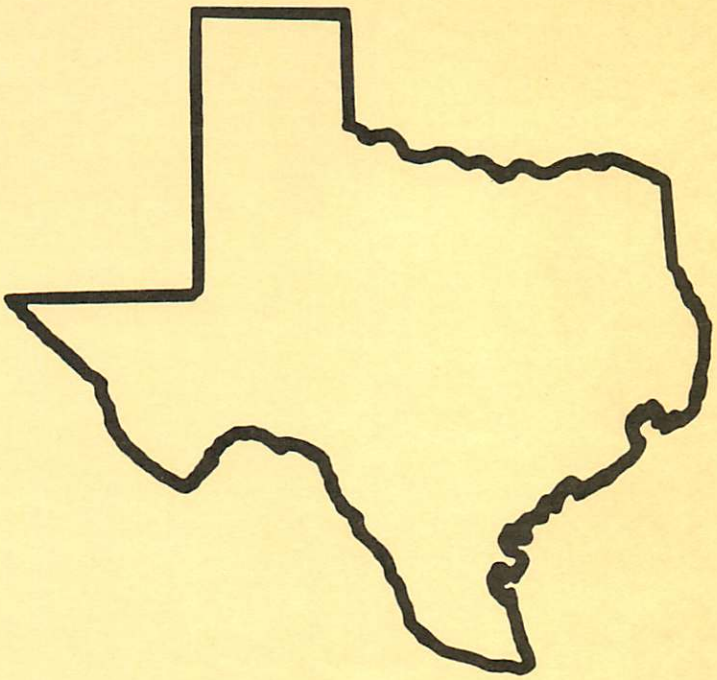


BUDGETS FOR TEXAS CROPS

FOREWORD

Enterprise budgets included in this catalogue were developed by the Extension management economists under a contract with the Texas Water Development Board. Thirteen regions were initially delineated under the contract; budgets for nine additional regions were developed independent of outside support.

Production Regions

Twenty-two production regions were defined by major soil and irrigation series. Major regions with irrigation were delineated by the Texas Water Development Board based on Soil Conservation Service classifications. The remaining regions were delineated on the basis of soil series and crop production differences. The regions have been identified as:

1. **HP I (North High Plains)**
2. **HP II (High Plains Hard Land)**
3. **HP III (High Plains Mixed Land)**
4. **HP IV (High Plains Sandy Land)**
5. **RP I (Eastern Rolling Plains)**
6. **RP II (Western Rolling Plains)**
7. **EIP (El Paso)**
8. **TP (Trans-Pecos)**
9. **EP I (Western Edwards Plateau)**
10. **EP II (Eastern Edwards Plateau)**
11. **W-M (Webb-Maverick)**
12. **WG (Winter Garden)**
13. **CT (Cross Timbers)**
14. **GP (Grand Prairie)**
15. **BP (Blackland Prairie)**
16. **EA (Edwards Aquifer)**
17. **ST (South Texas)**
18. **CB (Coastal Bend)**
19. **RGV (Rio Grande Valley)**
20. **ET (East Texas)**
21. **UC (Upper Coast)**
22. **MC (Middle Coast)**

