

AE&RD INFO No. 38

FIELD CROP  
BUDGETS  
FOR 1987

AGRICULTURAL ECONOMICS AND RESOURCE DEVELOPMENT

AGRICULTURAL EXTENSION SERVICE  
UNIVERSITY OF TENNESSEE

DECEMBER 1986

**BURLEY TOBACCO**  
**ESTIMATED RETURNS AND EXPENSES PER ACRE**

ITEM	DESCRIPTION	UNIT	QUANTITY	PRICE (DOLLARS)	AMOUNT	YOUR FARM
<b>REVENUE</b>						
TOBACCO		LB.	2400	1.55	\$3,720	_____
<b>EXPENSES , VARIABLE (PLANT BED)</b>						
SEED (1)	HYBRID 1/12 OZ.	PK	2	5.00	10	_____
FERTILIZER	4-16-4	CWT.	0.5	10.00	5	_____
GAS COVER	103' X 10 1/2', 3 MIL.		1	13.35	13	_____
BED COVER	100' X 9', POLYESTER		1	22.90	23	_____
INSECTICIDE	DISYSTON	9 OZ.	1	1.90	2	_____
HERBICIDE	ENIDE 90 W.P.	LB.	0.25	6.55	2	_____
FUNGICIDE (2)	RIDOMIL	QT.	0.03	33.50	1	_____
FUMIGANT	METHYL BROMIDE 1 1/2LB.		5	1.95	10	_____
APPLICATOR	PRORATED 3 YEARS	1	3	1.00	3	_____
MACHINERY		HR.			25	_____
<b>TOTAL</b>					<b>\$93</b>	_____
<b>EXPENSES, VARIABLE (FIELD AND OTHER) (3)</b>						
COVER CROP	WHEAT, RYE, BARLEY	BU.	2	5.50	11	_____
FERTILIZER	5-10-15	CWT.	15	9.50	143	_____
	NITROGEN	LB.	90	0.20	18	_____
LIME		TON	0.4	12.00	5	_____
INSECT CONTROL (4)	FURADAN 15G	LB.	24	1.63	39	_____
	ORTHENE 75 W.P.	LB.	2	7.00	14	_____
DISEASE CONTROL	RIDOMIL	QT.	2	33.50	67	_____
HERBICIDE	PROWL 4 E.C.	PT.	2.5	6.00	15	_____
SUCKER CONTROL	ROYAL MH-30	GAL.	2.2	6.20	14	_____
MARKET FEES	4.5% + \$1/CWT				191	_____
HAULING	TO MARKET	CWT.	24	1.00	24	_____
PROGRAM COSTS (5)	NO NET COST, GRADING	CWT.	24	3.30	79	_____
MACHINERY	FUEL	AC.	1	41.25	41	_____
MACHINERY	REPAIRS	AC.	1	44.27	44	_____
<b>TOTAL VARIABLE EXPENSES</b>					<b>\$798</b>	_____
<b>RETURN ABOVE VARIABLE EXPENSES</b>					<b>\$2,922</b>	_____
<b>FIXED EXPENSES</b>						
MACHINERY		AC.	1	89.15	89	_____
TOBACCO STICKS	PRORATED OVER 8 YRS.		1600	0.15	30	_____
BARN (6)					218	_____
<b>TOTAL FIXED EXPENSES</b>					<b>\$337</b>	_____
<b>TOTAL VARIABLE AND FIXED EXPENSES</b>					<b>\$1,135</b>	_____
<b>NET RETURN TO QUOTA, LAND, LABOR, CAPITAL, AND MANAGEMENT</b>					<b>\$2,585</b>	_____
<b>INTEREST</b>						
OPERATING CAPITAL	6 MONTHS	AC.	798.23	0.11	44	_____
FIXED CAPITAL	EQUIP. @ BARN	AC.			291	_____
<b>TOTAL</b>					<b>\$335</b>	_____
<b>NET RETURN TO QUOTA, LAND, LABOR, AND MANAGEMENT</b>					<b>\$2,250</b>	_____
<b>LABOR</b>						
		HR.	316.58	4.50	1425	_____
<b>NET RETURN TO QUOTA, LAND AND MANAGEMENT</b>					<b>\$825</b>	_____

