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# 2001 CROPS AND LIVESTOCK BUDGETS ESTIMATES FOR MICHIGAN <br> by <br> Barbara Dartt <br> Gerald D. Schwab 

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Crop and Livestock Budget Estimates for Michigan, 2001
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## Introduction

This report provides estimates of returns and selected cash costs for a variety of crop and livestock enterprises produced on representative Michigan farms. It is expected that the budgets will be used for three main purposes: 1) Budgeting and planning on farms that lack their own cost and performance data because the enterprise is new to the farm and/or farm records are inadequate; 2) Verification of a farm's own historical data as they use their own information to plan ahead; and 3) Benchmarking of individual production costs. Because the following budgets were generated with a "representative" Michigan producer in mind, they will be much more appropriate for uses 1) and 2).

The format of these budgets has been selected to mimic input necessary for budgets used by the FINPACK 2001® software program. FINPACK $2001{ }^{8}$ is a computerized farm planning and analysis system that can generate year end analysis, long range plans, cash flow plans and coordinated farm balance sheets and income and cash flow statements. Michigan State University Extension agents can use this program to assist producers to evaluate a farm's financial situation, explore alternatives, recommend management strategies, and to make informed loan decisions.

The FINPACK 2001® budget format contains notable distinctions from a typical variable cost enterprise budget.

- Crop and livestock budgets both report the number of "Family and regular hired labor hours." This practice is in contrast to making an assumption about the allocation of hired (paid) and contributed (unpaid) hours and adding the cost of the hired portion to the budget. With the exception of the vegetable and organic crop budgets, no labor costs are included in "Total Selected Cash Expense."
- In the livestock budgets, corn, hay and corn silage (potential homegrown feeds) are reported as bushels or tons fed. This practice is in contrast to assuming that all feeds are purchased and adding these costs to the budget. No costs for corn, hay, haylage, corn silage or pasture are included in "Total Selected Cash Expense."


## Using These Budgets

Each budget was generated based on a specific set of production assumptions. These assumptions are stated, generally, in the budget subtitles and footnotes. As much additional production detail as possible has been added in budget footnotes. The choice of each "typical" production system may not be appropriate for your intended use. However, it is hoped that the assumptions for each budget are sufficiently clear so that individual practices can be added or removed to appropriately model specific circumstances. The user's access to historical records or other farm specific information will much enhance the use of these budgets in decision-making.

When utilizing these budgets to determine the profitability level of various and perhaps competing enterprises, care should be used to ensure that all costs appropriate for the users' circumstances are included. For example, if most feeds for a given livestock enterprise will be purchased rather than homegrown, the cash cost of these inputs must be included in the cash expenses for the enterprise.

Livestock farms will use less purchased fertilizer than shown in this book if manure has been applied. For planning purposes, get a soil test and adjust budgets accordingly.

Specific herbicide and pesticide names have been used in this publication to facilitate accurate budgeting. Michigan State University does not endorse the listed brand name products and is not directing producers to limit management systems to these products.

## Sources of Data

The crop and livestock budgets were assembled in Winter/Spring 2000-2001 and represent an estimate of 2000-2001 conditions. Michigan State University agricultural economists estimated grain and livestock prices with assistance from county and regional Extension staff for specialized crops. Seed, fertilizer and chemical costs are based on ingredient costs from an informal survey of commercial sources.

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- Ron Bates, Extension Swine Specialist (Swine)
- Roger Betz, District Extension Farm Management Agent (Dairy, Swine)
- Roy Black, Extension Farm Management Specialist (Feeder Steers)
- Joel Cowley, Extension Beef Specialist (Cow-calf)
- Ron Goldy, District Extension Vegetable Agent (Tomatoes)
- Kevin Gould, District Extension Livestock Agent (Feeder

Steers, Stocker Calf)

- Steve Harsh, Extension Farm Management Specialist (Dairy)
- Jim Hilker, Extension Farm Management Specialist (Prices)
- Glenn Kole, District Extension Farm Management Agent (Cherries)
- Jerry Lindquist, County Extension Director (Hay and Pasture)
- Mark Longstroth, District Extension Fruit Agent (Blueberries)
- Paul Marks, Extension Agricultural Agent (Vegetables)
- Sherrill Nott, Extension Farm Management Agent (Dairy)
- Jim Nugent, Coordinator, Northwest Michigan Horticultural

Research Station (Cherries)

- Steve Poindexter, Extension Agricultural Agent (Sugar Beets)
- Joe Rook, Extension Sheep Specialist (Sheep)
- Dan Rossman, County Extension Director (Organic Crops)
- Steve Rust, Extension Beef Specialist (Feeder Steers)
- Warren Schauer, District Extension Farm Management Agent (Dairy)
- Phil Schwallier, District Extension Fruit Agent (Apples)
- Don Smucker, County Extension Director (Vegetables)
- Dennis Stein, District Extension Farm Management Agent (Barley, Oats, Navy Beans, Sugar Beets)
- Craig Thomas, District Extension Dairy Agent (Dairy)
- Eric Wittenberg, Agricultural Economics Graduate Student (Dairy)

Prices and Costs Used in 2001 Budgets

|  | Unit Cost (\$) |  |  | Unit | Cost |  | Unit | Cost (\$) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FIELD CROPS |  |  | LIVESTOCK <br> Beef - Colored <br> Beef cow - Cull | cwt | 35 | FERTILIZER |  |  |
| Barley | bu | 1.90 |  |  |  | Nitrogen - Urea | lbN | 0.25 |
| Beans - Navy | cwt | 17.90 |  |  |  | Nitrogen - Anhydrous | lbN | 0.20 |
| Corn - Grain | bu | 2.10 | Beef cow - Replacement | head | 900 | Super Phosphate | $1 \mathrm{~b} \mathrm{P}_{2} \mathrm{O}_{5}$ | 0.18 |
| Corn - Grain, Organic | bu | 4.00 | Heifer - Weaned | cwt | 85 | Potash | $\mathrm{lb} \mathrm{K}_{2} \mathrm{O}$ | 0.13 |
| Oats | bu | 1.20 | Steer - Calf (400 lb) | cwt | 93 | Lime | ton | 20.00 |
| Oats, Organic | bu | 1.50 | Steer - Feeder | cwt | 78 | SEED \& TREES |  |  |
| Soybeans | bu | 5.25 | Steer - Slaughter ( $70 \%$ choice) | cwt | 76 | Barley | bu | 6 |
| Soybeans | bu | 15.00 | Steer - Weaned | cwt | 87 | Corn - Grain | 50 lb | 90 |
| Sugar Beets | ton | 34.00 | Beef - Holsteins |  |  | Oats | lb | 0.16 |
| Wheat | bu | 2.60 | Steer - Calf | cwt | 79 | Soybeans - GM | 50 lb | 21 |
| FORAGES |  |  | Steer - Slaughter (70\% choice) | cwt | 70 | Soybeans - non GM | 50 lb | 15 |
| Barley - Silage | ton | 17 | Dairy |  |  | Wheat | bu | 7.20 |
| Corn Silage | ton | 24 | Dairy Calf - Bull | head | 80 | Apple Trees | tree | 6 |
| Hay - Alfalfa, Early | ton | 70 | Dairy Cow - Cull | cwt | 30 | Cherry Trees | tree | 7.50 |
| Hay - Alfalfa, Later | ton | 80 | Milk | cwt | 13 | Blueberry Bushes | bush | 2.50 |
| Hay - Grass | ton | 50 | Sheep | cwt | 30 | OTHER INPUTS |  |  |
| Hay - Mixed | ton | 65 | Ewes - Cull |  |  | Drying Fuel | bu | 0.25 |
| Haylage - Alfalfa | ton | 40 | Ewe-Replacement | head | 110 | Irrigation Water | acre- | 4.50 |
| Oatlage | ton | 17 | Lamb - Fall market | cwt | 70 | Interest Rate | \% | 9\% |
| Pasture - Improved | ton | 80 | Lamb - Finished | cwt | 80 | Trucking, Grain | bu | 0.15 |
| Pasture - Unimproved | ton | 40 | Ram - Replacement | head | 300 | Marketing, Grain | bu | 0.05 |
| FRUITS \& VEGETABLES |  |  | Wool - Ewe | lb | 0.25 | Milk Hauling | cwt | 0.44 |
| Apples | lb | 0.08 | Wool - Market Lamb | lb | 0.10 | Soybean Meal (48\%) | ton | 180 |
| Bell Peppers | 30 lb | 8.00 | Swine |  |  |  |  |  |
| Blueberries | lb | 0.75 | Boar - Cull | cwt | 20 |  |  |  |
| Cherries - Sweet | lb | 0.25 | Boar-Replacement | head | 600 |  |  |  |
| Cherries - Tart | lb | 0.23 | Hog - Finished | cwt | 42.00 |  |  |  |
| Pumpkin | ton | 120 | Pig - Feeder (40 lb) | head | 46.00 |  |  |  |
| Tomatoes - Fresh mkt | 20 lb | 10 | Pig - Weaned | head | 26.50 |  |  |  |
|  |  |  | Sow - Cull | cwt | 26.00 |  |  |  |
|  |  |  | Sow - Replacement | head | 200 |  |  |  |



Corn Grain (following legume)
High Yield Goal
Conventional Cultural Practices

Quantity Unit $\quad$| Price per | Total per |
| :--- | :--- | :--- |

| REVENUE SOURCES |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| TOTAL REVENUE |  |  |  | \$ | 315.00 |
| CASH EXPENSES |  |  |  |  |  |
| Seed | 30,000 kernel | \$ | 90.00 | \$ | 33.75 |
| Fertilizer ${ }^{1}$ |  |  |  |  |  |
| Nitrogen | 150 lbs | \$ | 0.20 | \$ | 30.00 |
| $\mathrm{P}_{2} \mathrm{O}_{5}$ | 55 lbs | \$ | 0.18 | \$ | 9.90 |
| $\mathrm{K}_{2} \mathrm{O}$ | 85 lbs | \$ | 0.13 | \$ | 11.05 |
| Lime |  |  |  | \$ | 8.00 |
| Herbicides ${ }^{2}$ |  |  |  | \$ | 29.25 |
| Insecticides ${ }^{3}$ | 0 lbs | \$ | 2.50 | \$ | - |
| Drying | 150 bu | \$ | 0.25 | \$ | 37.50 |
| Fuel, oil, lube ${ }^{4}$ | 5 gal | \$ | 1.73 | \$ | 8.63 |
| Repairs |  |  |  | \$ | 22.00 |
| Utilities |  |  |  | \$ | 6.00 |
| Trucking | 150 bu | \$ | 0.15 | \$ | 22.50 |
| Marketing | 150 bu | \$ | 0.05 | \$ | 7.50 |
| TOTAL SELECTED CASH EXPENSES |  |  |  | \$ | 226.08 |
| REVENUE ABOVE SELECTED CASH EXPENSES |  |  |  | \$ | 88.93 |
| Family and regular hired labor, hours |  |  |  |  | 3.6 |

Corn grain equivalent, bu 150.0

1 Assumes 35 lb N contribution from previous crop and soil test indicating $50 \mathrm{lbs} /$ acre available phosphorus and $150 \mathrm{lbs} /$ acre available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more detail.
2 Assumes post-emergence application of 1 pt Buctril and 1 pt 4L atrazine; and preemergence grass control from 1.3 pt Dual II magnum.

3 Assumes no insecticide treatment required for corn rootworm because of crop rotation. 4 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.


Corn Grain (following corn)
High Yield Goal
Conventional Cultural Practices


Corn grain equivalent, bu
135.0

1 Assumes no N contribution from previous crop and soil test indicating $50 \mathrm{lbs} /$ acre available phosphorus and $150 \mathrm{lbs} /$ acre available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more detail.
2 Assumes post-emergence application of 1 pt Buctril and 1 pt 4L atrazine; and preemergence grass control from 1.3 pt Dual II magnum.
3 Assumes treatment for corn rootworm with Counter insecticide.
4 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.


