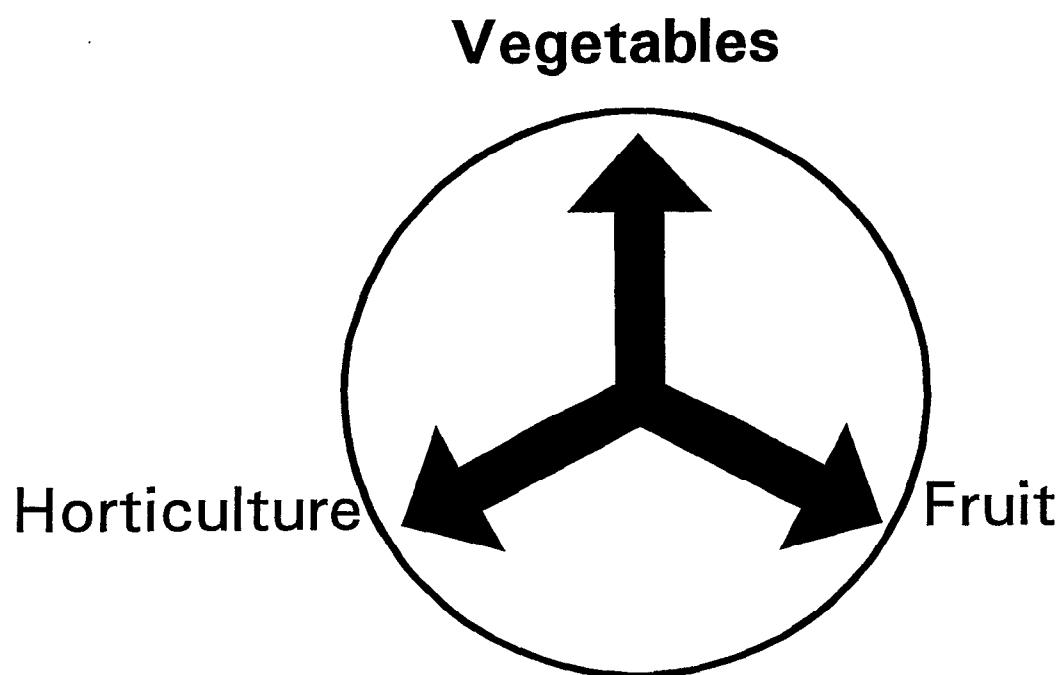


# **Michigan Rotational Survey**

## **Vegetables–1992**



**Michigan Department of Agriculture**

**Michigan Agricultural Statistics Service**

STATE OF MICHIGAN



Commission of Agriculture

David Crumbaugh  
John A. Spero  
Keith H. McKenzie  
Donald W. Nugent  
Rita M. Reid

JOHN ENGLER, Governor

**DEPARTMENT OF AGRICULTURE**

P.O. BOX 30017, LANSING, MICHIGAN 48909

BILL SCHUETTE, Director

January 1994

The 1992 Michigan Vegetable Inventory Survey is part of a three year rotational survey program which provides critical data to Michigan's agriculture industry on fruit, nurseries, Christmas trees and vegetables. The data compiled in these reports are important to future planning for these vital industries.

The Michigan Rotational Survey is funded by the Michigan Legislature and administered by the Michigan Department of Agriculture. The fruit survey was published in 1991, and the nursery and Christmas trees survey is scheduled for 1994. The next vegetable survey will be conducted in 1996.

The Michigan Department of Agriculture would like to thank the vegetable growers for providing the data that made this report possible. Your cooperation is greatly appreciated.

Special thanks are also extended to vegetable processors and other industry officials; extension specialists at Michigan State University; data collectors at the National Association of State Departments of Agriculture; and the staff of the Michigan Agricultural Statistics Service for their excellent support for the program.

This cooperative effort between the private and public sectors allows for greater economic development of Michigan's agricultural industry. If you have questions regarding this survey, or suggestions for improvement, please contact the Michigan Agricultural Statistics Service at (517) 377-1834.

Sincerely,

A handwritten signature in black ink, appearing to read "Bill Schuette".

Bill Schuette  
Director

# **Michigan Rotational Survey**

# **Vegetables - 1992**

**Michigan Agricultural Statistics Service  
201 Federal Building  
P.O.Box 20008  
Lansing, Michigan 48901-0608**

**United States  
Department of Agriculture  
National Agricultural  
Statistics Service**

**Cooperating**

**Michigan  
Department of Agriculture  
Executive Office**

Don J. Fedewa - State Statistician  
Steve J. Psodna - Deputy State Statistician  
Martiin S. Saffell - Statistician  
Rose Ann Husted - Statistical Information Assistant

This bulletin is provided free to Michigan farmers and reporting agribusiness firms. Others may obtain copies at \$5.00 each.  
Please make checks payable to USDA-NASS and send it with your request to P.O. Box 20008, Lansing, MI 48901-0608.

PRINTED BY AUTHORITY OF PUBLIC ACT 380 OF 1965, AS AMENDED  
TOTAL NUMBER OF COPIES PRINTED: 4,500 TOTAL COST: \$1,864.86 COST PER COPY: \$.4122

---

## Office Staff

Diana Ackley  
Craig Anderson  
Eleanor Baldwin  
Sue Benz  
Yvette Branch  
Chad Cloos  
Margaret Espie  
Larry Faber

Sue Guidroz  
Dale Hawks  
Rose Ann Husted  
Gene Kenyon  
Sue Landon  
Connie Leseney  
Mary Martin  
Ed Molenda

Mary-Jo Partlo  
Nellie Raines  
Marty Saffell  
Lynn Spisak  
Christine Stock  
Greg Thessen

## Field Enumerators

Gary Baker - Lakeview  
John Beckett - Portland  
Pat Bitler - Hersey  
Harold Breinling - Berrien Springs  
Marion Brown - Sebewaing  
Barbara Bujaki - Otisville  
Debbie Christian - Adrian  
Bill Cole - Alma  
Carla Corlew - Davison  
Keith Corlew - Lapeer  
Don Corlew - Gladwin  
Sandy Craker - Shelby