COTTON  
ESTIMATED RETURNS AND EXPENSES PER ACRE

ITEM	DESCRIPTION	UNIT	QUANTITY	PRICE (DOLLARS)	AMOUNT (DOLLARS)	YOUR FARM
<b>REVENUE</b>						
COTTON	LINT	LB.	600	0.52	312	_____
	SEED(1)	TON	0.375	110.00	41	_____
				<b>TOTAL</b>	<b>\$353</b>	_____
<b>VARIABLE EXPENSES</b>						
SEED	ACID DELINTED	LB.	15	0.57	9	_____
FUNGICIDE(2)	TEMIK + TERRACLOR	AC.	1	14.00	14	_____
INSECTICIDE	BIDRIN	OZ.	1.6	0.47	1	_____
FERTILIZER	N	LB.	60	0.20	12	_____
	P205	LB.	60	0.18	11	_____
	K20	LB.	60	0.09	5	_____
BORON		LB.	0.5	1.39	1	_____
LIME		TON	0.5	12.00	6	_____
HERBICIDE						
PRE-EMERGE(3)	TREFLAN E.C.	PT.	1.5	3.31	5	_____
	COTORAN (BAND)80%WP	LB.	0.8	8.95	7	_____
POST-EMERGE(4)	COTORAN + MSMA	GAL.	0.5	15.40	8	_____
INSECTICIDE(5)	MID SEASON	TIMES	1	1.82	2	_____
DEFOLIANT	CUSTOM-AIRPLANE	ACRE	1	6.76	7	_____
GINNING COST			1.2	50.00	60	_____
MACHINERY	FUEL	AC.	1	16.00	16	_____
MACHINERY	REPAIRS	AC.	1	41.49	41	_____
				<b>TOTAL VARIABLE EXPENSES</b>	<b>\$204</b>	_____
				<b>RETURN ABOVE VARIABLE EXPENSES</b>	<b>\$149</b>	_____
<b>FIXED EXPENSES</b>						
MACHINERY		AC.	1	82.65	83	_____
				<b>TOTAL FIXED EXPENSES</b>	<b>\$83</b>	_____
				<b>TOTAL VARIABLE AND FIXED EXPENSES</b>	<b>\$287</b>	_____
				<b>NET RETURN TO LAND, LABOR, CAPITAL, AND MANAGEMENT</b>	<b>\$67</b>	_____
<b>INTEREST</b>						
OPERATING CAPITAL	6 MONTHS	AC.	204.09	0.11	11	_____
FIXED CAPITAL	MACHINERY & EQUIP.	AC.			38	_____
				<b>TOTAL</b>	<b>\$49</b>	_____
				<b>NET RETURN TO LAND, LABOR AND MANAGEMENT</b>	<b>\$17</b>	_____
<b>LABOR</b>						
		HR.	5.74	4.50	26	_____
				<b>NET RETURN TO LAND AND MANAGEMENT</b>	<b>(\$9)</b>	_____