Budget Development

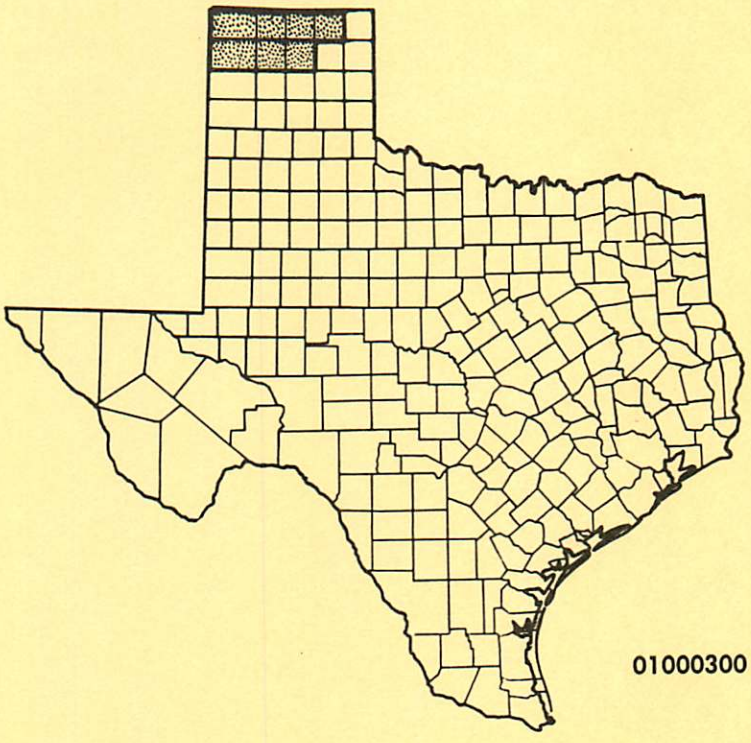
All major crops in each region are budgeted for typical and high level management and for dryland and irrigated where applicable. A major crop is defined as one produced on at least 1 percent of the crop acreage in a region. In addition, minor crops are also budgeted if the crop is of major importance in another region.

Typical management is based on yields and input levels about equal to the average commercial producer, and is usually somewhat above the region average. High level management reflects the average of the top 10 to 15 percent of the producers in a region.

Data for budget development were acquired through interviews with selected producers, agricultural specialists, financial institutions, agribusiness firms, county agricultural agents and others. Area Extension agronomists made significant contributions in specifying production and agronomic practices reflected in the budgets.

Budget Usage

These budgets will provide timely information and guidelines for use by county agents in counseling with producers on new enterprises and enterprise combinations. Agricultural financial institutions will find them useful in evaluating enterprises and determining the extent of credit needed by the producers. These data will also be useful to federal and state agricultural agencies for interpreting and evaluating farm programs and policies. These budgets will provide basic data for use by researchers, administrators and government officials in analyzing and evaluating alternative policy consideration. The budgets will be updated annually via a computerized budget generator to assure current accurate data.



TEXAS HIGH PLAINS I

FOREWORD

The data contained in this report are based on estimates and actual crop production records of operations within an area described as Texas High Plains I. This area includes the hardlands and sandy lands north of the Canadian River in the Texas Panhandle. Variations in inputs and returns exist among farms and managers. However, these budgets should serve as useful guides in planning and decision making for agriculturalists concerned with the area described above. In order to analyze farm enterprises in Texas High Plains, certain basic assumptions were necessary.

Farm size was assumed to be 1,150 acres for irrigation for both furrow and sprinkler distribution systems. Three thousand acres was assumed for dryland. The complement of equipment associated with the respective farm sizes and resource situations is shown on form 01000500.

Two different levels of management, typical and high level, were assumed. High level management was assumed to obtain higher yields with the same fixed resources such as land and irrigation water in each of the respective soil type situations. Only sprinkler irrigated budgets were prepared for the sandy lands since an insufficient acreage of sandy land is farmed under dryland conditions to warrant budgets for this situation.

The high level manager was assumed to make more efficient use of equipment and utilize a more highly skilled labor supply which resulted in lower machinery costs. Thus, machinery and tractor costs for the typical manager were developed by multiplying high level costs by a factor of 1.1 to differentiate between the two levels of management. Budgets for irrigated crops in both soil situations are based on the assumptions of adequate irrigation water availability. No attempt was made to impose a cropping pattern on these budgets for the particular farm size.

Grazing data are estimated in pounds of gain. Government payments were based on full allotments for each crop where applicable. No allowance was made for increased costs due to cultivation of set aside acres since it was assumed that benefits derived from clean tillage or planting crops on these acres would offset most of these costs.

Labor was assumed to include the manager's labor plus any additional labor necessary. Wage rates for various jobs ranged from $1.75 to $2.00, form 01000400.

Land charge was estimated on the basis of cash rent for irrigated land minus the fixed costs on the pump and irrigation well. The cash lease varied for different crops, form 01000400, based on irrigation usage.

Dryland rent was based on ⅓ of the gross income from the respective crops. The same percentage division was applied to government payments for dryland.