Jim Cranick - Harbor Springs  
La Verle Crothers - Shelby  
Myrle Dean - Holly  
Jan Dodds - Charlotte  
Janet Dodds - North Branch  
Deann Falkenberg - Maybee  
Jim Froehlich - Sodus  
Phyllis Greiner - Hart  
Herb Hemmes - Harbor Springs  
Ann Hermatz - Harrietta  
Janice Hineline - Howard City  
Janet Janda - Traverse City

Mona Kaczuk - Bad Axe  
Don King - Holt  
Steve Lamberton - Niles  
Joyce Landis - Homer  
Elga Maycroft - Coopersville  
Diane McPhee - Kinde  
Cindra Mikel - Cassopolis  
Manfred Miller - Benton Harbor  
Rosie Nimtz - Eau Claire  
Cathy Oligney - Pierson  
Carol Piligian - Rochester  
Jan Pollock - Decatur

## Telephone Interviewers

Vena Hutton  
Lisa Jones  
Debra Jones

Linda Newcomb  
Beverly Patten  
Carol Sakraska

Dorothy Shaw  
Mary Starr  
Sue Tabor

---

---

# Contents

|   | Page |
|---|------|
| All Vegetables: Area and operations ..... | 1    |
| Yield Distributions .....                 | 5    |
| Asparagus .....                           | 6    |
| Beans, snap .....                         | 9    |
| Cabbage .....                             | 10   |
| Cantaloups (muskmelons) .....             | 11   |
| Carrots .....                             | 12   |
| Cauliflower .....                         | 13   |
| Celery .....                              | 14   |
| Corn, sweet .....                         | 15   |
| Cucumbers .....                           | 17   |
| Lettuce .....                             | 19   |
| Onions, dry .....                         | 19   |
| Peas, green .....                         | 20   |
| Peppers, green .....                      | 21   |
| Peppers, other .....                      | 22   |
| Potatoes .....                            | 23   |
| Pumpkins .....                            | 25   |
| Radishes .....                            | 26   |
| Squash, summer .....                      | 27   |
| Squash, winter .....                      | 28   |
| Strawberries .....                        | 29   |
| Tomatoes .....                            | 31   |
| Survey Methods and Questionnaire .....    | 32   |

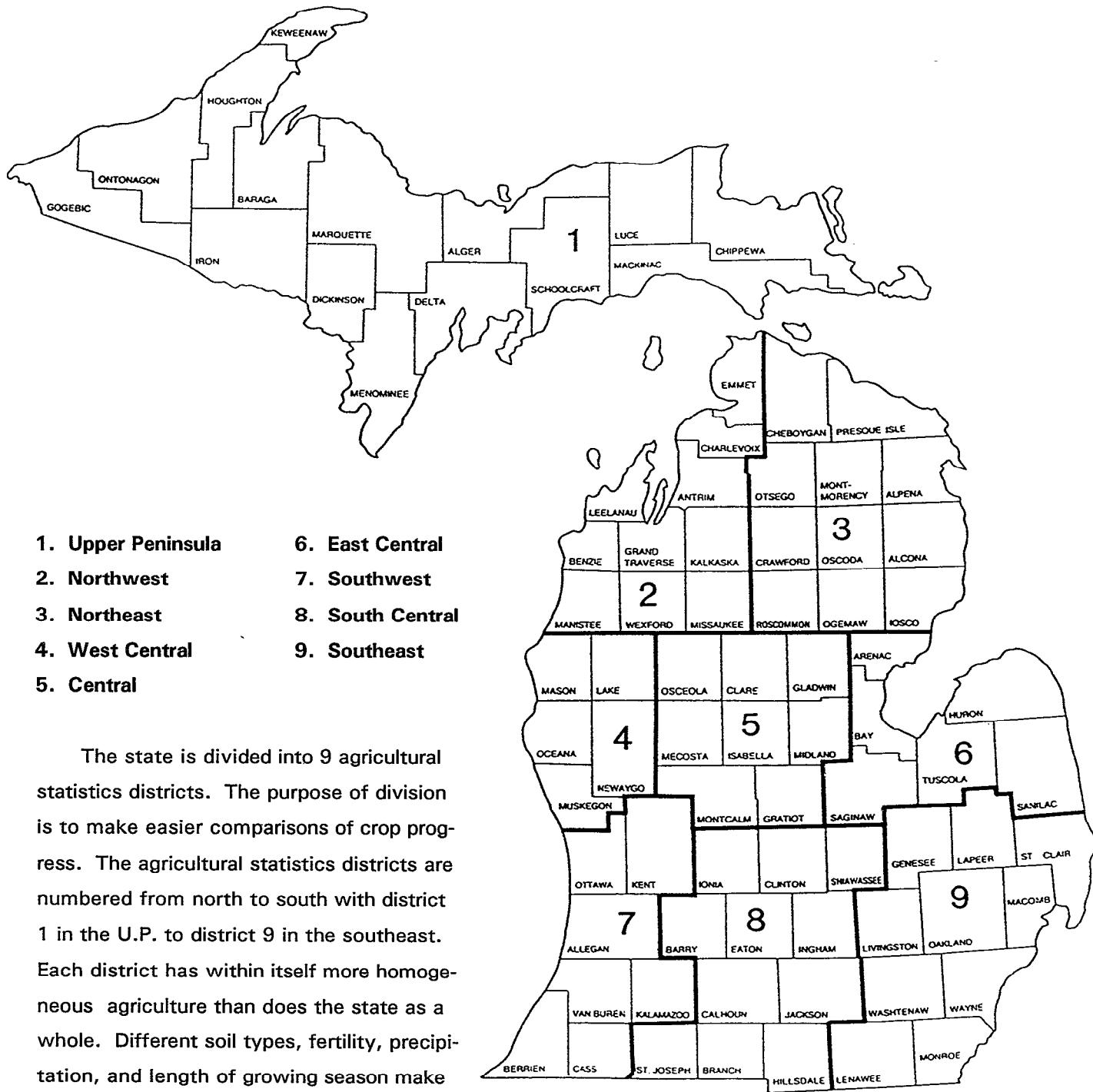
## Figures

|   |    |
|---|----|
| 1. Top Ten Counties in Vegetable Acres .....        | 4  |
| 2. Top Ten Counties Excluding Potatoes .....        | 4  |
| 3. Asparagus by Variety/Hybrid .....                | 7  |
| 4. Fresh Market Vegetable Farms by Size Group ..... | 11 |
| 5. Processing Vegetables .....                      | 16 |
| 6. Major Processing Vegetables .....                | 17 |
| 7. Processing Vegetable Farms by Size Group .....   | 18 |
| 8. Major Fresh Market Vegetables .....              | 22 |
| 9. Fresh Market Vegetables .....                    | 26 |
| 10. Strawberries by Variety .....                   | 30 |