---DOES NOT INCLUDE GOVERNMENT PROGRAM PAYMENTS OR COSTS---

CORN - (NO - TILL)  
ESTIMATED RETURNS AND EXPENSES PER ACRE

ITEM	DESCRIPTION	UNIT	QUANTITY	PRICE (DOLLARS)	AMOUNT (DOLLARS)	YOUR FARM
<b>REVENUE</b>						
CORN(1)	GRAIN	BU.	100	1.85	185	_____
<b>VARIABLE EXPENSES</b>						
SEED KERNELS(2)	14-18 THOUS. PLANTS	THOU.	20	0.80	16	_____
FERTILIZER	N	LB.	150	0.20	30	_____
	P205	LB.	60	0.18	11	_____
	K20	LB.	60	0.09	5	_____
LIME		TON	0.5	12.00	6	_____
WEED CONTROL(3)					0	_____
GRAMOXONE SUPER	1.5#/GAL.	PT.	2	2.66	5	_____
ATRAZINE 4L	4#/GAL.	QT.	1.75	2.10	4	_____
LASSO	4#/GAL.	QT.	2.5	5.21	13	_____
SURFACTANT	NON-IONIC	AC.	1	0.84	1	_____
INSECT CONTROL(4)					0	_____
FURADAN 15G	GRANULES	LB.	7	1.63	11	_____
MACHINERY	FUEL	AC.	1	5.28	5	_____
MACHINERY	REPAIRS	AC.	1	15.03	15	_____
TOTAL VARIABLE EXPENSES					\$123	_____
RETURN ABOVE VARIABLE EXPENSES					\$62	_____
<b>FIXED EXPENSES</b>						
MACHINERY		AC.	1	34.22	34	_____
TOTAL FIXED EXPENSES					\$34	_____
TOTAL VARIABLE AND FIXED EXPENSES					\$157	_____
NET RETURN TO LAND, LABOR, CAPITAL, AND MANAGEMENT					\$28	_____
<b>INTEREST</b>						
OPERATING CAPITAL	6 MONTHS	AC.	122.78	0.11	7	_____
FIXED CAPITAL	MACHINERY & EQUIP.	AC.			15	_____
TOTAL					\$22	_____
NET RETURN TO LAND, LABOR AND MANAGEMENT					\$6	_____
<b>LABOR</b>						
		HR.	2.00	4.50	9	_____
NET RETURN TO LAND AND MANAGEMENT					(\$3)	_____

---DOES NOT INCLUDE GOVERNMENT PROGRAM PAYMENTS OR COSTS---

CORN  
ESTIMATED RETURNS AND EXPENSES PER ACRE

ITEM	DESCRIPTION	UNIT	QUANTITY	PRICE (DOLLARS)	AMOUNT (DOLLARS)	YOUR FARM
<b>REVENUE</b>						
CORN(1)	GRAIN	BU.	80	1.85	148	----
<b>VARIABLE EXPENSES</b>						
SEED(2)	12-14 THOUS. PLANTS	THOU.	15	0.80	12	----
FERTILIZER	N	LB.	90	0.20	18	----
	P205	LB.	40	0.18	7	----
	K20	LB.	40	0.09	4	----
LIME	AG LIMESTONE	TON	0.4	12.00	5	----
<b>WEED CONTROL(3)</b>						
ASTRAZINE 4L	4#/GAL.	QT.	1.25	2.10	3	----
LASSO	4#/GAL.	QT.	1.75	5.21	9	----
MACHINERY	FUEL	AC.	1	8.50	9	----
MACHINERY	REPAIRS	AC.	1	18.71	19	----
<b>TOTAL VARIABLE EXPENSES</b>					<b>\$85</b>	----
<b>RETURN ABOVE VARIABLE EXPENSES</b>					<b>\$63</b>	----
<b>FIXED EXPENSES</b>						
MACHINERY		AC.	1	41.22	41	----
<b>TOTAL FIXED EXPENSES</b>					<b>\$41</b>	----
<b>TOTAL VARIABLE AND FIXED EXPENSES</b>					<b>\$126</b>	----
<b>NET RETURN TO LAND, LABOR, CAPITAL, AND MANAGEMENT</b>					<b>\$22</b>	----
<b>INTEREST</b>						
OPERATING CAPITAL	6 MONTHS	AC.	84.55	0.11	5	----
FIXED CAPITAL	MACHINERY & EQUIP.	AC.			19	----
<b>TOTAL</b>					<b>\$24</b>	----
<b>NET RETURN TO LAND, LABOR AND MANAGEMENT</b>					<b>(\$2)</b>	----
<b>LABOR</b>						
		HR.	2.97	4.50	13	----
<b>NET RETURN TO LAND AND MANAGEMENT</b>					<b>(\$15)</b>	----

---DOES NOT INCLUDE GOVERNMENT PROGRAM PAYMENTS OR COST---

TO COVER	BREAKEVEN	
	YIELD	PRICE
Variable Costs (Excluding interest, labor)	46 Bu.	\$1.06
Total Costs (Excluding land & mgt.)	88 Bu.	2.04
Total costs with land @ \$40/acre (Excluding mgt.)	110 Bu.	2.54
Total costs with land @ \$107 payments (\$800/acre @ 12%, 20 years, excluding mgt.)	146 Bu.	3.37

