

## Estimating 2002 Costs of Production

### Corn, Flood Irrigated, Loamy Soils, 2002

AG-665-11-01

**Tony E. Windham, Extension Economist - Management**  
**Jennifer Lafferty, Agricultural Economics Associate**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CROP SEED					
Corn-conventional	ths	1.13	30.0000	33.90	_____
CUSTOM WORK					
Cstm ap grd fert dry	acre	4.00	1.0000	4.00	_____
Cstm laser survey	acre	2.50	1.0000	2.50	_____
Cstm ap grd herbicid	acre	4.00	1.0000	4.00	_____
Cstm ap grd fert liq	acre	4.00	1.0000	4.00	_____
Custom haul	bu	0.15	150.0000	22.50	_____
Custom dry corn	bu	0.17	150.0000	25.50	_____
FERTILIZER & LIME					
9-23-30	lb	0.11	350.0000	38.50	_____
Liquid Nitrogen 32%	lb	0.07	550.0000	39.87	_____
HERBICIDES					
Atrazine	pint	1.19	4.0000	4.76	_____
Dual II	pt	8.00	2.0000	16.00	_____
INSECTICIDES					
Force 1.5G	lb	1.97	8.7000	17.13	_____
OPERATOR LABOR					
Implements	hour	6.39	0.2876	1.83	_____
Tractors	hour	6.39	0.8137	5.19	_____
Self-Propelled Eq.	hour	6.39	0.3125	1.99	_____
IRRIGATION LABOR					
Flood irrig	hour	6.39	0.1000	0.63	_____
DIESEL FUEL					
Tractors	gal	1.00	8.7499	8.74	_____
Self-Propelled Eq.	gal	1.00	2.5750	2.57	_____
Flood irrig	gal	1.00	10.0000	10.00	_____
REPAIR & MAINTENANCE					
Implements	acre	2.95	1.0000	2.95	_____
Tractors	acre	6.43	1.0000	6.43	_____
Self-Propelled Eq.	acre	5.44	1.0000	5.44	_____
Flood irrig	acre	2.15	1.0000	2.15	_____
INTEREST ON OP. CAP.	acre	6.59	1.0000	6.59	_____
TOTAL DIRECT EXPENSES				267.25	_____
FIXED EXPENSES					
Implements	acre	5.99	1.0000	5.99	_____
Tractors	acre	13.91	1.0000	13.91	_____
Self-Propelled Eq.	acre	18.50	1.0000	18.50	_____
Flood irrig	acre	16.33	1.0000	16.33	_____
TOTAL FIXED EXPENSES				54.74	_____
TOTAL SPECIFIED EXPENSES				321.99	_____

Visit our web site at <http://www.aragriculture.org>

University of Arkansas, United States Department of Agriculture and County Governments cooperating  
The Arkansas Cooperative Extension Service offers its programs to all eligible person regardless

of race, color, national origin, religion, gender, age, or disability, marital or veteran's status, or any other legally protected status, and is an Equal Opportunity Employer.