---



# Agricultural Statistics Districts



# All Vegetables: Area and Operations

Table 1.—Vegetables: Area and operations, by commodities

| Commodity                 | Processing operations |         | Fresh market operations |        | All operations |         |
|---------------------------|-----------------------|---------|-------------------------|--------|----------------|---------|
|                           | Number                | Acres   | Number                  | Acres  | Number         | Acres   |
| Asparagus <sup>1</sup>    | 365                   | 17,200  | 253                     | 2,300  | 580            | 19,500  |
| Beans, snap               | 120                   | 19,000  | 167                     | 2,200  | 286            | 21,200  |
| Cabbage                   | 14                    | 400     | 219                     | 2,150  | 227            | 2,550   |
| Cantaloups (muskmelons)   |                       |         | 268                     | 1,200  | 268            | 1,200   |
| Carrots                   | 25                    | 2,000   | 78                      | 5,400  | 98             | 7,400   |
| Cauliflower               | 16                    | 350     | 95                      | 500    | 107            | 850     |
| Celery                    | 12                    | 650     | 41                      | 2,150  | 44             | 2,800   |
| Corn, sweet               | 36                    | 7,500   | 768                     | 13,000 | 800            | 20,500  |
| Cucumbers                 | 200                   | 23,000  | 205                     | 5,700  | 392            | 28,700  |
| Lettuce, all              |                       |         | 37                      | 600    | 37             | 600     |
| Onions, dry               |                       |         | 146                     | 7,600  | 146            | 7,600   |
| Peas, green               | 15                    | 1,500   | 52                      | 100    | 65             | 1,600   |
| Peppers, green            | 11                    | 350     | 259                     | 2,250  | 267            | 2,600   |
| Peppers, other            | 24                    | 1,050   | 55                      | 150    | 78             | 1,200   |
| Potatoes                  | 100                   | 27,300  | 269                     | 22,200 | 331            | 49,500  |
| Pumpkins                  |                       |         | 388                     | 2,500  | 388            | 2,500   |
| Radishes                  |                       |         | 24                      | 3,000  | 24             | 3,000   |
| Squash, summer            | 14                    | 700     | 143                     | 850    | 157            | 1,550   |
| Squash, winter            | 16                    | 500     | 248                     | 1,850  | 264            | 2,350   |
| Strawberries <sup>1</sup> | 25                    | 250     | 263                     | 1,750  | 270            | 2,000   |
| Tomatoes                  | 62                    | 6,100   | 466                     | 2,700  | 520            | 8,800   |
| Others                    | 3                     | 150     | 263                     | 2,850  | 265            | 3,000   |
| Total                     | 810                   | 108,000 | 1,660                   | 83,000 | 2,280          | 191,000 |

<sup>1</sup> Harvested acres.

Table 2.—Vegetables, other: Area, operations, yield, production

| Commodity           | Operations | Planted | Harvested | Yield       | Production   |
|---------------------|------------|---------|-----------|-------------|--------------|
|                     | Number     | Acres   | Acres     | Pounds/acre | 1,000 pounds |
| Broccoli            | 107        | 300     | 260       | 4,000       | 1,040        |
| Eggplant            | 30         | 100     | 90        | 4,500       | 405          |
| Green onions        | 24         | 450     | 440       | 18,000      | 7,920        |
| Greens <sup>1</sup> | 27         | 650     | 600       | 6,900       | 4,140        |
| Parsley             | 14         | 150     | 140       | 15,000      | 2,100        |
| Parsnips            | 12         | 250     | 220       | 15,000      | 3,300        |
| Red beets           | 46         | 100     | 90        | 34,000      | 3,060        |
| Turnips             | 17         | 500     | 400       | 14,000      | 5,600        |
| Watermelons         | 80         | 200     | 190       | 5,000       | 950          |
| Other <sup>2</sup>  | 60         | 300     | 270       | —           | —            |

<sup>1</sup> Includes mustard, collard, kale, and turnip greens.<sup>2</sup> Includes spinach, rutabagas, brussel sprouts, chinese cabbage, celeriac, endive, escarole, horseradish, kohlrabi, lima beans, leek, okra, pak choi, rhubarb, sweet potatoes, garlic, dill and snow peas.

**Table 3.-Vegetables (all): Area and operations, by size groups**

| Size                   | Total operations | Percent of total | Area           | Percent of total |
|------------------------|------------------|------------------|----------------|------------------|
| Acres                  | Number           | Percent          | Acres          | Percent          |
| 1-10 . . . . .         | 785              | 34.4             | 4,500          | 2.4              |
| 11-25 . . . . .        | 410              | 18.0             | 7,500          | 3.9              |
| 26-50 . . . . .        | 320              | 14.0             | 12,000         | 6.3              |
| 51-100 . . . . .       | 300              | 13.2             | 22,000         | 11.5             |
| 101-250 . . . . .      | 300              | 13.2             | 50,000         | 26.2             |
| 251-500 . . . . .      | 110              | 4.8              | 42,000         | 22.0             |
| 501+ . . . . .         | 55               | 2.4              | 53,000         | 27.7             |
| <b>Total . . . . .</b> | <b>2,280</b>     | <b>100.0</b>     | <b>191,000</b> | <b>100.0</b>     |