It was assumed that government payments would not be divided on irrigated land since the operator would pay all variable costs for producing the crops.

Assumed Prices Paid And Received By Farmers

Item	Unit	Price
Prices Paid		
Seed:		
Grain Sorghum	cwt.	$ 21.00
Wheat (cleaned and treated)	bu.	2.50
Corn	cwt.	30.00
Forage Sorghum (Ensilage)	cwt.	21.00
Custom Rates:		
Combining Wheat	ac.	3.50 2/
Combining Grain Sorghum (Dryland)	ac.	3.50
Combining Grain Sorghum (Irrigated)	cwt.	.10
Corn, Harvest, Including Haul	bu.	.15
Hauling:		
Grain Sorghum	cwt.	.10
Wheat	bu.	.05 3/
Chemical Spraying (Aerial)	ac.	1.25
Chemical Spraying (Ground)	ac.	.75
Fuel and Lubricants:		
L. P. Gas	gal.	.11
Diesel Fuel	gal.	.15
Motor Oil (Heavy Duty, Detergent)	gal.	1.05
Lubricant (Tube)	lb.	.39
Fertilizer (Bulk):		
Nitrogen (Anhydrous)	lb.	.035
Nitrogen (Granular)	lb.	.08
Phosphorus	lb.	.08
Labor (Except Irrigation)	hr.	2.00
Labor (Irrigation)	hr.	1.75
Chemicals:		
Pre-emergence Herbicide	5 gal.	110.00
Methyl Parathion	gal.	5.25
Malathion	gal.	11.00
Land Lease (Cash Rent)	ac.	35.00
Hail Insurance:		
Wheat	$100	14.00
Cotton	$100	13.00
Corn	$100	9.45
Grain Sorghum	$100	7.15
Interest:		
Capital	$	.08
Operating	$	.085

Assumed Prices Paid And Received By Farmers

Item	Unit	Price
Prices Received		
Wheat	bu.	1.30 4/
Grain Sorghum	cwt.	1.90 4/
Ensilage (Corn) Standing in Field	ton	5.50
Pasture Grazing	lb. gain	.18
Corn (Grain)	bu.	1.05

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

2/ $3.50 per acre plus $0.05 per bushel of yield over 20 bushels per acre, up to a maximum of $4.50 per acre.

3/ Hauling-combine to elevator $0.05/bu + $0.05/bu/mi. over 5 miles.

4/ Does not include government payment which a farmer might receive for participating in farm programs.

Estimated Machinery And Equipment Cost Per Hour Of Use

Machinery Item And Size	Item No.	New Cost	Estimated Typical Yrs. Of Use	Total Depr.1/	Estimated Total Hrs. Of Use	Depr. Per Hr.2/	Interest on Investment Per Hour 3/	Fuel, Oil Lub., Rep., Per Hour 4/
Tractor, 100 HP	1	$10,500	5	$6,015	5,000	$1.20	$ .60	$1.48
Tractor, 85 HP	2	8,000	8	4,896	6,400	.77	.56	1.28
Tractor, 45 HP	3	3,500	12	3,500	7,200	.49	.23	.65
Rolling Cultivator 6R	4	1,700	8	1,268	1,600	.79	.43	.91
Oneway, 15'	5	1,800	10	1,343	1,500	.90	.60	.63
4-Bottom Moldboard Plow	6	1,400	8	1,044	1,600	.65	.35	.49
Chisel, 13'	7	800	8	597	1,600	.37	.20	.43
Float	8	1,500	10	1,194	1,000	1.19	.72	.32
Border Disc	9	200	10	160	1,600	.10	.06	.08
Flax Planter, 6R	10	580	5	375	1,000	.38	.16	.39
Lister-Planter, 6R	11	1,800	8	1,343	1,000	1.34	.72	1.28
Tandem Disc, 13'	12	1,400	8	1,044	1,600	.65	.35	.49
Offset Disc	13	2,000	8	1,492	1,600	.93	.50	.69
Grain Drill, 16'	14	1,600	10	1,274	1,200	1.06	.64	.44
Shredder, 4R	15	1,400	8	1,044	1,000	1.04	.56	.77
Rod Weeder, 6R	16	325	5	200	1,200	.17	.08	.10
4-8" wells + Equip. 5/	17							
Harrow	18	300	12	250	1,600	.16	.11	.11
Clod Buster	19	385	12	350	2,000	.18	.10	.05
Herbicide Sprayer, 8R	20	500	10	400	2,000	.20	.12	.26
Tool Bar, 6R	21	200	12	175	2,000	.09	.05	.05

