

COASTAL BERMUDA HAY, IRRIGATED
TEXAS WINTER GARDEN REGION
1982 PROJECTED COSTS AND RETURNS PER ACRE

CATEGORY	PROJECTED YIELD	UNIT	PROJECTED		YOUR ESTIMATE
			\$/UNIT	VALUE	
1. GROSS RECEIPTS					
CSTL BERMUDA HAY	10.00	TON	70.00	700.00	
TOTAL PROJECTED RETURNS				\$ 700.00	\$ _____
2. VARIABLE COSTS					
PREHARVEST COSTS					
*NITROGEN (DRY)	300.00	LB.	0.26	78.00	_____
*PHOSPHATE	60.00	LB.	0.32	19.20	_____
IRRIGATION WATER	12.00	ACIN			_____
FUEL & LUBE--TRACTOR		ACRE		1.85	_____
EQUIPMENT		ACRE		0.69	_____
IRRIGATION		ACRE		34.56	_____
REPAIRS-----TRACTOR		ACRE		0.27	_____
EQUIPMENT		ACRE		0.70	_____
LABOR-----MACHINERY	0.81	HOUR	5.00	4.06	_____
IRRIGATION	1.20	HOUR	3.80	4.56	_____
EQUIPMENT	0.28	HOUR	3.80	1.06	_____
OPERATING CAPITAL	-46.75	DOL.	0.155	-7.25	_____
SUBTOTAL, PREHARVEST		ACRE		\$ 146.83	\$ _____
HARVEST COSTS					
MOW, RAKE, BALE	333.30	BALE	0.65	216.64	_____
CUSTOM HAUL	333.30	BALE	0.20	66.66	_____
SUBTOTAL, HARVEST		ACRE		\$ 283.30	\$ _____
TOTAL VARIABLE COSTS		ACRE		\$ 430.14	\$ _____
BREAK-EVEN PRICE, VARIABLE COSTS			\$ 43.01/TON		CSTL BERMUDA HAY
3. INCOME ABOVE VARIABLE COSTS		ACRE		\$ 269.86	\$ _____
4. FIXED COSTS					
DEPREC., INTEREST, TAXES & INSUR.					
TRACTOR		ACRE		4.98	_____
EQUIPMENT		ACRE		8.44	_____
IRRIGATION		ACRE		24.54	_____
LAND-CASH RENT	1.00	ACRE	25.00	25.00	_____
PRORATED ESTABL	128.18	DOL.	0.10	12.82	_____
MISC ADMIN O/H	0.50	ACRE	10.00	5.00	_____
TOTAL FIXED COSTS		ACRE		\$ 80.78	\$ _____
5. TOTAL PROJECTED COSTS		ACRE		\$ 510.92	\$ _____
BREAK-EVEN PRICE, TOTAL COSTS			\$ 51.09/TON		CSTL BERMUDA HAY
6. NET PROJECTED RETURNS		ACRE		\$ 189.08	\$ _____

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B-1241 (C12)

COASTAL BERMUDA HAY, 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
DRY FERT SPRDER	5,60	FEB	1.00	0.203	0.154	0.68	1.02	34.80	3.18	39.68
DRY FERT SPRDER	5,60	MAY	1.00	0.203	0.154	0.68	1.02	15.60	3.18	20.48
DRY FERT SPRDER	5,60	JUNE	1.00	0.203	0.154	0.68	1.02	15.60	3.18	20.48
DRY FERT SPRDER	5,60	JULY	1.00	0.203	0.154	0.68	1.02	15.60	3.18	20.48
TOTALS				0.813	0.616	2.74	4.06	81.60	12.73	101.13

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	APR	4.00	0.400	0.0	14.56	1.52	0.0	8.18	24.26
WATER APPLICATION	JUNE	4.00	0.400	0.0	14.56	1.52	0.0	8.18	24.26
WATER APPLICATION	AUG	4.00	0.400	0.0	14.56	1.52	0.0	8.18	24.26
TOTALS		12.00	1.200	0.0	43.68	4.56	0.0	24.54	72.78

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 CSTL BERMUDA HAY
 (DOLLARS)

TON	56.00	63.00	70.00	77.00	84.00
8.00	74.52	130.52	186.52	242.52	298.52
9.00	102.19	165.19	228.19	291.19	354.19
10.00	129.86	199.86	269.86	339.86	409.86
11.00	157.53	234.53	311.53	388.53	465.53
12.00	185.20	269.20	353.20	437.20	521.20