**Table 4.-Vegetables (for processing): Area and operations, by size groups**

| Size                   | Operations | Percent of total | Area           | Percent of total |
|------------------------|------------|------------------|----------------|------------------|
| Acres                  | Number     | Percent          | Acres          | Percent          |
| 1-10 . . . . .         | 130        | 16.0             | 900            | 0.8              |
| 11-25 . . . . .        | 130        | 16.0             | 2,700          | 2.5              |
| 26-50 . . . . .        | 160        | 19.8             | 6,900          | 6.4              |
| 51-100 . . . . .       | 145        | 17.9             | 12,500         | 11.6             |
| 101-250 . . . . .      | 160        | 19.8             | 29,000         | 26.9             |
| 251-500 . . . . .      | 55         | 6.8              | 23,000         | 21.3             |
| 501+ . . . . .         | 30         | 3.7              | 33,000         | 30.6             |
| <b>Total . . . . .</b> | <b>810</b> | <b>100.0</b>     | <b>108,000</b> | <b>100.0</b>     |

**Table 5.-Vegetables (for fresh market): Area and operations, by size groups**

| Size                   | Operations   | Percent of total | Area          | Percent of total |
|------------------------|--------------|------------------|---------------|------------------|
| Acres                  | Number       | Percent          | Acres         | Percent          |
| 1-10 . . . . .         | 750          | 45.2             | 4,500         | 5.4              |
| 11-25 . . . . .        | 330          | 19.9             | 5,500         | 6.6              |
| 26-50 . . . . .        | 190          | 11.4             | 7,500         | 9.0              |
| 51-100 . . . . .       | 190          | 11.4             | 14,500        | 17.5             |
| 101-250 . . . . .      | 140          | 8.4              | 22,000        | 26.5             |
| 251-500 . . . . .      | 45           | 2.7              | 17,000        | 20.5             |
| 501+ . . . . .         | 15           | 0.9              | 12,000        | 14.5             |
| <b>Total . . . . .</b> | <b>1,660</b> | <b>100.0</b>     | <b>83,000</b> | <b>100.0</b>     |

Table 6.—Vegetables: Area and operations, by counties

| District and county           | Operations    |               |               | Area         |              |              |
|-------------------------------|---------------|---------------|---------------|--------------|--------------|--------------|
|                               | Processing    | Fresh market  | Total         | Processing   | Fresh market | Total        |
|                               | <i>Number</i> | <i>Number</i> | <i>Number</i> | <i>Acres</i> | <i>Acres</i> | <i>Acres</i> |
| Delta . . . . .               | 1             | 11            | 12            | 50           | 1,250        | 1,300        |
| Dickinson . . . . .           | 1             | 9             | 10            |              | 1,350        | 1,350        |
| Houghton . . . . .            |               | 9             | 9             |              | 150          | 150          |
| Iron . . . . .                |               | 5             | 5             | 100          | 350          | 450          |
| Marquette . . . . .           | 2             | 7             | 8             | 50           | 450          | 500          |
| Schoolcraft . . . . .         | 1             | 4             | 5             | 50           | 250          | 300          |
| Other counties . . . . .      | 1             | 11            | 11            | 400          | 150          | 550          |
| Upper Peninsula (1) . . . . . | 6             | 56            | 60            | 650          | 3,950        | 4,600        |
| Antrim . . . . .              | 3             | 10            | 13            | 1,300        | 400          | 1,700        |
| Charlevoix . . . . .          | 3             | 5             | 7             | 650          | 100          | 750          |
| Emmet . . . . .               | 3             | 6             | 9             | 300          | 150          | 450          |
| Grand Traverse . . . . .      | 14            | 17            | 30            | 2,300        | 100          | 2,400        |
| Kalkaska . . . . .            | 5             | 2             | 6             | 1,500        | 300          | 1,800        |
| Leelanau . . . . .            | 6             | 13            | 17            | 70           | 230          | 300          |
| Manistee . . . . .            | 19            | 21            | 35            | 1,700        | 500          | 2,200        |
| Wexford . . . . .             | 4             | 3             | 6             | 700          | 300          | 1,000        |
| Other counties . . . . .      | 3             | 5             | 7             | 80           | 120          | 200          |
| Northwest (2) . . . . .       | 60            | 82            | 130           | 8,600        | 2,200        | 10,800       |
| Alpena . . . . .              |               | 18            | 18            | 400          | 1,100        | 1,500        |
| Otsego . . . . .              | 4             | 7             | 10            | 600          | 550          | 1,150        |
| Presque Isle . . . . .        | 6             | 36            | 38            | 500          | 3,000        | 3,500        |
| Other counties . . . . .      |               | 22            | 22            | 200          | 250          | 450          |
| Northeast (3) . . . . .       | 10            | 83            | 88            | 1,700        | 4,900        | 6,600        |
| Lake . . . . .                |               | 3             | 3             |              | 100          | 100          |
| Mason . . . . .               | 55            | 22            | 68            | 5,000        | 300          | 5,300        |
| Muskegon . . . . .            | 24            | 19            | 41            | 2,700        | 1,300        | 4,000        |
| Newaygo . . . . .             | 12            | 28            | 36            | 400          | 4,100        | 4,500        |
| Oceana . . . . .              | 188           | 48            | 212           | 14,000       | 1,500        | 15,500       |
| West Central (4) . . . . .    | 279           | 120           | 360           | 22,100       | 7,300        | 29,400       |
| Gratiot . . . . .             | 25            | 22            | 41            | 4,000        | 800          | 4,800        |
| Isabella . . . . .            | 2             | 14            | 15            | 500          | 450          | 950          |
| Mecosta . . . . .             | 15            | 14            | 26            | 3,350        | 150          | 3,500        |
| Midland . . . . .             | 4             | 8             | 12            | 1,050        | 150          | 1,200        |
| Montcalm . . . . .            | 34            | 25            | 47            | 13,300       | 3,700        | 17,000       |
| Osceola . . . . .             |               | 5             | 5             |              | 150          | 150          |
| Other counties . . . . .      |               | 4             | 4             |              | 100          | 100          |
| Central (5) . . . . .         | 80            | 92            | 150           | 22,200       | 5,500        | 27,700       |
| Arenac . . . . .              | 23            | 9             | 26            | 2,700        | 600          | 3,300        |
| Bay . . . . .                 | 32            | 104           | 130           | 5,100        | 6,100        | 11,200       |
| Huron . . . . .               | 1             | 7             | 7             | 100          | 200          | 300          |
| Saginaw . . . . .             | 8             | 28            | 34            | 1,600        | 1,200        | 2,800        |
| Sanilac . . . . .             | 4             | 14            | 16            | 1,100        | 500          | 1,600        |
| Tuscola . . . . .             | 9             | 19            | 27            | 2,300        | 900          | 3,200        |
| East Central (6) . . . . .    | 77            | 181           | 240           | 12,900       | 9,500        | 22,400       |

