

Estimating 2003 Costs of Production

Corn, Flood Irrigated, Loamy Soils

AG-749-12-02

Tony E. Windham, Extension Economist – Management
James Marshall, Extension Economist

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CROP SEED					
Corn-conventional	ths	1.31	30.0000	39.30	_____
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	39.60	_____
HERBICIDES					
Atrazine	pint	1.34	4.0000	5.36	_____
Dual II	pt	8.00	2.0000	16.00	_____
INSECTICIDES					
Force 3G	lb	3.98	4.3500	17.31	_____
OPERATOR LABOR					
Implements	hour	6.70	0.2876	1.92	_____
Tractors	hour	6.70	0.8137	5.45	_____
Self-Propelled Eq.	hour	6.70	0.3125	2.09	_____
IRRIGATION LABOR					
Flood irrig	hour	6.70	0.1000	0.67	_____
DIESEL FUEL					
Tractors	gal	0.90	8.7499	7.87	_____
Self-Propelled Eq.	gal	0.90	2.5750	2.31	_____
Flood irrig	gal	0.90	10.0000	9.00	_____
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	ac-in	0.21	10.0000	2.15	_____
INTEREST ON OP. CAP.	acre	5.97	1.0000	5.97	_____
TOTAL DIRECT EXPENSES				270.86	_____
FIXED EXPENSES					
Implements	acre	5.92	1.0000	5.92	_____
Tractors	acre	13.65	1.0000	13.65	_____
Self-Propelled Eq.	acre	18.28	1.0000	18.28	_____
Flood irrig	acre	16.33	1.0000	16.33	_____
TOTAL FIXED EXPENSES				54.19	_____
TOTAL SPECIFIED EXPENSES				325.05	_____

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Table 2. Estimated resource use and costs for field operations per acre, Corn, Flood Irrigated, Loamy Soils, 2003

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	1.47	1.52	0.44	1.01	0.106	0.71				5.17
Chisel plow	21'	MFWD190	0.092	1.00	Feb	1.65	1.71	0.17	0.33	0.119	0.80				4.66
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	1.47	1.52	0.44	1.01	0.106	0.71				5.17
Disk bedder, 8r@30"	20'	MFWD190	0.088	1.00	Mar	1.58	1.63	0.15	0.32	0.114	0.76				4.46
Bed conditioner	26.67'	MFWD190	0.052	1.00	Apr	0.93	0.96	0.18	0.38	0.067	0.45				2.92
Plntr hbox + granule	25.33'	MFWD190	0.100	1.00	Apr	1.79	1.85	0.95	1.59	0.240	1.60				7.81
Corn-conventional	ths											30.0000	1.31	39.30	39.30
Force 3G	lb											4.3500	3.98	17.31	17.31
Atrazine	pint											4.0000	1.34	5.36	5.36
Water tank	1000 gal	170	0.131	0.15	Apr	0.22	0.12	0.01	0.02	0.003	0.02				0.42
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	2.02	1.25	0.29	0.49	0.025	0.17				4.24
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	39.60	39.60
Levee disk-build	9'	2WD 170	0.196	0.15	Jun	0.44	0.43	0.05	0.11	0.038	0.25				1.29
Blade, rear mount	8'	2WD 105	0.645	0.05	Jun	0.30	0.29	0.01	0.05	0.041	0.28				0.94
Flood irrig	ac-in			1.00	Jun			4.46	16.33	0.040	0.26	4.0000			21.05
Levee disk-knock dwn	9'	2WD 170	0.196	0.10	Jun	0.29	0.28	0.03	0.07	0.025	0.17				0.86
Levee disk-build	9'	2WD 170	0.196	0.15	Jul	0.44	0.43	0.05	0.11	0.038	0.25				1.29
Blade, rear mount	8'	2WD 105	0.645	0.05	Jul	0.30	0.29	0.01	0.05	0.041	0.28				0.94
Flood irrig	ac-in			1.00	Jul			3.34		0.030	0.20	3.0000			3.54
Levee disk-knock dwn	9'	2WD 170	0.196	0.10	Jul	0.29	0.28	0.03	0.07	0.025	0.17				0.86
Levee disk-build	9'	2WD 170	0.196	0.15	Aug	0.44	0.43	0.05	0.11	0.038	0.25				1.29
Blade, rear mount	8'	2WD 105	0.645	0.05	Aug	0.30	0.29	0.01	0.05	0.041	0.28				0.94
Flood irrig	ac-in			1.00	Aug			3.34		0.030	0.20	3.0000			3.54
Levee disk-knock dwn	9'	2WD 170	0.196	0.10	Aug	0.29	0.28	0.03	0.07	0.025	0.17				0.86
Combine Corn-8 row	20'		0.250	1.00	Sep			7.76	18.28	0.312	2.09				28.14
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						14.30	13.65	21.86	40.53	1.513	10.14			218.57	319.08
INTEREST ON OPERATING CAPITAL															5.97
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															325.05

