Vermont Olseed Crop Production Cost and Profit Calculator

**USER INPUTS**

1. **Title:** Generic 310,000 GY Operation
2. **Crop:** Sunflowers

   - **Total Cropland:** 822 acres
   - **Acres in Olseeds:** 1645 acres
   - **Acrees in Crop:** 1645 acres

   **Example:** My Farm
   - **Land Cost:** $37 37/acre

3. **Yield**
   - **Yield (Seed):** 13.00 bu/acre
   - **Oil Content:** 44%
   - **Test Weight:** 32

4. **Cost of Production**
   - **Example:** My Farm
   - **Cost of Cleaning/Drying:** $0.10/bu (dry)
   - **Press Oil Efficiency:** 340 gal
   - **Press Power Rating:** 53,000 kW/ton
   - **Press Life:** 14 years
   - **Cleaner Life:** 40 years
   - **Cleaner Cost:** $4,000
   - **Btu / Drier Life:** 12,000
   - **Btu / Drier Cost:** $8,000

5. **Costs of Cleaning and Drying**
   - **Example:** My Farm
   - **Harvest Moisture:** 14
   - **Storage Moisture:** 14
   - **Storage Cost:** $6,000
   - **Electricity Cost:** $0.10
   - **Labor Cost (Dry): $0.05
   - **Cleaner Cost:** $4,000
   - **Btu / Drier Cost:** $12,000

6. **Cost of Pressing**
   - **Example:** My Farm
   - **Press Cost:** $4,000
   - **Press Life:** 20 years
   - **Press Capacity:** 100 tons/day
   - **Press Oil Efficiency:** 90
   - **Press Power Rating:** 14
   - **Labor Cost (per ton):** $0.75
   - **Cost of Purchased Oil:** $0.19
   - **Amount of Purchased Oil:** NA

7. **Cost of Biodiesel Production**
   - **Example:** My Farm
   - **Plant & Equip Cost:** $10,000
   - **Heating Cost:** $0.03
   - **Alcohol Cost:** $0.00
   - **Lye Used:** $240
   - **Biodiesel Cost:** $27,000
   - **Hauling Cost:** $1.00
   - **Cost of Hired Biodiesel Production:** $346.56

8. **Market Value of Products**
   - **Example:** My Farm
   - **Market Price for Seed:** $184
   - **Market Price for Oil:** $5.21
   - **Net Market Value of Other Potential Bi-pr:** $NA

**RESULTS**

**Projected Costs**

- **Incremental Costs (The cost of doing each step):**
  - **Cost of Production:** $201/acre
  - **Cost of Cleaning/Drying:** $2/ton
  - **Cost of Pressing:** $7/ton
  - **Cost of Biodiesel Production:** $53/acre

- **Cumulative Cost (The total cost for each product along the way):**
  - **Cost to Produce Seed (Clean and Dry):** $203/acre
  - **Cost to Produce Meal:** $12/ton
  - **Cost to Produce Oil:** $127/ton
  - **Cost to Produce Biodiesel:** $130/ton

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

- **Seed Only (Clean and Dry):** $528/acre
- **Meal Only (full burden):** $317/acre
- **Oil Only (full burden):** $112/acre
- **Meal & 100% Oil (shared burden):** $79/acre
- **Meal and 100% Biodiesel (shared burden):** $112/acre
- **Biodiesel Only (full burden):** $178/acre
- **Seed Only (Clean and Dry):** $45,266 total
- **Meal Only (full burden):** $178,000 total
- **Oil Only (full burden):** $178,000 total
- **Meal & 100% Oil (shared burden):** $295,164 total
- **Meal and 100% Biodiesel (shared burden):** $318,452 total
- **Biodiesel Only (full burden):** $1,726,594 total

**Production Summary (Estimated volume of production at 100% conversion):**

- **Tons of seed produced:** 987 tons
- **Bushels of seed produced:** 61,688 bushel
- **Bushels of meal produced:** 612 bushel
- **Tons of oil produced:** 573 tons
- **Gallons of oil produced:** 100,016 gallons
- **Gallons of biodiesel produced:** 100,016 gallons

**Print Detailed Report**  **Clear My Inputs**  **See Instructions**  **Frequently Asked Questions**

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