FORAGE SORGHUM FOR GRAZE, IRRIGATED
TEXAS WINTER GARDEN REGION
1982 PROJECTED COSTS AND RETURNS PER ACRE

CATEGORY	PROJECTED YIELD	UNIT	PROJECTED		YOUR ESTIMATE
			\$/UNIT	VALUE	
1. GROSS RECEIPTS					
SORGHUM PASTURE	600.00	DAYS	0.50	300.00	_____
TOTAL PROJECTED RETURNS				\$ 300.00	\$ _____
2. VARIABLE COSTS					
PREHARVEST COSTS					
*FORAGE SORG SEED	40.00	LB.	0.30	12.00	_____
*NITROGEN (ANHY)	180.00	LB.	0.14	25.20	_____
*PHOSPHATE	60.00	LB.	0.32	19.20	_____
IRRIGATION WATER	16.00	ACIN			_____
FUEL & LUBE--TRACTOR		ACRE		9.77	_____
EQUIPMENT		ACRE		1.56	_____
IRRIGATION		ACRE		46.08	_____
REPAIRS-----TRACTOR		ACRE		1.91	_____
EQUIPMENT		ACRE		1.26	_____
IRRIGATION		ACRE		12.16	_____
LABOR-----MACHINERY	1.72	HOUR	5.00	8.58	_____
IRRIGATION	1.60	HOUR	3.80	6.08	_____
EQUIPMENT	0.63	HOUR	3.80	2.39	_____
OPERATING CAPITAL	-27.64	DOL.	0.155	-4.28	_____
SUBTOTAL, PREHARVEST		ACRE		\$ 141.89	\$ _____
HARVEST COSTS					
SUBTOTAL, HARVEST		ACRE		\$ 0.0	\$ _____
TOTAL VARIABLE COSTS		ACRE		\$ 141.89	\$ _____
BREAK-EVEN PRICE, VARIABLE COSTS			\$ 0.24/DAYS	SORGHUM PASTURE	
3. INCOME ABOVE VARIABLE COSTS		ACRE		\$ 158.11	\$ _____
4. FIXED COSTS					
DEPREC., INTEREST, TAXES & INSUR.					
TRACTOR		ACRE		15.75	_____
EQUIPMENT		ACRE		12.71	_____
IRRIGATION		ACRE		32.72	_____
LAND-CASH RENT	1.00	ACRE	25.00	25.00	_____
MISC ADMIN O/H	0.50	ACRE	10.00	5.00	_____
TOTAL FIXED COSTS		ACRE		\$ 91.18	\$ _____
5. TOTAL PROJECTED COSTS		ACRE		\$ 233.07	\$ _____
BREAK-EVEN PRICE, TOTAL COSTS			\$ 0.39/DAYS	SORGHUM PASTURE	
6. NET PROJECTED RETURNS		ACRE		\$ 66.93	\$ _____

INCOME FROM CROP REFLECTED IN LIVESTOCK BUDGETS.

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B-1241 (C12)

FORAGE SORGHUM FOR GRAZE, 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		APPL. INPUT COSTS	MACH FIXED COSTS	TOTAL OPER. COST
						OPER COSTS	LABOR COSTS			
SHREDDER	3,30	NOV	1.00	0.263	0.199	2.02	1.31	0.0	3.51	6.84
CHISEL PLOW	3,33	NOV	1.00	0.202	0.153	1.59	1.01	0.0	2.52	5.12
OFFSET DISC	3,34	NOV	1.20	0.273	0.207	2.05	1.37	0.0	5.69	9.11
LAND PLANE	3,50	NOV	0.20	0.050	0.038	0.36	0.25	0.0	1.04	1.66
ANHYDROUS SPRDER	3,61	FEB	1.00	0.151	0.115	1.03	0.76	8.40	1.39	11.57
GRAIN DRILL	3,46	FEB	1.00	0.270	0.205	2.10	1.35	12.00	6.19	21.64
DRY FERT SPRDER	3,60	FEB	1.00	0.203	0.154	1.54	1.02	19.20	3.80	25.56
ANHYDROUS SPRDER	3,61	MAY	1.00	0.151	0.115	1.03	0.76	8.40	1.39	11.57
ANHYDROUS SPRDER	3,61	JULY	1.00	0.151	0.115	1.03	0.76	8.40	1.39	11.57
TOTALS				1.715	1.299	12.75	8.58	56.40	26.92	104.64