**CORN**  
**ESTIMATED RETURNS AND EXPENSES PER ACRE**

ITEM	DESCRIPTION	UNIT	QUANTITY	PRICE (DOLLARS)	AMOUNT (DOLLARS)	YOUR FARM
<b>REVENUE</b>						
CORN(1)	GRAIN	BU.	100	1.85	185	_____
<b>VARIABLE EXPENSES</b>						
SEED KERNELS(2)	14-16 THOUS. PLANTS	THOU.	18	0.80	14	_____
FERTILIZER	N	LB.	120	0.20	24	_____
	P205	LB.	60	0.18	11	_____
	K20	LB.	60	0.09	5	_____
LIME	AG LIMESTONE	TON	0.5	12.00	6	_____
WEED CONTROL						
ASTRAZINE 4L	4#/GAL.	QT.	1.25	2.10	3	_____
LASSO	4#/GAL.	QT.	1.75	5.21	9	_____
MACHINERY	FUEL	AC.	1	8.50	9	_____
MACHINERY	REPAIRS	AC.	1	18.75	19	_____
						_____
					<b>TOTAL VARIABLE EXPENSES</b>	<b>\$100</b>
					<b>RETURN ABOVE VARIABLE EXPENSES</b>	<b>\$85</b>
<b>FIXED EXPENSES</b>						
MACHINERY		AC.	1	40.27	40	_____
						_____
					<b>TOTAL FIXED EXPENSES</b>	<b>\$40</b>
					<b>TOTAL VARIABLE AND FIXED EXPENSES</b>	<b>\$140</b>
					<b>NET RETURN TO LAND, LABOR, CAPITAL, AND MANAGEMENT</b>	<b>\$45</b>
<b>INTEREST</b>						
OPERATING CAPITAL	6 MONTHS	AC.	99.59	0.11	5	_____
FIXED CAPITAL	MACHINERY & EQUIP.	AC.			19	_____
						_____
					<b>TOTAL</b>	<b>\$24</b>
					<b>NET RETURN TO LAND, LABOR AND MANAGEMENT</b>	<b>\$21</b>
<b>LABOR</b>						
		HR.	2.98	4.50	13	_____
						_____
					<b>NET RETURN TO LAND AND MANAGEMENT</b>	<b>\$8</b>

--- DOES NOT INCLUDE GOVERNMENT PROGRAM PAYMENTS OR COSTS---

TO COVER	BREAKEVEN	
	YIELD	PRICE
Variable Costs (Excluding interest, labor)	54 Bu.	\$1.00
Total Costs (Excluding land & mgt.)	96 Bu.	1.77
Total costs with land @ \$40/acre (Excluding mgt.)	117 Bu.	2.17
Total costs with land @ \$107 payments (\$800/acre @ 12%, 20 years, excluding mgt.)	154 Bu.	2.84