Table 6.—Vegetables: Area and operations, by counties (continued)

| District and county         | Operations    |               |               | Area           |               |                |
|-----------------------------|---------------|---------------|---------------|----------------|---------------|----------------|
|                             | Processing    | Fresh market  | Total         | Processing     | Fresh market  | Total          |
|                             | <i>Number</i> | <i>Number</i> | <i>Number</i> | <i>Acres</i>   | <i>Acres</i>  | <i>Acres</i>   |
| Allegan . . . . .           | 28            | 63            | 80            | 3,800          | 6,000         | 9,800          |
| Berrien . . . . .           | 30            | 154           | 160           | 1,100          | 4,700         | 5,800          |
| Cass . . . . .              | 20            | 24            | 39            | 6,300          | 1,900         | 8,200          |
| Kalamazoo . . . . .         | 15            | 20            | 33            | 3,800          | 1,200         | 5,000          |
| Kent . . . . .              | 21            | 80            | 92            | 1,200          | 3,400         | 4,600          |
| Ottawa . . . . .            | 10            | 83            | 87            | 500            | 3,900         | 4,400          |
| Van Buren . . . . .         | 70            | 66            | 119           | 6,700          | 3,200         | 9,900          |
| Southwest (7) . . . . .     | 194           | 490           | 610           | 23,400         | 24,300        | 47,700         |
| Barry . . . . .             | 2             | 12            | 13            | 100            | 500           | 600            |
| Branch . . . . .            | 5             | 9             | 14            | 700            | 200           | 900            |
| Calhoun . . . . .           | 4             | 15            | 17            | 300            | 500           | 800            |
| Clinton . . . . .           | 4             | 18            | 20            | 300            | 750           | 1,050          |
| Eaton . . . . .             | 2             | 27            | 27            | 400            | 1,550         | 1,950          |
| Hillsdale . . . . .         |               | 8             | 8             |                | 100           | 100            |
| Ingham . . . . .            | 3             | 16            | 18            | 700            | 1,500         | 2,200          |
| Ionia . . . . .             |               | 22            | 22            |                | 800           | 800            |
| Jackson . . . . .           | 1             | 21            | 22            | 50             | 1,000         | 1,050          |
| St. Joseph . . . . .        | 28            | 18            | 41            | 6,400          | 900           | 7,300          |
| Shiawassee . . . . .        |               | 21            | 21            |                | 550           | 550            |
| South Central (8) . . . . . | 49            | 187           | 223           | 8,950          | 8,350         | 17,300         |
| Genesee . . . . .           |               | 32            | 32            | 200            | 1,200         | 1,400          |
| Lapeer . . . . .            | 1             | 45            | 46            | 100            | 3,700         | 3,800          |
| Lenawee . . . . .           | 30            | 28            | 54            | 4,300          | 1,000         | 5,300          |
| Livingston . . . . .        |               | 18            | 19            |                | 400           | 400            |
| Macomb . . . . .            |               | 82            | 82            |                | 4,100         | 4,100          |
| Monroe . . . . .            | 22            | 50            | 71            | 2,800          | 1,600         | 4,400          |
| Oakland . . . . .           |               | 26            | 26            |                | 800           | 800            |
| St. Clair . . . . .         |               | 29            | 29            |                | 1,100         | 1,100          |
| Washtenaw . . . . .         | 2             | 39            | 40            | 100            | 1,700         | 1,800          |
| Wayne . . . . .             |               | 20            | 20            |                | 1,400         | 1,400          |
| Southeast (9) . . . . .     | 55            | 369           | 419           | 7,500          | 17,000        | 24,500         |
| <b>Total . . . . .</b>      | <b>810</b>    | <b>1,660</b>  | <b>2,280</b>  | <b>108,000</b> | <b>83,000</b> | <b>191,000</b> |

Top Ten Counties in Vegetable Acres

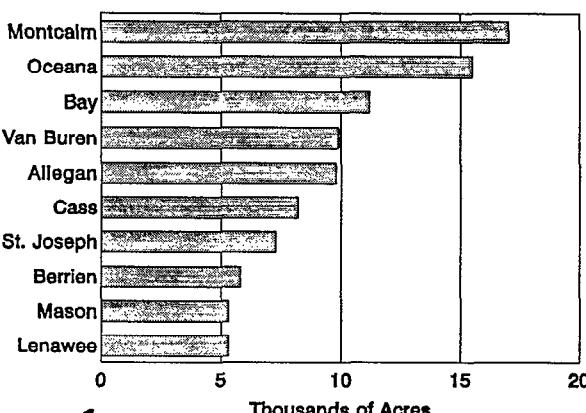


Figure 1.

Top Ten Counties Excluding Potatoes

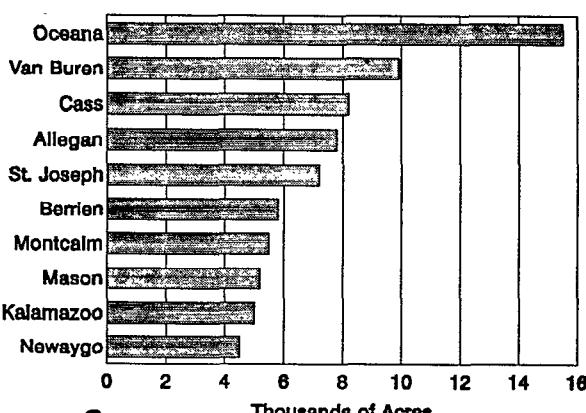


Figure 2.