IRRIGATION APPLICATION	APPL. MONTH	ACRE INCHES	LABOR HOURS	SYSTEM HOURS	IRRIG		APPL. INPUT COSTS	IRRIG FIXED COSTS	TOTAL IRRIG COSTS
					OPER. COSTS	LABOR COSTS			
WATER APPLICATION	MAR	4.00	0.400	0.0	14.56	1.52	0.0	8.18	24.26
WATER APPLICATION	JUNE	4.00	0.400	0.0	14.56	1.52	0.0	8.18	24.26
WATER APPLICATION	JULY	4.00	0.400	0.0	14.56	1.52	0.0	8.18	24.26
WATER APPLICATION	AUG	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	0.0	32.72	97.04

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 SORGHUM PASTURE
(DOLLARS)

DAYS	PRICE OF SORGHUM PASTURE (DOLLARS)				
	0.40	0.45	0.50	0.55	0.60
480.00	50.11	74.11	98.11	122.11	146.11
540.00	74.11	101.11	128.11	155.11	182.11
600.00	98.11	128.11	158.11	188.11	218.11
660.00	122.11	155.11	188.11	221.11	254.11
720.00	146.11	182.11	218.11	254.11	290.11

QUANTITY OF
SORGHUM PASTURE

OATS FOR GRAZING, IRRIGATED
TEXAS WINTER GARDEN REGION
1982 PROJECTED COSTS AND RETURNS PER ACRE

CATEGORY	PROJECTED YIELD	UNIT	PROJECTED		YOUR ESTIMATE
			\$/UNIT	VALUE	
1. GROSS RECEIPTS					
OATS GRAZING AUD	400.00	DAYS	0.50	200.00	_____
TOTAL PROJECTED RETURNS				\$ 200.00	\$ _____
2. VARIABLE COSTS					
PREHARVEST COSTS					
*OATS SEED	64.00	LB.	0.15	9.60	_____
*NITROGEN (ANHY)	120.00	LB.	0.14	16.80	_____
*PHOSPHATE	60.00	LB.	0.32	19.20	_____
IRRIGATION WATER	12.00	ACIN			_____
FUEL & LUBE--TRACTOR		ACRE		4.00	_____
EQUIPMENT		ACRE		1.56	_____
IRRIGATION		ACRE		34.56	_____
REPAIRS-----TRACTOR		ACRE		0.66	_____
EQUIPMENT		ACRE		1.03	_____
IRRIGATION		ACRE		9.12	_____
LABOR-----MACHINERY	1.30	HOOR	5.00	6.51	_____
IRRIGATION	1.20	HOOR	3.80	4.56	_____
EQUIPMENT	0.63	HOOR	3.80	2.39	_____
OPERATING CAPITAL	-8.57	DOL.	0.155	-1.33	_____
SUBTOTAL, PREHARVEST		ACRE		\$ 108.65	\$ _____
HARVEST COSTS					
SUBTOTAL, HARVEST		ACRE		\$ 0.0	\$ _____
TOTAL VARIABLE COSTS		ACRE		\$ 108.65	\$ _____
BREAK-EVEN PRICE, VARIABLE COSTS			\$ 0.27/DAYS	OATS GRAZING AUD	
3. INCOME ABOVE VARIABLE COSTS		ACRE		\$ 91.35	\$ _____
4. FIXED COSTS					
DEPREC., INTEREST, TAXES & INSUR.					
TRACTOR		ACRE		8.90	_____
EQUIPMENT		ACRE		11.62	_____
IRRIGATION		ACRE		24.54	_____
LAND-CASH RENT	1.00	ACRE	25.00	25.00	_____
MISC ADMIN O/H	0.50	ACRE	10.00	5.00	_____
TOTAL FIXED COSTS		ACRE		\$ 75.06	\$ _____
5. TOTAL PROJECTED COSTS		ACRE		\$ 183.71	\$ _____
BREAK-EVEN PRICE, TOTAL COSTS			\$ 0.46/DAYS	OATS GRAZING AUD	
6. NET PROJECTED RETURNS		ACRE		\$ 16.29	\$ _____