## Corn Grain (following legume)

Mid-Level Yield Goal
Conventional Cultural Practices

|  |  | Price per | Total per |
| ---: | ---: | ---: | ---: |
| Quantity | Unit | Unit | Acre |


| REVENUE SOURCES Grain | 120 | bu | \$ | 2.10 | \$ | 252.00 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TOTAL REVENUE |  |  |  |  | \$ | 252.00 |
| CASH EXPENSES |  |  |  |  |  |  |
| Seed | 26,000 kernel |  | \$ | 90.00 | \$ | 29.25 |
| Fertilizer ${ }^{1}$ |  |  |  |  |  |  |
| Nitrogen | 105 | lbs | \$ | 0.20 | \$ | 21.00 |
| $\mathrm{P}_{2} \mathrm{O}_{5}$ | 45 | lbs | \$ | 0.18 | \$ | 8.10 |
| $\mathrm{K}_{2} \mathrm{O}$ | 70 | lbs | \$ | 0.13 | \$ | 9.10 |
| Lime |  |  |  |  | \$ | 8.00 |
| Herbicides ${ }^{2}$ |  |  |  |  | \$ | 29.25 |
| Insecticides ${ }^{3}$ |  |  |  |  |  |  |
| Drying | 120 | bu | \$ | 0.25 | \$ | 30.00 |
| Fuel, oil, lube ${ }^{4}$ | 5 |  | \$ | 1.73 | \$ | 8.63 |
| Repairs |  |  |  |  | \$ | 22.00 |
| Utilities |  | bu |  |  | \$ | 5.50 |
| Trucking | 120 |  | \$ | 0.15 | \$ | 18.00 |
| Marketing | 120 | bu | \$ | 0.05 | \$ | 6.00 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 194.83 |
| REVENUE ABOVE SELECTED CASH EXPENSES |  |  |  |  | \$ | 57.18 |
| Family and regular hired labor, hours |  |  |  |  |  | 3.5 |
| Corn grain equivalent, bu |  |  |  |  |  | 120.0 |

[^0]

1 Assumes no N contribution from previous crop and soil test indicating $50 \mathrm{lbs} /$ acre available phosphorus and $150 \mathrm{lbs} /$ acre available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more detail.
2 Assumes post-emergence application of 1 pt Buctril and 1 pt 4L atrazine; and preemergence grass control from 1.3 pt Dual II magnum.
3 Assumes treatment for corn rootworm with Counter insecticide.
4 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.


Corn Grain, Organic (following legume)
Realistic Yield Goal
ORGANIC Cultural Practices

|  | Quantity | Price per |  |  |  | Total per |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Unit |  | Unit |  | Acre |
| REVENUE SOURCES |  |  |  |  |  |  |
| Grain | 100 | bu | \$ | 4.00 | \$ | 400.00 |
| TOTAL REVENUE |  |  |  |  | \$ | 400.00 |
| CASH EXPENSES |  |  |  |  |  |  |
| Seed | 25,000 | kernel | \$ | 90.00 | \$ | 28.13 |
| Fertilizer ${ }^{1}$ |  |  |  |  |  |  |
| Compost ${ }^{2}$ | 3000 | 1 b | \$ | 0.02 | \$ | 60.00 |
| Cover crop (previous year | 12 | lb | \$ | 1.25 | \$ | 15.00 |
| Lime |  |  |  |  | \$ | 8.00 |
| Drying | 100 | bu | \$ | 0.25 | \$ | 25.00 |
| Fuel, oil, lube ${ }^{3}$ | 7 | gal | \$ | 1.73 |  | 12.08 |
| Repairs |  |  |  |  |  | 22.00 |
| Labor for weeding ${ }^{4}$ | 5 | hr | \$ | 10.00 | \$ | 50.00 |
| Utilities |  |  |  |  | \$ | 6.00 |
| Trucking | 100 | bu | \$ | 0.30 | \$ | 30.00 |
| Marketing | 100 | bu | \$ | 0.10 | \$ | 10.00 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 266.20 |
| REVENUE ABOVE SELECTED CASH EXPENSES |  |  |  |  | \$ | 133.80 |
| Family and regular hired labor, hours |  |  |  |  |  | 3.4 |
| Corn grain equivalent, bu |  |  |  |  |  | 100 |
| 1 Assumes 50 lb N contribution from previous crop and soil test indicating $50 \mathrm{lbs} / \mathrm{acre}$ available phosphorus and $150 \mathrm{lbs} /$ acre available potassium. Refer to Michigan State University Extension bulletin E-2567, 1995, "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more detail. 2 Compost nutrient analysis: $2-5-3$. |  |  |  |  |  |  |
| 3 Includes a \$1.50 per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials. <br> 4 Weed control with rotary hoeing, row cultivation and labor hired for hand weeding. |  |  |  |  |  |  |

Soybeans

|  | Quantity | Unit |  | rice per Unit |  | Total per Acre |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| REVENUE SOURCES |  |  |  |  |  |  |
| Soybeans | 50 | bu | \$ | 5.25 | \$ | 262.50 |
| TOTAL REVENUE |  |  |  |  | \$ | 262.50 |
| CASH EXPENSES |  |  |  |  |  |  |
| Seed | 200,000 | seeds | \$ | 15.00 | \$ | 21.43 |
| Fertilizer ${ }^{1}$ |  |  |  |  |  |  |
| $\mathrm{P}_{2} \mathrm{O}_{5}$ | 40 | lbs | \$ | 0.18 | \$ | 7.20 |
| $\mathrm{K}_{2} \mathrm{O}$ | 105 | lbs | \$ | 0.13 | \$ | 13.65 |
| Lime |  |  |  |  | \$ | 8.00 |
| Herbicides ${ }^{2}$ | 3 | pint | \$ | 5.00 | \$ | 15.00 |
| Fuel, oil, lube ${ }^{3}$ | 4.25 | gal | \$ | 1.73 | \$ | 7.33 |
| Repairs |  |  |  |  | \$ | 18.00 |
| Utilities |  |  |  |  | \$ | 1.50 |
| Trucking | 50 | bu | \$ | 0.15 | \$ | 7.50 |
| Marketing | 50 | bu | \$ | 0.05 | \$ | 2.50 |

## TOTAL SELECTED CASH EXPENSES \$ 102.11 REVENUE ABOVE SELECTED CASH EXPENSES \$ 160.39

Family and regular hired labor, hours 3.2

[^1]

Soybeans
High Yield Goal No-Till, GM

|  |  | Price per <br> Unantity | Total per <br> Unit |
| ---: | ---: | ---: | ---: |
| Unit |  |  |  |

REVENUE SOURCES

| Soybeans | 50 | bu $\$$ | 5.25 | $\$$ | 262.50 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| TOTAL REVENUE |  |  |  | $\$$ | $\mathbf{2 6 2 . 5 0}$ |

CASH EXPENSES

| Seed | 200,000 seeds $\$$ | 21.00 | $\$$ | 30.00 |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Fertilizer $^{1}$ |  |  |  |  |  |
| $\mathrm{P}_{2} \mathrm{O}_{5}$ | 40 | lbs $\$$ | 0.18 | $\$$ | 7.20 |
| $\mathrm{~K}_{2} \mathrm{O}$ | 105 | lbs $\$$ | 0.13 | $\$$ | 13.65 |
| $\quad$ Lime |  |  |  | $\$$ | 8.00 |
| Herbicides ${ }^{2}$ | 1 | quart | $\$$ | 9.00 | $\$$ |
| Fuel, oil, lube $^{3}$ | 2.5 gallon $\$$ | 1.73 | $\$$ | 4.00 |  |
| Repairs |  |  |  | $\$$ | 10.00 |
| Utilities |  |  |  | $\$$ | 1.50 |
| Trucking | 50 | bu $\$$ | 0.15 | $\$$ | 7.50 |
| Marketing | 50 | bu $\$$ | 0.05 | $\$$ | 2.50 |

## TOTAL SELECTED CASH EXPENSES \$ 93.66 REVENUE ABOVE SELECTED CASH EXPENSES \$ 168.84

Family and regular hired labor, hours 2.2

[^2]

Soybeans
Mid-Yield Goal
Conventional Culture, Non-GM

|  | Quantity | Unit | Price per |  |  | Total per Acre |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Unit |  |  |
| REVENUE SOURCES |  |  |  |  |  |  |
| Soybeans | 40 | bu | \$ | 5.25 | \$ | 210.00 |
| TOTAL REVENUE |  |  |  |  | \$ | 210.00 |
| CASH EXPENSES |  |  |  |  |  |  |
| Seed | 180,000 | seeds | \$ | 15.00 | \$ | 19.29 |
| Fertilizer ${ }^{1}$ |  |  |  |  |  |  |
| $\mathrm{P}_{2} \mathrm{O}_{5}$ | 30 | lbs | \$ | 0.18 | \$ | 5.40 |
| $\mathrm{K}_{2} \mathrm{O}$ | 90 | lbs | \$ | 0.13 | \$ | 11.70 |
| Lime |  |  |  |  | \$ | 7.50 |
| Herbicides ${ }^{2}$ | 3 | pint | \$ | 5.00 | \$ | 15.00 |
| Fuel, oil, lube ${ }^{3}$ | 4.25 | gal |  | \$1.50 | \$ | 6.38 |
| Repairs |  |  |  |  | \$ | 18.00 |
| Utilities |  |  |  |  | \$ | 1.50 |
| Trucking | 40 | bu | \$ | 0.15 | \$ | 6.00 |
| Marketing | 40 | bu | \$ | 0.05 | \$ | 2.00 |

## TOTAL SELECTED CASH EXPENSES \$ 92.76 REVENUE ABOVE SELECTED CASH EXPENSES \$ 117.24

Family and regular hired labor, hours 3.0

[^3]

Soybeans
Mid-Yield Goal
No-Till, GM


| TOTAL SELECTED CASH EXPENSES | $\$$ | 83.85 |
| :--- | ---: | ---: |
| REVENUE ABOVE SELECTED CASH EXPENSES | $\$$ | 126.15 |
| Family and regular hired labor, hours |  | 2.0 |

1 Assumes soil test indicating $50 \mathrm{lbs} /$ acre available phosphorus and $150 \mathrm{lbs} /$ acre available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000,
"Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more detail.
2 Assumes 1 quart Roundup Ultra post-emergence.
3 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.

|  | Wheat (without legume seeding) <br> High Yield Goal <br> Conventional Cultural Practices |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Unit |  | ce per Unit |  | Total per $\qquad$ Acre |
| REVENUE SOURCES |  |  |  |  |  |  |
| Grain | 90 | bu |  | \$2.60 | \$ | 234.00 |
| TOTAL REVENU |  |  |  |  | \$ | 234.00 |
| CASH EXPENSES |  |  |  |  |  |  |
| Seed | 120 | lbs | \$ | 0.15 | \$ | 18.00 |
| Fertilizer ${ }^{1}$ |  |  |  |  |  |  |
| Nitrogen | 110 | lbs | \$ | 0.25 | \$ | 27.50 |
| Phosphate | 55 | lbs | \$ | 0.18 | \$ | 9.90 |
| Potash | 70 | lbs | \$ | 0.13 | \$ | 9.10 |
| Lime |  |  |  |  | \$ | 8.00 |
| Herbicides ${ }^{2}$ | 1 | pint | \$ | 1.65 | \$ | 6.60 |
| Insecticides ${ }^{3}$ | 4 | oz | \$ | 2.58 | \$ | 10.31 |
| Fuel, oil, lube ${ }^{4}$ | 4 | gal | \$ | 1.73 | \$ | 6.90 |
| Repairs |  |  |  |  | \$ | 15.00 |
| Utilities |  |  |  |  | \$ | 2.00 |
| Trucking | 90 | bu | \$ | 0.15 | \$ | 13.50 |
| Marketing | 90 | bu | \$ | 0.05 | \$ | 4.50 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 131.31 |
| REVENUE ABOVE SELECTED CASH EXPENSES |  |  |  |  |  | 102.69 |
| Family and regular hired labor, hours |  |  |  |  |  | 3.5 |
| Corn grain equivalent, bu |  |  |  |  |  | 99 |