# Yield Distributions

Table 7., below, shows percentiles and means for yields. A percentile of 25 means that 25 percent of the reported yields were lower than that value of pounds per acre. Means are weighted yields; the weights are acres. For most crops and utilizations the mean is higher than the median, the 50th percentile. These values indicate that large producers obtained higher yields than small growers.

**Table 7.—Yield distributions, by commodity**

| Commodity                         | Yield (pounds per acre) |        |                |        |        |        |
|-----------------------------------|-------------------------|--------|----------------|--------|--------|--------|
|                                   | 10                      | 25     | 50<br>(median) | 75     | 90     | Mean   |
| Asparagus, fresh . . . . .        | 200                     | 500    | 900            | 1,500  | 2,000  | 1,250  |
| Asparagus, processed . . . . .    | 500                     | 800    | 1,100          | 1,500  | 2,000  | 1,350  |
| Beans, snap, fresh . . . . .      | 800                     | 1,400  | 2,200          | 4,500  | 7,500  | 3,600  |
| Beans, snap, processed . . . . .  | 3,400                   | 5,500  | 6,900          | 9,200  | 9,700  | 7,600  |
| Cabbage, fresh . . . . .          | 2,000                   | 5,000  | 15,000         | 24,000 | 30,000 | 21,000 |
| Cabbage, processed . . . . .      | 28,000                  | 38,000 | 44,000         | 56,000 | 60,000 | 55,000 |
| Cantaloups, fresh . . . . .       | 800                     | 2,000  | 4,500          | 8,700  | 16,000 | 8,000  |
| Carrots, fresh . . . . .          | 8,500                   | 17,000 | 22,000         | 30,000 | 50,000 | 30,000 |
| Carrots, processed . . . . .      | 20,000                  | 31,000 | 40,000         | 57,000 | 60,000 | 46,000 |
| Cauliflower, fresh . . . . .      | 2,000                   | 5,000  | 15,000         | 24,000 | 30,000 | 14,000 |
| Celery, fresh . . . . .           | 25,000                  | 33,000 | 42,000         | 48,000 | 54,000 | 44,750 |
| Corn, sweet, fresh . . . . .      | 1,100                   | 2,100  | 4,600          | 8,300  | 11,000 | 7,800  |
| Cucumbers, fresh . . . . .        | 2,000                   | 4,800  | 9,000          | 14,000 | 20,000 | 14,000 |
| Cucumbers, processed . . . . .    | 5,000                   | 7,500  | 11,000         | 15,000 | 20,000 | 10,400 |
| Onions, dry, fresh . . . . .      | 5,000                   | 22,000 | 30,000         | 38,000 | 50,000 | 34,000 |
| Peas, green, fresh . . . . .      | 450                     | 1,450  | 2,200          | 4,400  | 6,000  | 3,200  |
| Peas, green, processed . . . . .  | 2,000                   | 4,200  | 4,700          | 5,400  | 6,800  | 4,500  |
| Peppers, green, fresh . . . . .   | 1,200                   | 2,900  | 6,700          | 14,000 | 20,000 | 14,000 |
| Peppers, other, processed . . .   | 5,600                   | 6,000  | 10,000         | 15,000 | 16,000 | 11,000 |
| Potatoes, fresh . . . . .         | 15,000                  | 19,000 | 25,000         | 30,000 | 32,000 | 26,000 |
| Potatoes, processed . . . . .     | 15,000                  | 22,000 | 30,000         | 35,000 | 40,000 | 31,500 |
| Pumpkins, fresh . . . . .         | 2,000                   | 6,000  | 10,000         | 20,000 | 30,000 | 19,000 |
| Squash, summer, fresh . . . .     | 1,500                   | 3,500  | 6,500          | 13,000 | 20,000 | 13,000 |
| Squash, winter, fresh . . . . .   | 1,200                   | 3,000  | 6,700          | 13,000 | 24,000 | 13,000 |
| Strawberries, fresh . . . . .     | 800                     | 2,000  | 4,200          | 8,000  | 12,000 | 6,500  |
| Strawberries, processed . . . . . | 2,000                   | 3,000  | 5,500          | 10,000 | 11,000 | 7,500  |
| Tomatoes, fresh . . . . .         | 1,800                   | 3,200  | 7,500          | 15,000 | 30,000 | 14,000 |
| Tomatoes, processed . . . . .     | 42,000                  | 48,000 | 60,000         | 67,000 | 75,000 | 64,000 |

# Asparagus

**Table 8.—Asparagus (for processing): Area, operations, yield, production, by counties**

| District and county                | Operations | Harvested     | Yield        | Production    |
|------------------------------------|------------|---------------|--------------|---------------|
|                                    | Number     | Acres         | Pounds/acre  | 1,000 pounds  |
| Manistee . . . . .                 | 14         | 600           |              |               |
| Other counties . . . . .           | 3          | 80            |              |               |
| <b>Northwest (2)</b> . . . . .     | <b>17</b>  | <b>680</b>    | <b>1,150</b> | <b>780</b>    |
| Mason . . . . .                    | 49         | 2,100         |              |               |
| Muskegon . . . . .                 | 14         | 450           |              |               |
| Oceana . . . . .                   | 175        | 9,700         |              |               |
| Other counties . . . . .           | 6          | 250           |              |               |
| <b>West Central (4)</b> . . . . .  | <b>244</b> | <b>12,500</b> | <b>1,450</b> | <b>18,100</b> |
| Mecosta . . . . .                  | 9          | 360           |              |               |
| Other counties . . . . .           | 2          | 90            |              |               |
| <b>Central (5)</b> . . . . .       | <b>11</b>  | <b>450</b>    | <b>900</b>   | <b>405</b>    |
| Allegan . . . . .                  | 7          | 340           |              |               |
| Berrien . . . . .                  | 7          | 110           |              |               |
| Cass . . . . .                     | 7          | 1,000         |              |               |
| Ottawa . . . . .                   | 5          | 200           |              |               |
| Van Buren . . . . .                | 54         | 1,500         |              |               |
| Other counties . . . . .           | 4          | 150           |              |               |
| <b>Southwest (7)</b> . . . . .     | <b>84</b>  | <b>3,300</b>  | <b>1,100</b> | <b>3,630</b>  |
| <b>South Central (8)</b> . . . . . | <b>9</b>   | <b>270</b>    | <b>1,050</b> | <b>285</b>    |
| <b>State</b> . . . . .             | <b>365</b> | <b>17,200</b> | <b>1,350</b> | <b>23,200</b> |

