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2001 CROPS AND LIVESTOCK BUDGETS ESTIMATES FOR MICHIGAN by Barbara Dartt Gerald D. Schwab

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TABLE OF CONTENTS

| I. | Introduction1 |
|------|--|
| II. | Uses and Sources of Data 2 – 3 |
| III. | Prices and Costs Used in 2001 Budgets4 |
| IV. | Crop and Forage Budgets 5 – 21 |
| | Barley – High and Mid-Yield11Barley – Silage21Beans – Navy14Corn Grain – Following Legume and Corn, High Yield5Corn Grain – Following Legume and Corn, Mid-Yield6Corn Grain – Irrigated, High Yield7Corn Grain – Organic Practices, Realistic Yield7Corn Silage – Following Legume and Corn, Mid-Yield15Hay – Alfalfa, Four and Three Cut Systems17Hay – Grass19Hay – Mixed, Three and Two Cut Systems18Haylage – Alfalfa, Four and Three Cut Systems16Oats – High and Mid-Yield12Oats – Organic Practices, Realistic Yield13Oatlage21Pasture – Intensively and Continuously Grazed20Seeding – Alfalfa, Spring19Soybeans – Conventional and No-Till, High Yield9Soybeans – Organic Practices, Realistic Yield13Sugar Beets14Wheat – High and Mid-Yield10 |
| ۷. | Fruit and Vegetable Budgets 22 – 30 |
| | Apples – Central Leader System22Apples – Vertical Axe System23Blueberries24Cherries – Tart,25 |

Planting, Nonbearing, Full Bearing 25, 26

| V. | Fruit and Vegetable Budgets, continued Cherries –Sweet, | |
|-----|--|-----------|
| | Planting, Nonbearing, Full Bearing | 26, 27 |
| | Peppers – Bell, Fresh Market | |
| | Pumpkins – Jack-o-Lantern | |
| | Tomatoes – Fresh Market | |
| VI. | Livestock Budgets | . 31 – 43 |
| | Beef – Cow-Calf | |
| | Beef – Feeder Steer Calf, Holstein | |
| | Beef – Stocker Calf, Colored | |
| | Beef - Yearling Feeder Steer, Colored | |
| | Dairy – Cow, | |
| | 18,000 and 22,000 and 26,000 lb Milk | 34, 35 |
| | Dairy – Cow & Replacement, | |
| | 18,000 and 22,000 and 26,000 lb Milk | 36, 37 |
| | Dairy – Cow & Replacement, | |
| | 16,000 lb Milk, Grazing | |
| | Dairy – Heifer, Birth to Freshening | |
| | Sheep – Ewe and Lambs | 33 |
| | Sheep – Finishing Lamb | 33 |
| | Swine – Farrow to Finish, High and Ave Production. | |
| | Swine – Breed to Feeder, High and Ave Production | |
| | Swine – Breed to Wean, High and Ave Production | |
| | Swine – Feeder to Finish, High and Ave Production | |
| | Swine – Wean to Finish, High and Ave Production | |
| | Swine – Wean to Feeder, High and Ave Production. | 43 |

* Includes adjustment factors for heavier placements and heifers.

Crop and Livestock Budget Estimates for Michigan, 2001

Barbara A. Dartt and Gerald D. Schwab, Extension Specialists Department of Agricultural Economics, Michigan State University

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® 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.

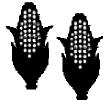
The authors wish to thank the following individuals for the development and editing of budgets found in this publication. Without their expertise and contributions, this publication would not be possible.

- Jim Bardenhagen, County Extension Director (Cherries)
- Ben Bartlett, District Extension Dairy and Livestock Agent (Stocker Calf, Sheep and Pasture)
- 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)
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- Jim Hilker, Extension Farm Management Specialist (Prices)
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- Jerry Lindquist, County Extension Director (Hay and Pasture)
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- •
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- Dan Rossman, County Extension Director (Organic Crops)
- Steve Rust, Extension Beef Specialist (Feeder Steers)
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- 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)

| FIELD CROPS Livestock FERTILIZER Nitrogen – Urea Ib N 0.25 Barley bu 1.90 Beef cow – Cull cwt 35 Nitrogen – Urea Ib N 0.25 Beans – Navy cwt 17.90 Beef cow – Cull cwt 35 Nitrogen – Anhydrous Ib N 0.26 Corn – Grain bu 2.10 Beef cow – Replacement head 900 Super Phosphate Ib N_0 0.26 Corn – Grain bu 4.00 Heifer – Weaned cwt 85 Potash Ib Ky0 0.10 Oats bu 5.25 Steer – Feeder cwt 78 SEED & TREES 0.00 Soybeans bu 5.25 Steer – Slaughter (70% choice) cwt 87 Corn – Grain 50 Ib 90 Sugar Beets ton 34.00 Beef – Holsteins Oats Ib 0.16 Wheat bu 2.60 Steer – Slaughter (70% choice) cwt 70 Soybeans – non GM 50 Ib 21 | | Unit | Cost (\$) | | Unit | Cost | | Unit | Cost (\$) |
|---|-----------------------|-------|-----------|--------------------------------|------|-------|----------------------|----------------------------------|-----------|
| Beans – Navy cwt 17.90 Beef cow – Cull cwt 35 Nitrogen – Anhydrous Ib N 0.20 Corn – Grain bu 2.10 Beef cow – Replacement head 900 Super Phosphate Ib P ₂ 0 ₅ 0.18 Corn – Grain, Organic bu 4.00 Heifer – Weaned cwt 85 Potash Ib K ₂ 0 0.13 Oats bu 1.50 Steer – Calf (400 lb) cwt 93 Lime ton 20.00 Oats Organic bu 1.50 Steer – Feeder cwt 76 Berley bu 0 0 Soybeans bu 5.00 Steer – Veaned cwt 87 Corn – Grain 50 lb 90 Sugar Beets ton 34.00 Beef – Holsteins Oats lb 0.16 90 Barley – Silage ton 17 Dairy Wheat bu 7.20 Corn Silage ton 24 Dairy Calf – Bull head 80 Apple </th <th>FIELD CROPS</th> <th></th> <th></th> <th>LIVESTOCK</th> <th></th> <th></th> <th>FERTILIZER</th> <th></th> <th></th> | FIELD CROPS | | | LIVESTOCK | | | FERTILIZER | | |
| Corn – Grain bu 2.10 Beef cow – Replacement head 900 Super Phosphate Ib P ₂ 0 ₅ 0.16 Corn – Grain, Organic bu 1.20 Steer – Calf (400 lb) cwt 85 Potash Ib K ₂ 0 0.13 Oats bu 1.50 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 87 Corn – Grain 50 lb 99 Sugar Beets ton 34.00 Beef – Holsteins Oats lb 0.16 Wheat bu 2.60 Steer – Calf cwt 79 Soybeans – on GM 50 lb 21 FORAGES Steer – Slaughter (70% choice) cwt 70 Soybeans – on GM 50 lb 15 Barley – Silage ton 17 Dairy Wheat bu 7.20 Corn Silage <t< td=""><td>Barley</td><td>bu</td><td>1.90</td><td>Beef – Colored</td><td></td><td></td><td>Nitrogen – Urea</td><td>lb N</td><td>0.25</td></t<> | Barley | bu | 1.90 | Beef – Colored | | | Nitrogen – Urea | lb N | 0.25 |
| Corn – Grain, Organic bu 4.00 Heifer – Weaned cwt 85 Potash Ib K ₂ 0 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 66 Soybeans bu 5.00 Steer – Weaned cwt 87 Corn – Grain 50 lb 90 Sugar Beets ton 34.00 Beef – Holsteins | Beans – Navy | cwt | 17.90 | Beef cow – Cull | cwt | 35 | Nitrogen – Anhydrous | lb N | 0.20 |
| 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 66 Soybeans bu 15.00 Steer – Weaned cwt 87 Corn – Grain 50 lb 99 Sugar Beets ton 34.00 Beef – Holsteins Oats Ib 0.16 Wheat bu 2.60 Steer – Calf cwt 79 Soybeans – onG 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 Cow – Cull cwt 30 Cherry Trees tree 7.50 Hay – Alfalfa, Later ton 50 | Corn – Grain | bu | 2.10 | Beef cow – Replacement | head | 900 | Super Phosphate | lb P ₂ 0 ₅ | 0.18 |
| Oats, Organic bu 1.50 Steer - Feeder cwt 78 SEED & TREES Soybeans bu 5.25 Steer - Slaughter (70% choice) cwt 76 Barley bu 66 Soybeans bu 15.00 Steer - Weaned cwt 87 Corn - Grain 50 lb 96 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 Cow - Cull cwt 30 Cherry Trees tree 7.50 Hay - Alfalfa, Later ton 65 Ewes - Cull cwt 30 Drying Fuel bu 0.25 Hay - Grass ton 65 | Corn – Grain, Organic | bu | 4.00 | Heifer – Weaned | cwt | 85 | Potash | lb K ₂ 0 | 0.13 |
| Soybeans bu 5.25 Steer – Slaughter (70% choice) cwt 76 Barley bu 60 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 7.50 Hay – Alfalfa, Early ton 70 Dairy Cow – Cull cwt 30 Cherry Trees tree 7.50 Hay – Alfalfa, Later ton 80 Sheep OTHER INPUTS 50 50 Hay – Grass ton 65 | Oats | bu | 1.20 | Steer – Calf (400 lb) | cwt | 93 | Lime | ton | 20.00 |
| Soybeans bu 15.00 Steer – Weaned cwt 87 Corn – Grain 50 lb 90 Sugar Beets ton 34.00 Beef – Holsteins Oats Ib 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 60 Sheep OTHER INPUTS 50 Hay – Grass ton 65 Ewes – Cull cwt 30 Drying Fuel bu 0.22 Haylage – Alfalfa ton 65 Ewes – Cull | Oats, Organic | bu | 1.50 | Steer – Feeder | cwt | 78 | SEED & TREES | | |
| Sugar Beets ton 34.00 Beef – Holsteins Oats Ib 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 66 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 65 Ewes – Cull cwt 30 Drying Fuel bu 0.25 Hay- Mixed ton 65 Ewes – Cull cwt 30 Drying Fuel bu 0.25 Haylage – Alfalfa | Soybeans | bu | 5.25 | Steer – Slaughter (70% choice) | cwt | 76 | Barley | bu | 6 |
| Wheatbu2.60Steer - Calfcwt79Soybeans - GM50 lb21FORAGESSteer - Slaughter (70% choice)cwt70Soybeans - non GM50 lb15Barley - Silageton17DairyWheatbu7.20Corn Silageton24Dairy Calf - Bullhead80Apple Treestree66Hay - Alfalfa, Earlyton70Dairy Cow - Cullcwt30Cherry Treestree7.50Hay - Alfalfa, Laterton80Milkcwt13Blueberry Bushesbush2.50Hay - Grasston50Ewes - Cullcwt30Drying Fuelbu0.25Hay - Mixedton65Ewes - Cullcwt30Drying Fuelbu0.25Hay and Mixedton17Lamb - Fall marketcwt70Interest Rate%9%Pasture - Improvedton80Lamb - Finishedcwt80Marketing, Grainbu0.05FRUITS & VEGETABLESWool - EweIb0.25Milk Haulingcwt0.44ApplesIb0.08Wool - Market LambIb0.10Soybean Meal (48%)ton180Beil Peppers30 Ib8.00SwineSwineSoybean Meal (48%)ton180 | Soybeans | bu | 15.00 | Steer – Weaned | cwt | 87 | Corn – Grain | 50 lb | 90 |
| 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 OTHER INPUTS 50 50 Hay - Mixed ton 65 Ewes - Cull cwt 30 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 - Imp | Sugar Beets | ton | 34.00 | Beef – Holsteins | | | Oats | lb | 0.16 |
| Barley - Silageton17DairyWheatbu7.20Corn Silageton24Dairy Calf - Bullhead80Apple Treestree6Hay - Alfalfa, Earlyton70Dairy Cow - Cullcwt30Cherry Treestree7.50Hay - Alfalfa, Laterton80Milkcwt13Blueberry Bushesbush2.50Hay - Grasston50SheepOTHER INPUTS00.250Hay - Mixedton65Ewes - Cullcwt30Drying Fuelbu0.25Haylage - Alfalfaton40Ewe - Replacementhead110Irrigation WateraCre-4.50Oatlageton17Lamb - Fall marketcwt70Interest Rate%9%Pasture - Improvedton80Lamb - Finishedcwt80Trucking, Grainbu0.15Pasture - Unimprovedton40Ram - Replacementhead300Marketing, Grainbu0.05FRUITS & VEGETABLESWool - EweIb0.25Milk Haulingcwt0.44ApplesIb0.08Wool - Market LambIb0.10Soybean Meal (48%)ton180Bell Peppers30 Ib8.00SwineSwineSwineSwineSwineSwineSwineSwine | Wheat | bu | 2.60 | Steer – Calf | cwt | 79 | Soybeans – GM | 50 lb | 21 |
| Corn Silageton24Dairy Calf – Bullhead80Apple Treestree6Hay – Alfalfa, Earlyton70Dairy Cow – Cullcwt30Cherry Treestree7.50Hay – Alfalfa, Laterton80Milkcwt13Blueberry Bushesbush2.50Hay – Grasston50SheepOTHER INPUTSHay – Mixedton65Ewes – Cullcwt30Drying Fuelbu0.25Haylage – Alfalfaton40Ewe – Replacementhead110Irrigation Wateracre-4.50Oatlageton17Lamb – Fall marketcwt70Interest Rate%9%Pasture – Improvedton80Lamb – Finishedcwt80Marketing, Grainbu0.15FRUITS & VEGETABLESWool – EweIb0.25Milk Haulingcwt0.44ApplesIb0.08Wool – Market LambIb0.10Soybean Meal (48%)ton180Bell Peppers30 Ib8.00SwineSwineSwineSwineSwineSwineSwineSwine | FORAGES | | | Steer – Slaughter (70% choice) | cwt | 70 | Soybeans – non GM | 50 lb | 15 |
| Hay – Alfalfa, Earlyton70Dairy Cow – Cullcwt30Cherry Treestree7.50Hay – Alfalfa, Laterton80Milkcwt13Blueberry Bushesbush2.50Hay – Grasston50SheepOTHER INPUTS00.25Hay – Mixedton65Ewes – Cullcwt30Drying Fuelbu0.25Haylage – Alfalfaton40Ewe – Replacementhead110Irrigation Wateracre-4.50Oatlageton17Lamb – Fall marketcwt70Interest Rate%9%Pasture – Improvedton80Lamb – Finishedcwt80Trucking, Grainbu0.15Pasture – Unimprovedton40Ram – Replacementhead300Marketing, Grainbu0.05FRUITS & VEGETABLESWool – EweIb0.25Milk Haulingcwt0.44ApplesIb0.08Wool – Market LambIb0.10Soybean Meal (48%)ton180Bell Peppers30 Ib8.00SwineIb0.10Soybean Meal (48%)ton180 | Barley – Silage | ton | 17 | Dairy | | | Wheat | bu | 7.20 |
| Hay – Alfalfa, Laterton80Milkcwt13Blueberry Bushesbush2.50Hay – Grasston50SheepOTHER INPUTSHay – Mixedton65Ewes – Cullcwt30Drying Fuelbu0.25Haylage – Alfalfaton40Ewe – Replacementhead110Irrigation Wateracre-4.50Oatlageton17Lamb – Fall marketcwt70Interest Rate%9%Pasture – Improvedton80Lamb – Finishedcwt80Trucking, Grainbu0.15Pasture – Unimprovedton40Ram – Replacementhead300Marketing, Grainbu0.05FRUITS & VEGETABLESWool – EweIb0.25Milk Haulingcwt0.44ApplesIb0.08Wool – Market LambIb0.10Soybean Meal (48%)ton180Bell Peppers30 Ib8.00SwineIb0.10Soybean Meal (48%)ton180 | Corn Silage | ton | 24 | Dairy Calf – Bull | head | 80 | Apple Trees | tree | 6 |
| Hay - Grasston50SheepOTHER INPUTSHay - Mixedton65Ewes - Cullcwt30Drying Fuelbu0.25Haylage - Alfalfaton40Ewe - Replacementhead110Irrigation Wateracre-4.50Oatlageton17Lamb - Fall marketcwt70Interest Rate%9%Pasture - Improvedton80Lamb - Finishedcwt80Trucking, Grainbu0.15Pasture - Unimprovedton40Ram - Replacementhead300Marketing, Grainbu0.05FRUITS & VEGETABLESWool - EweIb0.25Milk Haulingcwt0.44ApplesIb0.08Wool - Market LambIb0.10Soybean Meal (48%)ton180Bell Peppers30 Ib8.00Swine5050505050 | Hay – Alfalfa, Early | ton | 70 | Dairy Cow – Cull | cwt | 30 | Cherry Trees | tree | 7.50 |
| Hay – Mixedton65Ewes – Cullcwt30Drying Fuelbu0.25Haylage – Alfalfaton40Ewe – Replacementhead110Irrigation Wateracre-4.50Oatlageton17Lamb – Fall marketcwt70Interest Rate%9%Pasture – Improvedton80Lamb – Finishedcwt80Trucking, Grainbu0.15Pasture – Unimprovedton40Ram – Replacementhead300Marketing, Grainbu0.05FRUITS & VEGETABLESWool – EweIb0.25Milk Haulingcwt0.44ApplesIb0.08Wool – Market LambIb0.10Soybean Meal (48%)ton180Bell Peppers30 Ib8.00Swine505050505050 | Hay – Alfalfa, Later | ton | 80 | Milk | cwt | 13 | Blueberry Bushes | bush | 2.50 |
| Haylage – Alfalfaton40Ewe – Replacementhead110Irrigation Wateracre-4.50Oatlageton17Lamb – Fall marketcwt70Interest Rate%9%Pasture – Improvedton80Lamb – Finishedcwt80Trucking, Grainbu0.15Pasture – Unimprovedton40Ram – Replacementhead300Marketing, Grainbu0.05FRUITS & VEGETABLESWool – EweIb0.25Milk Haulingcwt0.44ApplesIb0.08Wool – Market LambIb0.10Soybean Meal (48%)ton180Bell Peppers30 Ib8.00SwineSwineSoybean Meal (48%)ton180 | Hay – Grass | ton | 50 | Sheep | | | OTHER INPUTS | | |
| Oatlageton17Lamb – Fall marketcwt70Interest Rate%9%Pasture – Improvedton80Lamb – Finishedcwt80Trucking, Grainbu0.15Pasture – Unimprovedton40Ram – Replacementhead300Marketing, Grainbu0.05FRUITS & VEGETABLESWool – EweIb0.25Milk Haulingcwt0.44ApplesIb0.08Wool – Market LambIb0.10Soybean Meal (48%)ton180Bell Peppers30 Ib8.00SwineAAAAAAA | Hay – Mixed | ton | 65 | Ewes – Cull | cwt | 30 | Drying Fuel | bu | 0.25 |
| Pasture – Improvedton80Lamb – Finishedcwt80Trucking, Grainbu0.15Pasture – Unimprovedton40Ram – Replacementhead300Marketing, Grainbu0.05FRUITS & VEGETABLESWool – EweIb0.25Milk Haulingcwt0.44ApplesIb0.08Wool – Market LambIb0.10Soybean Meal (48%)ton180Bell Peppers30 Ib8.00SwineSwineSoybean Meal (48%)ton180 | Haylage – Alfalfa | ton | 40 | Ewe – Replacement | head | 110 | Irrigation Water | acre- | 4.50 |
| Pasture – Unimprovedton40Ram – Replacementhead300Marketing, Grainbu0.05FRUITS & VEGETABLESWool – EweIb0.25Milk Haulingcwt0.44ApplesIb0.08Wool – Market LambIb0.10Soybean Meal (48%)ton180Bell Peppers30 lb8.00SwineSwineSoybean Meal (48%)ton180 | Oatlage | ton | 17 | Lamb – Fall market | cwt | 70 | Interest Rate | % | 9% |
| FRUITS & VEGETABLES Wool – Ewe Ib 0.25 Milk Hauling cwt 0.44 Apples Ib 0.08 Wool – Market Lamb Ib 0.10 Soybean Meal (48%) ton 180 Bell Peppers 30 lb 8.00 Swine 180 30 <td>Pasture – Improved</td> <td>ton</td> <td>80</td> <td>Lamb – Finished</td> <td>cwt</td> <td>80</td> <td>Trucking, Grain</td> <td>bu</td> <td>0.15</td> | Pasture – Improved | ton | 80 | Lamb – Finished | cwt | 80 | Trucking, Grain | bu | 0.15 |
| Apples Ib 0.08 Wool – Market Lamb Ib 0.10 Soybean Meal (48%) ton 180 Bell Peppers 30 lb 8.00 Swine 5 | Pasture – Unimproved | ton | 40 | Ram – Replacement | head | 300 | Marketing, Grain | bu | 0.05 |
| Bell Peppers 30 lb 8.00 Swine | 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 |
| Blueberries Ib 0.75 Boar – Cull cwt 20 | Bell Peppers | 30 lb | 8.00 | Swine | | | | | |
| | Blueberries | lb | 0.75 | Boar – Cull | cwt | 20 | | | |
| Cherries – Sweet Ib 0.25 Boar – Replacement head 600 | Cherries – Sweet | lb | 0.25 | Boar – Replacement | head | 600 | | | |
| Cherries – Tart Ib 0.23 Hog – Finished cwt 42.00 | Cherries – Tart | lb | 0.23 | Hog – Finished | cwt | 42.00 | | | |
| Pumpkin ton 120 Pig – Feeder (40 lb) head 46.00 | Pumpkin | ton | 120 | Pig – Feeder (40 lb) | head | 46.00 | | | |
| Tomatoes – Fresh mkt 20 lb 10 Pig – Weaned head 26.50 | Tomatoes – Fresh mkt | 20 lb | 10 | Pig – Weaned | head | 26.50 | | | |
| Sow – Cull cwt 26.00 | | | | Sow – Cull | cwt | 26.00 | | | |
| Sow – Replacement head 200 | | | | Sow – Replacement | head | 200 | | | |