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Estimating 2003 Costs of Production

**Corn, Furrow Irrigated,
Loamy Soils**

AG-750-12-02

Tony E. Windham, Extension Economist – Management
James Marshall, Extension Economist

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CROP SEED					
Corn-conventional	ths	1.31	30.0000	39.30	_____
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	39.60	_____
HERBICIDES					
Atrazine	pint	1.34	4.0000	5.36	_____
Dual II	pt	8.00	2.0000	16.00	_____
INSECTICIDES					
Force 3G	lb	3.98	4.3500	17.31	_____
MISC. IRRIGATION					
Flex irrigation tube	acre	5.75	1.0000	5.75	_____
OPERATOR LABOR					
Implements	hour	6.70	0.2389	1.60	_____
Tractors	hour	6.70	0.6875	4.60	_____
Self-Propelled Eq.	hour	6.70	0.3125	2.09	_____
IRRIGATION LABOR					
Furrow irrigation	hour	6.70	0.3000	2.01	_____
DIESEL FUEL					
Tractors	gal	0.90	6.6212	5.95	_____
Self-Propelled Eq.	gal	0.90	2.5750	2.31	_____
Furrow irrigation	gal	0.90	12.0000	10.80	_____
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	ac in	0.21	12.0000	2.58	_____
INTEREST ON OP. CAP.	acre	5.87	1.0000	5.87	_____
TOTAL DIRECT EXPENSES				272.69	_____
FIXED EXPENSES					
Implements	acre	5.20	1.0000	5.20	_____
Tractors	acre	11.04	1.0000	11.04	_____
Self-Propelled Eq.	acre	18.28	1.0000	18.28	_____
Furrow irrigation	acre	16.33	1.0000	16.33	_____
TOTAL FIXED EXPENSES				50.87	_____
TOTAL SPECIFIED EXPENSES				323.56	_____

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Table 2. Estimated resource use and costs for field operations per acre, Corn, Furrow Irrigated, Loamy Soils, 2003

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	1.47	1.52	0.44	1.01	0.106	0.71				5.17
Chisel plow	21'	MFWD190	0.092	1.00	Feb	1.65	1.71	0.17	0.33	0.119	0.80				4.66
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	1.47	1.52	0.44	1.01	0.106	0.71				5.17
Disk bedder, 8r@30"	20'	MFWD190	0.088	1.00	Mar	1.58	1.63	0.15	0.32	0.114	0.76				4.46
Bed conditioner	26.67'	MFWD190	0.052	1.00	Apr	0.93	0.96	0.18	0.38	0.067	0.45				2.92
Plntr hbox + granule	25.33'	MFWD190	0.100	1.00	Apr	1.79	1.85	0.95	1.59	0.240	1.60				7.81
Corn-conventional	ths											30.0000	1.31	39.30	39.30
Force 3G	lb											4.3500	3.98	17.31	17.31
Atrazine	pint											4.0000	1.34	5.36	5.36
Water tank	1000 gal	170	0.131	0.15	Apr	0.22	0.12	0.01	0.02	0.003	0.02				0.42
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	1.74	1.69	0.29	0.49	0.167	1.12				5.35
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	39.60	39.60
Flex irrigation tube	acre			1.00	Jun							1.0000	5.75	5.75	5.75
Furrow irrigation	ac in			1.00	Jun			3.34	16.33	0.075	0.50	3.0000			20.17
Furrow irrigation	ac in			1.00	Jul			3.34		0.075	0.50	3.0000			3.84
Furrow irrigation	ac in			1.00	Aug			3.34		0.075	0.50	3.0000			3.84
Furrow irrigation	ac in			1.00	Aug			3.34		0.075	0.50	3.0000			3.84
Combine Corn-8 row	20'		0.250	1.00	Sep			7.76	18.28	0.312	2.09				28.14
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						10.87	11.04	23.81	39.82	1.538	10.31			221.82	317.69
INTEREST ON OPERATING CAPITAL															5.87
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															323.56