**Table 2. Estimated resource use and costs for field operations, per acre Corn, Flood Irrigated, Loamy Soils, 2002**

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST	
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST		
						-----dollars-----				dollars		-----dollars-----				
Disk, medium cut	26.41'	MFWD190	0.082	1.00	Nov	1.56	1.55	0.44	1.03	0.106	0.68					5.27
Chisel plow	21'	MFWD190	0.092	1.00	Feb	1.75	1.74	0.17	0.33	0.119	0.76					4.76
Cstm ap grd fert dry	acre			1.00	Mar							1.0000	4.00	4.00		4.00
9-23-30	lb											350.0000	0.11	38.50		38.50
Disk, medium cut	26.41'	MFWD190	0.082	1.00	Mar	1.56	1.55	0.44	1.03	0.106	0.68					5.27
Disk bedder, 8r@30"	20'	MFWD190	0.088	1.00	Mar	1.67	1.66	0.15	0.32	0.114	0.73					4.56
Bed conditioner	26.67'	MFWD190	0.052	1.00	Apr	0.98	0.98	0.18	0.39	0.067	0.43					2.98
Plntr hbox + granule	25.33'	MFWD190	0.100	1.00	Apr	1.90	1.89	0.95	1.61	0.240	1.53					7.89
Corn-conventional	ths											30.0000	1.13	33.90		33.90
Force 1.5G	lb											8.7000	1.97	17.13		17.13
Atrazine	pint											4.0000	1.19	4.76		4.76
Water tank	1000 gal	170	0.131	0.15	Apr	0.24	0.12	0.01	0.02	0.003	0.02					0.44
Cstm laser survey	acre			1.00	May							1.0000	2.50	2.50		2.50
Cstm ap grd herbicid	acre			1.00	May							1.0000	4.00	4.00		4.00
Dual II	pt											2.0000	8.00	16.00		16.00
Row cult 8r@30"	20'	145	0.129	1.00	May	2.14	1.27	0.29	0.50	0.025	0.16					4.39
Cstm ap grd fert liq	acre			1.00	May							1.0000	4.00	4.00		4.00
Liquid Nitrogen 32%	lb											550.0000	0.07	39.87		39.87
Levee disk-build	9'	2WD 170	0.196	0.15	Jun	0.47	0.44	0.05	0.11	0.038	0.24					1.32
Blade, rear mount	8'	2WD 105	0.645	0.05	Jun	0.32	0.30	0.01	0.05	0.041	0.26					0.95
Flood irrig	ac-in			1.00	Jun			4.86	16.33	0.040	0.25	4.0000				21.44
Levee disk-knock dwn	9'	2WD 170	0.196	0.10	Jun	0.31	0.29	0.03	0.07	0.025	0.16					0.88
Levee disk-build	9'	2WD 170	0.196	0.15	Jul	0.47	0.44	0.05	0.11	0.038	0.24					1.32
Blade, rear mount	8'	2WD 105	0.645	0.05	Jul	0.32	0.30	0.01	0.05	0.041	0.26					0.95
Flood irrig	ac-in			1.00	Jul			3.64		0.030	0.19	3.0000				3.83
Levee disk-knock dwn	9'	2WD 170	0.196	0.10	Jul	0.31	0.29	0.03	0.07	0.025	0.16					0.88
Levee disk-build	9'	2WD 170	0.196	0.15	Aug	0.47	0.44	0.05	0.11	0.038	0.24					1.32
Blade, rear mount	8'	2WD 105	0.645	0.05	Aug	0.32	0.30	0.01	0.05	0.041	0.26					0.95
Flood irrig	ac-in			1.00	Aug			3.64		0.030	0.19	3.0000				3.83
Levee disk-knock dwn	9'	2WD 170	0.196	0.10	Aug	0.31	0.29	0.03	0.07	0.025	0.16					0.88
Combine Corn-8 row	20'		0.250	1.00	Sep			8.02	18.50	0.312	1.99					28.52
Custom haul	bu			1.00	Sep							150.0000	0.15	22.50		22.50
Custom dry corn	bu			1.00	Sep							150.0000	0.17	25.50		25.50
TOTALS						15.18	13.91	23.12	40.83	1.513	9.67			212.67		315.40
INTEREST ON OPERATING CAPITAL																6.59
UNALLOCATED LABOR																0.00
TOTAL SPECIFIED COST																321.99

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not name, not does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.

