAL PROJECTED RETURNS				\$ 370.50	\$
2. VARIABLE COSTS					
PREHARVEST COSTS					
*SEED CORN/GRAIN	1.00	ACRE	12.00	12.00	
INSECTICIDE	1.00	ACRE	15.00	15.00	
*NITROGEN	160.00	LB.	0.26	41.60	
*PHOSPHATE	40.00	LB.	0.26	10.40	
FERTILIZER APPLI	1.00	ACRE	2.00	2.00	
*HERBICIDE	1.00	ACRE	5.50	5.50	
IRRIGATION WATER	27.00	ACIN			
FUEL & LUBE--TRACTOR		ACRE		21.97	
EQUIPMENT		ACRE		2.47	
IRRIGATION		ACRE		58.05	
REPAIRS-----TRACTOR		ACRE		3.94	
EQUIPMENT		ACRE		2.81	
IRRIGATION		ACRE		8.10	
LABOR-----MACHINERY	2.88	HOUR	5.00	14.42	
IRRIGATION	2.70	HOUR	5.00	13.50	
EQUIPMENT	1.12	HOUR	3.50	3.92	
OPERATING CAPITAL	90.71	DOL.	0.140	12.70	
SUBTOTAL, PREHARVEST		ACRE		\$ 228.38	\$
HARVEST COSTS					
CUSTOM HARVEST	130.00	BU.	0.30	39.00	
HAUL CORN	130.00	BU.	0.20	26.00	
CUSTOM DRYING	130.00	BU.	0.12	15.60	
SUBTOTAL, HARVEST		ACRE		\$ 80.60	\$
TOTAL VARIABLE COSTS		ACRE		\$ 308.98	\$
BREAK-EVEN PRICE, VARIABLE COSTS		\$ 2.38/BU.	CORN		
3. INCOME ABOVE VARIABLE COSTS		ACRE		\$ 61.52	\$
4. FIXED COSTS					
DEPREC., INTEREST, TAXES & INSUR.					
TRACTOR		ACRE		27.03	
EQUIPMENT		ACRE		11.65	
LAND---NET SHARE-RENT		ACRE		61.72	
IRRIG. EQUIP.	27.00	ACIN	2.00	54.00	
TOTAL FIXED COSTS		ACRE		\$ 154.40	\$
5. TOTAL PROJECTED COSTS		ACRE		\$ 463.39	\$
BREAK-EVEN PRICE, TOTAL COSTS		\$ 3.56/BU.	CORN		
6. NET PROJECTED RETURNS		ACRE		\$ -92.89	\$

LAND CHARGE BASED ON LANDLORD'S SHARE OF GROSS 25% LESS 25% OF DRYING AND 50% OF IRRIGATION FIXED COSTS. GOV'T PYMNT. NOT INCLUDED.

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1982 PROJECTED COSTS AND RETURNS PER ACRE
FURROW IRRIGATION SYSTEM

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 4R	2,57	DEC	1.00	0.277	0.210	2.64	1.38	0.0	3.52	7.55
TANDEM DISC	2,40	DEC	2.00	0.417	0.316	4.15	2.08	0.0	4.95	11.18
MLBD ROLLOVER	1,46	JAN	1.00	0.571	0.432	7.42	2.85	0.0	9.69	19.96
PACKER	53	JAN	1.00	0.0	0.206	0.03	0.0	0.0	0.10	0.13
TANDEM DISC	2,40	FEB	1.00	0.208	0.158	2.07	1.04	0.0	2.47	5.59
BOX FLOAT	3,60	MAR	2.00	0.864	0.655	6.31	4.32	0.0	8.19	18.83
LISTER 6R	1,54	APR	1.00	0.151	0.115	1.69	0.76	0.0	2.06	4.50
BED PLANTER6R	2,38	APR	1.00	0.202	0.153	2.10	1.01	12.00	2.75	17.86
HERB SPR/DISC	61	APR	1.00	0.0	0.158	0.01	0.0	5.50	0.17	5.68
ROLLING CULT	2,30	MAY	1.00	0.194	0.147	1.97	0.97	0.0	2.14	5.08
TOTALS				2.884	2.549	28.40	14.42	17.50	36.05	96.37

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	7.00	0.700	0.0	17.15	3.50	0.0	14.00	34.65
WATER APPLICATION	MAY	5.00	0.500	0.0	12.25	2.50	0.0	10.00	24.75
WATER APPLICATION	JUNE	5.00	0.500	0.0	12.25	2.50	0.0	10.00	24.75
WATER APPLICATION	JULY	5.00	0.500	0.0	12.25	2.50	0.0	10.00	24.75
WATER APPLICATION	AUG	5.00	0.500	0.0	12.25	2.50	0.0	10.00	24.75
TOTALS		27.00	2.700	0.0	66.15	13.50	0.0	54.00	133.65

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 CORN (DOLLARS)				
		2.28	2.56	2.85	3.13	3.42
BU.						
QUANTITY OF CORN	104.00	-84.90	-62.67	-40.44	-18.21	4.02
	117.00	-70.34	-45.33	-20.32	4.68	29.69
	130.00	-55.78	-27.99	-0.21	27.58	55.37
	143.00	-41.22	-10.66	19.91	50.48	81.04
	156.00	-26.66	6.68	40.03	73.37	106.72

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