1/ New cost less value at time of trade, or less salvage value.
2/ Assumes straight line depreciation.
3/ (Investment + Salvage) - 2 (8%) divided by annual hours of use.
4/ Fuel, oil, lubrication, repair cost estimate taken from Bowers, Modern Concepts of Farm Machinery Management.
5/ See attached irrigation cost analysis.

TEXAS HIGH PLAINS I

Yield Per Acre For Typical And High Level Management

Crop	Unit	Typical	High Level
Furrow Irrigation			
Corn Silage	tons	20	27
Grain Sorghum	cwt.	65	75
Corn for Grain	bu.	110	140
Forage Sorghum for Graze	lbs. gain	450	540
Wheat for Grain	bu.	37	50
Wheat for Grain	lbs. gain	200	250
Sprinkler Irrigation			
Grain Sorghum	cwt.	57	65
Corn for Grain	bu.	125	140
Wheat for Grain	bu.	37	45
Wheat for Grain	lbs. gain	200	250
Dryland			
Wheat for Grain	bu.	15	25
Wheat for Grain	lbs. gain	90	120
Grain Sorghum	cwt.	15	-
Forage Sorghum for Graze	lbs. gain	50	-

TEXAS HIGH PLAINS I

Estimated Costs Of Irrigation Water

Well Depth feet	GPM	Distribution System	Power 1/ Source	Per Acre Inch: Operating Cost 2/ dollars	Fixed Cost 3/ dollars	Labor Requirement hrs.	Labor Cost dollars	Total Cost dollars
150	75	h.m sprinkler	electricity	.77	1.63	.211	.37	2.77
		Sidemove-tow	electricity	1.07	1.91	.047	.08	3.08
200	100	h.m sprinkler	electricity	.89	1.63	.211	.37	2.89
		skid tow line	electricity	.97	1.83	.063	.11	2.91
	150	h.m sprinkler	electricity	.83	1.24	.211	.37	2.44
		skid tow line	electricity	.91	1.44	.063	.11	2.46
	250	side roll	nat. gas	.75	1.43	.063	.11	2.29
		furrow	nat. gas	.42	.98	.123	.22	1.62
	400	side roll	nat. gas	.75	1.27	.063	.11	2.13
		s. propelled	nat. gas	.42	.98	.123	.22	1.62
		furrow	nat. gas	.46	.82	.123	.22	1.50
	600	side roll	nat. gas	.75	1.18	.063	.11	2.04
		s. propelled	nat. gas	1.13	1.29	.022	.04	2.46
		furrow	nat. gas	.44	.73	.123	.22	1.39
	800	side roll	nat. gas	.74	1.11	.063	.11	1.96
		s. propelled	nat. gas	1.11	1.22	.022	.04	2.37
		furrow	nat. gas	.44	.66	.123	.22	1.32
250	300	side roll	nat. gas	.78	1.45	.063	.11	2.34
		furrow	nat. gas	.50	1.00	.123	.22	1.72
	400	side roll	nat. gas	.77	1.36	.063	.11	2.24
		s. propelled	nat. gas	1.14	1.48	.022	.04	2.66
		furrow	nat. gas	.46	.92	.123	.22	1.60
	600	side roll	nat. gas	.78	1.25	.063	.11	2.14
		s. propelled	nat. gas	1.15	1.37	.022	.04	2.56
		furrow	nat. gas	.46	.81	.123	.22	1.49
	800	side roll	nat. gas	.77	1.19	.063	.11	2.07
		s. propelled	nat. gas	1.12	1.31	.022	.04	2.47
		furrow	nat. gas	.46	.75	.123	.22	1.43
300	400	side roll	nat. gas	.79	1.47	.063	.11	2.37
		s. propelled	nat. gas	1.16	1.57	.022	.04	2.77
		furrow	nat. gas	.48	1.01	.123	.22	1.71
	600	side roll	nat. gas	.80	1.33	.063	.11	2.24
		s. propelled	nat. gas	1.15	1.45	.022	.04	2.64
		furrow	nat. gas	.48	.88	.123	.22	1.58
	800	side roll	nat. gas	.78	1.26	.063	.11	2.15
		s. propelled	nat. gas	1.14	1.37	.022	.04	2.55
		furrow	nat. gas	.48	.81	.123	.22	1.51
	1000	side roll	nat. gas	.77	1.24	.063	.11	2.12
		s. propelled	nat. gas	1.13	1.36	.022	.04	2.53
		furrow	nat. gas	.47	.80	.123	.22	1.49