Prices and Costs Used in 2001 Budgets



Corn Grain (following legume)

High Yield Goal Conventional Cultural Practices

| | Quantity | Unit | Price per Unit | Total per Acre |
|------------------------------|--------------|--------|-------------------|-------------------|
| | Quantity | Onic | 0111 | Acic |
| REVENUE SOURCES | 5 | | | |
| Grain | 150 | bu | \$ 2.10 | \$ 315.00 |
| TOTAL REVENUE | | | | \$ 315.00 |
| CASH EXPENSES | | | | |
| Seed | 30,000 | kernel | \$ 90.00 | \$ 33.75 |
| Fertilizer ¹ | | | | |
| Nitrogen | 150 | lbs | \$ 0.20 | \$ 30.00 |
| P_2O_5 | 55 | lbs | \$ 0.18 | \$ 9.90 |
| K ₂ 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 | | Ū | | \$ 22.00 |
| Utilities | | | | \$ 6.00 |
| Trucking | 150 | bu | \$ 0.15 | \$ 22.50 |
| Marketing | 150 | bu | \$ 0.05 | \$ 7.50 |
| TOTAL SELECTED C | \$ 226.08 | | | |
| REVENUE ABOVE S | \$ 88.93 | | | |
| Family and regular hir | 3.6 | | | |
| Corn grain equivalent, | bu | | | 150.0 |

1 Assumes 35 lb N contribution from previous crop and 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 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

| · • • – | | | Drico por | | Total par |
|-------------------------------------|-------------|-----------------|-------------------|----|-------------------|
| | Quantity | Unit | Price per Unit | | Total per Acre |
| REVENUE SOURCES | | | | | |
| Grain | 135 | bu | \$ 2.10 | \$ | 283.50 |
| TOTAL REVENUE | | | | \$ | 283.50 |
| CASH EXPENSES | | | | | |
| Seed | 30,000 | kernel | \$ 90.00 | \$ | 33.75 |
| Fertilizer ¹ | | | | | |
| Nitrogen | 155 | lbs | \$ 0.20 | \$ | 31.00 |
| P_2O_5 | 45 | lbs | \$ 0.18 | \$ | 8.10 |
| K ₂ O | 75 | lbs | \$ 0.13 | \$ | 9.75 |
| Lime | | | | \$ | 8.00 |
| Herbicides ² | | | | \$ | 29.25 |
| Insecticides ³ | 5 | lbs | \$ 2.50 | \$ | 12.50 |
| Drying | 135 | bu | \$ 0.25 | \$ | 33.75 |
| Fuel, oil, lube ⁴ | 5 | gal | \$ 1.73 | \$ | 8.63 |
| Repairs | | Ū | | \$ | 22.00 |
| Utilities | | | | \$ | 6.00 |
| Trucking | 135 | bu | \$ 0.15 | \$ | 20.25 |
| Marketing | 135 | bu | \$ 0.05 | \$ | 6.75 |
| TOTAL SELECTED C REVENUE ABOVE S | \$ \$ | 229.73 53.78 | | | |
| Family and regular hir | ed labor, h | nours | | | 3.6 |
| Corn grain equivalent, | bu | | | | 135.0 |

1 Assumes no N contribution from previous crop and 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 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.



Corn Grain (following legume)

Mid-Level Yield Goal **Conventional Cultural Practices**

| – – | • | | | Price per | | Total per |
|------------------------------|------------------|--------|----|-----------|----|-----------|
| | Quantity | Unit | | Unit | | Acre |
| REVENUE SOURCE Grain | ES 120 | hu | ¢ | 2.10 | ¢ | 252.00 |
| 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 |
| P_2O_5 | 45 | lbs | \$ | 0.18 | \$ | 8.10 |
| K ₂ 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 | gal | \$ | 1.73 | \$ | 8.63 |
| Repairs | | 0 | | | \$ | 22.00 |
| Utilities | | bu | | | \$ | 5.50 |
| Trucking | 120 | bu | \$ | 0.15 | \$ | 18.00 |
| Marketing | 120 | bu | \$ | 0.05 | \$ | 6.00 |
| TOTAL SELECTED | \$ | 194.83 | | | | |
| REVENUE ABOVE S | \$ | 57.18 | | | | |
| Family and regular hi | | 3.5 | | | | |
| Corn grain equivalent | t, bu | | | | | 120.0 |

1 Assumes 35 lb N contribution from previous crop and 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 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 Grain (following corn)

Mid-Level Yield Goal Conventional Cultural Practices

| – – | | | | Price per | | Total per |
|------------------------------|-------------|-----------------|----|-----------|----|-----------|
| | Quantity | Unit | | Unit | | Acre |
| REVENUE SOURCES | | | | | | |
| Grain | 108 | bu | \$ | 2.10 | \$ | 226.80 |
| TOTAL REVENUE | | | | | \$ | 226.80 |
| CASH EXPENSES | | | | | | |
| Seed | 26,000 | kernel | \$ | 90.00 | \$ | 29.25 |
| Fertilizer ¹ | | | | | | |
| Nitrogen | 120 | lbs | \$ | 0.20 | \$ | 24.00 |
| P_2O_5 | 40 | lbs | \$ | 0.18 | \$ | 7.20 |
| K ₂ O | 65 | lbs | \$ | 0.13 | \$ | 8.45 |
| Lime | | | | | \$ | 8.00 |
| Herbicides ² | | | | | \$ | 29.25 |
| Insecticides ³ | 5 | lbs | \$ | 2.50 | \$ | 12.50 |
| Drying | 108 | bu | \$ | 0.25 | \$ | 27.00 |
| Fuel, oil, lube ⁴ | 5 | gal | \$ | 1.73 | \$ | 8.63 |
| Repairs | | 5 | • | | \$ | 22.00 |
| Utilities | | | | | \$ | 5.50 |
| Trucking | 108 | bu | \$ | 0.15 | \$ | 16.20 |
| Marketing | 108 | bu | \$ | 0.05 | \$ | 6.00 |
| TOTAL SELECTED O | \$ \$ | 203.98 22.83 | | | | |
| Family and regular hir | ed labor, h | nours | | | | 3.4 |
| Corn grain equivalent, | bu | | | | | 108.0 |

1 Assumes no N contribution from previous crop and 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 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, Irrigated (following legume)

High Yield Goal Conventional Cultural Practices

| - • • | | | Ρ | rice per | Т | otal per |
|---|--------------|-----------|----|----------|----|----------|
| | Quantity | Unit | | Unit | | Acre |
| REVENUE SOUR | CES | | | | | |
| Grain | 200 | bu | \$ | 2.10 | \$ | 420.00 |
| TOTAL REVENUE | i | | | | \$ | 420.00 |
| CASH EXPENSES | 5 | | | | | |
| Seed | 34,000 | kernel | \$ | 90.00 | \$ | 38.25 |
| Fertilizer ¹ | | | | | | |
| Nitrogen | 185 | lb | \$ | 0.20 | \$ | 37.00 |
| P_2O_5 | 90 | lb | \$ | 0.18 | \$ | 16.20 |
| K ₂ O | 200 | lb | \$ | 0.13 | \$ | 26.00 |
| Lime | | | | | \$ | 8.00 |
| Herbicides ² | | | | | \$ | 29.25 |
| Insecticides | | | | | \$ | - |
| Drying | 200 | bu | \$ | 0.25 | \$ | 50.00 |
| Irrigation | 6 | acre-inch | \$ | 4.50 | \$ | 27.00 |
| Fuel, oil, lube ³ | 5.5 | gal | \$ | 1.73 | \$ | 9.49 |
| Repairs | | | | | \$ | 30.00 |
| Utilities | | | | | \$ | 5.50 |
| Trucking | 200 | bu | \$ | 0.15 | \$ | 30.00 |
| Marketing | 200 | bu | \$ | 0.05 | \$ | 10.00 |
| TOTAL SELECTE | D CASH EX | PENSES | | | \$ | 316.69 |
| REVENUE ABOVE SELECTED CASH EXPENSES \$ | | | | | | |
| Family and regular | hired labor, | hours | | | | 3.5 |
| Corn grain equivale | ent, bu | | | | | 200 |

1 Assumes 35 lb N contribution from previous crop and soil test indicating 50 lbs/acre available phosphorus and 150 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 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 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

| | Price per | | | | | | | | | |
|---|------------|--------|----|-------|----|--------|--|--|--|--|
| | Quantity | 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 | lb | \$ | 0.02 | \$ | 60.00 | | | | |
| Cover crop (previous yea | r 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 \$ | | | | | | | | | | |
| REVENUE ABOVE SELECTED CASH EXPENSES \$ | | | | | | | | | | |
| Family and regular hired la | bor, hours | | | | | 3.4 | | | | |
| Corn grain equivalent, bu | | | | | | 100 | | | | |

1 Assumes 50 lb N contribution from previous crop and soil test indicating 50 lbs/acre available phosphorus and 150 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.

4 Weed control with rotary hoeing, row cultivation and labor hired for hand weeding.

Soybeans

High Yield Goal Conventional Culture, Non-GM

| | Quantity | Unit | Price per Unit | Total per Acre |
|------------------------------|----------|-------|-------------------|-------------------|
| REVENUE SOURCES | 5 | | | |
| Soybeans | 50 | bu | \$ 5.25 | \$ 262.50 |
| TOTAL REVENUE | | | | \$ 262.50 |
| CASH EXPENSES | | | | |
| Seed | 200,000 | seeds | \$ 15.00 | \$ 21.43 |
| Fertilizer ¹ | | | | |
| P_2O_5 | 40 | lbs | \$ 0.18 | \$ 7.20 |
| K ₂ 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

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.



Soybeans High Yield Goal No-Till, GM

| | | | Price per | | Total per |
|----------|--|---|--|---|---|
| Quantity | Unit | | Unit | | Acre |
| 50 | b | ¢ | 5.05 | ¢ | 000 50 |
| 50 | bu | \$ | 5.25 | \$ | 262.50 |
| | | | | \$ | 262.50 |
| | | | | | |
| 200,000 | seeds | \$ | 21.00 | \$ | 30.00 |
| | | | | | |
| 40 | lbs | \$ | 0.18 | \$ | 7.20 |
| 105 | lbs | \$ | 0.13 | \$ | 13.65 |
| | | | | \$ | 8.00 |
| 1 | quart | \$ | 9.00 | \$ | 9.00 |
| 2.5 | gallon | \$ | 1.73 | \$ | 4.31 |
| | | | | \$ | 10.00 |
| | | | | \$ | 1.50 |
| 50 | bu | \$ | 0.15 | \$ | 7.50 |
| 50 | bu | \$ | 0.05 | \$ | 2.50 |
| | 50 200,000 40 105 1 2.5 50 | 50 bu 200,000 seeds 40 lbs 105 lbs 1 quart 2.5 gallon 50 bu | 50 bu \$ 200,000 seeds \$ 40 lbs \$ 105 lbs \$ 1 quart \$ 2.5 gallon \$ 50 bu \$ | Quantity Unit Unit 50 bu \$ 5.25 200,000 seeds \$ 21.00 40 lbs \$ 0.18 105 lbs \$ 0.13 1 quart \$ 9.00 2.5 gallon \$ 1.73 50 bu \$ 0.15 | 50 bu \$ 5.25 \$ \$ 200,000 seeds \$ 21.00 \$ 40 lbs \$ 0.18 \$ 105 lbs \$ 0.13 \$ 1 quart \$ 9.00 \$ 2.5 gallon \$ 1.73 \$ \$ 50 bu \$ 0.15 \$ |

| TOTAL SELECTED CASH EXPENSES | \$ 93.66 |
|--------------------------------------|--------------|
| REVENUE ABOVE SELECTED CASH EXPENSES | \$ 168.84 |

Family and regular hired labor, hours

2.2

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.

3.2

Soybeans Mid-Yield Goal Conventional C

Mid-Yield Goal Conventional Culture, Non-GM

| | Quantity | Unit | Price per Unit | Total per Acre |
|------------------------------|----------|-------|-------------------|-------------------|
| REVENUE SOURCE | S | | | |
| Soybeans | 40 | bu | \$ 5.25 | \$ 210.00 |
| TOTAL REVENUE | | | | \$ 210.00 |
| CASH EXPENSES | | | | |
| Seed | 180,000 | seeds | \$ 15.00 | \$ 19.29 |
| Fertilizer ¹ | | | | |
| P_2O_5 | 30 | lbs | \$ 0.18 | \$ 5.40 |
| K ₂ 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 | | 0 | · | \$ 18.00 |
| Utilities | | | | \$ 1.50 |
| Trucking | 40 | bu | \$ 0.15 | \$ 6.00 |
| Marketing | 40 | bu | \$ 0.05 | \$ 2.00 |
| TOTAL SELECTED (| | | | \$ 92.76 |

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

Family and regular hired labor, hours

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.