**Table 9.—Asparagus (for fresh market): Area, operations, yield, production, by counties**

| District and county                          | Operations<br><i>Number</i> | Harvested<br><i>Acres</i> | Yield<br><i>Pounds/acre</i> | Production<br><i>1,000 pounds</i> |
|--|-----------------------------|---------------------------|-----------------------------|-----------------------------------|
| Leelanau . . . . .                           | 4                           | 70                        |                             |                                   |
| Manistee . . . . .                           | 6                           | 90                        |                             |                                   |
| Other counties . . . . .                     | 5                           | 20                        |                             |                                   |
| Northwest (2) . . . . .                      | 15                          | 180                       | 1,000                       | 180                               |
| Mason . . . . .                              | 14                          | 150                       |                             |                                   |
| Oceana . . . . .                             | 32                          | 440                       |                             |                                   |
| Other counties . . . . .                     | 5                           | 10                        |                             |                                   |
| West Central (4) . . . . .                   | 51                          | 600                       | 1,500                       | 900                               |
| Allegan . . . . .                            | 11                          | 90                        |                             |                                   |
| Berrien . . . . .                            | 22                          | 190                       |                             |                                   |
| Kent . . . . .                               | 13                          | 160                       |                             |                                   |
| Ottawa . . . . .                             | 14                          | 180                       |                             |                                   |
| Van Buren . . . . .                          | 21                          | 290                       |                             |                                   |
| Other counties . . . . .                     | 4                           | 40                        |                             |                                   |
| Southwest (7) . . . . .                      | 85                          | 950                       | 1,250                       | 1,190                             |
| Ionia . . . . .                              | 6                           | 75                        |                             |                                   |
| St. Joseph . . . . .                         | 6                           | 140                       |                             |                                   |
| Other counties . . . . .                     | 22                          | 75                        |                             |                                   |
| South Central (8) . . . . .                  | 34                          | 290                       | 1,150                       | 330                               |
| Southeast (9) . . . . .                      | 39                          | 160                       | 1,000                       | 160                               |
| Total other districts (1)(3)(5)(6) . . . . . | 29                          | 120                       | 1,000                       | 120                               |
| <b>State</b> . . . . .                       | <b>253</b>                  | <b>2,300</b>              | <b>1,250</b>                | <b>2,880</b>                      |

### Asparagus by Variety/Hybrid

Acres harvested in 1992

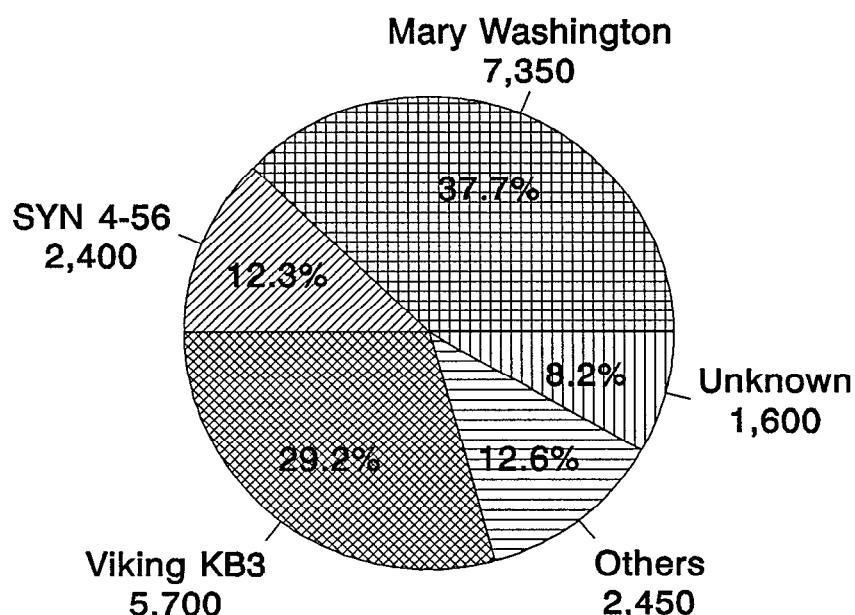


Figure 3.