[^4]|  | Wheat (without legume seeding) <br> Mid-Level Yield Goal Conventional Cultural Practices |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Unit | Price per Unit |  | Total per Acre |
| REVENUE SOURCES |  |  |  |  |  |
| Grain | 70 | bu | \$2.60 | \$ | 182.00 |
| TOTAL REVENUE |  |  |  | \$ | 182.00 |
| CASH EXPENSES |  |  |  |  |  |
| Seed | 100 | lbs | \$ 0.15 | \$ | 15.00 |
| Fertilizer ${ }^{1}$ |  |  |  |  |  |
| Nitrogen | 75 | Ibs | \$ 0.25 | \$ | 18.75 |
| Phosphate | 45 | lbs | \$ 0.18 | \$ | 8.10 |
| Potash | 60 | lbs | \$ 0.13 | \$ | 7.80 |
| Lime |  |  |  | \$ | 8.00 |
| Herbicides ${ }^{2}$ | 1 | pint | \$ 1.65 | \$ | 1.65 |
| Insecticides |  |  |  |  |  |
| Fuel, oil, lube ${ }^{3}$ | 4 | gal | \$ 1.73 | \$ | 6.90 |
| Repairs |  |  |  | \$ | 15.00 |
| Utilities |  |  |  | \$ | 2.00 |
| Trucking | 70 | bu | \$ 0.15 | \$ | 10.50 |
| Marketing | 70 | bu | \$ 0.05 | \$ | 3.50 |
| TOTAL SELECTED CASH EXPENSES |  |  |  | \$ | 97.20 |
| REVENUE ABOVE SELECTED CASH EXPENSES |  |  |  | \$ | 84.80 |
| Family and regular hired labor, hours |  |  |  |  | 3.5 |
| Corn grain equivalent, bu |  |  |  |  | 77 |
| 1 Assumes soil test indicating 50 lbs/acre available phosphorus and $150 \mathrm{lbs} /$ acre available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more detail. <br> 2 Assumes weed control with 1 pint of 2,4-D. |  |  |  |  |  |
|  |  |  |  |  |  |
| 3 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials. |  |  |  |  |  |


|  | Barley (w <br> High Yield Goa | hout |  | ne se |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Unit |  | eper Unit |  | Total per Acre |
| REVENUE SOURCE |  |  |  |  |  |  |
| Grain | 90 | bu | \$ | 1.90 | \$ | 171.00 |
| TOTAL REVENUE |  |  |  |  | \$ | 171.00 |
| CASH EXPENSES |  |  |  |  |  |  |
| Seed | 120 | 1 b | \$ | 0.13 | \$ | 15.00 |
| Fertilizer ${ }^{1}$ |  |  |  |  |  |  |
| Nitrogen | 60 | 1 b | \$ | 0.25 | \$ | 15.00 |
| Phosphate | 60 | 1 b | \$ | 0.18 | \$ | 10.80 |
| Potash | 110 | lb | \$ | 0.13 | \$ | 14.30 |
| Lime |  |  |  |  | \$ | 7.50 |
| Herbicides ${ }^{2}$ | 1 | pint | \$ | 1.65 | \$ | 1.65 |
| Fuel, oil, lube ${ }^{3}$ | 4 | gal | \$ | 1.73 | \$ | 6.90 |
| Equipment repairs |  |  |  |  | \$ | 15.00 |
| Utilities, phone |  |  |  |  | \$ | 1.65 |
| Trucking | 90 | bu | \$ | 0.15 | \$ | 13.50 |
| Marketing | 90 | bu | \$ | 0.05 | \$ | 4.50 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 105.80 |
| REVENUE ABOVE SELECTED CASH EXPENSES |  |  |  |  | \$ | 65.20 |
| Family and regular hired labor, hours |  |  |  |  |  | 3.0 |
| Corn grain equivalent, bu |  |  |  |  |  | 72.0 |

1 Assumes soil test indicating $50 \mathrm{lbs} /$ acre available phosphorus and $150 \mathrm{lbs} /$ acre available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more d
2 Assumes weed control with 1 pint of 2,4-D.
3 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.


1 Assumes soil test indicating $50 \mathrm{lbs} /$ acre available phosphorus and $150 \mathrm{lbs} /$ acre available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more d
2 Assumes weed control with 1 pint of 2,4-D.
3 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.


Oats
High Yield Goal

|  |  | Price per | Total per |
| :--- | ---: | ---: | ---: |
| Quantity | Unit | Unit |  |


| REVENUE SOURCES |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grain | 90 | bu | \$ | 1.20 | \$ | 108.00 |
| TOTAL REVENUE |  |  |  |  | \$ | 108.00 |
| CASH EXPENSES |  |  |  |  |  |  |
| Seed | 80 | lb | \$ | 0.25 | \$ | 20.00 |
| Fertilizer ${ }^{1}$ |  |  |  |  |  |  |
| Nitrogen | 65 | lb | \$ | 0.25 | \$ | 16.25 |
| Phosphate | 24 | lb | \$ | 0.18 | \$ | 4.32 |
| Potash | 40 | lb | \$ | 0.13 | \$ | 5.20 |
| Lime |  |  |  |  | \$ | 7.50 |
| Herbicides ${ }^{2}$ | 0.75 | pint | \$ | 1.65 | \$ | 1.24 |
| Fuel, oil, lube ${ }^{3}$ | 4 | gal | \$ | 1.73 | \$ | 6.90 |
| Equipment repairs |  |  |  |  | \$ | 15.00 |
| Utilities, phone |  |  |  |  | \$ | 1.65 |
| Trucking | 90 | bu | \$ | 0.15 | \$ | 13.50 |
| Marketing | 90 | bu | \$ | 0.05 | \$ | 4.50 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 96.06 |
| REVENUE ABOVE SELECTED CASH EXPENSES |  |  |  |  | \$ | 11.94 |
| Family and regular hired labor, hours |  |  |  |  |  | 3.0 |
| Corn grain equivalent, bu |  |  |  |  |  | 45.0 |

1 Assumes soil test indicating $50 \mathrm{lbs} /$ acre available phosphorus and $150 \mathrm{lbs} /$ acre available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State
Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more d
2 Assumes weed control with 1 pint of 2,4-D.
3 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.


## Oats

Mid-Level Yield Goal

|  | Quantity | Unit |  | Unit |  | Acre |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| REVENUE SOURCES |  |  |  |  |  |  |
| Grain | 65 | bu | \$ | 1.20 | \$ | 78.00 |
| TOTAL REVENUE |  |  |  |  | \$ | 78.00 |
| CASH EXPENSES |  |  |  |  |  |  |
| Seed | 65 | lb | \$ | 0.25 | \$ | 16.25 |
| Fertilizer ${ }^{1}$ |  |  |  |  |  |  |
| Nitrogen | 40 | lb | \$ | 0.25 | \$ | 10.00 |
| Phosphate | 12 | lb | \$ | 0.18 | \$ | 2.16 |
| Potash | 30 | lb | \$ | 0.13 | \$ | 3.90 |
| Lime |  |  |  |  | \$ | 7.50 |
| Herbicides ${ }^{2}$ | 0.75 | pint | \$ | 1.65 | \$ | 1.24 |
| Fuel, oil, lube ${ }^{3}$ | 4 | gal | \$ | 1.73 | \$ | 6.90 |
| Equipment repairs |  |  |  |  | \$ | 15.00 |
| Utilities, phone |  |  |  |  | \$ | 1.65 |
| Trucking | 65 | bu | \$ | 0.15 | \$ | 9.75 |
| Marketing | 65 | bu | \$ | 0.05 | \$ | 3.25 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 77.60 |
| REVENUE ABOVE SELECTED CASH EXPENSES |  |  |  |  | \$ | 0.40 |
| Family and regular hired labor, hours |  |  |  |  |  | 3.0 |
| Corn grain equivalent, bu |  |  |  |  |  | 32.5 |

1 Assumes soil test indicating $50 \mathrm{lbs} /$ acre available phosphorus and $150 \mathrm{lbs} / \mathrm{acre}$ available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more d

2 Assumes weed control with 1 pint of 2,4-D.
3 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.

|  | Quantity | Unit |  | rice per Unit |  | Total per Acre |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| REVENUE SOURCES |  |  |  |  |  |  |
| Soybeans, cert organic | 27 | bu |  | \$15.00 | \$ | 405.00 |
| Soybeans, com grade | 3 | bu |  | \$5.25 | \$ | 15.75 |
| TOTAL REVENUE |  |  |  |  | \$ | 420.75 |
| CASH EXPENSES |  |  |  |  |  |  |
| Seed | 175,000 | kernel | \$ | 15.00 | \$ | 18.75 |
| Fertilizer ${ }^{1}$ |  |  |  |  |  |  |
| Potassium sulfate | 100 | 1 b | \$ | 0.15 | \$ | 15.00 |
| Lime |  |  |  |  | \$ | 8.00 |
| Fuel, oil, lube ${ }^{2}$ | 5 | gal | \$ | 1.73 | \$ | 8.63 |
| Repairs |  |  |  |  | \$ | 18.00 |
| Labor for weeding ${ }^{3}$ | 5 | hr | \$ | 10.00 | \$ | 50.00 |
| Utilities |  |  |  |  | \$ | 1.50 |
| Trucking | 27 | bu | \$ | 0.30 | \$ | 8.10 |
| Marketing | 27 | bu | \$ | 0.10 | \$ | 2.70 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 130.68 |
| REVENUE ABOVE SELECTED CASH EXPENSES |  |  |  |  | \$ | 290.08 |
| Family and regular hired labor, hours |  |  |  |  |  | 3.2 |

1 Assumes soil test indicating $50 \mathrm{lbs} /$ acre available phosphorus and $150 \mathrm{lbs} /$ acre available
potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more detail.

2 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.
3 Weed control with rotary hoeing, row cultivation and labor hired for hand weeding.



Sugar Beets

Quantity Unit $\begin{array}{cc}\text { Price per } & \text { Total per }\end{array}$

| REVENUE SOURCES |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sugar beets | 19 | ton | \$ | 34.00 | \$ | 646.00 |
| TOTAL REVENUE |  |  |  |  | \$ | 646.00 |
| CASH EXPENSES |  |  |  |  |  |  |
| Seed/Pelletizing |  |  |  |  | \$ | 35.00 |
| Fertilizer |  |  |  |  |  |  |
| Nitrogen | 120 | lb | \$ | 0.25 | \$ | 30.00 |
| Phosphate | 90 | lb | \$ | 0.18 | \$ | 16.20 |
| Potash | 200 | lb | \$ | 0.13 | \$ | 26.00 |
| Herbicides |  |  |  |  | \$ | 87.00 |
| Fungicides ${ }^{1}$ |  |  |  |  | \$ | - |
| Fuel, oil, lube ${ }^{2}$ | 14 | gal | \$ | 1.73 | \$ | 24.15 |
| Equipment repairs |  |  |  |  | \$ | 35.00 |
| Custom harvesting |  |  |  |  | \$ | 25.00 |
| Hoeing | 2 | hours | \$ | 10.00 | \$ | 20.00 |
| Utilities, phone |  |  |  |  | \$ | 2.00 |
| Trucking | 19 | ton | \$ | 3.50 | \$ | 66.50 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 366.85 |
| REVENUE ABOVE SELECTED CASH EXPENSES |  |  |  |  | \$ | 279.15 |
| Family and regular hired labor, hours |  |  |  |  |  | 12.0 |

1 Depending upon the climatic year, this crop may benefit from applications of insect and disease control materials at an additional cost.