TEXAS HIGH PLAINS I

Estimated Costs Of Irrigation Water

Well Depth	GPM	Distribution System	Power 1/ Source	Per Acre Inch: Operating Cost 2/ dollars	Fixed Cost 3/ dollars	Labor Requirement hrs.	Labor Cost dollars	Total Cost dollars
350	400	side roll	nat. gas	.83	1.56	.063	.11	2.50
		s. propelled	nat. gas	1.20	1.67	.022	.04	2.91
		furrow	nat. gas	.52	1.11	.123	.22	1.85
	600	side roll	nat. gas	.81	1.40	.063	.11	2.32
		s. propelled	nat. gas	1.18	1.52	.022	.04	2.74
		furrow	nat. gas	.52	.96	.123	.22	1.70
	800	side roll	nat. gas	.80	1.32	.063	.11	2.23
		s. propelled	nat. gas	1.16	1.44	.022	.04	2.64
		furrow	nat. gas	.50	.88	.123	.22	1.60
	1000	side roll	nat. gas	.80	1.30	.063	.11	2.21
		s. propelled	nat. gas	1.16	1.42	.022	.04	2.62
		furrow	nat. gas	.50	.86	.123	.22	1.58
500	800	side roll	nat. gas	.86	1.47	.063	.11	2.44
		s. propelled	nat. gas	1.21	1.59	.022	.04	2.84
		furrow	nat. gas	.56	1.02	.123	.22	1.80
600	1000	side roll	nat. gas	.89	1.45	.063	.11	2.45
		s. propelled	nat. gas	1.24	1.56	.022	.04	2.84
		furrow	nat. gas	.60	1.00	.123	.22	1.8[illegible]

1/. LP gas as a power source can be fit into this table by increasing the operating cost for self-propelled sprinklers by 1.65; by 1.80 for all other sprinklers, and by 1.95 for furrow irrigation.

2/. Includes fuel, lubrication, maintenance and repair on well, pumping plant, and distribution system.

3/. Includes depreciation and interest on investment for well, pumping plant, and distribution system.

* Prepared by Marvin O. Sartin, Area Farm Management Specialist, Texas Agricultural Extension Service, Lubbock, Texas; 5/71.

CORN FOR GRAIN, FURROW IRRIGATED, HIGH PLAINS I 01060112

Estimated Costs And Returns Per Acre Of Corn For Grain, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grain	bu.	$ 1.05	140	$147.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.30	25	$ 7.50
Fertilizer (180-60-0)	ac.	11.10	1	11.10
Herbicide (custom)	ac.	6.75	1	6.75
Machinery	ac.	1.55	1	1.55
Tractor (1)	hr.	1.48	1.02	1.51
Tractor (2)	hr.	1.28	1.32	1.69
Labor, Tractor & Machinery	hr.	2.00	2.92	5.84
Labor, Irrigation	hr.	1.75	2.70	3.50
Irrigation Machinery	ac.	10.12	1	10.12
Pickup, Miscellaneous	ac.	5.00	1	5.00
Crop Insurance	$100	9.45	.80	7.56
Interest on Op. Cap.	$	.085	31.06	2.64
Subtotal, Pre-Harvest				$ 64.76
Harvest:				
Custom, includes hauling	bu.	.15	140	$ 21.00
Total Variable Costs				$ 85.76
3. Income Above Variable Costs				$ 61.24
4. Fixed Costs:				
Machinery	ac.	3.35	1	$ 3.35
Tractor (1)	hr.	1.80	1.02	1.84
Tractor (2)	hr.	1.33	1.32	1.76
Irrigation	ac.	16.50	1	16.50
Land (Net rent)	ac.	21.80	1	21.80
Total Fixed Costs				$ 45.25
5. Total Costs				$106.49
6. Net Returns				$ 40.51
7. Government Payments ($.32/bu. x 140 bu. x 50% allot.)				$ 22.40
8. Net Return Including Government Payment 2/				$ 62.91