**Estimating 2002 Costs of Production**

**Corn, Furrow Irrigated,  
Loamy Soils, 2002**

AG-666-11-01

**Tony E. Windham, Extension Economist - Management**  
**Jennifer Lafferty, Agricultural Economics Associate**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CROP SEED					
Corn-conventional	ths	1.13	30.0000	33.90	_____
CUSTOM WORK					
Cstm ap grd fert dry	acre	4.00	1.0000	4.00	_____
Cstm ap grd herbicid	acre	4.00	1.0000	4.00	_____
Cstm ap grd fert liq	acre	4.00	1.0000	4.00	_____
Custom haul	bu	0.15	150.0000	22.50	_____
Custom dry corn	bu	0.17	150.0000	25.50	_____
FERTILIZER & LIME					
9-23-30	lb	0.11	350.0000	38.50	_____
Liquid Nitrogen 32%	lb	0.07	550.0000	39.87	_____
HERBICIDES					
Atrazine	pint	1.19	4.0000	4.76	_____
Dual II	pt	8.00	2.0000	16.00	_____
INSECTICIDES					
Force 1.5G	lb	1.97	8.7000	17.13	_____
MISC. IRRIGATION					
Flex irrigation tube	acre	5.75	1.0000	5.75	_____
OPERATOR LABOR					
Implements	hour	6.39	0.2389	1.52	_____
Tractors	hour	6.39	0.6875	4.39	_____
Self-Propelled Eq.	hour	6.39	0.3125	1.99	_____
IRRIGATION LABOR					
Furrow irrigation	hour	6.39	0.3000	1.91	_____
DIESEL FUEL					
Tractors	gal	1.00	6.6212	6.62	_____
Self-Propelled Eq.	gal	1.00	2.5750	2.57	_____
Furrow irrigation	gal	1.00	12.0000	12.00	_____
REPAIR & MAINTENANCE					
Implements	acre	2.66	1.0000	2.66	_____
Tractors	acre	4.91	1.0000	4.91	_____
Self-Propelled Eq.	acre	5.44	1.0000	5.44	_____
Furrow irrigation	acre	2.58	1.0000	2.58	_____
INTEREST ON OP. CAP.	acre	6.47	1.0000	6.47	_____
TOTAL DIRECT EXPENSES				269.04	_____
FIXED EXPENSES					
Implements	acre	5.26	1.0000	5.26	_____
Tractors	acre	11.25	1.0000	11.25	_____
Self-Propelled Eq.	acre	18.50	1.0000	18.50	_____
Furrow irrigation	acre	16.33	1.0000	16.33	_____
TOTAL FIXED EXPENSES				51.36	_____
TOTAL SPECIFIED EXPENSES				320.40	_____

Visit our web site at <http://www.aragriculture.org>

University of Arkansas, United States Department of Agriculture and County Governments cooperating  
The Arkansas Cooperative Extension Service offers its programs to all eligible person regardless

of race, color, national origin, religion, gender, age, or disability, marital or veteran's status, or any other legally protected status, and is an Equal Opportunity Employer.