2 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.

| Cir Beans, Navy |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Price per |  |  |  | Total per Acre |
|  |  | Unit |  | Unit |  |  |
| REVENUE SOURCES |  |  |  |  |  |  |
| Navy beans | 19 | cwt | \$ | 16.00 | \$ | 304.00 |
| TOTAL REVENUE |  |  |  |  | \$ | 304.00 |
| CASH EXPENSES |  |  |  |  |  |  |
| Seed \& treatment |  |  |  |  | \$ | 37.50 |
| Fertilizer |  |  |  |  |  |  |
| Nitrogen | 50 | lb | \$ | 0.25 | \$ | 12.50 |
| Phosphate | 60 | lb | \$ | 0.18 | \$ | 10.80 |
| Potash | 120 | lb | \$ | 0.13 | \$ | 15.60 |
| Herbicides |  |  |  |  | \$ | 26.50 |
| Fungicides/Insecticides ${ }^{1}$ |  |  |  |  | \$ | - |
| Fuel, oil, lube ${ }^{2}$ | 8.5 | gal | \$ | 1.73 | \$ | 14.66 |
| Equipment repairs |  |  |  |  | \$ | 20.00 |
| Hoeing | 1.2 | hours | \$ | 10.00 | \$ | 12.00 |
| Utilities, phone |  |  |  |  | \$ | 2.00 |
| Trucking | 19 | cwt | \$ | 0.25 | \$ | 4.75 |
| Marketing | 19 | cwt | \$ | 0.15 | \$ | 2.85 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 159.16 |
| REVENUE ABOVE SELECTED CASH EXPENSES |  |  |  |  | \$ | 144.84 |
| Family and regular hired labor, hours |  |  |  |  |  | 7.0 |
| 1 Depending upon the climatic year, some varieties may benefit from applications of insect and disease control materials at an additional cost. |  |  |  |  |  |  |
| 2 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials. |  |  |  |  |  |  |

Depending upon the climatic year, some varieties may benefit from applications of insect and

2 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.


Corn Silage (following legume)
Mid-Level Yield Goal
Conventional Cultural Practices

|  |  | Price per | Total per |
| :--- | ---: | ---: | ---: |
| Quantity | Unit | Unit | Acre |


| REVENUE SOURCES |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Silage | 20 | ton | \$ | 24.00 | \$ | 480.00 |
| TOTAL REVENUE |  |  |  |  | \$ | 480.00 |
| CASH EXPENSES |  |  |  |  |  |  |
| Seed | 26,000 | kernel | \$ | 90.00 | \$ | 29.25 |
| Fertilizer ${ }^{1}$ |  |  |  |  |  |  |
| Nitrogen | 105 | lbs | \$ | 0.20 | \$ | 21.00 |
| $\mathrm{P}_{2} \mathrm{O}_{5}$ | 65 | lbs | \$ | 0.18 | \$ | 11.70 |
| $\mathrm{K}_{2} \mathrm{O}$ | 200 | lbs | \$ | 0.13 | \$ | 26.00 |
| Lime |  |  |  |  | \$ | 8.00 |
| Herbicides ${ }^{2}$ |  |  | \$ | 1.73 | \$ | 29.25 |
| Insecticides ${ }^{3}$ |  |  |  |  | \$ | - |
| NPN Additive | 160 | lbs | \$ | 0.20 | \$ | 32.00 |
| Fuel, oil, lube ${ }^{4}$ | 7.5 | gal | \$ | 1.73 | \$ | 12.94 |
| Repairs |  |  |  |  | \$ | 28.00 |
| Utilities |  |  |  |  | \$ | 5.50 |
| Trucking | 20 | ton | \$ | 1.50 | \$ | 30.00 |
| TOTAL SELECTED CASH EXPENSES \$ |  |  |  |  |  | 233.64 |
| REVENUE ABOVE S | ELECTE | D CASH |  | PENSES | \$ | 246.36 |

Family and regular hired labor, hours urs 7.0

1 Assumes 35 lb N contribution from previous crop; and soil test indicating $50 \mathrm{lbs} /$ acre available phosphorus and $150 \mathrm{lbs} / \mathrm{acre}$ available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more detail.

2 Assumes post-emergence application of 1 pt Buctril and 1 pt 4L atrazine; and preemergence grass control from 1.3 pt Dual II magnum.

3 Assumes no insecticide treatment required for rootworm because of crop rotation.
4 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.


Corn Silage (following corn)
Mid-Level Yield Goal
Conventional Cultural Practices

|  |  | Price per | Total per |
| ---: | ---: | ---: | ---: |
| Quantity | Unit | Unit | Acre |


| REVENUE SOURCE <br> Silage | 18 | bu | \$ | 24.00 | \$ | 432.00 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TOTAL REVENUE |  |  |  |  | \$ | 432.00 |
| CASH EXPENSES |  |  |  |  |  |  |
| Seed | 26,000 kernel |  | \$ | 90.00 | \$ | 29.25 |
| Fertilizer ${ }^{1}$ |  |  |  |  |  |  |
| Nitrogen | 120 | lbs | \$ | 0.20 | \$ | 24.00 |
| $\mathrm{P}_{2} \mathrm{O}_{5}$ | 60 | lbs | \$ | 0.18 | \$ | 10.80 |
| $\mathrm{K}_{2} \mathrm{O}$ | 180 | lbs | \$ | 0.13 | \$ | 23.40 |
| Lime |  |  |  |  | \$ | 8.00 |
| Herbicides ${ }^{2}$ |  |  |  |  | \$ | 29.25 |
| Insecticides ${ }^{3}$ | 5 | lbs | \$ | 2.50 | \$ | 12.50 |
| NPN Additive | 144 | lbs | \$ | 0.20 | \$ | 28.80 |
| Fuel, oil, lube ${ }^{4}$ | 7 | gal | \$ | 1.73 | \$ | 12.08 |
| Repairs |  |  |  |  | \$ | 28.00 |
| Utilities |  |  |  |  | \$ | 5.50 |
| Trucking | 18 |  | \$ | 1.50 | \$ | 27.00 |
| REVENUE ABOVE SELECTED CASH EXPENSES\$\$ |  |  |  |  |  | 238.58 |
|  |  |  |  |  |  | 193.43 |
| Family and regular hired labor, hours |  |  |  |  |  | 7.0 |

[^5] cover cost of oil and lubrication materials.


1 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.
2 Assumes $88 \%$ moisture.


1 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.
2 Assumes 88\% moisture.


Hay, Alfalfa
Four Cut System 1,000 Lb Round Bales

|  |  | Price per | Total per |
| :--- | ---: | ---: | ---: |
| Quantity | Unit | Unit | Acre |


| REVENUE SOURCES |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alfalfa hay | 6 | ton | \$ | 80.00 | \$ | 480 |
| TOTAL REVENUE |  |  |  |  | \$ | 480.00 |
| CASH EXPENSES |  |  |  |  |  |  |
| Fertilizer |  |  |  |  |  |  |
| Phosphate | 80 | 1 l | \$ | 0.18 | \$ | 14.40 |
| Potash | 300 | 16 | \$ | 0.13 | \$ | 39.00 |
| Insecticides |  |  |  |  | \$ | 8.00 |
| Twine, wrap | 12 | bales | \$ | 1.50 | \$ | 18.00 |
| Fuel, oil, lube ${ }^{1}$ | 8 | gal | \$ | 1.73 | \$ | 13.80 |
| Equipment repairs |  |  |  |  | \$ | 33.70 |
| Utilities, phone |  |  |  |  | \$ | 1.50 |
| Transportation | 6 | ton | \$ | 3.00 | \$ | 18.00 |

## TOTAL SELECTED CASH EXPENSES \$ 146.40 REVENUE ABOVE SELECTED CASH EXPENSES \$ 333.60 <br> Family and regular hired labor, hours ${ }^{2}$ <br> 7.0 <br> Dry hay equivalent, tons ${ }^{3}$ <br> ..... 6.0

1 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.

2 Labor hours required are highly influenced by the chosen harvest system.
3 Assumes 88\% moisture.


Hay, Alfalfa
Three Cut System 1,000 Lb Round Bales

|  |  | Price per | Total per |
| :--- | ---: | ---: | ---: |
| Quantity | Unit | Unit | Acre |

revenue sources

| Alfalfa hay | 4 | ton $\$ 80.00$ | $\$$ | 320 |
| :--- | :--- | :--- | :--- | :--- | :--- |

TOTAL REVENUE \$ 320.00
CASH EXPENSES
Fertilizer

| Phosphate | 50 | lb | \$ | 0.18 | \$ | 9.00 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Potash | 240 | lb | \$ | 0.13 | \$ | 31.20 |
| Insecticides |  |  |  |  | \$ | 4.00 |
| Twine, wrap | 8 | bales | \$ | 1.50 | \$ | 12.00 |
| Fuel, oil, lube ${ }^{1}$ | 6 | gal | \$ | 1.73 | \$ | 10.35 |
| Equipment repairs |  |  |  |  | \$ | 25.90 |
| Utilities, phone |  |  |  |  | \$ | 1.50 |
| Transportation | 4 | ton | \$ | 3.00 | \$ | 12.00 |

TOTAL SELECTED CASH EXPENSES

REVENUE ABOVE SELECTED CASH EXPENSES \$ 214.05

Family and regular hired labor, hours ${ }^{2}$

Dry hay equivalent, tons ${ }^{3} \quad 4.0$
1 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.

2 Labor hours required are highly influenced by the chosen harvest system.
3 Assumes 88\% moisture.


|  | Quantity | Price per <br> Unit <br> Unit |  |  | Total per Acre |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| REVENUE SOURCES |  |  |  |  |  |  |
| Hay | 1 | ton | \$ | 70.00 | \$ | 70.00 |
| Oatlage | 2 | ton | \$ | 17.00 | \$ | 34.00 |
| TOTAL REVENUE |  |  |  |  | \$ | 104.00 |
| CASH EXPENSES |  |  |  |  |  |  |
| Seed |  |  |  |  |  |  |
| Alfalfa | 15 | lb | \$ | 3.50 | \$ | 52.50 |
| Oats | 1 | bu | \$ | 5.00 | \$ | 5.00 |
| Fertilizer |  |  |  |  |  |  |
| Nitrogen | 30 | lb | \$ | 0.25 | \$ | 7.50 |
| Phosphate | 40 | lb | \$ | 0.18 | \$ | 7.20 |
| Potash | 60 | lb | \$ | 1.73 | \$ | 103.50 |
| Lime | 2 | ton | \$ | 20.00 | \$ | 40.00 |
| Insecticides |  |  |  |  | \$ | 9.00 |
| Fuel, oil, lube ${ }^{1}$ | 5 | gal |  | \$1.73 | \$ | 8.63 |
| Equipment repairs |  |  |  |  | \$ | 20.00 |
| Utilities, phone |  |  |  |  | \$ | 0.50 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 253.83 |
| REVENUE ABOVE SELECTED CASH EXPENSES |  |  |  |  | \$ | (149.83) |
| Family and regular hired labor, hours |  |  |  |  |  | 6.5 |
| Dry hay equivalent, tons ${ }^{2}$ |  |  |  |  |  | 6.8 |

[^6]

1 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.

2 Labor hours required are highly influenced by the chosen harvest system.
3 Assumes 88\% moisture.

## Pasture

Improved Grass/Legume, Intensively Grazed


## Pasture

Unimproved, Continuously Grazed

REVENUE SOURCES
Grass/Legume ${ }^{1}$
3 ton \$ 65.00 \$
195.00
total revenue
$\$ 195.00$
CASH EXPENSES
Fertilizer

| Nitrogen | 100 | lb | $\$$ | 0.25 | $\$$ |
| :--- | ---: | ---: | ---: | ---: | ---: |
|  | 30 | lb | $\$$ | 0.18 | $\$$ |
| Phosphate | 50 | lb | $\$$ | 0.13 | $\$$ |
| Potash | 2 | gal | $\$ 1.73$ | $\$$ | 6.50 |
| Fuel, oil, lube |  | $\$ .45$ |  |  |  |
| Equipment repairs |  |  |  | $\$$ | 5.40 |
| Fence repairs |  |  |  | $\$$ | 2.00 |
| Water system repairs |  |  |  | $\$$ | 1.00 |
| Utilities, phone |  |  |  | $\$$ | 0.50 |

TOTAL SELECTED CASH EXPENSES \$ 49.25

REVENUE ABOVE SELECTED CASH EXPENSES\$ 145.75

Family and regular hired labor, hours 3.0
Dry hay equivalent, tons ${ }^{3}$3.4

1 Tonnage harvested is $100 \%$ of what could be harvested mechanically
2 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials. Includes fuel for spreading fertilizer and for one clipping of pasture to control weeds.