1/ $35 per acre less 80% of irrigation fixed costs.
2/ Based on planted acres. No allowance made for set-aside acreage of 20%.

DEVELOPED BY EXTENSION ECONOMISTS-MANAGEMENT, TAES, TAMU. New, 1972

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AECO 6

CORN FOR GRAIN, FURROW IRRIGATED, HIGH PLAINS I

Estimated Costs, And Requirements Per Acre Of Corn For Grain, High Level Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred & Disc	1,12,15	Nov	1	.20	.16	$ .21	$ .43
Tandem Disc	2,12	Nov	1	.25	.20	.10	.20
Chisel, Harrow	1,7,18	Dec	1	.31	.25	.09	.10
Offset Disc	1,13	Feb	1	.31	.25	.17	.36
Tandem Disc	2,12	Feb	1	.25	.20	.10	.20
Float	2,8	Mar	2	.63	.50	.16	.96
List & Fertilize	1,11	Mar	1	.25	.20	.26	.41
Rod Weeder	2,16	Apr	1	.16	.13	.01	.03
Plant & Inc. Herbicide	1,11 20,10	Apr	1	.20	.16	.33	.49
Cultivate	2,4	May	1	.16	.13	.11	.15
Water Furrow	2,21	May	1	.20	.16	.01	.02
Total				2.92	2.34	$ 1.55	$ 3.35
Irrigation:							
Preplant (2)		Mar	1	.74		$ 2.76	$ 4.50
Postplant (2)		Jun-Aug	4	1.96		7.36	12.00
Total				2.70		$10.12	$16.50

(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.

(2) See attached irrigation cost sheet. Assumed at 800 GPM, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

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AECO 6

CORN FOR GRAIN, FURROW IRRIGATED, HIGH PLAINS I 01060122

Estimated Costs And Returns Per Acre Of Corn For Grain, Typical Management

	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts, from production:				
	Grain	bu.	$ 1.05	110	$115.50
2.	Variable Costs:				
	Pre-Harvest:				
	Seed	lb.	.30	25	$ 7.50
	Fertilizer (150-60-0)	ac.	10.05	1	10.05
	Herbicide (custom)	ac.	6.75	1	6.75
	Machinery	ac.	1.71	1	1.71
	Tractor (1)	hr.	1.63	1.02	1.66
	Tractor (2)	hr.	1.41	1.32	1.86
	Labor, Tractor & Machinery	hr.	2.00	2.92	5.84
	Labor, Irrigation	hr.	1.75	2.21	3.87
	Irrigation Machinery	ac.	9.11	1	9.11
	Pickup, Miscellaneous	ac.	5.00	1	5.00
	Crop Insurance	$100	9.45	.6	5.67
	Interest on Op. Cap.	$	.085	29.51	2.51
	Subtotal, Pre-Harvest				$ 61.53
	Harvest:				
	Custom, includes hauling	bu.	.15	110	$ 16.50
	Total Variable Costs				$ 78.03
3.	Income Above Variable Costs				$ 37.47
4.	Fixed Costs:				
	Machinery	ac.	3.69	1	$ 3.69
	Tractor (1)	hr.	1.98	1.02	2.02
	Tractor (2)	hr.	1.46	1.32	1.93
	Irrigation	ac.	14.85	1	14.85
	Land (Net rent) 1/	ac.	23.12	1	23.12
	Total Fixed Costs				$ 45.61
5.	Total Costs				$123.64
6.	Net Returns				$ (8.14)
7.	Government Payments ($.32/bu. x 110 bu. x 50% allot.)				$ 17.60
8.	Net Return Including Government Payment				$ 9.46

1/ $35/acre less 80% of irrigation fixed costs.