Soybeans Mid-Yield Goal No-Till, GM

| | Quantity | Unit | | Price per Unit | | Total per Acre |
|-------------------------------|----------|-------|----|-------------------|----|-------------------|
| | 2 | | | | | |
| REVENUE SOURCES | S | | | | | |
| Soybeans | 40 | bu | \$ | 5.25 | \$ | 210.00 |
| | | | Ŧ | | Ŧ | |
| TOTAL REVENUE | | | | | \$ | 210.00 |
| CASH EXPENSES | | | | | | |
| Seed | 180,000 | spads | \$ | 21.00 | \$ | 27.00 |
| Fertilizer ¹ | 100,000 | 36603 | Ψ | 21.00 | Ψ | 27.00 |
| | 30 | lha | ድ | 0.10 | ¢ | E 40 |
| P ₂ O ₅ | | lbs | \$ | 0.18 | \$ | 5.40 |
| K₂O | 90 | lbs | \$ | 0.13 | \$ | 11.70 |
| Lime | | | | | \$ | 7.50 |
| Herbicides ² | 1 | quart | \$ | 9.00 | \$ | 9.00 |
| Fuel, oil, lube ³ | 2.5 | gal | | \$1.50 | \$ | 3.75 |
| Repairs | | • | | | \$ | 10.00 |
| Utilities | | | | | \$ | 1.50 |
| Trucking | 40 | bu | \$ | 0.15 | \$ | 6.00 |
| Marketing | 40 | bu | \$ | 0.05 | \$ | 2.00 |
| - | | | | | | |

| 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 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.

3.0



Wheat (without legume seeding)

High Yield Goal Conventional Cultural Practices

| 71: X | | | | Price per | | Total per | |
|--|----------|-------|----|--------------|----|-----------|--|
| /11 | Quantity | Unit | | Unit | | Acre | |
| | - 0 | | | | | | |
| REVENUE SOURCE | | | | *0 00 | • | 004.00 | |
| Grain | 90 | bu | | \$2.60 | \$ | 234.00 | |
| TOTAL REVENUE | | | | | \$ | 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 | ΟZ | \$ | 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 EXP | ENSES | 5 | | \$ | 131.31 | |
| REVENUE ABOVE | SELECTED | CASH | E) | (PENSES | \$ | 102.69 | |
| Family and regular h | | 3.5 | | | | | |
| Corn grain equivaler | it, bu | | | | | 99 | |
| 1 Assumes soil test indicating 50 lbs/acre available phosphorus and 150 lbs/acre | | | | | | | |

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 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.



Wheat (without legume seeding)

Mid-Level Yield Goal Conventional Cultural Practices

| M | | | | | | |
|---------------------------------------|------------------|------|----|-----------|----|-----------|
| X | 0 | 11 | | Price per | | Total per |
| / 1 | Quantity | Unit | | Unit | | Acre |
| REVENUE SOURCE | S | | | | | |
| Grain | 70 | bu | | \$2.60 | \$ | 182.00 |
| TOTAL REVENUE | | | | | \$ | 182.00 |
| CASH EXPENSES | | | | | | |
| Seed | 100 | lbs | \$ | 0.15 | \$ | 15.00 |
| Fertilizer ¹ | | | | | | |
| Nitrogen | 75 | lbs | \$ | 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 | | U | | | \$ | 15.00 |
| Utilities | | | | | \$ | 2.00 |
| Trucking | 70 | bu | \$ | 0.15 | \$ | 10.50 |
| Marketing | 70 | bu | \$ | 0.05 | \$ | 3.50 |
| TOTAL SELECTED | CASH ΕΧΡΙ | | 2 | | \$ | 97.20 |
| REVENUE ABOVE | | | - | PENSES | \$ | 84.80 |
| Family and regular hired labor, hours | | | | | | 3.5 |
| Corn grain equivalen | t, bu | | | | | 77 |

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 weed control with 1 pint of 2,4-D.



Barley (without legume seeding)

High Yield Goal

| BARLEY | | | | Price per | | Total per |
|---------------------------------------|----------|--------|----|-----------|----|-----------|
| | Quantity | Unit | | Unit | | Acre |
| REVENUE SOURCES | | | | | | |
| Grain | 90 | bu | \$ | 1.90 | \$ | 171.00 |
| TOTAL REVENUE | | | | | \$ | 171.00 |
| 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 | 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 C | \$ | 105.80 | | | | |
| REVENUE ABOVE SE | LECTED C | ASH EX | KP | ENSES | \$ | 65.20 |
| Family and regular hired labor, hours | | | | | | 3.0 |
| Corn grain equivalent, | bu | | | | | 72.0 |

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 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.



Barley (without legume seeding)

Mid-Level Yield Goal

| BARLEY | | | | Price per | Total per |
|------------------------------|--------------|--------|----|-----------|--------------|
| | Quantity | Unit | | Unit | Acre |
| REVENUE SOURCES | | | | | |
| Grain | 60 | bu | \$ | 1.90 | \$ 114.00 |
| TOTAL REVENUE | | | | | \$ 114.00 |
| CASH EXPENSES | | | | | |
| Seed | 100 | lb | \$ | 0.13 | \$ 12.50 |
| Fertilizer ¹ | | lb | | | |
| Nitrogen | 50 | lb | \$ | 0.25 | \$ 12.50 |
| Phosphate | 50 | lb | \$ | 0.18 | \$ 9.00 |
| Potash | 40 | lb | \$ | 0.13 | \$ 5.20 |
| Lime | | | | | \$ 7.50 |
| Herbicides ² | 1 | pint | \$ | 1.65 | \$ 1.65 |
| Fuel, oil, lube ³ | 4 | gal | \$ | 1.73 | \$ 6.90 |
| Equipment repairs | | Ū. | | | \$ 15.00 |
| Utilities, phone | | | | | \$ 1.65 |
| Trucking | 60 | bu | \$ | 0.15 | \$ 9.00 |
| Marketing | 60 | bu | \$ | 0.05 | \$ 3.00 |
| TOTAL SELECTED C | ASH EXPEN | ISES | | | \$ 83.90 |
| REVENUE ABOVE SE | LECTED C | ASH EX | KΡ | ENSES | \$ 30.10 |
| Family and regular hire | d labor, hou | irs | | | 3.0 |
| Corn grain equivalent, | bu | | | | 48.0 |

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 d 2 Assumes weed control with 1 pint of 2,4-D.



Oats High Yield Goal

| | | | Price per | | Total per |
|---------------------------------------|---|--|---|--|---|
| Quantity | Unit | | Unit | | Acre |
| | | | | | |
| | | • | | • | |
| 90 | bu | \$ | 1.20 | \$ | 108.00 |
| | | | | \$ | 108.00 |
| | | | | | |
| 80 | lb | \$ | 0.25 | \$ | 20.00 |
| | | | | | |
| 65 | lb | \$ | 0.25 | \$ | 16.25 |
| 24 | lb | \$ | 0.18 | \$ | 4.32 |
| 40 | lb | \$ | 0.13 | | 5.20 |
| | | | | | 7.50 |
| 0.75 | pint | \$ | 1.65 | \$ | 1.24 |
| 4 | gal | \$ | 1.73 | \$ | 6.90 |
| | | | | \$ | 15.00 |
| | | | | | 1.65 |
| | bu | • | | | 13.50 |
| 90 | bu | \$ | 0.05 | \$ | 4.50 |
| | | | | • | |
| | | ٢P | ENSES | | 96.06 11.94 |
| Family and regular hired labor, hours | | | | | |
| | | | | | 45.0 |
| | 90 80 65 24 40 0.75 4 90 90 90 ASH EXPEI | 90 bu 80 lb 65 lb 24 lb 40 lb 0.75 pint 4 gal 90 bu 90 bu 90 bu | 90 bu \$ 80 lb \$ 65 lb \$ 24 lb \$ 40 lb \$ 0.75 pint \$ 4 gal \$ 90 bu \$ 90 bu \$ 90 bu \$ State | Quantity Unit Unit 90 bu \$ 1.20 80 lb \$ 0.25 65 lb \$ 0.25 24 lb \$ 0.18 40 lb \$ 0.13 0.75 pint \$ 1.65 4 gal \$ 1.73 90 bu \$ 0.15 90 bu \$ 0.15 90 bu \$ 0.05 | Quantity Unit Unit 90 bu \$ 1.20 \$ 90 bu \$ 0.25 \$ 80 lb \$ 0.25 \$ 65 lb \$ 0.25 \$ 24 lb \$ 0.18 \$ 40 lb \$ 0.13 \$ 0.75 pint \$ 1.65 \$ 90 bu \$ 0.15 \$ 90 bu \$ 0.05 \$ |

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 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

| OATS Here | | | | Price per | | Total per | | |
|------------------------------|---------------------------|------|----|-----------|----------|-----------|--|--|
| | 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 CA | ASH EXPEN | ISES | | | \$ | 77.60 | | |
| REVENUE ABOVE SE | | | ٢P | ENSES | \$ | 0.40 | | |
| Family and regular hire | d labor, hou | rs | | | | 3.0 | | |
| Corn grain equivalent, I | Corn grain equivalent, bu | | | | | | | |

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 d

2 Assumes weed control with 1 pint of 2,4-D.



Soybeans, Organic

Realistic Yield Goal ORGANIC Cultural Practices

| ····· | | | | Price per | | Total per |
|---------------------------------------|----------|--------|----|-----------|----|-----------|
| | Quantity | Unit | | Unit | | 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 | lb | \$ | 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 CA | | NSES | | | \$ | 130.68 |
| REVENUE ABOVE SELECTED CASH EXPENSES | | | | | | 290.08 |
| Family and regular hired labor, hours | | | | | | 3.2 |

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 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.



Oats, Organic

Realistic Yield Goal ORGANIC Cultural Practices

| 1 A ME ILIT | | | | | | |
|--------------------------------|-----------------|-----------|-----|---------------|-------|----------------|
| | | | | Price per | | Total per |
| the proceeding where we'r | Quantity | Unit | | Unit | | Acre |
| REVENUE SOURCES | | | | | | |
| Oats, cert organic | 90 | bu | ¢ | 1.50 | \$ | 135.00 |
| Cais, cert organic | 90 | bu | ψ | 1.50 | Ψ | 155.00 |
| TOTAL REVENUE | | | | | \$ | 135.00 |
| CASH EXPENSES | | | | | | |
| Seed | 65 | lb | \$ | 0.25 | \$ | 16.25 |
| Fertilizer ¹ | | | | | | |
| Potassium sulfate | 100 | lb | \$ | 0.15 | \$ | 15.00 |
| Cover crop | 12 | lb | \$ | 1.25 | \$ | 15.00 |
| Lime | | | | | \$ | 8.00 |
| Fuel, oil, lube ² | 4 | gal | \$ | 1.73 | \$ | 6.90 |
| Repairs | | | | | \$ | 15.00 |
| Utilities | | | | | \$ | 1.50 |
| Trucking | 90 | bu | \$ | 0.30 | \$ | 27.00 |
| Marketing | 90 | bu | \$ | 0.10 | \$ | 9.00 |
| TOTAL SELECTED CA | | ISES | | | \$ | 113.65 |
| REVENUE ABOVE SE | | | XF | PENSES | \$ | 21.35 |
| Family and regular hire | d labor, hou | irs | | | | 3.0 |
| Corn grain equivalent, t | | | | | | 45 |
| 1 Assumes soil test indicating | 50 lbs/acre ava | ilable ph | osp | phorus and 15 | 0 lbs | acre available |

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.

Sugar Beets

| 1 | | | | Price per | | Total per |
|---|--------------|-------|----|-----------|----------|------------------|
| 1 | Quantity | Unit | | Unit | | Acre |
| 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 CAS REVENUE ABOVE SEL | | - | EN | SES | \$ \$ | 366.85 279.15 |
| 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.

Beans, Navy

Price per Total per Quantity Unit Unit Acre **REVENUE SOURCES** 19 cwt \$ 16.00 \$ 304.00 Navy beans TOTAL REVENUE \$ 304.00 CASH EXPENSES Seed & treatment \$ 37.50 Fertilizer 12.50 Nitrogen 0.25 \$ 50 lb \$ Phosphate 60 lb \$ 0.18 \$ 10.80 0.13 \$ 15.60 Potash 120 lb \$ Herbicides \$ 26.50 Fungicides/Insecticides¹ \$ -Fuel, oil, lube² 8.5 1.73 \$ 14.66 gal \$ Equipment repairs \$ 20.00 10.00 \$ hours \$ 12.00 Hoeing 1.2 Utilities, phone \$ 2.00 0.25 \$ Trucking 4.75 cwt \$ 19 19 cwt \$ 0.15 \$ 2.85 Marketing 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.

Corn Silage (following legume)

Mid-Level Yield Goal Conventional Cultural Practices

| V JAV KAG | | | Price per | Total per |
|------------------------------|---------------|--------|-------------|--------------|
| , î. v | Quantity | Unit | Unit | Acre |
| REVENUE SOURC | CES 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 |
| P_2O_5 | 65 | lbs | \$ 0.18 | \$ 11.70 |
| K ₂ 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 EXPENSES233.64REVENUE ABOVE SELECTED CASH EXPENSES\$246.36

Family and regular hired labor, hours

7.0

1 Assumes 35 lb N contribution from previous crop; and 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 post-emergence application of 1 pt Buctril and 1 pt 4L atrazine; and pre-emergence 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

| NAT. | | | | Price per | | Total per |
|------------------------------|----------|--------|-----|-----------|----|-----------|
| - 11 4 | Quantity | Unit | | Unit | | Acre |
| REVENUE SOURC | | | | | | |
| 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 |
| P_2O_5 | 60 | lbs | \$ | 0.18 | \$ | 10.80 |
| K ₂ 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 | | 0 | · | | \$ | 28.00 |
| Utilities | | | | | \$ | 5.50 |
| Trucking | 18 | te | с\$ | 1.50 | \$ | 27.00 |
| TOTAL SELECTED | | | | | ¢ | 238 58 |

TOTAL SELECTED CASH EXPENSES238.58REVENUE ABOVE SELECTED CASH EXPENSES\$193.43

Family and regular hired labor, hours

7.0

1 Assumes no N contribution from previous crop; and 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 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.

| Fou | | | | | | |
|---|----------|------|----|-------------------|----------------|------------------------|
| - Alexandree | Quantity | Unit | | Price per Unit | | Total per Acre |
| REVENUE SOURCES | S | | | | | |
| Alfalfa haylage | 12 | ton | \$ | 40 | \$ | 480.00 |
| TOTAL REVENUE | | | | | \$ | 480.00 |
| CASH EXPENSES Fertilizer | | | | | | |
| Phosphate | 90 | lb | \$ | 0.18 | \$ | 16.20 |
| Potash Insecticides Crop supplies, pack | 300 s | lb | \$ | 0.13 | \$ \$ \$ | 39.00 8.00 2.00 |
| Fuel, oil, lube ¹ Equipment repairs Utilities, phone | 14 | gal | \$ | 1.73 | \$ \$ \$ | 24.15 35.90 1.50 |
| Trucking | 12 | ton | \$ | 1.50 | \$ | 18.00 |
| | | | | | | |
| TOTAL SELECTED CASH EXPENSES REVENUE ABOVE SELECTED CASH EXPENSES | | | | | | 144.75 335.25 |

| REVENUE ABOVE SELECTED CASH EXPENSES \$ | 335.25 |
|---|--------|
| Family and regular hired labor, hours | 6.0 |
| Dry hay equivalent, tons ² | 6.8 |

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.

| W 8.9 1 | Haylage, <i>I</i> Three Cut Sys | | a | | |
|------------------------------|------------------------------------|------|----|-----------|--------------|
| Sec. | | | | Price per | Total per |
| - | Quantity | Unit | | Unit | Acre |
| REVENUE SOUR | CES | | | | |
| Alfalfa haylage | 8 | ton | \$ | 40 | \$ 320.00 |
| TOTAL REVENUE | E | | | | \$ 320.00 |
| CASH EXPENSES | 5 | | | | |
| Phosphate | 60 | lb | \$ | 0.18 | \$ 10.80 |
| Potash | 270 | lb | \$ | 0.13 | \$ 35.10 |
| Insecticides | | | | | \$ 4.00 |
| Crop supplies, pa | acks | | | | \$ 2.00 |
| Fuel, oil, lube ¹ | 10.5 | gal | \$ | 1.73 | \$ 18.11 |
| Equipment repair | rs | | | | \$ 35.90 |
| Utilities, phone | | | | | \$ 1.50 |
| Trucking | 8 | ton | \$ | 1.50 | \$ 12.00 |

| TOTAL SELECTED CASH EXPENSESSREVENUE ABOVE SELECTED CASH EXPENSESS | \$ \$ | 119.41 200.59 |
|--|----------|------------------|
| Family and regular hired labor, hours | | 5.0 |
| Dry hay equivalent, tons ² | | 4.5 |

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.