3 Assumes 88\% moisture.

## REVENUE SOURCES

| Grass/Legume | 1.5 | ton $\$ 10.00$ | $\$$ | 60.00 |
| :--- | :--- | :--- | :--- | :--- |
| TOTAL REVENUE |  |  |  | $\$$ |
|  |  | $\mathbf{6 0 . 0 0}$ |  |  |
| CASH EXPENSES |  |  |  |  |
| Fence repairs |  | $\$$ | 1.50 |  |
| Water system repairs |  |  | $\$$ | 0.50 |
| Utilities, phone |  | $\$$ | 0.50 |  |

0.50

Utilities, phone \$ 0.50

## TOTAL SELECTED CASH EXPENSES \$ 2.50 <br> REVENUE ABOVE SELECTED CASH EXPENSES \$ 57.50

Family and regular hired labor, hours 0.5

Dry hay equivalent, tons ${ }^{2}$
1 Tonnage harvested is $50 \%$ of what could be harvested mechanically.
2 Assumes 88\% moisture.


## Barley Silage

7 Ton
Price per Total per

| REVENUE SOURCES |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Silage | 7 |  | \$ | 17.00 | \$ | 119.00 |
| TOTAL REVENUE |  |  |  |  | \$ | 119.00 |
| CASH EXPENSES |  |  |  |  |  |  |
| Seed | 120 | lb | \$ | 0.13 | \$ | 15.00 |
| Fertilizer ${ }^{1}$ |  |  |  |  |  |  |
| Nitrogen | 60 | lb | \$ | 0.25 | \$ | 15.00 |
| Phosphate | 60 | lb | \$ | 0.18 | \$ | 10.80 |
| Potash | 110 | lb | \$ | 0.13 | \$ | 14.30 |
| Lime |  |  |  |  | \$ | 7.50 |
| Herbicides ${ }^{2}$ | 1 | pint | \$ | 1.65 | \$ | 1.65 |
| Fuel, oil, lube ${ }^{3}$ | 3 | gal | \$ | 1.73 | \$ | 5.18 |
| Equipment repairs |  |  |  |  | \$ | 20.00 |
| Utilities, phone |  |  |  |  | \$ | 1.65 |
| Trucking | 7 | ton | \$ | 1.50 | \$ | 10.50 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 101.58 |
| REVENUE ABOVE SELECTED CASH EXPENSES |  |  |  |  | \$ | 17.43 |
| Family and regular hired labor, hours |  |  |  |  |  | 3.0 |
| Dry hay equivalent, tons ${ }^{4}$ |  |  |  |  |  | 4.0 |

## 1 Assumes soil test indicating $50 \mathrm{lbs} /$ acre available phosphorus and $150 \mathrm{lbs} / \mathrm{acre}$ available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more

 detail.2 Assumes weed control with 1 pint of 2,4-D
3 Includes a \$1.50 per gallon charge for diesel fuel and an additional 15\% per gallon to cover cost of oil and lubrication materials.
4 Assumes $88 \%$ moisture.

|  | Oatlage |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |

[^7] "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more detail.
2 Assumes weed control with 1 pint of 2,4-D.
3 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.
4 Assumes $88 \%$ moisture.


Apples, Fresh Market
Central Leader System
Planting Year

## REVENUE SOURCES



See Michigan State University Department of Agricultural Economics Staff Paper 99-43, "Cost of Producing Fresh Market Apples in Western Michigan, 1998" for more detail.

Available at http://agecon.lib.umn.edu/msu.html


## Apples, Fresh Market

Central Leader System
Full Bearing (8th Year of Stand Life)

| Quantity | Unit | Price per <br> Unit | Total per <br> Acre |
| :--- | ---: | ---: | ---: |

REVENUE SOURCES

| Apples | 33,600 | lb | $\$$ | 0.08 | $\$$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| TOTAL REVENUE |  |  |  |  | $\$$ |
| TOT,688 |  |  |  |  |  |
| $\mathbf{2 , 6 8 8}$ |  |  |  |  |  |

CASH EXPENSES

| Trees | 1.8 | trees | $\$$ | 6.00 | $\$$ | 11 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Fertilizer ${ }^{1}$ |  |  |  |  | $\$$ | 50 |

Foliar fertilizers ${ }^{2}$ ..... 31

Herbicide ${ }^{3}$ ..... 17

Pesticides ${ }^{4}$ ..... 600

| Rodenticide |  |  |  | $\$$ | 6 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Wildlife control $^{5}$ | 182 | trees $\$$ | 0.05 | $\$$ | 9 |

Scouting \$ 15
Bees \$ 35

Fuel35

Repairs ..... 23
Utilities858
Family and regular hired labor, hours ${ }^{6}$ ..... 40.5

[^8]2 Includes Boron (once), 20-20-20 (four times) and CorClear (four times).
3 Includes Round-up, Princep, Karmex, 2,4-D, and Gramoxone.
4 Too numerous to list. See reference below.
5 Includes ribbons, soap, etc.
6 Includes Pruning - 30.3 hr , Brush Removal - 3 hr , Tree Replacement - 0.5 hr ,
Spraying Herbicide - 0.8 hr , Airblast Spraying - 1.8 hr , Mowing - 1.5 hr , Mouse Control 0.3 hr , Wildlife Control - 2 hr , Fertilizer Spreading - 0.3 hr .

See Michigan State University Department of Agricultural Economics Staff Paper 99-43, "Cost of Producing Fresh Market Apples in Western Michigan, 1998" for more detail.

Available at http://agecon.lib.umn.edu/msu.html


Apples, Fresh Market
Vertical Axe System
Planting Year

## REVENUE SOURCES



## See Michigan State University Department of Agricultural Economics Staff

 Paper 99-43, "Cost of Producing Fresh Market Apples in Western Michigan, 1998" for more detailAvailable at http://agecon.lib.umn.edu/msu.html


1 Includes urea, potash and lime.
2 Includes Boron (once), 20-20-20 (four times) and CorClear (four times).
3 Includes Round-up, Princep, Karmex, 2,4-D, and Gramoxone.
4 Too numerous to list. See reference below
5 Includes ribbons, soap, etc.
6 Includes Training - 2 hr , Pruning - 34.6 hr , Brush Removal - 2 hr , Tree Replacement
-0.5 hr , Spraying Herbicide - 1.1 hr , Airblast Spraying - 2.5 hr , Mowing - 2.1 hr ,
Mouse Control - 0.4, Wildlife Control - 2 hr , Fertilizer Spreading - 0.4 hr , Trickle
Irrigation - 0.5 hr .

[^9]

Blueberries, Fresh Market
Planting Year

|  |  | Price per | Total per |
| :--- | ---: | ---: | ---: |
| Quantity | Unit | Unit | Acre |

REVENUE SOURCES



Blueberries, Fresh Market
Full Bearing (Year 6 of production)

|  |  | Price per | Total per |
| :--- | ---: | ---: | ---: | ---: |
| Quantity | Unit | Unit | Acre |




## Cherries, Tart

Processing Fruit Planting Year

|  |  | Price per | Total per |
| :--- | ---: | ---: | ---: |
| Quantity | Unit | Unit | Acre |


| REVENUE SOURCES |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TOTAL REVENUE |  |  |  |  | \$ | - |
| CASH EXPENSES |  |  |  |  |  |  |
| Trees | 125 | trees | \$ | 7.50 | \$ | 938 |
| Fertilizer |  |  |  |  | \$ | 227 |
| Chemicals ${ }^{1}$ |  |  |  |  | \$ | 265 |
| Tree guards | 125 | guards | \$ | 0.35 | \$ | 44 |
| Sod cover seed |  |  |  |  | \$ | 63 |
| Straw supplies |  |  |  |  | \$ | 94 |
| Custom hire - site prep |  |  |  |  | \$ | 450 |

TOTAL SELECTED CASH EXPENSES
\$ 2,080
Family and regular hired labor, hours ${ }^{2}$ 30.0

1 Includes nematode, miticide, mouse bait, deer spray, and weed control.
2 Includes Mulching - 6 hr , Roots \& rock pick-up - 8 hr , Tillage - 4 hr , Marking orchard -5 hr , Planting trees -2 hr , Deer control -2 hr , Fertilizer and chemical application and cover seeding - 3 hr .

See Michigan State University Extension Bulletins E-1108, January 1997, "Cost of Producing Tart Cherries in Northwestern Michigan" and E-852, 1996,
"Fertilizing Fruit Crops" or the "New Jersey Commercial Tree Fruit Production Guide 2001" available at
http://www.rce.rutgers.edu/pubs/treefruitguide/index.html or by calling 732-9329762 for more detail.


## Cherries, Tart

Processing Fruit
Nonbearing Year

|  |  | Price per | Total per |
| :--- | ---: | ---: | ---: |
| Quantity | Unit | Unit | Acre |

## REVENUE SOURCES

## TOTAL REVENUE



TOTAL SELECTED CASH EXPENSES \$ 214
Family and regular hired labor, hours ${ }^{1}$
1 Includes Pruning - 3 hr , Replanting, fertilizer and chemical application - 4 hr , Deer control - 2 hr , Mowing - 1 hr .

See Michigan State University Extension Bulletins E-1108, January 1997, "Cost of Producing Tart Cherries in Northwestern Michigan" and E-852, 1996, "Fertilizing Fruit Crops" or the "New Jersey Commercial Tree Fruit Production Guide 2001" available at
http://www.rce.rutgers.edu/pubs/treefruitguide/index.html or by calling 732-9329762 for more detail.


Cherries, Tart
Processing Fruit
Full Bearing

Quantity Unit
Price per
Unit $\quad$ Total per

| REVENUE SOURCES |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Processing cherries | 7,500 | lb | \$ | 0.23 | \$ | 1,725 |
| TOTAL REVENUE |  |  |  |  | \$ | 1,725 |
| CASH EXPENSES |  |  |  |  |  |  |
| Fertilizer |  |  |  |  | \$ | 42 |
| Lime |  |  |  |  | \$ | 21 |
| Weed control |  |  |  |  | \$ | 19 |
| Spray program |  |  |  |  | \$ | 171 |
| Borer spray |  |  |  |  | \$ | 8 |
| Foliar nutrients |  |  |  |  | \$ | 16 |
| GA |  |  |  |  | \$ | 15 |
| Ethryl |  |  |  |  | \$ | 5 |
| Bee rental |  |  |  |  | \$ | 15 |
| Harvest costs ${ }^{1}$ |  |  |  |  | \$ | 47 |
| Fuel, repair, utilities |  |  |  |  | \$ | 107 |
| Scouting/consulting |  |  |  |  | \$ | 25 |
| Trucking | 7,500 | lb | \$ | 0.01 | \$ | 75 |
| Marketing | 7,500 | lb | \$ | 0.05 | \$ | 375 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 941 |
| Family and regular hired labor, hours ${ }^{2}$ |  |  |  |  |  | 24.5 |
| 1 Includes fuel, repairs, pad op 2 Includes Pruning/Brush Ren hr, Mowing - 1 hr and Repairs | tion and - 11 hrs Supervis | s. tilize | $\begin{aligned} & \mathrm{Sp} \\ & \mathrm{hr} . \end{aligned}$ | $\text { ding - } 0$ | hr | $\text { ing - } 2.5$ |

See Michigan State University Extension Bulletins E-1108, January 1997, "Cost of Producing Tart Cherries in Northwestern Michigan" and E-852, 1996,
"Fertilizing Fruit Crops" or the "New Jersey Commercial Tree Fruit Production Guide 2001" available at
http://www.rce.rutgers.edu/pubs/treefruitguide/index.html or by calling 732-9329762 for more detail.

Cherries, Sweet
Processing, Machine Harvested Planting Year

|  |  | Price per | Total per |
| :--- | ---: | ---: | ---: |
| Quantity | Unit | Unit | Acre |

## REVENUE SOURCES



See Michigan State University Extension Bulletin E-852, 1996, "Fertilizing Fruit Crops" or the "New Jersey Commercial Tree Fruit Production Guide 2001" available at http://www.rce.rutgers.edu/pubs/treefruitguide/index.html or by calling 732-932-9762 for more detail.