**Table 2. Estimated resource use and costs for field operations, per acre Corn, Furrow Irrigated, Loamy Soils, 2002**

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk, medium cut	26.41'	MFWD190	0.082	1.00	Nov	1.56	1.55	0.44	1.03	0.106	0.68				5.27
Chisel plow	21'	MFWD190	0.092	1.00	Feb	1.75	1.74	0.17	0.33	0.119	0.76				4.76
Cstm ap grd fert dry	acre			1.00	Mar							1.0000	4.00	4.00	4.00
9-23-30	lb											350.0000	0.11	38.50	38.50
Disk, medium cut	26.41'	MFWD190	0.082	1.00	Mar	1.56	1.55	0.44	1.03	0.106	0.68				5.27
Disk bedder, 8r@30"	20'	MFWD190	0.088	1.00	Mar	1.67	1.66	0.15	0.32	0.114	0.73				4.56
Bed conditioner	26.67'	MFWD190	0.052	1.00	Apr	0.98	0.98	0.18	0.39	0.067	0.43				2.98
Plntr hbox + granule	25.33'	MFWD190	0.100	1.00	Apr	1.90	1.89	0.95	1.61	0.240	1.53				7.89
Corn-conventional	ths											30.0000	1.13	33.90	33.90
Force 1.5G	lb											8.7000	1.97	17.13	17.13
Atrazine	pint											4.0000	1.19	4.76	4.76
Water tank	1000 gal	170	0.131	0.15	Apr	0.24	0.12	0.01	0.02	0.003	0.02				0.44
Cstm ap grd herbicid	acre			1.00	Apr							1.0000	4.00	4.00	4.00
Dual II	pt											2.0000	8.00	16.00	16.00
Row cult 8r@30"	20'	2WD 150	0.129	1.00	May	1.85	1.72	0.29	0.50	0.167	1.07				5.45
Cstm ap grd fert liq	acre			1.00	Jun							1.0000	4.00	4.00	4.00
Liquid Nitrogen 32%	lb											550.0000	0.07	39.87	39.87
Flex irrigation tube	acre			1.00	Jun							1.0000	5.75	5.75	5.75
Furrow irrigation	ac in			1.00	Jun			3.64	16.33	0.075	0.47	3.0000			20.45
Furrow irrigation	ac in			1.00	Jul			3.64		0.075	0.47	3.0000			4.12
Furrow irrigation	ac in			1.00	Aug			3.64		0.075	0.47	3.0000			4.12
Furrow irrigation	ac in			1.00	Aug			3.64		0.075	0.47	3.0000			4.12
Combine Corn-8 row	20'		0.250	1.00	Sep			8.02	18.50	0.312	1.99				28.52
Custom haul	bu			1.00	Sep							150.0000	0.15	22.50	22.50
Custom dry corn	bu			1.00	Sep							150.0000	0.17	25.50	25.50
TOTALS						11.53	11.25	25.26	40.10	1.538	9.83			215.92	313.92
INTEREST ON OPERATING CAPITAL															6.47
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															320.40

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not name, not does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.

**Estimating 2002 Costs of Production**

**Corn, Furrow Irrigated, Loamy Soils,  
 Roundup Ready, 2002**

AG-667-11-01

**Tony E. Windham, Extension Economist - Management**  
**Jennifer Lafferty, Agricultural Economics Associate**

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
<b>DIRECT EXPENSES</b>					
<b>CROP SEED</b>					
Corn - RR	ths	1.44	30.0000	43.20	_____
<b>CUSTOM WORK</b>					
Cstm ap grd fert dry	acre	4.00	1.0000	4.00	_____
Cstm ap grd herbicid	acre	4.00	1.0000	4.00	_____
Cstm ap grd fert liq	acre	4.00	1.0000	4.00	_____
Custom haul	bu	0.15	130.0000	19.50	_____
Custom dry corn	bu	0.17	130.0000	22.10	_____
<b>FERTILIZER &amp; LIME</b>					
9-23-30	lb	0.11	350.0000	38.50	_____
Liquid Nitrogen 32%	lb	0.07	550.0000	39.87	_____
<b>HERBICIDES</b>					
Roundup Ultra	pint	4.25	2.0000	8.50	_____
Atrazine	pint	1.19	4.0000	4.76	_____
<b>INSECTICIDES</b>					
Force 1.5G	lb	1.97	8.7000	17.13	_____
<b>MISC. IRRIGATION</b>					
Flex irrigation tube	acre	5.75	1.0000	5.75	_____
<b>OPERATOR LABOR</b>					
Implements	hour	6.39	0.2285	1.46	_____
Tractors	hour	6.39	0.6303	4.02	_____
Self-Propelled Eq.	hour	6.39	0.3125	1.99	_____
<b>IRRIGATION LABOR</b>					
Furrow irrigation	hour	6.39	0.3000	1.91	_____
<b>DIESEL FUEL</b>					
Tractors	gal	1.00	6.0623	6.06	_____
Self-Propelled Eq.	gal	1.00	2.5750	2.57	_____
Furrow irrigation	gal	1.00	12.0000	12.00	_____
<b>REPAIR &amp; MAINTENANCE</b>					
Implements	acre	2.47	1.0000	2.47	_____
Tractors	acre	4.48	1.0000	4.48	_____
Self-Propelled Eq.	acre	5.44	1.0000	5.44	_____
Furrow irrigation	acre	2.58	1.0000	2.58	_____
INTEREST ON OP. CAP.	acre	6.44	1.0000	6.44	_____
<b>TOTAL DIRECT EXPENSES</b>				262.80	_____
<b>FIXED EXPENSES</b>					
Implements	acre	4.87	1.0000	4.87	_____
Tractors	acre	10.27	1.0000	10.27	_____
Self-Propelled Eq.	acre	18.50	1.0000	18.50	_____
Furrow irrigation	acre	16.33	1.0000	16.33	_____
<b>TOTAL FIXED EXPENSES</b>				49.98	_____
<b>TOTAL SPECIFIED EXPENSES</b>				312.78	_____