Four Cut System

1 000 I b Round Bales

| 365 Yeld | 1,000 LD Rour | id Bale | S | | | |
|------------------------------|---------------|------------------|----|-----------|----|-----------|
| Ke | | | | Price per | | Total per |
| | Quantity | Unit | | Unit | | Acre |
| REVENUE SOUI | RCES | | | | | |
| Alfalfa hay | 6 | ton | \$ | 80.00 | \$ | 480 |
| TOTAL REVENU | JE | | | | \$ | 480.00 |
| CASH EXPENSE | ES | | | | | |
| Fertilizer | | | | | | |
| Phosphate | 80 | lb | \$ | 0.18 | \$ | 14.40 |
| Potash | 300 | lb | \$ | 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 repa | airs | 3 | Ŧ | | \$ | 33.70 |
| Utilities, phone | | | | | \$ | 1.50 |
| Transportation | 6 | ton | \$ | 3.00 | \$ | 18.00 |
| | | | Ŧ | | * | |
| TOTAL SELECT REVENUE ABO | \$ \$ | 146.40 333.60 | | | | |

Family and regular hired labor, hours27.0Dry hay equivalent, tons36.0

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

| Ker | Quantity | Unit | | Price per Unit | | Total per Acre |
|---|----------------|-------------------|----------------|----------------------|----------------------|---------------------------------|
| REVENUE SOURCE | S 4 | ton | \$ | 80.00 | \$ | 320 |
| TOTAL REVENUE | | | | | \$ | 320.00 |
| CASH EXPENSES Fertilizer Phosphate Potash Insecticides Twine, wrap | 50 240 8 | lb lb bales | \$ \$ \$ | 0.18 0.13 1.50 | \$ \$ \$ \$ | 9.00 31.20 4.00 12.00 |
| Fuel, oil, lube ¹ Equipment repairs Utilities, phone Transportation | 6 | gal ton | \$ \$ | 1.73 3.00 | \$ \$ \$ \$ | 10.35 25.90 1.50 12.00 |

| TOTAL SELECTED CASH EXPENSES REVENUE ABOVE SELECTED CASH EXPENSES | \$ \$ | 105.95 214.05 |
|--|----------|------------------|
| Family and regular hired labor, hours ² | | 5.5 |
| Dry hay equivalent, tons ³ | | 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.

| This section The | ay, Mixe ree Cut Sys 100 Lb Rour | tem | s | | | |
|---|---|-------------------|----|-------------------|----------|-------------------|
| 有到時 | Quantity | Unit | | Price per Unit | | Total per Acre |
| REVENUE SOURCE | S | | | | | |
| Mixed hay | 4 | ton | \$ | 65.00 | \$ | 260.00 |
| TOTAL REVENUE | | | | | \$ | 260.00 |
| CASH EXPENSES Fertilizer | | | | | | |
| Phosphate | 40 | lb | \$ | 0.18 | \$ | 7.20 |
| Potash Insecticides | 240 | lb | \$ | 0.13 | \$ \$ | 31.20 |
| Twine, wrap | 8 | bales | | \$1.50 | э \$ | 8.00 12.00 |
| Fuel, oil, lube ¹ | 8 | gal | | \$1.73 | \$ | 13.80 |
| Equipment repairs | U | gai | | ψσ | \$ | 25.90 |
| Building repairs | | | | | \$ | 2.20 |
| Utilities, phone | | | | | \$ | 1.50 |
| TOTAL SELECTED REVENUE ABOVE S | | | | PENSES | \$ \$ | 101.80 158.20 |
| Family and regular hi | red labor, h | ours ² | | | | 5.5 |
| Dry hay equivalent, to | ons ³ | | | | | 4.0 |
| 1 Includes a \$1.50 per gallo cover cost of oil and lubricat 2 Labor hours required are l | tion materials. | | | | | |

3 Assumes 88% moisture.

| A state | Hay, Mixe Two Cut Syste 1,000 Lb Roun | m | s | | | | |
|----------------------------|---|------|----|-----------|---------|--|--|
| 44 2000 | | | | Price per | | | |
| Aballer | Quantity | Unit | | Unit | | | |
| REVENUE SOU | RCES 2 | ton | \$ | 65.00 | \$ | | |
| TOTAL REVENU | JE | | | | \$ | | |
| CASH EXPENSE Fertilizer | | | • | 0.40 | ¢ | | |
| Potash Insecticides | 40 | lb | \$ | 0.13 | ֆ \$ | | |

| Potash | 40 | lb | \$ 0.13 | \$ 5.20 |
|------------------------------|----|-------|------------|-------------|
| Insecticides | | | | \$ 4.00 |
| Twine, wrap | 4 | bales | \$1.50 | \$ 6.00 |
| Fuel, oil, lube ¹ | 5 | gal | \$1.73 | \$ 8.63 |
| Equipment repairs | | | | \$ 18.30 |
| Building repairs | | | | \$ 2.20 |
| Utilities, phone | | | | \$ 1.50 |

Total per

130.00

130.00

Acre

| TOTAL SELECTED CASH EXPENSES REVENUE ABOVE SELECTED CASH EXPENSES | \$ \$ | 45.83 84.18 |
|--|----------|----------------|
| Family and regular hired labor, hours ² | | 3.7 |
| Dry hay equivalent, tons ³ | | 2.0 |

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.

Alfalfa, Spring Seeded With Oats as Companion Crop

| | Quantity | Unit | | Price per Unit | | Total per Acre |
|------------------------------|------------------|------|----|-------------------|----------|--------------------|
| REVENUE SOURCE | S | | | | | |
| 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 | | | - | PENSES | \$ \$ | 253.83 (149.83) |
| Family and regular hi | red labor, he | ours | | | | 6.5 |
| Dry hay equivalent, to | ons ² | | | | | 6.8 |

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, Grass 1,000 Lb Round Bales

| ALL DARKS | | | | | | |
|------------------------------|----------|-------|----|-----------|----|-----------|
| A DESCRIPTION | | | | Price per | | Total per |
| 111/4 | Quantity | Unit | | Unit | | Acre |
| REVENUE SOURCE | :e | | | | | |
| Grass hay | .5 | ton | ¢ | 50.00 | \$ | 150.00 |
| Glass hay | 5 | ton | ψ | 50.00 | Ψ | 150.00 |
| TOTAL REVENUE | | | | | \$ | 150.00 |
| CASH EXPENSES | | | | | | |
| Fertilizer | | | | | | |
| Nitrogen | 65 | lb | \$ | 0.25 | \$ | 16.25 |
| Phosphate | 40 | lb | \$ | 0.18 | \$ | 7.20 |
| Potash | 85 | lb | \$ | 0.13 | \$ | 11.05 |
| Lime | 0.25 | ton | | \$20.00 | \$ | 5.00 |
| Insecticides | | | | | \$ | 3.75 |
| Twine, wrap | 6 | bales | | \$1.50 | \$ | 9.00 |
| Fuel, oil, lube ¹ | 7 | gal | | \$1.73 | \$ | 12.08 |
| Equipment repairs | | Ũ | | | \$ | 8.00 |
| Utilities, phone | | | | | \$ | 0.50 |

| TOTAL SELECTED CASH EXPENSES REVENUE ABOVE SELECTED CASH EXPENSES | \$ \$ | 72.83 77.18 |
|--|----------|----------------|
| Family and regular hired labor, hours ² | | 5.0 |
| Dry hay equivalent, tons ³ | | 3.0 |

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.



Pasture

Improved Grass/Legume, Intensively Grazed

| | _ | | Ρ | rice per | | Total per |
|-------------------------------------|-----------------|------|----|----------|----------------|-----------------|
| | Quantity | Unit | | Unit | | Acre |
| REVENUE SOURCES | 5 | | | | | |
| Grass/Legume ¹ | 3 | ton | \$ | 65.00 | \$ | 195.00 |
| TOTAL REVENUE | | | | | \$ | 195.00 |
| CASH EXPENSES | | | | | | |
| Fertilizer | | | | | | |
| Nitrogen | 100 | lb | \$ | 0.25 | \$ | 25.00 |
| Phosphate | 30 | lb | \$ | 0.18 | \$ | 5.40 |
| Potash | 50 | lb | \$ | 0.13 | \$ | 6.50 |
| Fuel, oil, lube ² | 2 | gal | | \$1.73 | \$ | 3.45 |
| Equipment repairs | | | | | \$ \$ \$ | 5.40 |
| Fence repairs | | | | | \$ | 2.00 |
| Water system repair | S | | | | \$ \$ | 1.00 |
| Utilities, phone | | | | | Φ | 0.50 |
| | | | | | | |
| TOTAL SELECTED (REVENUE ABOVE S | - | | | PENSES | \$ 5\$ | 49.25 145.75 |
| Family and regular hir | ed labor, ho | ours | | | | 3.0 |
| Dry hay equivalent, to | ns 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.



Pasture

Unimproved, Continuously Grazed

| Lille Will | Quantity | Unit | Ρ | rice per Unit | | Total per Acre |
|---|-----------------|------|----|------------------|----------------|----------------------|
| REVENUE SOURCES Grass/Legume | S 1.5 | ton | \$ | 40.00 | \$ | 60.00 |
| TOTAL REVENUE | | | | | \$ | 60.00 |
| CASH EXPENSES Fence repairs Water system repai Utilities, phone | rs | | | | \$ \$ \$ | 1.50 0.50 0.50 |

| TOTAL SELECTED CASH EXPENSES\$REVENUE ABOVE SELECTED CASH EXPENSES\$ | 2.50 57.50 |
|--|---------------|
| Family and regular hired labor, hours | 0.5 |
| Dry hay equivalent, tons ² | 1.7 |
| | |

1 Tonnage harvested is 50% of what could be harvested mechanically. 2 Assumes 88% moisture. Revenue de la companya de la company

Barley Silage 7 Ton

| BARLEY | | | | Price per | | Total per |
|------------------------------|------------------|------|----|-----------|----|-----------------|
| | Quantity | Unit | | Unit | | Acre |
| REVENUE SOURCES | S 7 | ton | \$ | 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 17.43 |
| Family and regular hi | ed labor, h | ours | | | | 3.0 |
| Dry hay equivalent, to | ons ⁴ | | | | | 4.0 |

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 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 6.5 Ton

| | | | | Price per | | Total per |
|-------------------------------------|------------------|----------------|----|-----------|----|-----------|
| OATS | Quantity | Unit | | Unit | | Acre |
| | S 6.5 | ton | ¢ | 17.00 | \$ | 110.50 |
| Silage | 0.5 | lon | φ | 17.00 | φ | 110.50 |
| TOTAL REVENUE | | | | | \$ | 110.50 |
| CASH EXPENSES | | | | | | |
| Seed | 80 | lb | \$ | 0.16 | \$ | 12.50 |
| Fertilizer ¹ | | lb | | | | |
| Nitrogen | 65 | lb | \$ | 0.25 | \$ | 16.25 |
| Phosphate | 24 | lb | \$ | 0.18 | \$ | 4.32 |
| Potash | 60 | lb | \$ | 0.13 | \$ | 7.80 |
| 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 | 6.5 | ton | \$ | 1.50 | \$ | 9.75 |
| TOTAL SELECTED (REVENUE ABOVE S | \$ \$ | 86.60 23.91 | | | | |
| Family and regular hi | red labor, h | ours | | | | 3.0 |
| Dry hay equivalent, to | ons ⁴ | | | | | 3.7 |

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 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 Vear

| | Planting Year | | | |
|-------------------------------|----------------|--------|-------------------|-------------------|
| | Quantity | Unit | Price per Unit | Total per Acre |
| | CES | | | |
| TOTAL REVENUE | E | | | \$ - |
| CASH EXPENSES | 5 | | | |
| Trees | 182 | trees | \$ 6.00 | \$ 1,092 |
| Custom plant | 182 | trees | \$ 0.30 | \$ 55 |
| Training material | S | | | \$ 10 |
| Fertilizer ¹ | | | | \$ 12 |
| Herbicides ² | | | | \$ 14 |
| Pesticides ³ | | | | \$ 30 |
| Rodenticides | | | | \$ 6 |
| Mouse guards | 182 | guards | \$ 0.25 | \$ 45 |
| Wildlife control ⁴ | 182 | trees | \$ 0.05 | \$ 9 |
| Fuel | | | | \$ 30 |
| Repairs | | | | \$ 15 |
| Utilities | | | | \$ 5 |
| TOTAL SELECTE | D CASH EXPE | INSES | | \$ 1,322 |
| Family and regular | hired labor, h | ours⁵ | | 19.6 |

1 Includes urea for trees and \$11 for sod fertilizer.

2 Includes Gramoxone (twice), Surlfan and 2,4-D.

3 Includes Nova (twice), Provado (twice) and Lorsban 50W.

4 Includes ribbons, soap, etc.

5 Includes Plowing - 0.5 hr, Disking - 0.3 hr, Stone & Root Picking - 3 hr, Layout & Marking - 1 hr, Watering - 2 hr, Training - 3 hr, Spraying Herbicide - 0.8 hr, Airblast Spraying - 0.2 hr, Fertilizer Spreading - 0.3 hr, Sod Establishment - 0.9 hr, Spreading bait and Applying Mouse Guards - 5.3 hr, Wildlife Control - 0.3 hr, Management - 2 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

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

| | Quantity | Unit | | Price per Unit | | Total per Acre |
|---------------------------------|----------|------------------|----------|-------------------|----------|-------------------|
| REVENUE SOURCES | | | • | | ^ | 0.000 |
| Apples | 33,600 | lb | \$ | 0.08 | \$ | 2,688 |
| TOTAL REVENUE | | | | | \$ | 2,688 |
| 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 |
| Fuel | | | | | \$ | 50 |
| Repairs | | | | | \$ | 23 |
| Utilities | | | | | \$ | 10 |
| TOTAL SELECTED CA | \$ | 858 | | | | |
| Family and regular hire | | urs ⁶ | | | | 40.5 |

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 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

| \smile | Quantity | Unit | | Price per Unit | | Total per Acre |
|--|----------|-------|----|-------------------|----------------|-------------------|
| REVENUE SOURCES | | | | | | |
| TOTAL REVENUE | | | | | \$ | - |
| CASH EXPENSES | | | | | | |
| Trees | 519 | trees | \$ | 6.00 | \$ | 3,111 |
| Custom plant | 519 | trees | \$ | 0.30 | \$ | 156 |
| Trellis | | | | | \$ | 1,248 |
| Fertilizer ¹ | | | | | \$ | 13 |
| Herbicides ² | | | | | \$ | 20 |
| Pesticides ³ | | | | | \$ | 22 |
| Rodenticides | | | | | \$ | 6 |
| Wildlife control ⁴ | 519 | trees | \$ | 0.04 | \$ | 21 |
| Trickle irrigation | | | Ŧ | | | 933 |
| Training materials | | | | | \$ \$ \$ | 20 |
| Fuel | | | | | \$ | 18 |
| Repairs | | | | | \$ | 33 |
| Utilities | | | | | \$ | 5 |
| TOTAL SELECTED CASH EXPENSES \$ | | | | | | |
| Family and regular hired labor, hours ⁵ | | | | | | |

1 Includes urea for trees and \$11 for sod fertilizer.

2 Includes Gramoxone (twice), Surlfan and 2,4-D.

3 Includes Nova (twice), Provado (twice) and Lorsban 50W.

4 Includes ribbons, soap, etc.

5 Includes Plowing - 0.5 hr, Disking - 0.3 hr, Stone & Root Picking - 3 hr, Layout & Marking - 1 hr, Trellis - 40 hr, Trickle Irrigation - 8 hr, Training - 15 hr, Spraying Herbicide - 1.1 hr, Airblast Spraying - 0.4 hr, Fertilizer Spreading - 0.4 hr, Sod Establishment - 0.9 hr, Spreading Mouse Bait - 0.4 hr, Wildlife Control - 0.3 hr, Management - 2 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

Full Bearing (6th Year of Stand Life)

| \smile | Quantity | Unit | Price per Unit | Total per Acre |
|--|-----------|-------------------|-------------------|-------------------|
| REVENUE SOURCES | | | | |
| Apples | 33,600 | lb | \$ 0.08 | \$ 2,688 |
| TOTAL REVENUE | | | | \$ 2,688 |
| CASH EXPENSES | | | | |
| Trees | 5.2 | trees | \$ 6.00 | \$ 31 |
| Training materials | | | | \$ 3 |
| Fertilizer ¹ | | | | \$ 52 |
| Foliar fertilizers ² | | | | \$ 24 |
| Herbicide ³ | | | | \$ 18 |
| Pesticides ⁴ | | | | \$ 450 |
| Rodenticide | | | | \$ 6 |
| Wildlife control ⁵ | 519 | trees | \$ 0.04 | \$ 21 |
| Scouting | | | | \$ 15 |
| Bees | | | | \$ 35 |
| Fuel | | | | \$ 81 |
| Repairs | | | | \$ 22 |
| Utilities | | | | \$ 10 |
| TOTAL SELECTED CA | \$ 768 | | | |
| Family and regular hire | | ours ⁶ | | 48.1 |
| Includes urea instach and li | imo | | | |

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.

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

| Ň | |
|---|----|
| R | 32 |

Blueberries, Fresh Market

Planting Year

| Plant | ting Year | | | |
|-------------------------|-----------|--------|-------------------|-------------------|
| | Quantity | Unit | Price per Unit | Total per Acre |
| REVENUE SOURCES | | | | |
| | | | | |
| TOTAL REVENUE | | | | \$ - |
| CASH EXPENSES | | | | |
| Rye cover crop | | | | \$ 7 |
| Bushes | 1210 t | oushes | \$ 2.50 | \$ 3,025 |
| Herbicides ¹ | | | | \$ 229 |
| Irrigation operation | | | | \$ 25 |
| Fuel | | | | \$ 16 |
| Repairs | | | | \$ 8 |
| Utilities | | | | \$ 5 |

| TOTAL SELECTED CASH EXPENSES | \$ | 3,315 |
|------------------------------|----|-------|
|------------------------------|----|-------|

 Family and regular hired labor, hours²
 24.4

 1 Includes 2 - 1 gal applications of Paraquat, 1 - 1.5 gal application of Surflan and spot spraying of perennials with RoundUp.

2 Includes Planting - 6 hr, Deflowering - 4 hr, Weed spraying - 1.38 hr, Planting cover crop - 0.3 hr, Hand hoeing - 10 hr, Tilling - 0.7 hr, Spot spraying perennials - 1 hr, Management - 1 hr.

See Michigan State University Extension Bulletins E-0154 "2001 Fruit Spraying Calendar," E-1456 "Blueberry Varieties for Michigan" and E-2011 "Managing the Nutrition of Highbush Blueberries" for more detail.