Cherries, Sweet
Processing, Machine Harvested Nonbearing Year

|  |  | Price per | Total per |
| :--- | ---: | ---: | ---: |
| Quantity | Unit | Unit | Acre |

## REVENUE SOURCES

| TOTAL REVENUE |  |  |  |  | \$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CASH EXPENSES |  |  |  |  |  |  |
| Replacement trees |  |  |  |  | \$ | 23 |
| Fertilizer | 105 | trees | \$ | 0.38 | \$ | 40 |
| Chemicals |  |  |  |  |  |  |
| Insect control |  |  |  |  | \$ | 7 |
| Disease control |  |  |  |  | \$ | 40 |
| Weed control |  |  |  |  | \$ | 18 |
| Deer control | 105 | trees | \$ | 0.45 | \$ | 47 |
| Mouse control |  |  |  |  | \$ | 8 |

TOTAL SELECTED CASH EXPENSES \$ 183
Family and regular hired labor, hours ${ }^{1} \quad 11.0$
1 Includes Pruning-3 hr, Replanting, fertilizer and chemical application-4 hr, Deer control - 2 hr , Mowing - 1 hr , Painting trunks, misc - 1 hr .

See Michigan State University Extension Bulletin E-852, 1996, "Fertilizing Fruit Crops" or the "New Jersey Commercial Tree Fruit Production Guide 2001" available at http://www.rce.rutgers.edu/pubs/treefruitguide/index.html or by calling 732-932-9762 for more detail.


## Cherries, Sweet

Processing, Machine Harvested Full Bearing

Quantity Unit |  | Price pe | Total per |
| :--- | :--- | ---: |

| REVENUE SOURCES |  |  |  |  |  |
| :--- | :--- | :--- | ---: | :--- | ---: |
| Processing cherries | 6,500 | lb | $\$$ | 0.25 | $\$$ |

See Michigan State University Extension Bulletin E-852, 1996, "Fertilizing Fruit Crops" or the "New Jersey Commercial Tree Fruit Production Guide 2001" available at http://www.rce.rutgers.edu/pubs/treefruitguide/index.html or by calling 732-932-9762 for more detail.


## Peppers, Bell

Fresh Market
Non-irrigated

|  | Quantity | Uni |  | Unit |  | Acre |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| REVENUE SOURCES |  |  |  |  |  |  |
| Peppers | 600 | 30 lb | \$ | 8.00 | \$ | 4,800 |
| TOTAL REVENUE |  |  |  |  | \$ | 4,800 |
| CASH EXPENSES |  |  |  |  |  |  |
| Plants | 12 | 1000 | \$ | 40.00 | \$ | 480 |
| Fertilizer |  |  |  |  |  |  |
| Nitrogen | 140 | 1 l | \$ | 0.25 | \$ | 35 |
| Phosphate | 60 | lb | \$ | 0.18 | \$ | 11 |
| Potash | 180 | lb | \$ | 0.13 | \$ | 23 |
| Lime | 0.5 | ton | \$ | 20.00 | \$ | 10 |
| Boxes | 600 | boxes | \$ | 1.40 | \$ | 840 |
| Herbicides ${ }^{1,2}$ |  |  |  |  | \$ | 36 |
| Insecticides ${ }^{1,3}$ |  |  |  |  | \$ | 132 |
| Fungicides ${ }^{1,4}$ |  |  |  |  | \$ | 28 |
| Gas, fuel, oil |  |  |  |  | \$ | 126 |
| Equipment repairs |  |  |  |  | \$ | 145 |
| Building repairs |  |  |  |  | \$ | 26 |
| Custom hire (spraying) |  |  |  |  | \$ | 24 |
| Seasonal labor ${ }^{5}$ | 32 | hr | \$ | 5.50 | \$ | 176 |
| Utilities, phone |  |  |  |  | \$ | 12 |
| Trucking |  |  |  |  | \$ | 96 |
| Marketing |  |  |  |  | \$ | 24 |

## TOTAL SELECTED CASH EXPENSES

\$ 2,224
Family and regular hired labor, hours $\qquad$
1 Refer to Michigan State University Extension bulletin E-312, "2001 Insect, Disease and Nematode Control for Commercial Vegetables" for more detail. Available at http://www.msue.msu.edu/pestpubs/E312/
2 Generally in 1 application.
3 Generally in 2 applications.
4 Generally in 5-6 applications.
5 Includes hoeing and harvesting labor.


Peppers, Bell
Fresh Market
Plastic over Beds, Staked and Tied, Drip Irrigated
Price per Total per
Quantity Unit Unit Acre

| REVENUE SOURCES |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Peppers | 1200 | 30 lb | \$ | 8.00 | \$ | 9,600 |
| total revenue |  |  |  |  | \$ | 9,600 |
| CASH EXPENSES |  |  |  |  |  |  |
| Plants | 12 | 1000 | \$ | 87.00 | \$ | 1,044 |
| Fertilizer |  |  |  |  |  |  |
| Nitrogen ${ }^{1}$ | 50 | 1 l | \$ | 0.25 | \$ | 13 |
| Phosphate ${ }^{1}$ | 65 | 1 l | \$ | 0.18 | \$ | 12 |
| Potash ${ }^{1}$ | 100 | lb | \$ | 0.13 | \$ | 13 |
| Lime ${ }^{1}$ | 0.5 | ton | \$ | 20.00 | \$ | 10 |
| 4-0-8 liquid $^{2}$ | 350 | gal | \$ | 1.20 | \$ | 420 |
| Boxes | 1200 | boxes | \$ | 1.40 | \$ | 1,680 |
| Plastic \& drip tape |  |  |  |  | \$ | 350 |
| Stakes | 5600 | stake | \$ | 0.08 | \$ | 448 |
| String for ties | 55 | 100ft | \$ | 1.00 | \$ | 55 |
| Herbicides ${ }^{3,4}$ |  |  |  |  | \$ | 36 |
| Insecticides ${ }^{3,5}$ |  |  |  |  | \$ | 132 |
| Fungicides ${ }^{3,6}$ |  |  |  |  | \$ | 28 |
| Gas, fuel, oil ${ }^{7}$ |  |  |  |  | \$ | 105 |
| Equipment repairs |  |  |  |  |  | 230 |
| Building repairs |  |  |  |  | \$ | 26 |
| Custom hire (spraying) |  |  |  |  | \$ | 24 |
| Seasonal labor | 67 | hr | \$ | 5.50 | \$ | 369 |
| Trucking |  |  |  |  | \$ | 124 |
| Marketing |  |  |  |  | \$ | 28 |
| TOTAL SELECTED CAS | EXPE | NSES |  |  | \$ | 5,146 |

Family and regular hired labor, hours ${ }^{8}$ 18.0

1 Applied before planting.
2 Applied after planting.
3 Refer to Michigan State University Extension bulletin E-312, "2001 Insect, Disease and Nematode Control for Commercial Vegetables" for more detail. Available at http://www.msue.msu.edu/pestpubs/E312/
4 Generally in 1 application.
5 Generally in 2 applications.
6 Generally in 5-6 applications.
7 Includes irrigation fuel.
8 Includes hoeing, staking \& tying, stake and tie removal and harvesting labor.

| - wide |  |  |  | ice per |  | Total per |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Unit |  | Unit |  | Acre |
| REVENUE SOURCES |  |  |  |  |  |  |
| Tomato | 1000 | 20 lb | \$ | 10.00 | \$ | 10,000 |
| TOTAL REVENUE |  |  |  |  | \$ | 10,000 |
| CASH EXPENSES |  |  |  |  |  |  |
| Plants | 8 | 1000 | \$ | 28.00 | \$ | 224 |
| Fertilizer |  |  |  |  |  |  |
| Nitrogen | 90 | lb | \$ | 0.25 | \$ | 23 |
| Phosphate | 75 | lb | \$ | 0.18 | \$ | 14 |
| Potash | 250 | lb | \$ | 0.13 | \$ | 33 |
| Lime | 0.4 | ton | \$ | 20.00 | \$ | 8 |
| Boxes | 1000 | boxes | \$ | 1.20 | \$ | 1,200 |
| Herbicides ${ }^{1,2}$ |  |  |  |  | \$ | 30 |
| Insecticides ${ }^{1,3}$ |  |  |  |  | \$ | 80 |
| Fungicides ${ }^{1,4}$ |  |  |  |  | \$ | 220 |
| Gas, fuel, oil |  |  |  |  | \$ | 45 |
| Equipment repairs |  |  |  |  | \$ | 52 |
| Building repairs |  |  |  |  | \$ | 33 |
| Custom hire (spraying) |  |  |  |  | \$ | 27 |
| Seasonal labor ${ }^{5}$ | 720 | hr | \$ | 5.50 | \$ | 3,960 |
| Utilities, phone |  |  |  |  | \$ | 35 |
| Trucking |  |  |  |  | \$ | 185 |
| Marketing |  |  |  |  | \$ | 140 |

## TOTAL SELECTED CASH EXPENSES

\$ 6,308
Family and regular hired labor, hours 25.0

1 Refer to Michigan State University Extension bulletin E-312, "2001 Insect, Disease and Nematode Control for Commercial Vegetables" for more detail. Available at http://www.msue.msu.edu/pestpubs/E312/
2 Generally in 2 applications.
3 Generally in 1 application.
4 Generally in 7-8 applications.
5 Includes hoeing and harvesting labor.

| ${ }_{3}$ |  |  |  | ice per |  | Total per |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - | Quantity | Unit |  | Unit |  | Acre |
| REVENUE SOURCES |  |  |  |  |  |  |
| Tomato | 1500 | 20 lb | \$ | 10.00 | \$ | 15,000 |
| TOTAL REVENUE |  |  |  |  | \$ | 15,000 |
| CASH EXPENSES |  |  |  |  |  |  |
| Plants | 5.5 | 1000 | \$ | 56.00 | \$ | 308 |
| Fertilizer |  |  |  |  |  |  |
| Nitrogen ${ }^{1}$ | 50 | lb | \$ | 0.25 | \$ | 13 |
| Phosphate ${ }^{1}$ | 75 | lb | \$ | 0.18 | \$ | 14 |
| Potash ${ }^{1}$ | 100 | lb | \$ | 0.13 | \$ | 13 |
| Lime ${ }^{1}$ | 0.4 | ton | \$ | 20.00 | \$ | 8 |
| 4-0-8 liquid $^{2}$ | 240 | gal | \$ | 1.20 | \$ | 288 |
| Boxes | 1500 | boxes | \$ | 1.00 | \$ | 1,500 |
| Plastic \& drip tape | 5500 | ft | \$ | 0.04 | \$ | 220 |
| Stakes | 2800 | stake | \$ | 0.16 | \$ | 448 |
| String for ties | 55 | 100 | \$ | 2.40 | \$ | 132 |
| Herbicides ${ }^{3,4}$ |  |  |  |  | \$ | 30 |
| Insecticides ${ }^{3,5}$ |  |  |  |  | \$ | 80 |
| Fungicides ${ }^{3,6}$ |  |  |  |  | \$ | 220 |
| Gas, fuel, oil |  |  |  |  | \$ | 45 |
| Equipment repairs |  |  |  |  | \$ | 52 |
| Building repairs |  |  |  |  | \$ | 33 |
| Custom hire (spraying) |  |  |  |  | \$ | 27 |
| Seasonal Labor ${ }^{7}$ | 738 | hr | \$ | 5.50 | \$ | 4,059 |
| Utilities, phone |  |  |  |  | \$ | 35 |
| Trucking |  |  |  |  | \$ | 200 |
| Marketing |  |  |  |  | \$ | 240 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 7,964 |
| Family and regular hired labor, hours |  |  |  |  |  | 25.0 |

## 1 Applied before planting

2 Applied after planting.
3 Refer to Michigan State University Extension bulletin E-312, "2001 Insect, Disease and Nematode Control for Commercial Vegetables" for more detail. Available at http://www.msue.msu.edu/pestpubs/E312/
4 Generally in 2 applications.
5 Generally in 1 application
6 Generally in 7-8 applications.
7 Includes hoeing, staking \& tying, stake and tie removal and harvesting labor.


|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |


$70 \%$ Grade Choice, Feed:Gain - 7 lb , Ave Daily Gain - 3 lb
See Footnote 2 for adjustment factors for heavier placements and heifers.