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AECO 6

Estimated Costs, And Requirements Per Acre Of Corn For Grain, Typical Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Shred & Disc	1,12,15	Nov	1	.20	.16	$ .23	$ .47
Tandem Disc	2,12	Nov	1	.25	.20	.11	.22
Chisel, Harrow	1,7,18	Dec	1	.31	.25	.10	.11
Offset Disc	1,13	Feb	1	.31	.25	.19	.40
Tandem Disc	2,12	Feb	1	.25	.20	.11	.22
Float	2,8	Mar	2	.63	.50	.18	1.06
List & Fertilize	1,11	Mar	1	.25	.20	.29	.45
Rod Weeder	2,16	Apr	1	.16	.13	.01	.03
Plant & Inc. Herbicide	1,11 20,10	Apr	1	.20	.16	.36	.54
Cultivate	2,4	May	1	.16	.13	.12	.17
Water Furrow	2,21	May	1	.20	.16	.01	.02
Total				2.92	2.34	$ 1.71	$ 3.69
Irrigation:							
Preplant (2)		Mar	1	.74		$ 3.04	$ 4.95
Postplant (2)		May-Aug	3	1.47		6.07	9.90
Total				2.21		$ 9.11	$14.85

(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.

(2) See attached irrigation cost sheet. Assumed at 800 GPM, 250 feet well, furrow irrigation, natural gas pumping unit; 6 acre inches preplant and 4 acre inches at each postplant.

NOTE: Machinery costs per hour estimated at 1.1 times the cost for high level manager due to decreased efficiency and increased repair costs.

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AECO 6

Estimated Costs And Returns Per Acre Of Corn For Grain, High Level Management

Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1. Gross receipts, from production:				
Grain	bu.	$ 1.05	140	$147.00
2. Variable Costs:				
Pre-Harvest:				
Seed	lb.	.30	25	$ 7.50
Fertilizer (180-60-0)	ac.	19.20	1	19.20
Herbicide (custom)	ac.	6.75	1	6.75
Insecticide (custom)	ac.	7.00	1	7.00
Machinery	ac.	.85	1	.85
Tractor (1)	hr.	1.48	.82	1.21
Tractor (2)	hr.	1.28	.13	.17
Tractor (3)	hr.	.65	.10	.07
Irrigation Machinery	ac.	24.80	1	24.80
Labor, Tractor & Machinery	hr.	2.00	1.11	2.20
Labor, Irrigation	hr.	1.75	.44	.77
Pickup & Miscellaneous	ac.	5.00	1	5.00
Interest on Op. Cap.	$	.085	25.36	2.16
Crop Insurance	$100	9.45	.75	7.09
Subtotal, Pre-Harvest				$ 84.77
Harvest:				
Custom, includes hauling	bu.	.15	140	$ 21.00
Total Variable Costs				$105.77
3. Income Above Variable Costs				$ 41.23
4. Fixed Costs:				
Machinery	ac.	1.43	1	$ 1.43
Tractor (1)	hr.	1.80	.82	1.42
Tractor (2)	hr.	1.33	.13	.17
Tractor (3)	hr.	.72	.10	.07
Irrigation	ac.	31.80	1	31.80
Land (Net rent) 1/	ac.	6.36	1	6.36
Total Fixed Costs				$ 41.25
5. Total Costs				$147.02
6. Net Returns				$ (.02)
7. Government Payments ($.32/bu. x 140 x 50% allot.)				$ 22.40
8. Net Return Including Government Payment 2/				$ 22.38

1/ $20 per acre less 80% of irrigation fixed costs excluding motor & sprinkler.
2/ Based on planted acres. No allowance made for set-aside acreage of 20%.