Blueberries, Fresh Market

Full Bearing (Year 6 of production)

| Full Bearing (Year 6 of production) | | | | | | | | |
|---|---|--|---------------------------------------|--|----------------------------------|---|--|--|
| ~ ~ | Quantity | Unit | I | Price per Unit | | Total per Acre | | |
| REVENUE SOURCES Blueberries | 2,700 | lb | \$ | 0.75 | \$ | 2,025 | | |
| TOTAL REVENUE | | | | | \$ | 2,025 | | |
| CASH EXPENSES | | | | | | | | |
| Plant replacement Fertilizer | 5 b | oushes | \$ | 2.50 | \$ | 13 | | |
| Nitrogen | 75 | lb | | \$0.25 | \$ | 19 | | |
| Lime | 50 | lb | \$ | 0.01 | \$ | 1 | | |
| Herbicides ¹ | | | | | \$ | 21 | | |
| Insecticides ² | | | | | \$ | 45 | | |
| Fungicides ³ | | | | | \$ | 269 | | |
| Bird control | | | | | \$ \$ \$ \$ \$ \$ | 15 | | |
| Fuel | | | | | \$ | 41 | | |
| Repairs | | | | | \$ | 18 | | |
| Plant inspection | | | | | \$ | 11 | | |
| Pest management/cor | nsulting | | | | \$ | 25 | | |
| Utilities | | | | | \$ | 5 | | |
| TOTAL SELECTED CA | SH EXPEN | SES | | | \$ | 482 | | |
| Family and regular hired | d labor, hou | rs ⁴ | | | | 22.8 | | |
| 1 Includes 1 - 2 pt application of application of Sinbar, and spot 2 Includes 2 applications of Gu 3 Includes 1 application of Inda Alliete. 4 Includes Brush removal - 1 h 0.7 hr, Tilling - 0.7 hr, Insect au | of Paraquat, 1 spraying of pe uthion, 1 applic ar, 2 of Bravo, nr, Fertilizing - nd Disease an | - 2 lb ap erennials ation of 1 of Cap 0.7 hr, V d Wildlif | with Imid otec, Veec e co | n RoundUp an and 1 of 1 of Benela d control - 1 ntrol - 3.95 | f Mala ate, a .79 h | 1 - 0.5 lb athion. Ind 2 of Ir, Mowing - | | |
| replacement - 2 hr, Irrigation re | | | | | 04 5- | uit Currenia a | | |

See Michigan State University Extension Bulletins E-0154 "2001 Fruit Spraying Calendar," E-1456 "Blueberry Varieties for Michigan" and E-2011 "Managing the Nutrition of Highbush Blueberries" for more detail.



Cherries, Tart Processing Fruit

Planting Year

Price per **Total per** Quantity Unit Unit Acre **REVENUE SOURCES TOTAL REVENUE** \$ CASH EXPENSES Trees 125 7.50 \$ 938 trees \$ Fertilizer 227 \$ Chemicals¹ \$ 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 732-932-9762 for more detail.



Cherries, Tart Processing Fruit Nonbearing Year

| | Nonbeamig rea | ai | | |
|-------------|---------------|------|-----------|-----------|
| \$ 0 | | | Price per | Total per |
| | Quantity | Unit | Unit | Acre |

REVENUE SOURCES

| TOTAL REVENUE | | | | \$ | - |
|--|-----|-------|------------|----------------------------------|--------------------------------|
| CASH EXPENSES Replacement trees Fertilizer Chemicals | 125 | trees | \$ 0.38 | \$ \$ | 15 48 |
| Insect control Disease control Weed control Deer control Mouse control Growth regulator | 125 | trees | \$ 0.45 | \$ \$ \$ \$ \$ \$ | 7 40 18 56 8 22 |

| TOTAL SELECTED CASH EXPENSES | \$ | 214 |
|---|--------------------|----------|
| Family and regular hired labor, hours ¹ | | 10.0 |
| 1 Includes Pruning - 3 hr, Replanting, fertilizer and chemica | al 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 732-932-

9762 for more detail.

Cherries, Tart

Processing Fruit Full Bearing

| | Bearing | | | | | |
|---------------------------------|-----------------|----------|----|------------------|----------|-------------------|
| | Quantity | Unit | Ρ | rice per Unit | | Total per Acre |
| 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 \$ | | | | | | |
| Family and regular hire | 24.5 | | | | | |
| 1 Includes fuel, repairs, pad o | peration and ut | ilities. | | | | |

2 Includes Pruning/Brush Removal - 11 hrs, Fertilizer Spreading - 0.3 hr, Spaying - 2.5 hr, Mowing - 1 hr and Repairs and Supervision - 9.75 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 732-932-

9762 for more detail.



Cherries, Sweet

Processing, Machine Harvested Planting Year

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

REVENUE SOURCES

| TOTAL REVENUE | | | | \$ - |
|-------------------------|-----|--------|------------|-----------|
| CASH EXPENSES | | | | |
| Trees | 105 | trees | \$ 7.50 | \$ 788 |
| Fertilizer | | | | \$ 227 |
| Chemicals ¹ | | | | \$ 251 |
| Tree guards | 105 | guards | \$ 0.35 | \$ 37 |
| Sod cover seed | | | | \$ 63 |
| Straw dupplies | | | | \$ 79 |
| Custom hire - site prep | | | | \$ 450 |

| TOTAL SELECTED CASH EXPENSES \$ | 1,894 |
|---|-------|
| 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 chemial application and cover seeding - 3 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.

| | Cheri Process Nonbea | ing, Ma | chine | | vested | | |
|--|----------------------------|---------|-----------------|----|------------------|--|-------------------|
| | Qu | antity | Unit | Ρ | rice per Unit | | Total per Acre |
| REVENUE SOUR | RCES | | | | | | |
| TOTAL REVENU | E | | | | | \$ | - |
| CASH EXPENSE Replacement tr Fertilizer | - | 105 | trees | \$ | 0.38 | \$ \$ | 23 40 |
| Chemicals Insect control Disease control Weed control | | 405 | t ua a a | ¢ | 0.45 | \$ \$ \$ \$ \$ \$ \$ | 7 40 18 |
| Deer control Mouse control | | 105 | trees | \$ | 0.45 | ֆ \$ | 47 8 |
| | | | | | | | |
| TOTAL SELECT | ED CASH | I EXPE | NSES | | | \$ | 183 |

1 Includes Pruning - 3 hr, Replanting, fertilizer and chemical application - 4 hr, Deer

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.

Family and regular hired labor, hours¹

control - 2 hr, Mowing - 1 hr, Painting trunks, misc - 1 hr.

| TOTAL REVENUE | | | | \$ 1,625 |
|-----------------------------|-----------|----------------|------------|-------------|
| CASH EXPENSES | | | | |
| Fertilizer | | | | \$ 42 |
| Lime | | | | \$ 27 |
| Weed control | | | | \$ 19 |
| Spray program | | | | \$ 245 |
| Borer spray | | | | \$ 8 |
| Scouting/consulting | | | | \$ 25 |
| Ethryl | | | | \$ 13 |
| Bee rental | | | | \$ 68 |
| Custom harvest | | | | \$ 229 |
| Trucking | 6,500 | lb | \$ 0.01 | \$ 65 |
| Marketing | 6,500 | lb | \$ 0.07 | \$ 423 |
| | | | | |
| TOTAL SELECTED CASH | EXPENS | SES | | \$ 1,164 |
| Family and regular hired la | bor, hour | s ¹ | | 20.2 |

Cherries, Sweet

Full Bearing

REVENUE SOURCES

Processing cherries

Processing, Machine Harvested

Quantity Unit

6,500

Price per

lb \$

Unit

0.25 \$

Total per

Acre

1,625

1 Includes Pruning/Brush Removal - 11 hrs, Fertilizer Spreading - 0.5 hr, Spraying - 2.7 hr, Mowing - 1 hr and Repairs and Supervision - 5 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.

11.0



Peppers, Bell

Fresh Market Non-irrigated

| Price per Total p | | | | | | | | | |
|--|----------|------------|------|-------------|----------|-------------------|--|--|--|
| | Quantity | Unit | ٣ | Unit | | Total per Acre | | | |
| REVENUE SOURCES | suantity | Unit | | Unit | | Aue | | | |
| Peppers | 600 | 30 lb | \$ | 8.00 | \$ | 4,800 | | | |
| TOTAL REVENUE | | | | | \$ | 4,800 | | | |
| CASH EXPENSES | | | | | | | | | |
| Plants | 12 | 1000 | \$ | 40.00 | \$ | 480 | | | |
| Fertilizer | | | | | | | | | |
| Nitrogen | 140 | lb | \$ | 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 | - | | Ŧ | | \$ | 12 | | | |
| Trucking | | | | | \$ \$ | 96 | | | |
| Marketing | | | | | \$ | 24 | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| TOTAL SELECTED CA | SH EXPE | INSES | | | \$ | 2,224 | | | |
| Family and regular hired | | | | | | 15.0 | | | |
| 1 Refer to Michigan State Unive | | | | | | | | | |
| and Nematode Control for Com http://www.msue.msu.edu/pest | - | eladies" t | or m | ore detall. | Avall | able at | | | |
| 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

| | | , | P | rice 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 | lb | \$ | 0.25 | \$ | 13 |
| Phosphate ¹ | 65 | lb | \$ | 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 | g) | | | | \$ | 24 |
| Seasonal labor | 67 | hr | \$ | 5.50 | \$ | 369 |
| Trucking | | | | | \$ | 124 |
| Marketing | | | | | \$ | 28 |
| TOTAL SELECTED CA | ASH EXPE | INSES | | | \$ | 5,146 |
| Family and regular hire | d labor, ho | ours 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.

To From Not

5 Includes hoeing and harvesting labor.

Tomatoes Fresh Market

Non-irrigated

| alense we | Ingaleu | | F | Price 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 | 1) | | | | \$ 27 |
| Seasonal labor ⁵ | 720 | hr | \$ | 5.50 | \$ 3,960 |
| Utilities, phone | | | · | | \$ 35 |
| Trucking | | | | | \$ 185 |
| Marketing | | | | | \$ 140 |
| | | | | | |
| TOTAL SELECTED CA | SH EXPE | NSES | | | \$ 6,308 |
| Family and regular hire | | | | | 25.0 |
| Refer to Michigan State Univ and Nematode Control for Cor http://www.msue.msu.edu/pes Generally in 2 applications. Generally in 1 application. Generally in 7-8 applications | versity Extens nmercial Vege stpubs/E312/ | ion bullet | | | |

| Fres | matoes h Market tic over Bed | ds, Stał | | | I, Dri | |
|-----------------------------|---|----------|----|-----------|--------|-----------|
| and a | | | F | Price per | | Total per |
| | Quantity | Unit | | Unit | | Acre |
| REVENUE SOURCES Tomato | 1500 | 20 lb | \$ | 10.00 | \$ | 15,000 |
| | 1500 | 2010 | Ψ | 10.00 | - | |
| 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 | g) | | | | \$ | 27 |
| Seasonal Labor ⁷ | 738 | hr | \$ | 5.50 | \$ | 4,059 |
| Utilities, phone | | | | | \$ | 35 |
| Trucking | | | | | \$ | 200 |
| Marketing | _ | | | | \$ | 240 |

Family and regular hired labor, hours

TOTAL SELECTED CASH EXPENSES

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/

\$

7,964 25.0

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.

Pumpkins

ſ

| Jack-o-l | Lantern |
|----------|---------|
|----------|---------|

| | | | | | | Total per | |
|--|--------------------------------------|------|----|--------|----------------|-----------|--|
| | Pric. | | | | | | |
| | Quantity | Unit | | Unit | | Acre | |
| REVENUE SOURCES | | | | | | | |
| Pumpkins | 16 | ton | \$ | 120.00 | \$ | 1,920 | |
| TOTAL REVENUE | | | | | \$ | 1,920 | |
| CASH EXPENSES | | | | | | | |
| Seed Fertilizer | 4 | lb | \$ | 32.00 | \$ | 128 | |
| Nitrogen | 100 | lb | \$ | 0.25 | \$ | 25 | |
| Phosphate | 50 | lb | \$ | 0.18 | \$ | 9 | |
| Potash | 100 | lb | \$ | 0.13 | \$ | 13 | |
| Lime | 0.5 | ton | \$ | 20.00 | \$ | 10 | |
| Herbicides ^{1,2} | | | | | \$ | 40 | |
| Insecticides ^{1,3} | | | | | \$ | 60 | |
| Fungicides ^{1,4} | | | | | \$ \$ \$ | 180 | |
| Gas, fuel, oil | | | | | \$ | 32 | |
| Equipment repairs | | | | | \$ | 85 | |
| Custom hire (spraying) | 6 | арр | \$ | 9.00 | \$ | 54 | |
| Seasonal labor ⁵ | 70 | hr | \$ | 5.50 | \$ | 385 | |
| Utilities, phone | | | | | \$ \$ | 6 | |
| Trucking | | | | | \$ | 300 | |
| Marketing | | | | | \$ | 45 | |
| TOTAL SELECTED CAS | H EXPENSI | ES | | | \$ | 1,372 | |
| Family and regular hired la | abor, hours | | | | | 30.0 | |
| 1 Refer to Michigan State Univers Nematode Control for Commercia http://www.msue.msu.edu/pestpu 2 Generally in 1 application. | ity Extension bu I Vegetables" fo | | | | | | |
| 3 Generally in 2 applications. | | | | | | | |
| 4 Generally in 4-5 applications. | | | | | | | |
| 5 Includes harvesting labor. | | | | | | | |



Pasture (AUM)¹

days.

Beef Cow-Calf

April Calves Sold as Feeder Cattle

| April Calves Sold as Feeder Cattle | | | | | | | |
|---------------------------------------|------------|------|----|---------|----------|----------|--|
| | | | Pr | ice per | Т | otal per | |
| | Quantity | Unit | | Unit | Cov | / & Calf | |
| REVENUE SOURCES | | | | | | | |
| Steer sales | 215 | lb | \$ | 0.87 | \$ | 187 | |
| 0.43 Steers weaned @ Heifer sales | 500 | | ¢ | 0.85 | ¢ | 175 | |
| 0.43 Heifers weaned @ | 206 480 | lb | \$ | 0.65 | \$ | 175 | |
| Cull cows | 200 | lb | \$ | 0.35 | \$ | 70 | |
| 20% rate 100 | | | Ψ | 0.00 | Ψ | 10 | |
| TOTAL REVENUE | | | | | \$ | 432 | |
| CASH EXPENSES | | | | | | | |
| Purchased Feed | | | | | | | |
| Forage & concentrate | | | | | \$ | 18 | |
| Minerals, vitamins | | | | | \$ | 5 | |
| Supplements | | | | | \$ \$ | 13 | |
| Breeding | | | | | \$ | 3 | |
| Vet & medicine | | | | | \$ ¢ | 15 5 | |
| Livestock supplies Fuel & oil | | | | | \$ \$ | 5 6 | |
| Equipment & building repairs | | | | | φ \$ | 6 | |
| Utilities | | | | | \$ | 4 | |
| Hauling & trucking | | | | | \$ | 3 | |
| Marketing | | | | | \$ | 2 | |
| Replacement cow | 0.20 | hd | \$ | 900 | \$ | 180 | |
| | | | | | | | |
| TOTAL SELECTED CASH EXPENS | SES | | | | \$ | 260 | |
| Family and regular hired labor, hours | | | | | - | 8.0 | |
| Corn grain equivalent, bu (as fed) | - | | | | | 3.0 | |
| Dry hay equivalent, tons (as fed) | | | | | | 2.0 | |
| Corn silage, tons (as fed) | | | | | | 0.0 | |
| | | | | | | 0.0 | |

1 Assumes cow weight of 1200 lb and average calf weight of 300 lb with both on pasture for 165



Stocker Calf - Colored

Fall Purchase, Feed:Gain - 10 lb, Winter Drylot Gain - 1.5 lb/day, Summer Grazing - 2 lb/day

| | | | P | rice per | Total per | |
|--|-----------------|------------|--------|--------------|-----------|-----------------|
| | Quantity | Unit | | Unit | | Stee |
| REVENUE SOURCES | | | | | • | |
| Steer sales | 883 | lb | \$ | 0.78 | \$ | 684 |
| TOTAL REVENUE | | | | | \$ | 684 |
| CASH EXPENSES | | | | | - | |
| Steer purchase | 400 | lb | \$ | 0.93 | \$ | 372 |
| 3% Death loss | 12 | lb | \$ | 0.93 | \$ | 11 |
| Feed - Winter Drylot | | | | | | |
| Minerals, vitamins | 182 | days | \$ | 0.04 | \$ | 7 |
| Feed - Spring/Summer Grazing Minerals, ionophores | 123 | days | \$ | 0.07 | \$ | 8 |
| Vet & medicine | 123 | uays | φ | 0.07 | φ \$ | 14 |
| Implants | | | | | \$ | 2 |
| Parasite control | | | | | \$ | 5 |
| Equipment & building repairs ¹ | | | | | \$ | 10 |
| Marketing | | | | | | |
| Sales commissions | | | | | \$ | 8 |
| Transportation | | | | | \$ | 5 |
| Beef check-off | | | | | \$ | 1 |
| Interest | | | | | | |
| Cattle ² | 9.0% | | | | \$ | 29 |
| TOTAL SELECTED CASH EXPENS | | | | | \$ | 472 |
| Family and regular hired labor, hours | 3 | | | | | 4.1 |
| Corn grain equivalent, bu (as fed) | | | | | | 12.2 |
| Dry hay equivalent, tons (as fed) | | | | | | 1.2 |
| Corn silage, tons (as fed) | | | | | | 0.0 |
| Pasture (AUM) ⁴ | | | | | | 3.0 |
| 1 Yardage costs are generally charged at \$0.29 per h building repair, labor, fuel and bedding costs as well a | as a manure c | redit. | | | | |
| 2 Assumes interest is charged on purchase price plus on feed. | s death loss co | ost for th | ne fra | action of th | e yea | Ir the steer is |
| 3 Uses time per animal per day (about 1 minute) from fewer economies of scale in stocker operations and a Assumes 0.5 hour per steer for the summer. | - | | | | | |

