



2008 Wholesale SWEET CORN PRODUCTION BUDGET

Machine Harvested

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ITEM	EXPLANATION	Your Prod Numbers	PRICE PER UNIT	YIELD (crates/A)			YOUR BUDGET		
				200	260	300			
RECEIPTS ¹									
Sweet Corn			\$10.00 / crate	\$2,000	\$2,600	\$3,000	\$3,500.00		
VARIABLE COSTS									
	Seeding Rates								
Seed ²	22000	24000	28000	28000	\$4.50 /10000	9.90	10.80	12.60	12.60
Per Pound/Acre						-	-	-	-
Fertilizer ³	Application Rates								
N (lb.)	100	120	150	150	\$0.689 /lb.	68.93	82.71	103.39	103.39
P2O5(lb.)	50	70	100	100	\$0.821 /lb.	41.06	57.48	82.12	82.12
K2O(lb.)	50	70	100	100	\$0.473 /lb.	23.67	33.13	47.33	47.33
Lime(ton)		0.25		0.25	\$23.50 /ton	5.88	5.88	5.88	5.88
Herbicides ⁴									
Pre-Emerg				2.1 qu/A	\$36.54 /gal	19.18	19.18	19.18	19.18
Post-Emerg				0.75 oz/A	\$18.32 /oz	13.74	13.74	13.74	13.74
Insecticides ⁵									
At Planting				8.7 lb/A	\$2.23 /lb	19.40	19.40	19.40	19.40
During Silking				9.6 fl.oz/A	\$87.31 /gal	6.55	6.55	6.55	6.55
Fungicides ⁶				0 fl.oz/A	\$286.00 /gal	-	-	-	-
Fuel, Oil, Grease ⁷						16.67	16.67	16.67	16.67
Repairs ⁸						13.20	13.20	13.20	13.20
Hired Labor ⁹		0	hours	\$6.55	/ hour	-	-	-	-
Miscellaneous ¹⁰						8.00	9.00	10.00	10.00
Int. on Oper. Cap. ¹¹		7	mo.		9.0%	12.92	15.11	18.38	18.38
TOTAL VARIABLE COSTS						259	303	368	368
						1.30	1.16	1.23	1.05
FIXED COSTS									
Operator Labor Charge ¹²		3.6	hours	13.50	/hr.	48.60	48.60	48.60	49
Mach. And Equip. Charge ¹³						60.37	60.37	60.37	60.37
Land Charge ¹⁴			Rent			94.82	123.50	156.88	200.00
Management Charge ¹⁵			5% of gross revenue			100.00	130.00	150.00	175.00
TOTAL FIXED COSTS						303.79	362.47	415.85	483.97
TOTAL COSTS						562.88	665.32	784.29	852.41
						2.81	2.56	2.61	2.44
RETURN ABOVE VARIABLE COSTS						1,740.91	2,297.15	2,631.57	3,131.57
RETURN ABOVE TOTAL COSTS						1,437.12	1,934.68	2,215.71	2,647.59
RETURN TO LABOR AND MANAGEMENT ¹⁶						1,585.72	2,113.28	2,414.31	2,871.19
RETURN TO LAND						1,531.94	2,058.18	2,372.59	2,847.59

Values highlighted in gold may be changed to assist in computing "Your Budget" Column using macros embedded within the spreadsheet.

Values highlighted in light blue are cells embedded with macros and will be calculated for the user based on data entered.

These cells may be input manually, but macros will be overwritten!

Values highlighted in gray are stand alone cells that require direct input from the user.

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¹ Price estimated on University Experts' experience and research

² Seeding rates based on 30-36" rows with 8-12" in-row (2008 Ohio Vegetable Production Guide pg 247)

Seed prices estimated from 2008 Rupp & Seiger Seed Company cataloges

³ Fertilizer rates provided by Robert Precheur (Ext. Spec) based on recent yield studies

Also consult 2008 Ohio Vegetable Production Guide

Assumes only maintenance application of fertilizer needed

Fertilizer prices vary over time and by area. Check with local sources for current prices.

Assumes UAN(28-0-0): **386** /ton MAP(11-52-0): **854** /ton Potash(0-0-60): **568** /ton

⁴ Prices based on 2008 Dow Agrosience Prices

Pre-Emergence assumes use of Bicep II Magnum (s-metolachlor + atrazine + atrazine products (26.1%+32%+1.7%))

Post-Emergence assumes the use of Impact 2.8L (topramezone)

See 2008 Ohio Vegetable Production Guide pp 258-260

⁵ Insecticide prices provided by Gerald Grain Center (Ridgeville Corners, OH - Henry County) - Prices vary. Check with local sources for current prices.