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AECO 6

Estimated Costs, And Requirements Per Acre Of Corn For Grain, High Level Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Disc	1,13	Mar	2	.62	.50	$ .34	$ .72
Sweep	2,4	Apr	1	.16	.13	.11	.15
Plant & Spray	1,11 20,10	May	1	.20	.16	.33	.49
Fertilize	3	May	1	.13	.10	.07	.07
Total				1.11	.89	$ .85	$ 1.43
Irrigation:							
Preplant (2)		Mar-Apr	2	.13		$ 7.44	$ 9.36
Postplant (2)		Jun-Aug	7	.31		17.36	21.84
Total				.44		$24.80	$31.20

(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.

(2) See attached irrigation cost sheet, assumed at 800 GPM, 500 feet well, center pivot sprinkler, natural gas pumping unit; 6AI preplant plus 2AI at each postplant.

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AECO 6

CORN FOR GRAIN, SPRINKLER IRRIGATED, HIGH PLAINS I 01060822

Estimated Costs And Returns Per Acre Of Corn For Grain, Typical Management

	Item	Unit	Price or Cost/Unit	Quantity	Value or Cost
1.	Gross receipts, from production:				
	Grain	bu.	$ 10.05	125	$131.25
2.	Variable Costs:				
	Pre-Harvest:				
	Seed	lb.	.30	25	$ 7.50
	Fertilizer (180-60-0)	ac.	19.60	1	19.60
	Herbicide (custom)	ac.	6.75	1	6.75
	Insecticide (custom)	ac.	7.00	1	7.00
	Machinery	ac.	.92	1	.92
	Tractor (1)	hr.	1.63	.82	1.34
	Tractor (2)	hr.	1.41	.16	.23
	Tractor (3)	hr.	.72	.13	.09
	Irrigation Machinery	ac.	24.80	1	24.80
	Labor, Tractor & Machinery	hr.	2.00	1.11	2.20
	Labor Irrigation	hr.	1.75	.44	.77
	Pickup & Miscellaneous	ac.	5.00	1	5.00
	Interest on Op. Cap.	$	.085	25.70	2.18
	Crop Insurance	$100	9.45	.60	5.67
	Subtotal, Pre-Harvest				$ 84.05
	Harvest:				
	Custom, includes hauling	bu.	.15	125	$ 18.75
	Total Variable Costs				$102.80
3.	Income Above Variable Costs				$ 28.45
4.	Fixed Costs:				
	Machinery	ac.	1.58	1	$ 1.58
	Tractor (1)	hr.	1.98	.82	1.62
	Tractor (2)	hr.	1.46	.13	.19
	Tractor (3)	hr.	.79	.10	.08
	Irrigation	ac.	31.80	1	31.80
	Land (Net rent) 1/	ac.	6.36	1	6.36
	Total Fixed Costs				$ 41.63
5.	Total Costs				$144.43
6.	Net Returns				$(13.18)
7.	Government Payments ($.32/bu. x 125 x 50% allot.)				$ 20.00
8.	Net Returns Including Government Payment 2/				$ 6.82

1/ $20 per acre less 80% of irrigation fixed costs excluding motor & sprinkler.
2/ Based on planted acres. No allowance made for set-aside acreage of 20%.

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AECO 6

CORN FOR GRAIN, SPRINKLER IRRIGATED, HIGH PLAINS I 01060821

Estimated Costs, And Requirements Per Acre Of Corn For Grain, Typical Management

Operation	Item No.	Date	Times Over	Labor Hours (1)	Tractor or Mach. Hrs.	Fuel, Oil, Lub., Rep. Per Acre	Fixed costs Per Acre
Disc	1,13	Mar	2	.62	.50	$ .37	$ .79
Sweep	2,4	Apr	1	.16	.13	.12	.17
Plant & Spray	1,11 20,10	May	1	.20	.16	.35	.54
Fertilize	3	May	1	.13	.10	.08	.08
Total				1.11	.89	$ .92	$ 1.58
Irrigation:							
Preplant (2)		Mar-Apr	2	.13		$ 7.44	$ 9.36
Postplant (2)		Jun-Aug	7	.31		17.36	21.84
Total				.44		$24.80	$31.20

(1) Labor hours calculated at 1.25 times tractor hours except where noted by *.

(2) See attached irrigation cost sheet, assumed at 800 GPM, 500 feet well, center pivot sprinkler, natural gas pumping unit; 6AI preplant plus 2AI at each postplant.

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