31

8.3



Yearling Feeder Steer - Colored

70% Grade Choice, Feed:Gain - 7 lb, Ave Daily Gain - 3 lb

See Footnote 2 for adjustment factors for heavier placements and heifers.

| | | | | Price | Total per |
|---------------------------------|----------------------|------|----|---------|-----------|
| | Quantity | Unit | pe | er Unit | Steer |
| REVENUE SOURCES | | | | | |
| Steer sales ¹ | 1275 | lb | \$ | 0.76 | \$ 969 |
| TOTAL REVENUE | | | | | \$ 969 |
| CASH EXPENSES | | | | | |
| Steer purchase ² | 725 | lb | \$ | 0.83 | \$ 602 |
| 1% Death loss ³ | 7.25 | lb | \$ | 0.83 | \$ 6 |
| Purchased Feed | | | | | |
| Soybean meal 48% (as fed) | 194 | days | \$ | 0.09 | \$ 17 |
| Urea | 194 | days | | | \$ 2 |
| Minerals, vitamins | 194 | days | \$ | 0.04 | \$ 8 |
| lonophore | 194 | days | \$ | 0.02 | \$ 4 |
| Vet & medicine | | | | | \$ 8 |
| Implants | 194 | days | | \$0.04 | \$ 8 |
| Equipment & building repairs | s ⁴ | | | | \$ 11 |
| Marketing | | | | | |
| Sales commissions | | | | | \$ 8 |
| Transportation | | | | | \$ 5 |
| Beef check-off | | | | | \$ 1 |
| Interest | | | | | |
| | 9.0% | | | | \$ 29 |
| TOTAL SELECTED CASH EX | (PENSES | | | | \$ 709 |
| Family and regular hired labor | , hours ⁴ | | | | 3.1 |
| Corn grain equivalent, bu (as f | ed) | | | | 69.8 |
| Dry hay equivalent, tons (as fe | ed) | | | | 0.0 |
| Corn silage, tons (as fed) | | | | | 1.1 |

1 Shrunk weight at feedlot.

2 For every 100 lb increase in purchase weight, increase feed per lb of gain by 0.5 lb and increase sale weight by 25 lb. For heifers, reduce weight on feed by 10%, weight off feed by 10%, ADG by 10% and increase feed required per lb gain by 5%.

3 Majority of death loss occurs immediately after purchase. Budget applies to number of head sold, not number of head purchased.

4 Yardage costs are generally charged at \$0.29 per head per day. This charge includes equipment and building repair, labor, fuel and bedding costs as well as a manure credit.

5 Assumes interest is charged on purchase price plus death loss cost for the fraction of the year the steer is on feed.



Feeder Steer Calf - Holstein

70% Grade Choice, Feed:Gain - 6.8 lb, Ave Daily Gain - 2.9 lb

| Picture courtesy of Farm Sanctuary. | | | | Price | | Total per |
|-------------------------------------|----------|------|----|----------------|----|-----------|
| | Quantity | Unit | pe | er Unit | | Steer |
| REVENUE SOURCES | | | | | | |
| Steer sales ¹ | 1250 | lb | \$ | 0.70 | \$ | 875 |
| TOTAL REVENUE | | | | | \$ | 875 |
| CASH EXPENSES | | | | | | |
| Steer purchase | 400 | lb | \$ | 0.79 | \$ | 316 |
| 2% Death loss ² | 8 | lb | \$ | 0.79 | \$ | 6 |
| Purchased Feed | | | | | | |
| Soybean meal 48% (as fed) | 310 | days | \$ | 0.11 | \$ | 34 |
| Urea | 310 | days | \$ | 0.01 | \$ | 3 |
| Minerals, vitamins | 310 | , | \$ | 0.03 | \$ | 9 |
| lonophore | 310 | days | \$ | 0.02 | \$ | 7 |
| Vet & medicine | | | | • • • • | \$ | 14 |
| Implants | 310 | days | | \$0.04 | \$ | 12 |
| Equipment & building repairs | ຮັ | | | | \$ | 17 |
| Marketing | | | | | | |
| Sales commissions | | | | | \$ | 8 |
| Transportation | | | | | \$ | 5 |
| Beef check-off | | | | | \$ | 1 |
| Interest Cattle4 | 9.0% | | | | \$ | 25 |
| | | | | | - | |
| TOTAL SELECTED CASH EX | (PENSES | | | | \$ | 458 |
| Family and regular hired labor | | 5.0 | | | | |
| Corn grain equivalent, bu (as fed) | | | | | | 101.4 |
| Dry hay equivalent, tons (as fe | ed) | | | | | 0.0 |
| Corn silage, tons (as fed) | | | | | | 1.5 |

1 Shrunk weight at feedlot.

2 Majority of death loss occurs immediately after purchase. Budget applies to number of head sold, not number of head purchased.

3 Yardage costs are generally charged at \$0.29 per head per day. This charge includes equipment and building repair, labor, fuel and bedding costs as well as a manure credit.

4 Assumes interest is charged on purchase price plus death loss cost for the fraction of the year the steer is on feed.

| - | 3 | Ewe | and | Laı | nbs | | | | |
|---|---|-----------|-----------|--------------------|-----------|-----|-------------------------|-------|---|
| C1891- | The P | March | - Apri | l lamb | bing | | | | |
| IT INTR | | | 0112 | ntity | Unit | Pri | ice per Unit | Tot | al per Ewe & Lambs |
| | | | Qua | intity | Unit | | Unit | | a Lamos |
| REVENUE SO | URCE | S | | | | | | | |
| Market lambs | | | | 195 | lb | \$ | 0.70 | \$ | 137 |
| 0 | 1.5 | hd @ | 130 | 04 | | • | 0.00 | • | 0 |
| Cull ewes | 0.15 | hd @ | 140 | 21 | lb | \$ | 0.30 | \$ | 6 |
| Ewe's wool | 0.15 | nu w | 140 | 8 | lb | \$ | 0.25 | \$ | 2 |
| | 1 | hd @ | 8 | 0 | | Ψ | 0.20 | Ψ | - |
| | | | | | | | | | |
| TOTAL REVEN | NUE | | | | | | | \$ | 145 |
| CASH EXPENS Purchased Fi Soybean me Minerals, vit Vet & medici Livestock sup Gas, fuel & o Equipment re Building repa Utilities & pho Hauling, mar Shearing Miscellaneou Ewe replacer Ram replace | eed eal 48% tamins ne oplies oil epairs one keting s ment | | 1) | 0.4 0.2 0.01 | cwt hd | | 9.00 10.00 300.00 | ***** | 4 3 6 2 1 1 1 4 1 3 22 3 |
| TOTAL SELEC | TED (| CASH E | EXPE | NSES | 6 | | | \$ | 52 |
| Family and reg | ular hi | red labo | or, ho | urs | | | | | 4.0 |
| Corn grain equ | ivalent | , bu (as | s fed) | | | | | | 8.0 |
| Dry hay equiva | lent, to | ons (as | fed) | | | | | | 1.0 |
| 1 Includes \$2.50 pe | r lamb m | arketed a | and \$0.5 | 50 per o | cull ewe | mar | keted. | | |



Finishing Lamb

| 530 | | | Dri | ice per | | Total per |
|--|-----------|----------|----------|--------------|--|---|
| | Quantity | Unit | | Unit | | Lamb |
| REVENUE SOURCES Marketlamb Wool | 140 3 | lb Ib | \$ \$ | 0.80 0.10 | \$ \$ | 112 0 |
| TOTAL REVENUE | | | | | \$ | 112 |
| CASH EXPENSES Feeder lamb 2% Death loss ¹ Purchased Feed | 90 1.8 | lb Ib | \$ \$ | 0.80 0.80 | \$ \$ | 72 1 |
| Soybean meal 48% (as fed Minerals, vitamins Vet & medicine Livestock supplies Gas, fuel & oil Equipment repairs Building repairs Utilities & phone Hauling, marketing Shearing Miscellaneous |) 0.4 | cwt | \$ | 9.00 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 4 4 2 4 1 1 0 5 4 2 1 |
| TOTAL SELECTED CASH EXPENSES\$Family and regular hired labor, hours\$Corn grain equivalent, bu (as fed)\$Dry hay equivalent, tons (as fed)\$1 Majority of death loss occurs immediately after purchase. | | | | | | |

Dairy Cow

18,000 lbs Milk Sold

| | | | | Price per | Total per | |
|---|------------------|------|------|-----------|----------------|-------|
| | Quantity | Unit | | Unit | | Cow |
| REVENUE SOURCES | | | | | | |
| Milk | 180 | cwt | \$ | 13.00 | \$ | 2,340 |
| Cull cows | 400 | lb | \$ | 0.30 | \$ | 120 |
| 32% Rate, 1250 lb Cows | | | | | | |
| Bull calf ¹ | 0.4 | hd | \$ | 80.00 | \$ | 32 |
| Heifer calf ¹ | 0.3 | hd | \$ | 120.00 | \$ | 36 |
| TOTAL REVENUE | | | | | \$ | 2,528 |
| CASH EXPENSES | | | | | | |
| Purchased Feed | | | | | | |
| Soybean meal 48% (as fed) | 0.6 | ton | \$ | 180 | \$ | 108 |
| Other feeds | | | | | \$ | 350 |
| Breeding | | | | | \$ \$ \$ | 30 |
| Vet & medicine | | | | | | 100 |
| Livestock supplies ² | | | | | \$ | 110 |
| Gas, fuel & oil | | | | | \$ \$ \$ | 20 |
| Equipment repairs | | | | | \$ | 82 |
| Building repairs | | | | | | 53 |
| Custom hire ³ | | | | | \$ \$ \$ | 12 |
| Utilities & phone | | | | | \$ | 45 |
| Milk trucking | 180 | cwt | \$ | 0.44 | | 79 |
| Marketing ⁴ | | | | | \$ | 40 |
| Promotion | 180 | cwt | \$ | 0.15 | \$ | 27 |
| Miscellaneous ⁵ | | | | | \$ | 25 |
| TOTAL SELECTED CASH EX | (PENSES | 5 | | | \$ | 1,081 |
| Family and regular hired labor | , hours | | | | | 62.0 |
| Corn grain equivalent, bu (as f | ed) ⁶ | | | | | 67.7 |
| Dry hay equivalent, tons (as fe | ed) ⁷ | | | | | 9.0 |
| Corn silage, tons (as fed) ⁷ 1 Assumes 14 month calving interval, 9 | | | - I' | 050/ | | 11.1 |

1 Assumes 14 month calving interval, 90% of calves born alive, 95% survive the first year, 55% born are bulls and 45% heifers.

2 Includes primarily milking and parlor supplies, tags, bedding, and pest control.

3 Includes hoof trimming and trucking for cull cows, calves and dead stock.

4 Includes dues and costs to market cull cows and calves.

5 Includes insurance, lease and other costs.

6 Includes 10% increase to account for shrink, storage and feeding losses and refusals.

7 Includes 30% increase to account for shrink, storage and feeding losses and refusals.



Dairy Cow

22,000 lbs Milk Sold

| 22,000 lbs l | VIIIK Sola | | | | | |
|---|------------------|------|----|-----------|----------------------------|-----------|
| | | | | Price per | | Total per |
| | Quantity | Unit | | Unit | | Cow |
| REVENUE SOURCES | | | | | | |
| Milk | 220 | cwt | \$ | 13.00 | \$ | 2,860 |
| Cull cows | 400 | lb | \$ | 0.30 | \$ | 120 |
| 32% Rate, 1250 lb Cows | | | | | | |
| Bull calf ¹ | 0.4 | hd | \$ | 80.00 | \$ | 32 |
| Heifer calf ¹ | 0.3 | hd | \$ | 120.00 | \$ | 36 |
| TOTAL REVENUE | | | | | \$ | 3,048 |
| CASH EXPENSES | | | | | | |
| Purchased Feed | | | | | | |
| Soybean meal 48% (as fed) | 0.9 | ton | \$ | 180 | \$ | 162 |
| Other feeds | | | | | \$ | 396 |
| Breeding | | | | | \$ \$ \$ | 30 |
| Vet & medicine | | | | | \$ | 110 |
| Livestock supplies ² | | | | | \$ | 130 |
| Gas, fuel & oil | | | | | \$ \$ \$ \$ \$ | 20 |
| Equipment repairs | | | | | \$ | 82 |
| Building repairs | | | | | \$ | 53 |
| Custom hire ³ | | | | | \$ | 12 |
| Utilities & phone | | | | | \$ \$ | 50 |
| Milk trucking | 220 | cwt | \$ | 0.44 | \$ | 97 |
| Marketing ⁴ | | | | | \$ | 40 |
| Promotion | 220 | cwt | \$ | 0.15 | \$ | 33 |
| Miscellaneous ⁵ | | | | | \$ | 25 |
| TOTAL SELECTED CASH EX | PENSE | 5 | | | \$ | 1,240 |
| Family and regular hired labor | , hours | | | | | 62.0 |
| Corn grain equivalent, bu (as f | ed) ⁶ | | | | | 95.6 |
| Dry hay equivalent, tons (as fe | ed) ⁷ | | | | | 8.4 |
| Corn silage, tons (as fed) ⁷ | | | P | 050/ | | 10.3 |

1 Assumes 14 month calving interval, 90% of calves born alive, 95% survive the first year, 55% born are bulls and 45% heifers.

2 Includes primarily milking and parlor supplies, tags, bedding, and pest control.

3 Includes hoof trimming and trucking for cull cows, calves and dead stock.

4 Includes dues and costs to market cull cows and calves.

5 Includes insurance, lease and other costs.

6 Includes 10% increase to account for shrink, storage and feeding losses and refusals.

7 Includes 30% increase to account for shrink, storage and feeding losses and refusals.

Dairy Cow

26,000 lbs Milk Sold

| | | | F | rice per | | Total per |
|---|-------------------|-------|----|----------|----------------------|-----------|
| | Quantity | Unit | | Unit | | Cow |
| REVENUE SOURCES | | | | | | |
| Milk | 260 | cwt | | \$13.00 | \$ | 3,380 |
| Cull cows | 400 | lb | | \$0.30 | \$ | 120 |
| 32% Rate, 1250 lb Cows | | | | | | |
| Bull calf ¹ | 0.4 | hd | | \$80.00 | \$ | 32 |
| Heifer calf ¹ | 0.3 | hd | \$ | 120.00 | \$ | 36 |
| TOTAL REVENUE | | | | | \$ | 3,568 |
| CASH EXPENSES | | | | | | |
| Purchased Feed | | | | | | |
| Soybean meal 48% (as fed) | 1.1 | ton | \$ | 180 | \$ | 198 |
| Other feeds | | | | | \$ | 460 |
| Breeding | | | | | \$ | 30 |
| Vet & medicine | | | | | \$ | 125 |
| bST ² | 14 | doses | | \$5.80 | \$ | 81 |
| Livestock supplies ³ | | | | | \$ \$ \$ \$ | 150 |
| Gas, fuel & oil | | | | | \$ | 20 |
| Equipment repairs | | | | | \$ | 82 |
| Building repairs | | | | | | 53 |
| Custom hire ⁴ | | | | | \$ \$ | 12 |
| Utilities & phone | | | | • | \$ | 68 |
| Milk trucking | 260 | cwt | | \$0.44 | \$ | 114 |
| Marketing ⁵ | | | | | \$ | 40 |
| Promotion | 260 | cwt | \$ | 0.15 | \$ | 39 |
| Miscellaneous ⁶ | | | | | \$ | 25 |
| TOTAL SELECTED CASH E | XPENSES | | | | \$ | 1,498 |
| Family and regular hired labo | or, hours | | | | | 62.0 |
| Corn grain equivalent, bu (as | fed) ⁷ | | | | | 115.5 |
| Dry hay equivalent, tons (as | fed) ⁸ | | | | | 8.1 |
| Corn silage, tons (as fed) ⁸ | | | | | | 9.9 |

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.



Dairy Heifer

Birth to Freshening at 24 Months of Age

| NY | | | Price per | Total per |
|----|----------|------|-----------|-----------|
| 00 | Quantity | Unit | Unit | Heifer |

REVENUE SOURCES

Assume that heifer is raised for use within herd.

| TOTAL REVENUE CASH EXPENSES Purchased Feed | | | | \$ - |
|--|-----|-----|------------|----------|
| Milk Replacer | 60 | lb | \$ 0.78 | \$ 47 |
| Calf Starter | 100 | lb | \$ 0.20 | \$ 20 |
| Soybean meal 48% (as fed) | 0.3 | ton | \$ 180 | \$ 63 |
| Mineral/Vitamin Mix | 132 | lb | \$ 0.23 | \$ 30 |
| Breeding | | | | \$ 25 |
| Vet & medicine | | | | \$ 22 |
| Livestock supplies | | | | \$ 20 |
| Gas, fuel & oil | | | | \$ 10 |
| Equipment repairs | | | | \$ 40 |
| Building repairs | | | | \$ 20 |
| Utilities & phone | | | | \$ 30 |
| Miscellaneous | | | | \$ 8 |

| TOTAL SELECTED CASH EXPENSES | \$ 335 |
|---|-----------|
| Family and regular hired labor, hours | 15.0 |
| Corn grain equivalent, bu (as fed) ¹ | 22.6 |
| Dry hay equivalent, tons (as fed) ² | 2.1 |
| Corn silage, tons (as fed) ² | 6.4 |

1 Includes 10% increase to account for shrink, storage and feeding losses and refusals. 2 Includes 30% increase to account for shrink, storage and feeding losses and refusals.

