

**Corn Silage, Traditional Establishment
Estimated Expenses per Acre**

Item	Description	Unit	Quantity	Price	Amount (\$/acre)	Your Farm
Variable Expenses						
Seed ¹	23 Thousand Seeds	bag	0.28	\$ 100.75	\$ 28.21	_____
Fertilizer	N	lb	150.00	\$ 0.48	\$ 72.00	_____
	P2O5	lb	60.00	\$ 0.34	\$ 20.40	_____
	K2O	lb	120.00	\$ 0.23	\$ 27.60	_____
	Custom Application	acre	1.00	\$ 5.00	\$ 5.00	_____
Lime ²	Custom Application	ton	0.50	\$ 21.00	\$ 10.50	_____
Weed Control³						
Pre-Emerge	Atrazine, 4L	pt	0.80	\$ 1.26	\$ 1.01	_____
	Bicep II Magnum	pt	4.80	\$ 5.65	\$ 27.12	_____
Post-Emerge	Accent	oz	0.67	\$ 34.94	\$ 23.41	_____
	Surfactant	pt	0.50	\$ 1.63	\$ 0.82	_____
	Custom Application	acre	1.00	\$ 5.00	\$ 5.00	_____
Machinery						
Fuel		acre	1.00	\$ 16.23	\$ 16.23	_____
Oil & Filter		acre	1.00	\$ 2.43	\$ 2.43	_____
Repairs & Maintenance		acre	1.00	\$ 15.02	\$ 15.02	_____
Interest on Operating Capital	6 Months	acre	\$ 254.74	8.0%	\$ 10.19	_____
Total Variable Expenses					\$ 264.93	_____
Fixed Expenses						
Machinery						
Depreciation		acre	1.00	\$ 12.76	\$ 12.76	_____
Interest		acre	1.00	\$ 14.97	\$ 14.97	_____
Housing & Insurance		acre	1.00	\$ 1.38	\$ 1.38	_____
Total Fixed Expenses					\$ 29.10	_____
Labor Expenses						
Labor ⁴		hour	2.42	\$ 8.50	\$ 20.53	_____
Total Budgeted Expenses					\$ 314.57	_____

Footnotes:

¹Plant population and rate of fertilization are directly related. A higher population probably should be fertilized at a higher rate.

²Lime is applied at the rate of 2 tons every 4 years.

³When other chemicals are used, calculate the appropriate costs for the chemical used. Rates are for medium-textured soils--use lower rates for sandy soils and higher rates for fine-textured or clay-type soils, check labels. Other herbicide combinations are available.

⁴Labor expense is \$8.50 per hour, including wages, Social Security and Medicaid taxes and payroll administration costs.

**Corn Silage, Traditional Establishment
Estimated Machinery and Labor Requirements per Acre**

Month	Operation	Power Unit	Implement		Hours per Acre	
					Machine	Labor
Mar	Chisel	Tractor, 100 hp	Chisel Plow, 9'		0.22	0.27
Apr	Fertilize & Lime	Custom	Custom		---	---
Apr	Disk & Pre-Emerge (Atrazine & Bicep II Magnum)	Tractor, 100 hp	Disk, 12'	Boom Sprayer, 20'	0.17	0.21
Apr	Disk & Harrow	Tractor, 100 hp	Disk, 12'	Harrow, 10'	0.17	0.21
Apr	Plant	Tractor, 100 hp	Corn Planter, 4-row		0.25	0.31
May	Post-Emerge (Accent)	Custom	Custom		---	---
Sep	Harvest	Tractor, 100 hp	Forage Chopper	Corn Header, 2-row Forage Wagon #1	0.56	0.70
Sep	Haul	Tractor, 70 hp	Forage Wagon #2		0.28	0.35
Sep	Store	Tractor, 70 hp	Forage Blower		0.28	0.35
					Total	2.42

Estimated Machinery Expenses per Acre

Machine	Hours per Acre	Variable Cost			Total Variable Costs	Fixed Cost			Total Fixed Costs
		Fuel	Oil & Filter	Repairs		Depreciation	Interest	Housing & Insurance	
Tractor, 100 hp	1.37	12.61	1.89	5.07	19.57	3.68	4.61	0.25	8.53
Tractor, 70 hp	0.56	3.61	0.54	1.19	5.35	0.72	0.86	0.06	1.64
Forage Chopper	0.56	0.00	0.00	3.03	3.03	1.50	1.72	0.16	3.38
Corn Header, 2-row	0.56	0.00	0.00	1.02	1.02	1.01	0.70	0.10	1.81
Chisel Plow, 9'	0.22	0.00	0.00	0.21	0.21	0.09	0.19	0.02	0.30
Disk, 12'	0.34	0.00	0.00	0.64	0.64	0.84	0.87	0.14	1.85
Harrow, 10'	0.17	0.00	0.00	0.07	0.07	0.06	0.06	0.01	0.13
Boom Sprayer, 20'	0.17	0.00	0.00	0.13	0.13	0.17	0.19	0.02	0.37
Corn Planter, 4-row	0.25	0.00	0.00	1.15	1.15	1.02	1.68	0.14	2.84
Forage Wagon #1	0.56	0.00	0.00	1.52	1.52	2.27	2.52	0.30	5.09
Forage Wagon #2	0.28	0.00	0.00	0.76	0.76	1.14	1.26	0.15	2.55
Forage Blower	0.28	0.00	0.00	0.24	0.24	0.27	0.30	0.03	0.61
Total		\$ 16.23	\$ 2.43	\$ 15.02	\$ 33.68	\$ 12.76	\$ 14.97	\$ 1.38	\$ 29.10
Total Machinery Cost									\$ 62.78

Break-even Analysis

		Yield/Acre		Break-even
				Price/Ton
Break-even Price over Total Variable Expenses:	Below-Average Yield	12.0	tons	\$ 22.08
	Average Yield	15.0	tons	\$ 17.66
	Above-Average Yield	18.0	tons	\$ 14.72
Break-even Price over Total Budgeted Expenses:	Below-Average Yield	12.0	tons	\$ 26.21
	Average Yield	15.0	tons	\$ 20.97
	Above-Average Yield	18.0	tons	\$ 17.48