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OATS FOR GRAZING, 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
CHISEL PLOW	5,33	JULY	1.00	0.202	0.153	0.74	1.01	0.0	1.91	3.66
OFFSET DISC	5,34	AUG	1.20	0.273	0.207	0.90	1.37	0.0	4.86	7.13
LAND PLANE	5,50	AUG	0.20	0.050	0.038	0.15	0.25	0.0	0.89	1.29
ANHYDROUS SPRDER	3,61	SEPT	1.00	0.151	0.115	1.03	0.76	8.40	1.39	11.57
DRY FERT SPRDER	5,60	SEPT	1.00	0.203	0.154	0.68	1.02	19.20	3.18	24.08
GRAIN DRILL	5,46	OCT	1.00	0.270	0.205	0.96	1.35	9.60	5.37	17.28
ANHYDROUS SPRDER	3,61	JAN	1.00	0.151	0.115	1.03	0.76	8.40	1.39	11.57
TOTALS				1.301	0.986	5.50	6.51	45.60	18.98	76.59

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	OCT	4.00	0.400	0.0	14.56	1.52	0.0	8.18	24.26
WATER APPLICATION	DEC	4.00	0.400	0.0	14.56	1.52	0.0	8.18	24.26
WATER APPLICATION	FEB	4.00	0.400	0.0	14.56	1.52	0.0	8.18	24.26
TOTALS		12.00	1.200	0.0	43.68	4.56	0.0	24.54	72.78

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

INCOME ABOVE VARIABLE COSTS LESS SHARE-RENT

QUANTITY OF OATS GRAZING AUD	PRICE OF OATS GRAZING AUD (DOLLARS)				
	0.40	0.45	0.50	0.55	0.60
320.00	19.35	35.35	51.35	67.35	83.35
360.00	35.35	53.35	71.35	89.35	107.35
400.00	51.35	71.35	91.35	111.35	131.35
440.00	67.35	89.35	111.35	133.35	155.35
480.00	83.35	107.35	131.35	155.35	179.35

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B-1241 (C12)

FORAGE SORGHUM HAY, DRYLAND
TEXAS WINTER GARDEN REGION
1982 PROJECTED COSTS AND RETURNS PER ACRE

CATEGORY	PROJECTED YIELD	UNIT	PROJECTED		YOUR ESTIMATE
			\$/UNIT	VALUE	
1. GROSS RECEIPTS					
SORGHUM HAY	4.50	TON	70.00	315.00	_____
TOTAL PROJECTED RETURNS				\$ 315.00	\$ _____
2. VARIABLE COSTS					
PREHARVEST COSTS					
*FORAGE SORG SEED	30.00	LB.	0.30	9.00	_____
*NITROGEN (ANHY)	80.00	LB.	0.14	11.20	_____
*PHOSPHATE	40.00	LB.	0.32	12.80	_____
FUEL & LUBE--TRACTOR		ACRE		8.36	_____
EQUIPMENT		ACRE		0.69	_____
REPAIRS-----TRACTOR		ACRE		1.63	_____
EQUIPMENT		ACRE		1.10	_____
LABOR-----MACHINERY	1.47	HOUR	5.00	7.34	_____
EQUIPMENT	0.28	HOUR	3.80	1.06	_____
OPERATING CAPITAL	-20.96	DOL.	0.155	-3.25	_____
SUBTOTAL, PREHARVEST		ACRE		\$ 49.94	\$ _____
HARVEST COSTS					
MOW, RAKE, BALE	149.00	BALE	0.65	96.85	_____
CUSTOM HAUL	149.00	BALE	0.20	29.80	_____
SUBTOTAL, HARVEST		ACRE		\$ 126.65	\$ _____
TOTAL VARIABLE COSTS		ACRE		\$ 176.59	\$ _____
BREAK-EVEN PRICE, VARIABLE COSTS			\$ 39.24/TON	SORGHUM HAY	
3. INCOME ABOVE VARIABLE COSTS		ACRE		\$ 138.41	\$ _____
4. FIXED COSTS					
DEPREC., INTEREST, TAXES & INSUR.					
TRACTOR		ACRE		13.48	_____
EQUIPMENT		ACRE		10.75	_____
LAND-CASH RENT	1.00	ACRE	10.00	10.00	_____
MISC ADMIN O/H	0.30	ACRE	10.00	3.00	_____
TOTAL FIXED COSTS		ACRE		\$ 37.23	\$ _____
5. TOTAL PROJECTED COSTS		ACRE		\$ 213.82	\$ _____
BREAK-EVEN PRICE, TOTAL COSTS			\$ 47.52/TON	SORGHUM HAY	
6. NET PROJECTED RETURNS		ACRE		\$ 101.18	\$ _____