Ewe and Lambs
March - April lambing
Quantity Unit Unit \& Lambs

| REVENUE SOURCES |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Market lambs | 195 | lb | \$ 0.70 | \$ | 137 |
| 1.5 hd @ |  |  |  |  |  |
| Cull ewes | 21 | lb | \$ 0.30 | \$ | 6 |
| 0.15 hd @ | 140 |  |  |  |  |
| Ewe's wool | 8 | lb | \$ 0.25 | \$ | 2 |
| 1 hd @ | 8 |  |  |  |  |
| TOTAL REVENUE |  |  |  | \$ | 145 |
| CASH EXPENSES |  |  |  |  |  |
| Purchased Feed |  |  |  |  |  |
| Soybean meal 48\% (as fed) | 0.4 | cwt | \$ 9.00 | \$ | 4 |
| Minerals, vitamins |  |  |  | \$ | 3 |
| Vet \& medicine |  |  |  | \$ | 3 |
| Livestock supplies |  |  |  | \$ | 6 |
| Gas, fuel \& oil |  |  |  | \$ | 2 |
| Equipment repairs |  |  |  | \$ | 1 |
| Building repairs |  |  |  | \$ | 1 |
| Utilities \& phone |  |  |  | \$ | 1 |
| Hauling, marketing ${ }^{1}$ |  |  |  | \$ | 4 |
| Shearing |  |  |  | \$ | 1 |
| Miscellaneous |  |  |  | \$ | 3 |
| Ewe replacement | 0.2 | hd | \$110.00 | \$ | 22 |
| Ram replacement | 0.01 | hd | \$300.00 | \$ | 3 |
| TOTAL SELECTED CASH EXPENSES |  |  |  | \$ | 52 |
| Family and regular hired labor, hours |  |  |  |  | 4.0 |
| Corn grain equivalent, bu (as fed) |  |  |  |  | 8.0 |
| Dry hay equivalent, tons (as fed) |  |  |  |  | 1.0 |



Finishing Lamb

REVENUE SOURCES

| Marketlamb | 140 | lb | $\$$ | 0.80 | $\$$ | 112 |
| :--- | ---: | :--- | :--- | :--- | :--- | ---: |
| Wool | 3 | lb | $\$$ | 0.10 | $\$$ | 0 |

TOTAL REVENUE
\$
112
CASH EXPENSES


1 Majority of death loss occurs immediately after purchase.



|  | Dairy Cow |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |

1 Assumes 14 month calving interval, $90 \%$ of calves born alive, $95 \%$ survive the first year, $55 \%$ born are bulls and $45 \%$ heifers.
2 Assumes cow is on bST for approximately half of the year.
3 Includes primarily milking and parlor supplies, tags, bedding, and pest control.
4 Includes hoof trimming and trucking for cull cows, calves and dead stock.
5 Includes dues and costs to market cull cows and calves.
6 Includes insurance, lease and other costs.
7 Includes $10 \%$ increase to account for shrink, storage and feeding losses and refusals.
8 Includes $30 \%$ increase to account for shrink, storage and feeding losses and refusals.


1 Includes $10 \%$ increase to account for shrink, storage and feeding losses and refusals.



|  | y Cow and <br> 0 lbs Milk Sold <br> Quantity Unit |  | Replac <br> Price per <br> Unit |  | ent ${ }^{1}$ <br> al per Cow \& Rplcmt |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REVENUE SOURCES |  |  |  |  |  |
| Milk | 260 cwt | \$ | 13.00 | \$ | 3,380 |
| Cull cows $32 \%$ Rate, 1250 lb Cows | 400 lb | \$ | 0.30 | \$ | 120 |
| Bull calf | 0.4 hd | \$ | 80.00 | \$ | 32 |
| TOTAL REVENUE |  |  |  | \$ | 3,532 |
| CASH EXPENSES |  |  |  |  |  |
| Purchased Feed |  |  |  |  |  |
| Milk replacer \& calf starter |  |  |  | \$ | 30 |
| Soybean meal 48\% (as fed) | d) 1.3 ton | \$ | 180.00 | \$ | 226 |
| Other feeds |  |  |  | \$ | 474 |
| Breeding |  |  |  | \$ | 35 |
| Vet \& medicine |  |  |  | \$ | 135 |
| $\mathrm{bST}{ }^{2}$ | 14 doses | \$ | 5.80 | \$ | 81 |
| Livestock supplies ${ }^{3}$ |  |  |  | \$ | 159 |
| Gas, fuel \& oil |  |  |  | \$ | 25 |
| Equipment repairs |  |  |  | \$ | 100 |
| Building repairs |  |  |  | \$ | 62 |
| Custom hire ${ }^{4}$ |  |  |  | \$ | 12 |
| Utilities \& phone |  |  |  | \$ | 82 |
| Milk trucking | 260 cwt | \$ | 0.44 | \$ | 114 |
| Marketing ${ }^{5}$ |  |  |  | \$ | 40 |
| Promotion | 260 cwt | \$ | 0.15 | \$ | 39 |
| Miscellaneous ${ }^{6}$ |  |  |  | \$ | 29 |
| TOTAL SELECTED CASH EX | EXPENSES |  |  | \$ | 1,642 |
| Family and regular hired labor, | or, hours |  |  |  | 68.8 |
| Corn grain equivalent, bu (as fed | s fed) ${ }^{7}$ |  |  |  | 125.7 |
| Dry hay equivalent, tons (as fed) | fed) ${ }^{8}$ |  |  |  | 9.0 |
| Corn silage, tons (as fed) ${ }^{8}$ |  |  |  |  | 12.8 |
| 1 Assumes 0.9 replacement heifers per cow. |  |  |  |  |  |
| 2 Assumes cow is on bST for approximately half of the year. |  |  |  |  |  |
| 3 Includes milking and parlor supplies, tags, bedding, and pest control. |  |  |  |  |  |
| 5 Includes dues and costs to market cull cows and calves. |  |  |  |  |  |
| 6 Includes insurance, lease and other costs. |  |  |  |  |  |
| 7 Includes a $10 \%$ increase to account for shrink, storage and feeding losses and refusals. |  |  |  |  |  |




## Swine, Farrow to Finish

High Production
2.26 Litters per Yr, 20.28 Pigs per Sow per Yr,

AI, Raise Own Replacement Gilts

|  | Price per | Total per Sow |  |
| :--- | ---: | ---: | ---: |
| Quantity | Unit | Unit | \& Litters |

REVENUE SOURCES

| Finished hogs ${ }^{1}$ |  | 52.68 | cwt | \$ | 42 | \$ | 2,213 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 19.88 hd @ | 265 |  |  |  |  |  |
| Sows ${ }^{2}$ |  | 1.6 | cwt | \$ | 27 | \$ | 43 |
|  | 0.4 hd @ | 400 |  |  |  |  |  |

TOTAL REVENUE
\$
2,256

## CASH EXPENSES

Purchased feed


Family and regular hired labor, hours 33.3
Corn grain equivalent, bu (as fed) 212.0
Capital gains income included above
\$

[^10]2 Sow price is $\$ 15$ less than market hog price.


## Swine, Farrow to Finish

Average Production
2.15 Litters per Yr, 18.14 Pigs per Sow per Yr,

AI, Raise Own Replacement Gilts

|  |  | Price per | Total per Sow |
| :--- | ---: | ---: | ---: | ---: |
| Quantity | Unit | Unit | \& Litters |

REVENUE SOURCES

| Finished hogs ${ }^{1}$ |  | 47.01 | cwt | \$ | 42 | \$ | 1,974 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 17.74 hd @ | 265 | lb |  |  |  |  |
| Sows ${ }^{2}$ |  | 1.6 | cwt | \$ | 27 | \$ | 43 |
|  | 0.4 hd @ | 400 | Ib |  |  |  |  |

TOTAL REVENUE \$
2,018

## CASH EXPENSES

Purchased feed
Soybean meal 44\% 32.0 cwt \$ $9 \quad \$ \quad 288$

Minerals, vitamins \& other feeds \$ 252
Breeding \$
Vet \& medicine \$ 59
Livestock supplies \$ 27
Gas, fuel \& oil \$ 20
Equipment repairs \$ 57
Building repairs \$ 10
Utilities \& phone
55
Hauling, marketing \$ 58
Miscellaneous \$ 28
TOTAL SELECTED CASH EXPENSES \$ 879
Family and regular hired labor, hours 30.0
Corn grain equivalent, bu (as fed) 208.5
Capital gains income included above \$ 43
1 Retain 0.4 gilts per sow for replacement.
2 Sow price is $\$ 15$ less than market hog price.


| Average Production <br> 2.15 Litters per Yr, 18.67 Feeder Pigs per Sow per Yr, AI, Buy Replacement Gilts |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Price per |  | Total per Sow |  |
|  | Quantity | Unit |  | Unit |  | \& Litters |
| REVENUE SOURCES |  |  |  |  |  |  |
| Feeder pigs | 18.67 | hd | \$ | 44 | \$ | 816 |
| 18.67 hd @ | - 50 | lb |  |  |  |  |
| Sows ${ }^{1}$ | 1.6 | cwt | \$ | 27 | \$ | 43 |
| 0.4 hd @ | 400 | lb |  |  |  |  |
| TOTAL REVENUE |  |  |  |  | \$ | 859 |
| CASH EXPENSES |  |  |  |  |  |  |
| Purchased feed |  |  |  |  |  |  |
| Soybean meal 44\% | 6.9 | cwt | \$ | 9 | \$ | 62 |
| Minerals, vitamins \& othe | her feeds |  |  |  | \$ | 117 |
| Breeding |  |  |  |  | \$ | 25 |
| Vet \& medicine |  |  |  |  | \$ | 40 |
| Livestock supplies |  |  |  |  | \$ | 18 |
| Gas, fuel \& oil |  |  |  |  | \$ | 5 |
| Equipment repairs |  |  |  |  | \$ | 32 |
| Building repairs |  |  |  |  | \$ | 4 |
| Utilities \& phone |  |  |  |  | \$ | 36 |
| Hauling, marketing |  |  |  |  | \$ | 14 |
| Replacement gilts | 0.4 | hd | \$ | 186 | \$ | 75 |
| Miscellaneous |  |  |  |  | \$ | 28 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 456 |
| Family and regular hired labor, hours |  |  |  |  |  | 20.0 |
| Corn grain equivalent, bu (as fed) |  |  |  |  |  | 37.3 |
| Capital gains income included above |  |  |  |  | \$ | 43 |



1 Feeder pigs are priced at $77 \%$ of lean price. Market hog price $(\$ 42)$ is assumed to be paid on a $74 \%$ lean hog. Lean price is $\$ 42 / .74$ or $\$ 61$.


1 Feeder pigs are priced at $77 \%$ of lean price. Market hog price (\$42) is assumed to be paid on a $74 \%$ lean hog. Lean price is $\$ 42 / .74$ or $\$ 61$.


## Swine, Breed to Wean ${ }^{1}$

High Production
2.26 Litters per Yr, 20.79 Pigs Weaned per Sow per Yr, AI, Buy Replacement Gilts

Price per Total per Sow \&
Quantity Unit Unit Litters

| REVENUE SOURCES |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Weaned pigs | 20.79 | hd | \$ | 30 | \$ | 625 |
| Cull sows ${ }^{2}$ | 1.6 | cwt | \$ | 27 | \$ | 43 |
| 0.4 hd @ 400 lb |  |  |  |  |  |  |
| TOTAL REVENUE |  |  |  | \$ |  | 669 |
| CASH EXPENSES |  |  |  |  |  |  |
| Purchased feed |  |  |  |  |  |  |
| Soybean meal 44\% | 3.8 | cwt | \$ | 9 | \$ | 34 |
| Minerals, vitamins \& other | feeds |  |  |  | \$ | 44 |
| Breeding |  |  |  |  | \$ | 24 |
| Vet \& medicine |  |  |  |  | \$ | 21 |
| Livestock supplies |  |  |  |  | \$ | 16 |
| Gas, fuel \& oil |  |  |  |  | \$ | 3 |
| Equipment repairs |  |  |  |  | \$ | 28 |
| Building repairs |  |  |  |  | \$ | 3 |
| Utilities \& phone |  |  |  |  | \$ | 29 |
| Hauling, marketing |  |  |  |  | \$ | 13 |
| Replacement gilts | 0.4 | hd | \$ | 186 | \$ | 75 |
| Miscellaneous |  |  |  |  | \$ | 23 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 313 |
| Family and regular hired labor, hours |  |  |  |  |  | 20.4 |
| Corn grain equivalent, bu (as fed) |  |  |  |  |  | 25.3 |
| Capital gains income included above |  |  |  |  | \$ | 43 |

$\frac{\text { Capital gains income included above }}{1 \text { Pigs are weaned at } 18 \text { days of age and } 10 \mathrm{lb} \text {. }}$
2 Sow price is $\$ 15$ less than market hog price.