GRAIN SORGHUM  
ESTIMATED RETURNS AND EXPENSES PER ACRE

ITEM	DESCRIPTION	UNIT	QUANTITY	PRICE (DOLLARS)	AMOUNT (DOLLARS)	YOUR FARM
<b>REVENUE</b>						
GRAIN SORGHUM	GRAIN	BU.	80	1.60	128	_____
<b>EXPENSES</b>						
SEED(1)	TREATED W/ CONCEPT	LB.	8	0.90	7	_____
FERTILIZER	N	LB.	90	0.20	18	_____
	P205	LB.	40	0.18	7	_____
	K20	LB.	40	0.09	4	_____
LIME		TON	0.40	12.00	5	_____
WEED CONTROL						_____
PRE-EMERGE	BICEP(2)	QT.	2.40	5.05	12	_____
INSECTICIDE					7	_____
MACHINERY	FUEL	AC.	1	9.67	10	_____
MACHINERY	REPAIRS	AC.	1	19.08	19	_____
TOTAL VARIABLE EXPENSES					<b>\$89</b>	_____
RETURN ABOVE VARIABLE EXPENSES					<b>\$39</b>	_____
<b>FIXED EXPENSES</b>						
MACHINERY		AC.	1	39.93	40	_____
TOTAL FIXED EXPENSES					<b>\$40</b>	_____
TOTAL VARIABLE AND FIXED EXPENSES					<b>\$129</b>	_____
NET RETURN TO LAND, LABOR, CAPITAL, AND MANAGEMENT					<b>(\$1)</b>	_____
<b>INTEREST</b>						
OPERATING CAPITAL 6 MONTHS		AC.	89	0.11	5	_____
FIXED CAPITAL	MACHINERY & EQUIP.	AC.			19	_____
TOTAL					<b>\$24</b>	_____
NET RETURN TO LAND, LABOR AND MANAGEMENT					<b>(\$24)</b>	_____
<b>LABOR</b>						
		HR.	3.43	4.50	15	_____
NET RETURN TO LAND AND MANAGEMENT					<b>(\$40)</b>	_____

---DOES NOT INCLUDE GOVERNMENT PROGRAM PAYMENTS OR COSTS---

**WHEAT**  
**ESTIMATED RETURNS AND EXPENSES PER ACRE**

ITEM	DESCRIPTION		QUANTITY	PRICE (DOLLARS)	AMOUNT (DOLLARS)	YOUR FARM
<b>REVENUE</b>						
WHEAT(1)		BU.	40	2.25	90	_____
<b>VARIABLE EXPENSES (2)</b>						
SEED	TREATED/FUNGICIDE	BU.	1.50	7.00	11	_____
FERTILIZER	N	LB.	60	0.20	12	_____
	P205	LB.	40	0.18	7	_____
	K20	LB.	20	0.09	2	_____
LIME		TON	0.40	12.00	5	_____
MACHINERY	FUEL	AC.	1	4.73	5	_____
MACHINERY	REPAIRS	AC.	1	11.24	11	_____
<b>TOTAL VARIABLE EXPENSES</b>					<b>\$52</b>	_____
<b>RETURN ABOVE VARIABLE EXPENSES</b>					<b>\$38</b>	_____
<b>FIXED EXPENSES</b>						
MACHINERY		AC.	1	25.13	25	_____
<b>TOTAL FIXED EXPENSES</b>					<b>\$25</b>	_____
<b>TOTAL VARIABLE AND FIXED EXPENSES</b>					<b>\$77</b>	_____
<b>NET RETURN TO LAND, LABOR, CAPITAL, AND MANAGEMENT</b>					<b>\$13</b>	_____
<b>INTEREST</b>						
OPERATING CAPITAL	6 MONTHS	AC.	52	0.11	3	_____
FIXED CAPITAL	MACHINERY & EQUIP.	AC.			11	_____
<b>TOTAL</b>					<b>\$14</b>	_____
<b>NET RETURN TO LAND, LABOR AND MANAGEMENT</b>					<b>(\$1)</b>	_____
<b>LABOR</b>						
		HR.	1.84	4.50	8	_____
<b>NET RETURN TO LAND AND MANAGEMENT</b>					<b>(\$10)</b>	_____