Dairy Cow and Replacement¹

18,000 lbs Milk Sold

| | | | Ρ | rice per | Total per Cow | |
|---|----------------------|------|----|----------|----------------------|----------|
| | Quantity | Unit | | Unit | | & Rplcmt |
| REVENUE SOURCES | | | | | | |
| Milk | 180 | cwt | \$ | 13.00 | \$ | 2,340 |
| Cull cows | 400 | lb | \$ | 0.30 | \$ | 120 |
| 32% Rate, 1250 lb Cows | | | | | | |
| Bull calf | 0.4 | hd | \$ | 80.00 | \$ | 32 |
| TOTAL REVENUE | | | | | \$ | 2,492 |
| CASH EXPENSES | | | | | | |
| Purchased Feed | | | | | | |
| Milk replacer & calf starter | | | | | \$ | 30 |
| Soybean meal 48% (as fe | d) 0.8 | ton | \$ | 180 | \$ | 136 |
| Other feeds | | | | | \$ \$ \$ \$ | 364 |
| Breeding | | | | | \$ | 35 |
| Vet & medicine | | | | | \$ | 110 |
| Livestock supplies ² | | | | | \$ \$ \$ \$ | 119 |
| Gas, fuel & oil | | | | | \$ | 25 |
| Equipment repairs | | | | | \$ | 100 |
| Building repairs | | | | | | 62 |
| Custom hire ³ | | | | | \$ \$ | 12 |
| Utilities & phone | | | | | \$ | 59 |
| Milk trucking | 180 | cwt | \$ | 0.44 | \$ | 79 |
| Marketing ⁴ | | | | | \$ | 40 |
| Promotion | 180 | cwt | \$ | 0.15 | \$ | 27 |
| Miscellaneous⁵ | | | | | \$ | 29 |
| TOTAL SELECTED CASH | EXPENSE | S | | | \$ | 1,226 |
| Family and regular hired lab | or, hours | | | | | 68.8 |
| Corn grain equivalent, bu (a | is fed) ⁶ | | | | | 77.9 |
| Dry hay equivalent, tons (as | s fed) ⁷ | | | | | 9.9 |
| Corn silage, tons (as fed) ⁷ | | | | | | 14.0 |

1 Assumes 0.9 replacement heifers per cow.

2 Includes primarily milking and parlor supplies, tags, bedding, and pest control.

3 Includes hoof trimming and trucking for cull cows, calves and dead stock.

4 Includes dues and costs to market cull cows and calves.

5 Includes insurance, lease and other costs.

6 Includes 10% increase to account for shrink, storage and feeding losses and refusals.

7 Includes 30% increase to account for shrink, storage and feeding losses and refusals.



Dairy Cow and Replacement¹

22,000 lbs Milk Sold

| 22,00 | JU IDS IVIIIK | 2010 | - | niee nor | - | |
|---|-------------------|--------|---------|----------|----------------|-------------|
| | Quertit. | 110-14 | Р | rice per | Го | tal per Cow |
| REVENUE SOURCES | Quantity | Unit | | Unit | | & Rplcmt |
| Milk | 220 | cwt | \$ | 13.00 | \$ | 2,860 |
| Cull cows | 400 | lb | ֆ \$ | 0.30 | ֆ \$ | 2,800 |
| 32% Rate, 1250 lb Cows | 400 | 10 | Ψ | 0.00 | Ψ | 120 |
| Bull calf | 0.4 | hd | \$ | 80.00 | \$ | 32 |
| TOTAL REVENUE | | | | | \$ | 3,012 |
| CASH EXPENSES | | | | | | |
| Purchased Feed | | | | | | |
| Milk replacer & calf starter | | | | | \$ | 30 |
| Soybean meal 48% (as fed |) 1.1 | lb | \$ | 180 | \$ | 190 |
| Other feeds | | | | | \$ \$ \$ | 410 |
| Breeding | | | | | \$ | 35 |
| Vet & medicine | | | | | | 120 |
| Livestock supplies ² | | | | | \$ \$ \$ | 139 |
| Gas, fuel & oil | | | | | \$ | 25 |
| Equipment repairs | | | | | \$ | 100 |
| Building repairs | | | | | \$ | 62 |
| Custom hire ³ | | | | | \$ | 12 |
| Utilities & phone | | | | | \$ | 64 |
| Milk trucking | 220 | cwt | \$ | 0.44 | \$ | 97 |
| Marketing ⁴ | | | | | \$ | 40 |
| Promotion | 220 | cwt | \$ | 0.15 | \$ | 33 |
| Miscellaneous⁵ | | | | | \$ | 29 |
| TOTAL SELECTED CASH | EXPENSE | S | | | \$ | 1,384 |
| Family and regular hired lab | or, hours | | | | | 68.8 |
| Corn grain equivalent, bu (as fed) ⁶ 105 | | | | | | |
| Dry hay equivalent, tons (as | fed) ⁷ | | | | | 9.3 |
| Corn silage, tons (as fed) ⁷ | | | | | | 13.2 |
| 1 Assumes 0.9 replacement heifers p | er cow. | | | | | |

1 Assumes 0.9 replacement heifers per cow.

2 Includes primarily milking and parlor supplies, tags, bedding, and pest control.

3 Includes hoof trimming and trucking for cull cows, calves and dead stock.

4 Includes dues and costs to market cull cows and calves.

5 Includes insurance, lease and other costs.

6 Includes 10% increase to account for shrink, storage and feeding losses and refusals.

7 Includes 30% increase to account for shrink, storage and feeding losses and refusals.

Dairy Cow and Replacement¹

26,000 lbs Milk Sold

| | | | Price per | То | tal per Cow |
|---|---------------------|-------|--------------|----------------|-------------|
| | Quantity | Unit | Unit | | & Rplcmt |
| REVENUE SOURCES | | | | | |
| Milk | 260 | cwt | \$ 13.00 | \$ | 3,380 |
| Cull cows | 400 | lb | \$ 0.30 | \$ | 120 |
| 32% Rate, 1250 lb Cows | | | | | |
| 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 fee | l) 1.3 | ton | \$ 180.00 | \$ | 226 |
| Other feeds | | | | \$ \$ \$ | 474 |
| Breeding | | | | \$ | 35 |
| Vet & medicine | | | | | 135 |
| 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 | EXPENSE | ES | | \$ | 1,642 |
| Family and regular hired lab | or, hours | | | | 68.8 |
| Corn grain equivalent, bu (a | s fed) ⁷ | | | | 125.7 |
| Dry hay equivalent, tons (as | 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.

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 a 10% increase to account for shrink, storage and feeding losses and refusals.

8 Includes a 30% increase to account for shrink, storage and feeding losses and refusals.



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Dairy Cow and Replacement¹

16,000 lbs Milk, Management Intensive Grazing²

| | | | | Price per | То | tal per Cow |
|--|---------------------|----------|-------|-----------|----------------|-------------|
| ~ ~ ~ ~ ~ 1 80% | Quantity | Unit | | Unit | - | & Rplcmt |
| REVENUE SOURCES | | | | | | |
| Milk | 160 | cwt | \$ | 13.00 | \$ | 2,080 |
| Cull cows | 308 | lb | \$ | 0.30 | \$ | 92 |
| 28% Rate, 1100 lb Cows | | | | | | |
| Bull calf | 0.4 | hd | \$ | 80.00 | \$ | 32 |
| TOTAL REVENUE | | | | | \$ | 2,204 |
| CASH EXPENSES | | | | | | |
| Purchased Feed | | | | | | |
| Milk replacer & calf starter | | | | | \$ | 30 |
| Soybean meal 48% (as fed |) 0.4 | lb | \$ | 180 | \$ | 72 |
| Other feeds | | | | | \$ \$ \$ | 378 |
| Breeding | | | | | \$ | 25 |
| Vet & medicine | | | | | | 50 |
| Livestock supplies ³ | | | | | \$ | 90 |
| Gas, fuel & oil | | | | | \$ | 10 |
| Equipment repairs | | | | | \$ | 65 |
| Building repairs | | | | | \$ | 20 |
| Custom hire ⁴ | | | | | \$ | 8 |
| Utilities & phone | | | | | \$ | 45 |
| Milk trucking | 160 | cwt | \$ | 0.44 | \$ | 70 |
| Marketing ⁵ | | | | | \$ | 40 |
| Promotion | 160 | cwt | \$ | 0.15 | \$ | 24 |
| Miscellaneous ⁶ | | | | | \$ | 25 |
| TOTAL SELECTED CASH | EXPENSI | ES | | | \$ | 952 |
| Family and regular hired labo | or, hours | | | | | 46.8 |
| Corn grain equivalent, bu (as | s fed) ⁷ | | | | | 70.0 |
| Dry hay equivalent, tons (as fed) ^{8,9} | | | | | | |
| Corn silage, tons (as fed) ⁸ | | | | | | 6.0 |
| 1 Assumes 0.9 replacement heifers per 2 Milks year around and approximately | | calve ir | n spr | ing. | | |

2 Milks year around and approximately 2/3 of cows calve in spring.

 $\ensuremath{\mathsf{3}}$ Includes 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 a 10% increase to account for shrink, storage and feeding losses and refusals. 8 Includes a 30% increase to account for shrink, storage and feeding losses and refusals. 9 Dry hay equivalent includes pasture yield.



Swine, Farrow to Finish

High Production 2.26 Litters per Yr, 20.28 Pigs per Sow per Yr, Al, Raise Own Replacement Gilts

| | Quantity | llnit | Price per Unit | | al per Sow & Litters |
|---------------------------------------|-------------|-------|-------------------|-------------------------------|-------------------------|
| | Quantity | Unit | Unit | | a Litters |
| REVENUE SOURCES | | | | | |
| Finished hogs ¹ | 52.68 | cwt | \$ 42 | \$ | 2,213 |
| 19.88 hd | | | ч .= | Ŧ | _, |
| Sows ² | 1.6 | cwt | \$ 27 | \$ | 43 |
| 0.4 hd | l@ 400 lb |) | | · | |
| TOTAL REVENUE | | | | \$ | 2,256 |
| CASH EXPENSES | | | | | |
| Purchased feed | | | | | |
| Soybean meal 44% | 32.5 | cwt | \$9 | \$ | 293 |
| Minerals, vitamins & | other feeds | | | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 258 |
| Breeding | | | | \$ | 24 |
| Vet & medicine | | | | \$ | 62 |
| Livestock supplies | | | | \$ | 30 |
| Gas, fuel & oil | | | | \$ | 20 |
| Equipment repairs | | | | \$ | 60 |
| Building repairs | | | | \$ | 10 |
| Utilities & phone | | | | \$ ¢ | 55 |
| Hauling, marketing | | | | ծ Տ | 65 |
| Miscellaneous | | | | \$ | 28 |
| TOTAL SELECTED C | | \$ | 904 | | |
| Family and regular hired labor, hours | | | | | 33.3 |
| Corn grain equivalent, | | | 212.0 | | |
| Capital gains income in | | \$ | 43 | | |
| 1 Retain 0.4 gilts per sow for r | eplacement. | | | | |

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 | То | tal per Sow |
|--|-------------|------|-----------|-------------------------------|-------------|
| | Quantity | Unit | Unit | | & Litters |
| REVENUE SOURCES | | | | | |
| Finished hogs ¹ | 47.01 | cwt | \$ 42 | \$ | 1,974 |
| 17.74 hd | 0 -00 | lb | | | |
| Sows ² | 1.6 | cwt | \$ 27 | \$ | 43 |
| 0.4 hd | @ 400 | lb | | | |
| TOTAL REVENUE | | | | \$ | 2,018 |
| CASH EXPENSES Purchased feed | | | | | |
| Soybean meal 44% | 32.0 | cwt | \$ 9 | \$ | 288 |
| Minerals, vitamins & d | other feeds | | • | \$ | 252 |
| Breeding | | | | \$ | 25 |
| 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 CA | SH EXPEN | ISES | | \$ | 879 |
| Family and regular hired | | | 30.0 | | |
| Corn grain equivalent, b | ou (as fed) | | | | 208.5 |
| Capital gains income in 1 Retain 0.4 gilts per sow for re | | 'e | | \$ | 43 |

1 Retain 0.4 gilts per sow for replacement.

2 Sow price is \$15 less than market hog price.



Swine, Breed to Feeder Pig

High Production 2.26 Litters per Yr, 20.58 Feeder Pigs per Sow per Yr, Al, Buy Replacement Gilts

| | - | | | P | rice per | Tot | tal per Sow |
|---------------------------------------|----------|----------|------|----|----------|--|-------------|
| | Q | uantity | Unit | | Unit | | & Litters |
| REVENUE SOURC | ES | | | | | | |
| Feeder pigs | - | 20.58 | hd | \$ | 44 | \$ | 899 |
| | hd @ | 50 | lb | · | | | |
| Sows ¹ | | 1.6 | cwt | \$ | 27 | \$ | 43 |
| 0.4 | hd @ | 400 | lb | Ŧ | | Ţ | - |
| TOTAL REVENUE | | | | | | \$ | 943 |
| CASH EXPENSES | | | | | | | |
| Purchased feed | | | | | | | |
| Soybean meal 44 | | 6.9 | cwt | \$ | 9 | \$ | 62 |
| Minerals, vitamin | s & othe | er feeds | | | | \$ | 120 |
| Breeding | | | | | | \$ | 24 |
| Vet & medicine | - | | | | | ን ¢ | 40 19 |
| Livestock supplie Gas, fuel & oil | 5 | | | | | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 19 |
| Equipment repair | s | | | | | \$ | 33 |
| Building repairs | • | | | | | \$ | 4 |
| Utilities & phone | | | | | | \$ | 34 |
| Hauling, marketin | g | | | | | \$ | 15 |
| Replacement gilts | 6 | 0.4 | hd | \$ | 186 | \$ | 75 |
| Miscellaneous | | | | | | \$ | 27 |
| TOTAL SELECTED CASH EXPENSES | | | | | | | 458 |
| Family and regular hired labor, hours | | | | | | | 22.6 |
| Corn grain equivale | nt, bu (| as fed) | | | | | 37.3 |
| Capital gains incom | e inclu | ded abov | /e | | | \$ | 43 |

1 Sow price is \$15 less than market hog price.



Swine, Breed to Feeder Pig

Average Production 2.15 Litters per Yr, 18.67 Feeder Pigs per Sow per Yr, Al, Buy Replacement Gilts

| Price per Total | | | | | | | | | |
|---------------------------------|------------|------|------|------|--|-----------|--|--|--|
| | Quantity | Unit | | Unit | | & Litters | | | |
| REVENUE SOURCES | | | | | | | | | |
| Feeder pigs | 18.67 | hd | \$ | 44 | \$ | 816 | | | |
| 18.67 hd @ | D 50 | lb | | | | | | | |
| Sows ¹ | 1.6 | cwt | \$ | 27 | \$ | 43 | | | |
| 0.4 hd @ | 9 400 | lb | | | | | | | |
| TOTAL REVENUE | | | | | \$ | 859 | | | |
| CASH EXPENSES Purchased feed | | | | | | | | | |
| Soybean meal 44% | 6.9 | cwt | \$ | 9 | \$ | 62 | | | |
| Minerals, vitamins & of | ther 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 CAS | SH EXPEN | ISES | | | \$ | 456 | | | |
| Family and regular hired | | | 20.0 | | | | | | |
| Corn grain equivalent, bu | u (as fed) | | | | | 37.3 | | | |
| Capital gains income inc | luded abov | /e | | | \$ | 43 | | | |

1 Sow price is \$15 less than market hog price.



Swine, Feeder Pig to Finish

High Production

| | • | | P | rice per | | |
|---------------------------------|----------------------|---------|----|--|----------------------------------|---------------|
| | Quantity | Unit | | Unit | | Total per Pig |
| REVENUE SOURCES | | | | | | |
| Finished hogs | 265 | cwt | ¢ | 42 | \$ | 11,130 |
| 100 hd | | lb | ψ | 42 | ψ | 11,150 |
| 1.5% Death loss | <u>ده</u> 205 1.5 | hd | \$ | 42 | \$ | (167) |
| | | | | | | · · · · |
| TOTAL REVENUE | | | | | \$ | 10,963 |
| CASH EXPENSES | | | | | | |
| Feeder pigs ¹ | 100 | hd | \$ | 44 | \$ | 4,370 |
| Purchased Feed | | | | | | |
| Soybean meal 44% | 123.7 | cwt | \$ | 9 | \$ | 1,113 |
| Minerals, vitamins & o | other feeds | | | | \$ | 637 |
| Vet & medicine | | | | | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 150 |
| Livestock supplies | | | | | \$ | 50 |
| Gas, fuel & oil | | | | | \$ | 80 |
| Equipment repairs | | | | | \$ | 130 |
| Building repairs | | | | | \$ | 33 |
| Utilities & phone | | | | | \$ | 100 |
| Hauling, marketing | | | | | \$ | 314 |
| Miscellaneous | | | | | \$ | 3 |
| TOTAL SELECTED CA | | SES | | | \$ | 6,980 |
| Family and regular hired | d labor, hou | rs | | | | 50.0 |
| Corn grain equivalent, b | ou (as fed) | | | | | 841.3 |
| 4 Feeder size are suized at 770 | | Mauliat | | ······································ | | |