At Planting assumes use of Counter 15G (Terbufos) for seedcorn maggot, seedcorn beetle, rootworms, garden symphylans, flea beetle.

During Silking assumes use of Warrior (Lambda-cyhalothrin) for cutworms, armyworms, flea beetle, aphic, corn earworm, etc...

DIRECTIONS FOR CALCULATING HERBICIDE AND INSECTICIDE COSTS:

Insert application rate (2.1) in the **GOLD** box. Use the drop down menu to select a unit (qu/A).

This automatically changes the "per unit" (if originally qu/A, and changed to lb/A, /gal will change to /lb), and conversion calculation.

Insert the cost per unit in the **GOLD** box. This will automatically calculate your cost per acre.

Note: DO NOT TYPE IN ANY OF THE BOXES HIGHLIGHTED IN GREEN - THIS WILL OVERWRITE THE MACROS, CAUSING ERRORS.

See 2008 Ohio Vegetable Production Guide pp 250-257

⁶ Fungicides assumes usage of Tilt for Rust

See 2008 Ohio Vegetable Production Guide pp. 249 for application rates and other possible fungicides

⁷ See table below for specific calculations. Lubrications costs are assumed to be 10% of fuel costs

⁸ See table below for specific calculations.

⁹ Hired Labor assumes 12.5 hours worked at \$6.55 per hour (minimum wage). Hours and pay rates may vary depending on size of farm and location.

¹⁰ Includes supplies, utilities, soil tests, small tools, software/hardware, transport of supplies and equipment, etc...

¹¹ Interest on all variable costs for 7 months at 9% interest rate.

¹² Labor rate includes cash wages plus benefits.

¹³ Reflects 1500 total acres. 750 acres of sweet corn and 750 acres of Soybeans. See table below for specific calculations.

¹⁴ Average based on 2007-2008 data. View website below for information:

<http://aeede.osu.edu/resources/docs/pdf/UDSIO6SG-9315-IQAW-X7QLG33KLHMNAZZ6.pdf>

Land charges vary throughout the state, check your local rates

¹⁵ Management Charge is calculated as 5% of Total Receipts.

¹⁶ Return to labor and management is the revenue less total expenses except operator labor and management.

It is a measure of the returns to the operator's labor and management.

Machinery Inventory

	Number times used	Machinery Cost	Acres per Year	Cost per Acre	Acres/ Hr	Fuel* (gal/A)	Repairs (\$/A)
15 ft. Chisel Plow	1	\$15,800	750	\$2.86	8.5	0.60	88.24 0.57
23 ft. Field Cultivator	1	\$29,400	750	\$5.33	16.6	0.32	45.21 0.57
50 ft. Boom Sprayer	3	\$18,900	1,500	\$1.71	25.6	0.30	175.71 1.08
8 Row Planter	1	\$28,400	750	\$4.79	9.3	0.34	80.39 0.89
Combine 275 HP	1	\$207,000	1,500	\$19.38	-----	-----	147.35 6.78
Sweet Corn Head 20'	1	\$45,200	750	\$8.46	5.1	2.41	147.35 1.03
Fertilizer Spreader	1	\$11,550	1,500	\$1.05	25.6	0.12	58.59 0.24
200 HP Tractor	4	\$142,000	1,500	\$12.69	-----	-----	272.42 1.72
75 HP Tractor	3	\$32,000	1,500	\$2.76	-----	-----	175.71 0.26
Pickup Truck (1/2)**	1	\$15,000	1,500	\$1.34	-----	0.20	----- 0.05

Machinery and Equipment Charge per Acre	\$60.37	Fuel	15.16	F&L	16.67	Repairs	13.20
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Price of Diesel Fuel = \$3.50

Machinery cost estimates, fuel estimates and cost calculations based on information from the "Farm Machinery Cost Estimates For 2007". See the reference online at:

<http://www.apec.umn.edu/faculty/wlazarus/documents/mf2007.pdf>

Machinery and Equipment charge =

Cost per Acre = Machinery Cost (New Cost) Assumes 8 Year Useful Life using Straight Line Depreciation, 6.0% Interest on Average Value, 0.5% Insurance Cost on Average Value and 1.0% Housing Cost on Average Value.

Salvage Values are based on ASAE formulas.

Machines are all assumed to be new and in the first year of use (Except for Pickup Truck).

View next worksheet (Machinery Costs below) for details on calculations for Cost per Acre

*Fuel calculations are based on the implement plus tractor.
**Semi Tractor Trailer and Pickup Truck are assumed to be used equipment.
***Fuel for Semi is included in Budget as Trucking - Fuel Only