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Estimating 2003 Costs of Production

Corn, Furrow Irrigated, Loamy Soils, Roundup Ready

AG-751-12-02

Tony E. Windham, Extension Economist – Management
James Marshall, Extension Economist

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
DIRECT EXPENSES					
CROP SEED					
Corn - RR	ths	1.63	30.0000	48.90	_____
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	130.0000	19.50	_____
Custom dry corn	bu	0.17	130.0000	22.10	_____
FERTILIZER & LIME					
9-23-30	lb	0.11	350.0000	38.50	_____
Liquid Nitrogen 32%	lb	0.07	550.0000	39.60	_____
HERBICIDES					
Roundup Ultra	pint	5.82	2.0000	11.64	_____
Atrazine	pint	1.34	4.0000	5.36	_____
INSECTICIDES					
Force 3G	lb	3.98	4.3500	17.31	_____
MISC. IRRIGATION					
Flex irrigation tube	acre	5.75	1.0000	5.75	_____
OPERATOR LABOR					
Implements	hour	6.70	0.2285	1.53	_____
Tractors	hour	6.70	0.6303	4.22	_____
Self-Propelled Eq.	hour	6.70	0.3125	2.09	_____
IRRIGATION LABOR					
Furrow irrigation	hour	6.70	0.3000	2.01	_____
DIESEL FUEL					
Tractors	gal	0.90	6.0623	5.45	_____
Self-Propelled Eq.	gal	0.90	2.5750	2.31	_____
Furrow irrigation	gal	0.90	12.0000	10.80	_____
REPAIR & MAINTENANCE					
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	ac in	0.21	12.0000	2.58	_____
INTEREST ON OP. CAP.	acre	5.94	1.0000	5.94	_____
TOTAL DIRECT EXPENSES				270.03	_____
FIXED EXPENSES					
Implements	acre	4.81	1.0000	4.81	_____
Tractors	acre	10.08	1.0000	10.08	_____
Self-Propelled Eq.	acre	18.28	1.0000	18.28	_____
Furrow irrigation	acre	16.33	1.0000	16.33	_____
TOTAL FIXED EXPENSES				49.51	_____
TOTAL SPECIFIED EXPENSES				319.55	_____

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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	1.47	1.52	0.44	1.01	0.106	0.71				5.17
Chisel plow	21'	MFWD190	0.092	1.00	Feb	1.65	1.71	0.17	0.33	0.119	0.80				4.66
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	1.47	1.52	0.44	1.01	0.106	0.71				5.17
Disk bedder, 8r@30"	20'	MFWD190	0.088	1.00	Mar	1.58	1.63	0.15	0.32	0.114	0.76				4.46
Plntr hbox + granule	25.33'	MFWD190	0.100	1.00	Apr	1.79	1.85	0.95	1.59	0.240	1.60				7.81
Corn - RR	ths											30.0000	1.63	48.90	48.90
Force 3G	lb											4.3500	3.98	17.31	17.31
Water tank	1000 gal	170	0.131	0.15	Apr	0.22	0.12	0.01	0.02	0.003	0.02				0.42
Cstm ap grd herbicid	acre			1.00	Apr							1.0000	4.00	4.00	4.00
Roundup Ultra	pint											2.0000	5.82	11.64	11.64
Atrazine	pint											4.0000	1.34	5.36	5.36
Row cult 8r@30"	20'	2WD 150	0.129	1.00	May	1.74	1.69	0.29	0.49	0.167	1.12				5.35
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	39.60	39.60
Flex irrigation tube	acre			1.00	Jun							1.0000	5.75	5.75	5.75
Furrow irrigation	ac in			1.00	Jun			3.34	16.33	0.075	0.50	3.0000			20.17
Furrow irrigation	ac in			1.00	Jul			3.34		0.075	0.50	3.0000			3.84
Furrow irrigation	ac in			1.00	Aug			3.34		0.075	0.50	3.0000			3.84
Furrow irrigation	ac in			1.00	Aug			3.34		0.075	0.50	3.0000			3.84
Combine Corn-8 row	20'		0.250	1.00	Sep			7.76	18.28	0.312	2.09				28.14
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						9.94	10.08	23.62	39.43	1.471	9.85			220.66	313.60
INTEREST ON OPERATING CAPITAL															5.94
UNALLOCATED LABOR															0.00
TOTAL SPECIFIED COST															319.55

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