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, Feeder Pig to Finish

Average Production

| 💘 🔜 χ 🦾 χ 🔊 100 F | Pigs | | | | | |
|----------------------------|-----------|------|----|-----------|-------------------------------|---------------|
| | | | F | Price per | | |
| | Quantity | Unit | | Unit | | Fotal per Pig |
| | | | | | | |
| REVENUE SOURCES | 005 | | • | 10 | • | 44.400 |
| Finished hogs | 265 | cwt | \$ | 42 | \$ | 11,130 |
| 100 hd @ | | lb | • | 10 | • | (0,1,0) |
| 2.8% Death loss | 2.8 | hd | \$ | 42 | \$ | (312) |
| TOTAL REVENUE | | | | | \$ | 10,818 |
| CASH EXPENSES | | | | | | |
| Feeder pigs ¹ | 100 | hd | \$ | 44 | \$ | 4,370 |
| Purchased Feed | | | | | | |
| Soybean meal 44% | 135.2 | cwt | \$ | 9 | \$ | 1,217 |
| Minerals, vitamins & oth | ner feeds | | | | | 696 |
| Vet & medicine | | | | | \$ | 150 |
| Livestock supplies | | | | | \$ | 50 |
| Gas, fuel & oil | | | | | \$ | 80 |
| Equipment repairs | | | | | \$ | 130 |
| Building repairs | | | | | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 33 |
| Utilities & phone | | | | | \$ | 100 |
| Hauling, marketing | | | | | \$ | 310 |
| Miscellaneous | | | | | \$ | 2 |
| TOTAL SELECTED CAS | | ISES | | | \$ | 7,139 |
| Family and regular hired I | abor, hou | rs | | | | 50.0 |
| Corn grain equivalent, bu | (as fed) | | | | | 919.2 |

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 Wean¹

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

| Ton | | , / II, Duy | rtopia | Ρ | rice per | Tota | al per Sow & |
|---------------------------------------|------------------------------|-------------|--------|----|----------|-------------------------------|--------------|
| | Q | uantity | Unit | | Unit | | Litters |
| REVENUE SOURC | ES | | | | | | |
| 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, vitamin | s & othe | r feeds | | | | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 44 |
| Breeding | | | | | | \$ | 24 |
| Vet & medicine | _ | | | | | \$ | 21 |
| Livestock supplies | 5 | | | | | \$ | 16 |
| Gas, fuel & oil | _ | | | | | \$ ¢ | 3 |
| Equipment repairs | 5 | | | | | ф Ф | 28 3 |
| Building repairs Utilities & phone | | | | | | ¢ D | 3 29 |
| Hauling, marketin | a | | | | | ф Ф | 29 13 |
| Replacement gilts | • | 0.4 | hd | ¢ | 186 | φ Φ | 75 |
| Miscellaneous | • | 0.4 | nu | Ψ | 100 | φ \$ | 23 |
| TOTAL SELECTED | TOTAL SELECTED CASH EXPENSES | | | | | | |
| Family and regular hired labor, hours | | | | | | | 20.4 |
| Corn grain equivalent, bu (as fed) | | | | | | | 25.3 |
| Capital gains incom | | | | | | \$ | 43 |

2 Sow price is \$15 less than market hog price.

| -010 | | | Pr | ice per | Total | per So |
|--|---------------------------|------|----|----------|-------------------------|--------|
| | Quantity | Unit | | Unit | | Litt |
| REVENUE SOURCES | | | | | | |
| Weaned pigs | 19.14 | hd | \$ | 30 | \$ | 5 |
| Cull sows ² | 1.6 | cwt | \$ | 27 | \$ | |
| 0.4 hd | @ 400 | lb | | | | |
| TOTAL REVENUE | | | | | \$ | 6 |
| Purchased feed Soybean meal 44% Minerals, vitamins & o Breeding Vet & medicine Livestock supplies Gas, fuel & oil Equipment repairs Building repairs Utilities & phone Hauling, marketing Replacement gilts | 3.7 other feeds 0.4 | cwt | • | 9 186 | * * * * * * * * * * * * | |
| Miscellaneous TOTAL SELECTED CA | | ISES | | | \$ \$ | 3 |
| Family and regular hired | - | | | | Ŧ | |
| Corn grain equivalent, b | ou (as fed) | | | | | 2 |
| | | | | | | |

2 Sow price is \$15 less than market hog price.

| Swine, W High Production | | o F | inish | | |
|-------------------------------------|----------|-----|----------|----------------------------|---------------|
| 100 Pigs, 3.00 | blbs fee | | | า | |
| | 11 | Р | rice per | - | Total nar Dia |
| Quantity | Unit | | Unit | | otal per Pig |
| REVENUE SOURCES | | | | | |
| Finished hogs 265 | cwt | \$ | 42 | \$ | 11,130 |
| 100 hd @ 265 | lb | | | | |
| 2.49% Death loss 2.49 | 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 | | | | ֆ \$ | 311 |
| Miscellaneous | | | | Ф | 24 |
| TOTAL SELECTED CASH EXPE | NSES | | | \$ | 6,356 |
| Family and regular hired labor, hou | 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.

| REVENUE SOURCESFinished hogs265cwt \$42\$11,130100hd @265lb5.18%Death loss5.18hd \$42\$(577)TOTAL REVENUE\$10,553CASH EXPENSESWeaned pigs1100hd \$30\$3,008Purchased Feed\$9\$1,372Minerals, vitamins & other feeds\$1,086\$\$Vet & medicine\$307\$307Livestock supplies\$66\$\$\$Gas, fuel & oil\$\$85\$66Building repairs\$302\$302Miscellaneous\$28\$28TOTAL SELECTED CASH EXPENSES\$6,583Family and regular hired labor, hours65.0\$\$Corn grain equivalent, bu (as fed)984.2\$\$ | A | Swine, Average P 00 Pigs, 3 Quan | rodu 3.36 | ction | ed p | | | Fotal per Pig |
|---|--------------------------|---|--------------|-------|------|----|----|---------------|
| Finished hogs265cwt42\$11,130100hd265lb5.18%hd\$42\$(577)TOTAL REVENUE\$10,553CASH EXPENSESWeaned pigs1100hd\$30\$3,008Purchased Feed\$100hd\$30\$\$Soybean meal 44%152.4cwt\$9\$1,372Minerals, vitamins & other feeds\$1,086\$307Livestock supplies\$\$66\$307Livestock supplies\$\$\$307Livestock supplies\$\$\$307Building repairs\$\$37Utilities & phone\$\$302Miscellaneous\$2828TOTAL SELECTED CASH EXPENSES\$6,583Family and regular hired labor, hours\$65.0 | | | , | | | | | |
| 100 hd @265 lb5.18% Death loss5.18 hd \$42 \$(577)TOTAL REVENUE\$10,553CASH EXPENSESWeaned pigs1100 hd \$30 \$3,008Purchased Feed30\$1,372Soybean meal 44%152.4 cwt \$9 \$1,372Minerals, vitamins & other feeds\$1,086Vet & medicine\$307Livestock supplies\$66Gas, fuel & oil\$85Equipment repairs\$160Building repairs\$377Utilities & phone\$133Hauling, marketing\$302Miscellaneous\$28TOTAL SELECTED CASH EXPENSES\$6,583Family and regular hired labor, hours65.0 | | | 005 | | ሱ | 40 | ¢ | 11 100 |
| 5.18% Death loss5.18hd \$42\$(577)TOTAL REVENUE\$10,553CASH EXPENSESWeaned pigs1100hd \$30\$3,008Purchased Feed30\$1,372Minerals, vitamins & other feeds\$1,086Soybean meal 44%152.4cwt \$9\$1,372Minerals, vitamins & other feeds\$3071,086Vet & medicine\$307\$307Livestock supplies\$66\$85Equipment repairs\$160\$85Building repairs\$302\$302Miscellaneous\$28\$28TOTAL SELECTED CASH EXPENSES\$6,583Family and regular hired labor, hours65.065.0 | • | | | • | \$ | 42 | \$ | 11,130 |
| TOTAL REVENUE\$10,553CASH EXPENSESWeaned pigs1100hd \$30\$Purchased Feed\$30\$3,008Purchased Feed\$9\$1,372Minerals, vitamins & other feeds\$1,086\$Vet & medicine\$307\$307Livestock supplies\$66\$66Gas, fuel & oil\$\$85Equipment repairs\$160\$Building repairs\$302\$Miscellaneous\$302\$TOTAL SELECTED CASH EXPENSES\$6,583Family and regular hired labor, hours65.0 | | | - | | ¢ | 12 | ¢ | (577) |
| CASH EXPENSESWeaned pigs1100hd \$30\$3,008Purchased FeedSoybean meal 44%152.4cwt \$9\$1,372Minerals, vitamins & other feeds\$1,086\$307Vet & medicine\$307\$66Gas, fuel & oil\$\$85Equipment repairs\$160Building repairs\$37Utilities & phone\$133Hauling, marketing\$302Miscellaneous\$28TOTAL SELECTED CASH EXPENSES\$6,583Family and regular hired labor, hours65.0 | 5.10% Deali11055 | | | nu | φ | 42 | φ | (377) |
| Weaned pigs1100hd \$30\$3,008Purchased FeedSoybean meal 44%152.4cwt \$9\$1,372Minerals, vitamins & other feeds\$1,086\$1,086Vet & medicine\$307\$307Livestock supplies\$66\$85Equipment repairs\$160\$85Equipment repairs\$37\$37Utilities & phone\$302\$302Miscellaneous\$28\$6,583Family and regular hired labor, hours65.065.0 | TOTAL REVENUE | | | | | | \$ | 10,553 |
| Purchased FeedSoybean meal 44%152.4cwt \$9\$1,372Minerals, vitamins & other feeds\$1,086\$1,086Vet & medicine\$307\$307Livestock supplies\$66\$307Livestock supplies\$66\$85Equipment repairs\$160\$Building repairs\$160\$Building repairs\$37Utilities & phone\$133Hauling, marketing\$302Miscellaneous\$28TOTAL SELECTED CASH EXPENSES\$6,583Family and regular hired labor, hours65.0 | CASH EXPENSES | | | | | | | |
| Soybean meal 44%152.4cwt \$9\$1,372Minerals, vitamins & other feeds\$1,086Vet & medicine\$307Livestock supplies\$66Gas, fuel & oil\$85Equipment repairs\$160Building repairs\$37Utilities & phone\$133Hauling, marketing\$302Miscellaneous\$28TOTAL SELECTED CASH EXPENSES\$6,583Family and regular hired labor, hours65.0 | Weaned pigs ¹ | | 100 | hd | \$ | 30 | \$ | 3,008 |
| Minerals, vitamins & other feeds\$1,086Vet & medicine\$307Livestock supplies\$66Gas, fuel & oil\$85Equipment repairs\$160Building repairs\$37Utilities & phone\$133Hauling, marketing\$302Miscellaneous\$28TOTAL SELECTED CASH EXPENSES\$65.0Family and regular hired labor, hours65.0 | Purchased Feed | | | | | | | |
| Miscellaneous\$28TOTAL SELECTED CASH EXPENSES\$6,583Family and regular hired labor, hours65.0 | | | | cwt | \$ | 9 | | - |
| Miscellaneous\$28TOTAL SELECTED CASH EXPENSES\$6,583Family and regular hired labor, hours65.0 | | & other fee | ds | | | | \$ | |
| Miscellaneous\$28TOTAL SELECTED CASH EXPENSES\$6,583Family and regular hired labor, hours65.0 | | | | | | | \$ | |
| Miscellaneous\$28TOTAL SELECTED CASH EXPENSES\$6,583Family and regular hired labor, hours65.0 | | | | | | | \$ | |
| Miscellaneous\$28TOTAL SELECTED CASH EXPENSES\$6,583Family and regular hired labor, hours65.0 | , | | | | | | \$ | |
| Miscellaneous\$28TOTAL SELECTED CASH EXPENSES\$6,583Family and regular hired labor, hours65.0 | | | | | | | \$ | |
| Miscellaneous\$28TOTAL SELECTED CASH EXPENSES\$6,583Family and regular hired labor, hours65.0 | e , | | | | | | \$ | |
| Miscellaneous\$28TOTAL SELECTED CASH EXPENSES\$6,583Family and regular hired labor, hours65.0 | • | | | | | | \$ | |
| TOTAL SELECTED CASH EXPENSES\$6,583Family and regular hired labor, hours65.0 | | | | | | | | |
| Family and regular hired labor, hours65.0 | Miscellaneous | | | | | | \$ | 28 |
| y o | TOTAL SELECTED (| CASH EX | PEN | SES | | | \$ | 6,583 |
| Corn grain equivalent, bu (as fed) 984.2 | Family and regular hir | red labor, | hour | S | | | | 65.0 |
| 1 Weaped pigs are priced at 53% of leap price. Market bog price (\$42) is assumed to be | | • | | | | | | |

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.

| كىر | Swine, Wean to Feeder Pig High Production 100 Pigs | | | | | | | | | | | |
|--|--|----------|----------|----------|----------------|----------------------|------------|--|--|--|--|--|
| <u>``</u> | TUU Pig | 5 | | rice per | Tota | al per Sow & | | | | | | |
| \sim | Qı | uantity | Unit | | Unit | | Litters | | | | | |
| | | | | | | | | | | | | |
| REVENUE SOURC Feeder pigs ¹ | E9 | 100 | hd | ¢ | 44 | \$ | 4,370 | | | | | |
| | hd @ | | na Ib | φ | 44 | Φ | 4,370 | | | | | |
| 1% Death loss | nu e | 1 | hd | \$ | 44 | \$ | (22) | | | | | |
| TOTAL REVENUE | | | | | | \$ | 4,348 | | | | | |
| CASH EXPENSES | | | | | | | | | | | | |
| Weaned $pigs^2$ | | 100 | hd | ¢ | 30 | \$ | 2 009 | | | | | |
| Purchased Feed | | 100 | na | Φ | 30 | Φ | 3,008 | | | | | |
| Soybean meal 44 | % | 15.3 | cwt | \$ | 9 | \$ | 138 | | | | | |
| Minerals, vitamins | | | 0001 | Ψ | 0 | | 371 | | | | | |
| Vet & medicine | | | | | | \$ \$ \$ \$ \$ \$ \$ | 140 | | | | | |
| Livestock supplies | 6 | | | | | \$ | 15 | | | | | |
| Gas, fuel & oil | | | | | | \$ | 3 | | | | | |
| Equipment repairs | 5 | | | | | \$ | 25 | | | | | |
| Building repairs | | | | | | \$ | 3 | | | | | |
| Utilities & phone | | | | | | \$ | 27 | | | | | |
| Hauling, marketin | g | | | | | \$ | 70 | | | | | |
| Miscellaneous | • | | | | | \$ | 21 | | | | | |
| TOTAL SELECTED | CASH | EXPEN | SES | | | \$ | 3,820 | | | | | |
| Family and regular hired labor, hours | | | | | | | | | | | | |
| Corn grain equivale | nt, bu (a | s fed) | | | | | 57.9 | | | | | |
| 1 Feeder pigs are priced a | at 77% of la | an price | Markot | hoa | nrice (\$12) i | e 2001 | imed to be | | | | | |

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.

| Swine, Wean to Feeder Pig | | | | | | | | | | | |
|------------------------------------|--------------|-----------|--------|-----|----------------|----------------------|------------------------|--|--|--|--|
| 27 | | | | | CEUEI | ГЦ | y | | | | |
| (| Average | e Produ | ction | | | | | | | | |
| | 100 Pig | S | | _ | | | | | | | |
| \sim | 0. | ontitu | 11014 | Р | Unit | Tota | I per Sow & Litters | | | | |
| \sim | Q | antity | Unit | | Unit | | Litters | | | | |
| REVENUE SOURC | ES | | | | | | | | | | |
| Feeder pigs ¹ | | 100 | hd | \$ | 44 | \$ | 4,370 | | | | |
| | hd @ | | lb | Ψ | | Ψ | 1,010 | | | | |
| 2.45% Death loss | | 2.5 | hd | \$ | 44 | \$ | (54) | | | | |
| | | | | | | | | | | | |
| TOTAL REVENUE | | | | | | \$ | 4,317 | | | | |
| | | | | | | | | | | | |
| CASH EXPENSES | | 400 | | • | | • | 0.000 | | | | |
| Weaned pigs ² | | 100 | hd | \$ | 30 | \$ | 3,008 | | | | |
| Purchased Feed | | | | | _ | • | | | | | |
| Soybean meal 44 | | 17.2 | cwt | \$ | 9 | \$ | 155 | | | | |
| Minerals, vitamins | s & other | feeds | | | | \$ \$ \$ \$ \$ \$ \$ | 390 | | | | |
| Vet & medicine | | | | | | \$ | 157 | | | | |
| Livestock supplies | 6 | | | | | \$ | 16 | | | | |
| Gas, fuel & oil | | | | | | \$ | 5 | | | | |
| Equipment repairs | 6 | | | | | \$ | 30 | | | | |
| Building repairs | | | | | | \$ | 4 | | | | |
| Utilities & phone | | | | | | \$ | 33 | | | | |
| Hauling, marketing | g | | | | | \$ | 69 | | | | |
| Miscellaneous | - | | | | | \$ | 25 | | | | |
| TOTAL SELECTED CASH EXPENSES | | | | | | | 3,892 | | | | |
| Family and regular h | 15.0 | | | | | | | | | | |
| Corn grain equivalent, bu (as fed) | | | | | | | | | | | |
| 1 Feeder pigs are priced a | nt 77% of le | an price. | Market | hog | price (\$42) i | is assu | imed to be | | | | |

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.