---DOES NOT INCLUDE GOVERNMENT PROGRAM PAYMENTS OR COSTS---

**WHEAT - SOYBEANS (NO-TILL)**  
**ESTIMATED RETURNS AND EXPENSES PER ACRE**

ITEM	DESCRIPTION	UNIT	QUANTITY	PRICE (DOLLARS)	AMOUNT (DOLLARS)	YOUR FARM
<b>REVENUE</b>						
WHEAT	GRAIN	BU.	40	2.25	90	_____
SOYBEANS	BEANS	BU.	26	5.00	130	_____
				<b>TOTAL</b>	<b>\$220</b>	_____
<b>VARIABLE EXPENSES</b>						
SEED, WHEAT	TREATED/FUNGICIDE	BU.	1.50	7.00	11	_____
SEED	SOYBEANS	LB.	40	0.15	6	_____
INOCULATION	VITAVAX M	AC.	1	1.29	1	_____
FERTILIZER	N	LB.	60	0.20	12	_____
	P205	LB.	60	0.18	11	_____
	K20	LB.	90	0.09	8	_____
LIME	3 TONS EACH 4 YRS.	TON	0.75	12.00	9	_____
WEED CONTROL(1)						_____
PRE-PLANT	GRAMOXONE SUPER	PT.	2	2.66	5	_____
	LOROX +	LB.	1.50	6.11	9	_____
	PROWL +	QT.	1	6.00	6	_____
	SURFACTANT(2)	AC.			1	_____
MACHINERY	FUEL	AC.	1	11.09	11	_____
MACHINERY	REPAIRS	AC.	1	24.70	25	_____
				<b>TOTAL VARIABLE EXPENSES</b>	<b>\$115</b>	_____
				<b>RETURN ABOVE VARIABLE EXPENSES</b>	<b>\$105</b>	_____
<b>FIXED EXPENSES</b>						
MACHINERY		AC.	1	57.93	58	_____
				<b>TOTAL FIXED EXPENSES</b>	<b>\$58</b>	_____
				<b>TOTAL VARIABLE AND FIXED EXPENSES</b>	<b>\$173</b>	_____
				<b>NET RETURN TO LAND, LABOR, CAPITAL, AND MANAGEMENT</b>	<b>\$47</b>	_____
<b>INTEREST</b>						
OPERATING CAPITAL	6 MONTHS	AC.	115	0.11	6	_____
FIXED CAPITAL	MACHINERY & EQUIP.	AC.			23	_____
				<b>TOTAL</b>	<b>\$29</b>	_____
				<b>NET RETURN TO LAND, LABOR AND MANAGEMENT</b>	<b>\$18</b>	_____
<b>LABOR</b>						
		HR.	3.84	4.50	17	_____
				<b>NET RETURN TO LAND AND MANAGEMENT</b>	<b>\$1</b>	_____

PERMANENT PASTURE (LADINO-FESCUE)  
ESTIMATED EXPENSES PER ACRE

ITEM	DESCRIPTION	UNIT	QUANTITY	PRICE (DOLLARS)	AMOUNT (DOLLARS)	YOUR FARM
<b>EXPENSES</b>						
<b>ESTABLISHMENT COST(1)</b>						
SEED	LADINO CLOVER	LB.	2.00	3.35	7	_____
	FESCUE (FUNGUS-FREE)	LB.	12.00	0.90	11	_____
INOCULATION	CLOVER TYPE	PKG.	0.10	1.05	0	_____
FERTILIZER	N	LB.	30.00	0.20	6	_____
	P205	LB.	60.00	0.18	11	_____
	K20	LB.	60.00	0.09	5	_____
LIME		TON	2.00	12.00	24	_____
MACHINERY	TOTAL COST	AC.	1.00	20.67	21	_____
<b>TOTAL ESTABLISHMENT EXPENSES</b>					<b>\$84</b>	_____
<b>PRORATED OVER 10 YEARS</b>					<b>\$8</b>	_____
<b>ANNUAL VARIABLE COST</b>						
FERTILIZER	N	LB.	15.00	0.20	3	_____
	P205	LB.	30.00	0.18	5	_____
	K20	LB.	30.00	0.09	3	_____
LIME		TON	0.20	12.00	2	_____
MACHINERY	FUEL	AC.	1.00	3.09	3	_____
MACHINERY	REPAIRS	AC.	1.00	3.00	3	_____
<b>TOTAL VARIABLE EXPENSES</b>					<b>\$20</b>	_____
<b>FIXED EXPENSES</b>						
<b>ESTABLISHMENT COST PRORATED OVER 10 YEARS</b>					<b>8</b>	_____
OVERSEEDING(2)		AC.	1.00	2.55	3	_____
MACHINERY		AC.	1.00	6.25	6	_____
<b>TOTAL FIXED EXPENSES</b>					<b>\$17</b>	_____
<b>TOTAL VARIABLE AND FIXED EXPENSES</b>					<b>\$37</b>	_____