## Swine, Breed to Wean ${ }^{1}$

Average Production
2.15 Litters per Yr, 19.14 Pigs Weaned per Sow per Yr, AI, Buy Replacement Gilts

|  |  |  |  |
| :--- | ---: | ---: | ---: |
| Quantity | Unit | Unit | Litters |

## REVENUE SOURCES

| Weaned pigs | 19.14 | hd $\$$ | 30 | $\$$ | 576 |
| :--- | :---: | ---: | :--- | :--- | :--- |
| Cull sows $^{2}$ |  | 1.6 cwt $\$$ | 27 | $\$$ | 43 |

TOTAL REVENUE
\$
619

## CASH EXPENSES

Purchased feed

| Soybean meal 44\% | 3.7 | cwt | $\$$ | 9 | $\$$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Minerals, vitamins \& other feeds |  |  |  | $\$$ | 34 |
| Breeding |  |  |  | $\$$ | 44 |

Breeding
Vet \& medicine \$
Livestock supplies \$ 15
Gas, fuel \& oil
Equipment repairs \$ 28
Building repairs \$ 4
Utilities \& phone \$ 31
Hauling, marketing \$ 12
Replacement gilts $\quad 0.4$ hd \$ 186 \$ 75
Miscellaneous \$ 23
TOTAL SELECTED CASH EXPENSES \$ 314
Family and regular hired labor, hours 18.2
Corn grain equivalent, bu (as fed) 25.2
Capital gains income included above $\$$

1 Pigs are weaned at 18 days of age and 10 lb .
2 Sow price is $\$ 15$ less than market hog price.


Swine, Wean to Finish
High Production
100 Pigs, 3.06 lbs feed per lb gain Price per
Quantity Unit Unit Total per Pig

| REVENUE SOURCES |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Finished hogs | 265 |  | \$ | 42 | \$ | 11,130 |
| 100 hd @ 2.49\% Death loss | $\begin{gathered} 265 \\ 2.49 \end{gathered}$ | hd | \$ | 42 | \$ | (277) |
| TOTAL REVENUE |  |  |  |  | \$ | 10,853 |
| CASH EXPENSES |  |  |  |  |  |  |
| Weaned pigs ${ }^{1}$ | 100 | hd | \$ | 30 | \$ | 3,008 |
| Purchased Feed |  |  |  |  |  |  |
| Soybean meal 44\% | 139.0 | cwt | \$ | 9 | \$ | 1,251 |
| Minerals, vitamins \& other | feeds |  |  |  | \$ | 1,008 |
| Vet \& medicine |  |  |  |  | \$ | 290 |
| Livestock supplies |  |  |  |  | \$ | 65 |
| Gas, fuel \& oil |  |  |  |  | \$ | 83 |
| Equipment repairs |  |  |  |  | \$ | 155 |
| Building repairs |  |  |  |  | \$ | 36 |
| Utilities \& phone |  |  |  |  | \$ | 127 |
| Hauling, marketing |  |  |  |  | \$ | 311 |
| Miscellaneous |  |  |  |  | \$ | 24 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 6,356 |
| Family and regular hired labor, hours |  |  |  |  |  | 65.0 |
| Corn grain equivalent, bu (as fed) |  |  |  |  |  | 899.2 |

1 Weaned pigs are priced at $53 \%$ of lean price. Market hog price (\$42) is assumed to be paid on a $74 \%$ lean hog. Lean price is $\$ 42 / .74$ or $\$ 61$.


## Swine, Wean to Finish

Average Production
100 Pigs, 3.36 lbs feed per lb gain Price per
Quantity Unit Unit Total per Pig

| REVENUE SOURCES |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Finished hogs | 265 | cwt | \$ | 42 | \$ | 11,130 |
| 100 hd @ | 265 |  |  |  |  |  |
| 5.18\% Death loss | 5.18 | hd | \$ | 42 | \$ | (577) |
| TOTAL REVENUE |  |  |  |  | \$ | 10,553 |

## CASH EXPENSES

| Weaned pigs $^{1}$ | 100 | hd $\$$ | 30 | $\$$ | 3,008 |
| :--- | ---: | :--- | :--- | :--- | :--- |
| Purchased Feed |  |  |  |  |  |
| Soybean meal 44\% | 152.4 | cwt | $\$$ | 9 | $\$$ |

Minerals, vitamins \& other feeds \$ 1,086
Vet \& medicine ..... 307
Livestock supplies ..... 66
Gas, fuel \& oil ..... 85
Equipment repairs ..... 160
Building repairs ..... 37
Utilities \& phone ..... 133
Hauling, marketing ..... 302
Miscellaneous ..... 28
TOTAL SELECTED CASH EXPENSES ..... 6,583
Family and regular hired labor, hours ..... 65.0
Corn grain equivalent, bu (as fed) ..... 984.2
paid on a $74 \%$ lean hog. Lean price is $\$ 42 / .74$ or $\$ 61$.

|  | Swine, Wean to Feeder Pig <br> High Production <br> 100 Pigs |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity |  | Price per Unit |  | Total per Sow \& |  |
|  |  |  |  |  |  | Litters |
| REVENUE SOURCES |  |  |  |  |  |  |
| Feeder pigs ${ }^{1}$ | 100 | hd | \$ | 44 | \$ | 4,370 |
| 100 h | 50 |  |  |  |  |  |
| 1\% Death loss | 1 | hd | \$ | 44 | \$ | (22) |
| TOTAL REVENUE |  |  |  |  | \$ | 4,348 |
| CASH EXPENSES |  |  |  |  |  |  |
| Weaned pigs ${ }^{2}$ | 100 | hd | \$ | 30 | \$ | 3,008 |
| Purchased Feed |  |  |  |  |  |  |
| Soybean meal 44\% | 15.3 | cwt | \$ | 9 | \$ | 138 |
| Minerals, vitamins \& | her feeds |  |  |  | \$ | 371 |
| Vet \& medicine |  |  |  |  | \$ | 140 |
| Livestock supplies |  |  |  |  | \$ | 15 |
| Gas, fuel \& oil |  |  |  |  | \$ | 3 |
| Equipment repairs |  |  |  |  | \$ | 25 |
| Building repairs |  |  |  |  | \$ | 3 |
| Utilities \& phone |  |  |  |  | \$ | 27 |
| Hauling, marketing |  |  |  |  | \$ | 70 |
| Miscellaneous |  |  |  |  | \$ | 21 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 3,820 |
| Family and regular hired labor, hours |  |  |  |  |  | 15.0 |
| Corn grain equivalent, bu (as fed) |  |  |  |  |  | 57.9 |

[^11]|  | Swine, Wean to Feeder Pig <br> Average Production <br> 100 Pigs |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity |  | Price per Unit |  | Total per Sow \& |  |
| REVENUE SOURCES |  |  |  |  |  |  |
| Feeder pigs ${ }^{1}$ | 100 | hd | \$ | 44 | \$ | 4,370 |
| 100 | 50 |  |  |  |  |  |
| 2.45\% Death loss | 2.5 | hd | \$ | 44 | \$ | (54) |
| TOTAL REVENUE |  |  |  |  | \$ | 4,317 |
| CASH EXPENSES |  |  |  |  |  |  |
| Weaned pigs ${ }^{2}$ | 100 | hd | \$ | 30 | \$ | 3,008 |
| Purchased Feed |  |  |  |  |  |  |
| Soybean meal 44\% | 17.2 | cwt | \$ | 9 | \$ | 155 |
| Minerals, vitamins \& | her feeds |  |  |  | \$ | 390 |
| Vet \& medicine |  |  |  |  | \$ | 157 |
| Livestock supplies |  |  |  |  | \$ | 16 |
| Gas, fuel \& oil |  |  |  |  | \$ | 5 |
| Equipment repairs |  |  |  |  | \$ | 30 |
| Building repairs |  |  |  |  | \$ | 4 |
| Utilities \& phone |  |  |  |  | \$ | 33 |
| Hauling, marketing |  |  |  |  | \$ | 69 |
| Miscellaneous |  |  |  |  | \$ | 25 |
| TOTAL SELECTED CASH EXPENSES |  |  |  |  | \$ | 3,892 |
| Family and regular hired labor, hours |  |  |  |  |  | 15.0 |
| Corn grain equivalent, bu (as fed) |  |  |  |  |  | 65.0 |

1 Feeder pigs are priced at $77 \%$ of lean price. Market hog price (\$42) is assumed to be paid on a $74 \%$ lean hog. Lean price is $\$ 42 / .74$ or $\$ 61$.

2 Weaned pigs are priced at $53 \%$ of lean price. Market hog price (\$42) is assumed to be paid on a $74 \%$ lean hog. Lean price is $\$ 42 / .74$ or $\$ 61$.


[^0]:    1 Assumes 35 lb N contribution from previous crop and soil test indicating $50 \mathrm{lbs} /$ acre available phosphorus and $150 \mathrm{lbs} /$ acre available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more detail.
    2 Assumes post-emergence application of 1 pt Buctril and 1 pt 4L atrazine; and preemergence grass control from 1.3 pt Dual II magnum.
    3 Assumes no insecticide treatment required for rootworm because of crop rotation.
    4 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.

[^1]:    1 Assumes soil test indicating $50 \mathrm{lbs} /$ acre available phosphorus and $150 \mathrm{lbs} /$ acre available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more detail.
    2 Assumes 3 pint Steel per acre pre-emergence.
    3 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.

[^2]:    1 Assumes soil test indicating 50 lbs/acre available phosphorus and 150 lbs/acre available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more detail.
    2 Assumes 1 quart Roundup Ultra post-emergence.
    3 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.

[^3]:    1 Assumes soil test indicating 50 lbs/acre available phosphorus and 150 lbs/acre available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more detail.
    2 Assumes 3 pint Steel per acre pre-emergence.
    3 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.

[^4]:    1 Assumes soil test indicating 50 lbs/acre available phosphorus and $150 \mathrm{lbs} / \mathrm{acre}$ available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more detail.
    2 Assumes weed control with 1 pint of 2,4-D.
    3 Assumes scab control with 4 ounces of Tilt.
    4 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.

[^5]:    1 Assumes no N contribution from previous crop; and soil test indicating $50 \mathrm{lbs} /$ acre available phosphorus and $150 \mathrm{lbs} /$ acre available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000, "Tri-State Fertilizer Recommendations for Corn, Soybeans, Wheat \& Alfalfa" for more detail.

    2 Assumes post-emergence application of 1 pt Buctril and 1 pt 4L atrazine; and preemergence grass control from 1.3 pt Dual II magnum.
    3 Assumes treatment for corn rootworm with Counter insecticide.
    4 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to

[^6]:    1 Includes a $\$ 1.50$ per gallon charge for diesel fuel and an additional $15 \%$ per gallon to cover cost of oil and lubrication materials.
    2 Assumes 88\% moisture.

[^7]:    1 Assumes soil test indicating $50 \mathrm{lbs} /$ acre available phosphorus and $150 \mathrm{lbs} /$ acre available potassium. Refer to Michigan State University Extension bulletin E-2567, 2000,

[^8]:    1 Includes urea, potash and lime.

[^9]:    See Michigan State University Department of Agricultural Economics Staff Paper 99-43, "Cost of Producing Fresh Market Apples in Western Michigan, 1998" for more detail.
    Available at http://agecon.lib.umn.edu/msu.html

[^10]:    1 Retain 0.4 gilts per sow for replacement.

[^11]:    1 Feeder pigs are priced at $77 \%$ of lean price. Market hog price (\$42) is assumed to be paid on a $74 \%$ lean hog. Lean price is $\$ 42 / .74$ or $\$ 61$.
    2 Weaned pigs are priced at $53 \%$ of lean price. Market hog price (\$42) is assumed to be paid on a $74 \%$ lean hog. Lean price is $\$ 42 / .74$ or $\$ 61$.

