

Vermont Oilseed Crop Production Cost and Profit Calculator



Vermont Sustainable Jobs Fund

Brought to you by a joint effort between UVM Extension, NE SARE and the Vermont Sustainable Jobs Fund.

USER INPUTS

1 Title

2 Crop

Total Cropland acres
 Acres in Oilseeds acres
 Acres in this Crop acres

Example My Farm
 Land Cost \$ /acre/yr

3 Yield

	Example	My Farm	
Yield (Seed)	1100	<input type="text" value="1200"/>	lbs/acre
Oil Content	44%	<input type="text" value="38%"/>	
Test Weight	32	<input type="text" value="NA"/>	lbs/bu (dry)

4 Cost of Production

(Labor, fuel and materials should be included in each item. Equipment cost is carried below)

	Example	My Farm	
Field Prep (plow & disk)	\$ 34.00	<input type="text" value="\$ 37.00"/>	/acre
Fertilizer (applied)	\$ 47.00	<input type="text" value="\$ 48.00"/>	/acre
Seed	\$ 25.00	<input type="text" value="\$ 26.00"/>	/acre
Planting	\$ 6.00	<input type="text" value="\$ 7.00"/>	/acre
Cultivating	\$ 8.00	<input type="text" value="\$ 9.00"/>	/acre
Spraying	\$ 20.00	<input type="text" value="\$ 12.00"/>	/acre
Harvesting	\$ 12.00	<input type="text" value="\$ 13.00"/>	/acre
Hauling	\$ 1.00	<input type="text" value="\$ 1.00"/>	/acre
OR Total Cost of Production	\$ 153.00	<input type="text" value="NA"/>	/acre
Total Being used in Calculator	\$ 153.00	<input type="text" value="\$ 153.00"/>	/acre

Equipmen Prod. Equip. Cost (oilseed portion) \$ 20,000
 Prod. Equip. Life 20 years

OR Cost of Raw Seed \$ 346.56 /ton

5 Costs of Cleaning and Drying

	Example	My Farm	
Harvest Moisture	14%	<input type="text" value="14%"/>	% weight
Storage Moisture	8%	<input type="text" value="8%"/>	% weight
Electricity Cost	\$ 0.13	<input type="text" value="\$ 0.14"/>	/kWhr
Labor Cost (Dry/Clean per ton)	\$ 15.00	<input type="text" value="\$ 0.00"/>	/ton

Cleaner Cost \$ 4,000
 Cleaner Life 30 years

Bin / Drier Cost \$ 12,000
 Bin / Drier Life 20 years

OR Cost of Clean / Dry Seed \$ 371.69 /ton

GENERAL INSTRUCTIONS: Enter any specific information you have regarding your farm's operation into the white boxes below. If you do not enter a value in the white box, the "Example" value to the left of it will be used. If you enter "0" instead of "NA" a value of zero will be used. "Example" values are based on research and collection of data from participating farmers and other published resources and are provided for guidance only. Summary results are displayed on the right of the screen, and you can print a more detailed report by clicking "Print Detailed Report".

6 Cost of Pressing

	Example	My Farm	
Press Cost	\$ 4,000	<input type="text" value="\$ 45,000"/>	
Press Life	20	<input type="text" value="20"/>	years
Press Capacity	1.0	<input type="text" value="3.0"/>	ton/day
Press Oil Efficiency	90%	<input type="text" value="100%"/>	
Press Power Rating	5	<input type="text" value="14"/>	kW
Labor Cost (per ton)	\$ 0.75	<input type="text" value="\$ 0.05"/>	/ton
OR Cost of Hired Pressing	\$ 1	<input type="text" value="NA"/>	/ton seed
OR Cost of Purchased Oil	\$ 0.59	<input type="text" value="NA"/>	/gal
Amount of Purchased Oil		<input type="text" value="NA"/>	gal/yr

7 Cost of Biodiesel Production

	Example	My Farm	
Plant & Equip Cost	\$ 10,000	<input type="text" value="\$ 93,000"/>	
Plant & Equip Life	30	<input type="text" value="40"/>	years
Heating Cost	\$ 0.07	<input type="text" value="\$ 0.14"/>	/kWhr electric
Alcohol Cost	\$ 4.00	<input type="text" value="\$ 3.00"/>	/gal alc
Alcohol Used	20%	<input type="text" value="22%"/>	gal / gal oil
Lye Cost	\$ 2.40	<input type="text" value="\$ 1.50"/>	/lb lye
Lye Used	0.083	<input type="text" value="0.1"/>	lb / gal oil
Labor Cost (per gal)	\$ 0.10	<input type="text" value="\$ 0.04"/>	/gal
OR Cost of Hired Biodiesel Production	\$ -	<input type="text" value="NA"/>	/gal B100

8 Market Value of Products

	Example	My Farm	
Market Price for Seed	\$ 384	<input type="text" value="\$ 384"/>	/ton
Market Price for Meal	\$ 180	<input type="text" value="\$ 180"/>	/ton
Market Price for Oil	\$ 5.21	<input type="text" value="\$ 5.21"/>	/gal
Market Price for Off-Road Diesel	\$ 2.94	<input type="text" value="\$ 2.94"/>	/gal
Net Market Value of Other Potential Bi-pr	\$ -	<input type="text" value="NA"/>	/acre

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RESULTS

Projected Costs

Incremental Costs (The cost of doing each step)

Cost of Production	\$ 201	/acre
	\$ 334	/ton seed
Cost of Cleaning/Drying	\$ 2	/acre
	\$ 4	/ton seed
Cost of Pressing	\$ 1	/acre
	\$ 2	/ton seed
Cost of Biodiesel Production	\$ 53	/acre
	\$ 0.87	/gal

Cumulative Cost (The total cost for each product along the way)

Cost to Produce Seed (Clean and Dry)	\$ 203	/acre
	\$ 338	/ton
Cost to Produce Meal	\$ 78	/acre
	\$ 340	/ton
Cost to Produce Oil	\$ 127	/acre
	\$ 1.28	/gal
Cost to Produce Biodiesel	\$ 130	/acre
	\$ 2.14	/gal

Projected Profit / (Loss) (If all is sold at market prices noted to the left, #8)

Seed Only (Clean and Dry)	\$28	/acre
Meal Only (full burden)	(\$137)	/acre
Oil Only (full burden)	\$112	/acre
Meal & 100% Oil (shared burden)	\$179	/acre
Meal and 100% Biodiesel (shared burden)	(\$111)	/acre
Biodiesel Only (full burden)	(\$78)	/acre

Seed Only (Clean and Dry)	\$45,266	total
Meal Only (full burden)	(\$225,919)	total
Oil Only (full burden)	\$185,015	total
Meal & 100% Oil (shared burden)	\$295,164	total
Meal and 100% Biodiesel (shared burden)	(\$18,445)	total
Biodiesel Only (full burden)	(\$128,594)	total

Production Summary (estimated volume of production at 100% conversion)

Tons of seed produced	987	tons
Bushels of seed produced	61,688	bushel
Tons of meal produced	612	tons
Tons of oil produced	375	tons
Gallons of oil produced	100,016	gal
Gallons of biodiesel produced	100,016	gal