Visit our web site at <http://www.aragriculture.org>

**Table 2. Estimated resource use and costs for field operations, per acre Corn, Furrow Irrigated, Loamy Soils, Roundup Ready, 2002**

OPERATION/ OPERATING INPUT	SIZE/ UNIT	TRACTOR SIZE	PERF RATE	TIMES OVER	MTH	TRACTOR COST		EQUIP COST		ALLOC LABOR		OPERATING INPUT			TOTAL COST
						DIRECT	FIXED	DIRECT	FIXED	HOURS	COST	AMOUNT	PRICE	COST	
						-----dollars-----				dollars		-----dollars-----			
Disk, medium cut	26.41'	MFWD190	0.082	1.00	Nov	1.56	1.55	0.44	1.03	0.106	0.68				5.27
Chisel plow	21'	MFWD190	0.092	1.00	Feb	1.75	1.74	0.17	0.33	0.119	0.76				4.76
Cstm ap grd fert dry	acre			1.00	Mar							1.0000	4.00	4.00	4.00
9-23-30	lb											350.0000	0.11	38.50	38.50
Disk, medium cut	26.41'	MFWD190	0.082	1.00	Mar	1.56	1.55	0.44	1.03	0.106	0.68				5.27
Disk bedder, 8r@30"	20'	MFWD190	0.088	1.00	Mar	1.67	1.66	0.15	0.32	0.114	0.73				4.56
Plntr hbox + granule	25.33'	MFWD190	0.100	1.00	Apr	1.90	1.89	0.95	1.61	0.240	1.53				7.89
Corn - RR	ths											30.0000	1.44	43.20	43.20
Force 1.5G	lb											8.7000	1.97	17.13	17.13
Water tank	1000 gal	170	0.131	0.15	Apr	0.24	0.12	0.01	0.02	0.003	0.02				0.44
Cstm ap grd herbicid	acre			1.00	Apr							1.0000	4.00	4.00	4.00
Roundup Ultra	pint											2.0000	4.25	8.50	8.50
Atrazine	pint											4.0000	1.19	4.76	4.76
Row cult 8r@30"	20'	2WD 150	0.129	1.00	May	1.85	1.72	0.29	0.50	0.167	1.07				5.45
Cstm ap grd fert liq	acre			1.00	Jun							1.0000	4.00	4.00	4.00
Liquid Nitrogen 32%	lb											550.0000	0.07	39.87	39.87
Flex irrigation tube	acre			1.00	Jun							1.0000	5.75	5.75	5.75
Furrow irrigation	ac in			1.00	Jun			3.64	16.33	0.075	0.47	3.0000			20.45
Furrow irrigation	ac in			1.00	Jul			3.64		0.075	0.47	3.0000			4.12
Furrow irrigation	ac in			1.00	Aug			3.64		0.075	0.47	3.0000			4.12
Furrow irrigation	ac in			1.00	Aug			3.64		0.075	0.47	3.0000			4.12
Combine Corn-8 row	20'		0.250	1.00	Sep			8.02	18.50	0.312	1.99				28.52
Custom haul	bu			1.00	Sep							130.0000	0.15	19.50	19.50
Custom dry corn	bu			1.00	Sep							130.0000	0.17	22.10	22.10
TOTALS						10.54	10.27	25.08	39.70	1.471	9.40			211.32	306.33
INTEREST ON OPERATING CAPITAL															6.44
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															312.78

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not name, not does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.