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 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	OCT	1.00	0.263	0.199	2.02	1.31	0.0	3.51	6.84
CHISEL PLOW	3,33	NOV	1.00	0.202	0.153	1.59	1.01	0.0	2.52	5.12
OFFSET DISC	3,34	NOV	1.00	0.228	0.173	1.71	1.14	0.0	4.74	7.59
ANHYDROUS SPRDER	3,61	FEB	1.00	0.151	0.115	1.03	0.76	5.60	1.39	8.77
DRY FERT SPRDER	3,60	FEB	1.00	0.203	0.154	1.54	1.02	12.80	3.80	19.16
GRAIN DRILL	3,46	FEB	1.00	0.270	0.205	2.10	1.35	9.00	6.19	18.64
ANHYDROUS SPRDER	3,61	MAY	1.00	0.151	0.115	1.03	0.76	5.60	1.39	8.77
TOTALS				1.468	1.112	11.01	7.34	33.00	23.54	74.89

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

INCOME ABOVE VARIABLE COSTS LESS SHARE-RENT

QUANTITY OF SORGHUM HAY	PRICE OF SORGHUM HAY (DOLLARS)				
	56.00	63.00	70.00	77.00	84.00
3.60	50.34	75.54	100.74	125.94	151.14
4.05	62.87	91.22	119.57	147.92	176.27
4.50	75.41	106.91	138.41	169.91	201.41
4.95	87.94	122.59	157.24	191.89	226.54
5.40	100.48	138.28	176.08	213.88	251.68

FORAGE SORGHUM HAY, 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					
SORGHUM HAY	11.25	TON	70.00	787.50	_____
TOTAL PROJECTED RETURNS				\$ 787.50	\$ _____
2. VARIABLE COSTS					
PREHARVEST COSTS					
*FORAGE SORG SEED	40.00	LB.	0.30	12.00	_____
*NITROGEN (ANHY)	240.00	LB.	0.14	33.60	_____
*PHOSPHATE	60.00	LB.	0.32	19.20	_____
IRRIGATION WATER	16.00	ACIN			_____
FUEL & LUBE---TRACTOR		ACRE		10.63	_____
EQUIPMENT		ACRE		1.56	_____
IRRIGATION		ACRE		46.08	_____
REPAIRS-----TRACTOR		ACRE		2.07	_____
EQUIPMENT		ACRE		1.26	_____
IRRIGATION		ACRE		12.16	_____
LABOR-----MACHINERY	1.87	HOUR	5.00	9.33	_____
IRRIGATION	1.60	HOUR	3.80	6.08	_____
EQUIPMENT	0.63	HOUR	3.80	2.39	_____
OPERATING CAPITAL	-51.23	DOL.	0.155	-7.94	_____
SUBTOTAL, PREHARVEST		ACRE		\$ 148.42	\$ _____
HARVEST COSTS					
MOW, BAKE, BALE	375.00	BALE	0.65	243.75	_____
CUSTOM HAUL	375.00	BALE	0.20	75.00	_____
SUBTOTAL, HARVEST		ACRE		\$ 318.75	\$ _____
TOTAL VARIABLE COSTS		ACRE		\$ 467.17	\$ _____
BREAK-EVEN PRICE, VARIABLE COSTS			\$ 41.53/TON	SORGHUM HAY	
3. INCOME ABOVE VARIABLE COSTS		ACRE		\$ 320.33	\$ _____
4. FIXED COSTS					
DEPREC., INTEREST, TAXES & INSUR.					
TRACTOR		ACRE		17.13	_____
EQUIPMENT		ACRE		12.71	_____
IRRIGATION		ACRE		32.72	_____
LAND-CASH RENT	1.00	ACRE	35.00	35.00	_____
MISC ADMIN O/H	0.50	ACRE	10.00	5.00	_____
TOTAL FIXED COSTS		ACRE		\$ 102.57	\$ _____
5. TOTAL PROJECTED COSTS		ACRE		\$ 569.74	\$ _____
BREAK-EVEN PRICE, TOTAL COSTS			\$ 50.64/TON	SORGHUM HAY	
6. NET PROJECTED RETURNS		ACRE		\$ 217.76	\$ _____

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.