Table 10.—Asparagus: Acres harvested in 1992, by variety and year of planting

| Variety or hybrid          | 1990 | 1989  | 1988  | 1983-87 | 1978-82 | 1973-77 | Before 1973 | Total  |
|----------------------------|------|-------|-------|---------|---------|---------|-------------|--------|
| <i>Acres</i>               |      |       |       |         |         |         |             |        |
| Centennial . . . . .       | 26   | 190   | 110   | 61      | 5       | 18      | 0           | 410    |
| Jersey Giant . . . . .     | 170  | 215   | 56    | 29      | 0       | 0       | 0           | 470    |
| Jersey Knight . . . . .    | 75   | 24    | 41    | 20      | 120     | 0       | 0           | 280    |
| Mary Washington . . . . .  | 38   | 22    | 210   | 790     | 1,650   | 750     | 1,210       | 4,670  |
| SYN 4-56 . . . . .         | 285  | 290   | 390   | 950     | 125     | 0       | 0           | 2,040  |
| Viking KB3 . . . . .       | 10   | 100   | 270   | 1,830   | 950     | 240     | 400         | 3,800  |
| Other . . . . .            | 20   | 150   | 18    | 160     | 120     | 32      | 0           | 500    |
| Unknown . . . . .          | 1    | 24    | 55    | 260     | 200     | 110     | 280         | 930    |
| West Central (4) . . . . . | 625  | 1,015 | 1,150 | 4,100   | 3,170   | 1,150   | 1,890       | 13,100 |
|                            |      |       |       |         |         |         |             |        |
| Centennial . . . . .       | 0    | 12    | 15    | 43      | 0       | 0       | 0           | 70     |
| Jersey Giant . . . . .     | 88   | 12    | 39    | 36      | 60      | 10      | 0           | 245    |
| Jersey Knight . . . . .    | 2    | 7     | 0     | 0       | 1       | 0       | 0           | 10     |
| Mary Washington . . . . .  | 45   | 50    | 400   | 220     | 920     | 310     | 205         | 2,150  |
| SYN 4-56 . . . . .         | 37   | 25    | 120   | 140     | 3       | 0       | 0           | 325    |
| Viking KB3 . . . . .       | 22   | 83    | 160   | 640     | 165     | 0       | 0           | 1,070  |
| Other . . . . .            | 1    | 0     | 0     | 27      | 12      | 0       | 35          | 75     |
| Unknown . . . . .          | 15   | 11    | 26    | 54      | 24      | 150     | 25          | 305    |
| Southwest (7) . . . . .    | 210  | 200   | 760   | 1,160   | 1,185   | 470     | 265         | 4,250  |
|                            |      |       |       |         |         |         |             |        |
| Centennial . . . . .       | 0    | 0     | 12    | 0       | 7       | 0       | 1           | 20     |
| Jersey Giant . . . . .     | 5    | 0     | 0     | 230     | 0       | 0       | 0           | 235    |
| Jersey Knight . . . . .    | 1    | 0     | 1     | 7       | 1       | 0       | 0           | 10     |
| Mary Washington . . . . .  | 2    | 2     | 38    | 55      | 83      | 200     | 150         | 530    |
| SYN 4-56 . . . . .         | 1    | 0     | 10    | 23      | 1       | 0       | 0           | 35     |
| Viking KB3 . . . . .       | 26   | 100   | 64    | 490     | 120     | 0       | 30          | 830    |
| Other . . . . .            | 0    | 0     | 0     | 40      | 0       | 85      | 0           | 125    |
| Unknown . . . . .          | 0    | 3     | 115   | 45      | 58      | 115     | 29          | 365    |
| Other districts . . . . .  | 35   | 105   | 240   | 890     | 270     | 400     | 210         | 2,150  |
|                            |      |       |       |         |         |         |             |        |
| Centennial . . . . .       | 26   | 202   | 137   | 104     | 12      | 18      | 1           | 500    |
| Jersey Giant . . . . .     | 263  | 227   | 95    | 295     | 60      | 10      | 0           | 950    |
| Jersey Knight . . . . .    | 78   | 31    | 42    | 27      | 122     | 0       | 0           | 300    |
| Mary Washington . . . . .  | 85   | 74    | 648   | 1,065   | 2,653   | 1,260   | 1,565       | 7,350  |
| SYN 4-56 . . . . .         | 323  | 315   | 520   | 1,113   | 129     | 0       | 0           | 2,400  |
| Viking KB3 . . . . .       | 58   | 283   | 494   | 2,960   | 1,235   | 240     | 430         | 5,700  |
| Other . . . . .            | 21   | 150   | 18    | 227     | 132     | 117     | 35          | 700    |
| Unknown . . . . .          | 16   | 38    | 196   | 359     | 282     | 375     | 334         | 1,600  |
| State . . . . .            | 870  | 1,320 | 2,150 | 6,150   | 4,625   | 2,020   | 2,365       | 19,500 |

# Beans, snap

Table 11.—Beans, snap (for processing): Area, operations, yield, production, by counties

| District and county             | Operations | Planted <sup>1</sup> | Harvested     | Yield <sup>2</sup> | Production <sup>2</sup> |
|---------------------------------|------------|----------------------|---------------|--------------------|-------------------------|
|                                 | Number     | Acres                | Acres         | Pounds/acre        | 1,000 pounds            |
| Charlevoix . . . . .            | 5          | 750                  |               |                    |                         |
| Grand Traverse . . . . .        | 14         | 2,300                |               |                    |                         |
| Kalkaska . . . . .              | 4          | 750                  |               |                    |                         |
| Other counties . . . . .        | 3          | 1,000                |               |                    |                         |
| Northwest (3) . . . . .         | 26         | 4,800                | 4,500         | 5,000              | 22,500                  |
| Mason . . . . .                 | 14         | 2,650                |               |                    |                         |
| Oceana . . . . .                | 17         | 1,150                |               |                    |                         |
| Other counties . . . . .        | 7          | 650                  |               |                    |                         |
| West Central (4) . . . . .      | 38         | 4,450                | 4,300         | 7,400              | 31,830                  |
| Montcalm . . . . .              | 10         | 1,800                |               |                    |                         |
| Other counties . . . . .        | 2          | 800                  |               |                    |                         |
| Central (5) . . . . .           | 12         | 2,600                | 2,500         | 8,500              | 21,250                  |
| Cass . . . . .                  | 7          | 1,200                |               |                    |                         |
| Kalamazoo . . . . .             | 9          | 1,550                |               |                    |                         |
| Other counties . . . . .        | 6          | 350                  |               |                    |                         |
| Southwest (7) . . . . .         | 22         | 3,100                | 2,900         | 8,900              | 25,820                  |
| St. Joseph . . . . .            | 20         | 3,850                |               |                    |                         |
| South Central (8) . . . . .     | 20         | 3,850                | 3,600         | 9,400              | 33,850                  |
| Total other districts . . . . . | 2          | 200                  | 200           | 7,500              | 1,500                   |
| <b>State</b> . . . . .          | <b>120</b> | <b>19,000</b>        | <b>18,000</b> | <b>7,600</b>       | <b>136,750</b>          |

<sup>1</sup> Double cropping not included.<sup>2</sup> Double cropping included.

Table 12.—Beans, snap (for fresh market): Area, operations, yield, production, by counties

| District and county                     | Operations | Planted      | Harvested    | Yield        | Production   |
|---|------------|--------------|--------------|--------------|--------------|
|   | Number     | Acres        | Acres        | Pounds/acre  | 1,000 pounds |
| Central (5) . . . . .                   | 6          | 150          | 140          | 7,200        | 1,000        |
| Berrien . . . . .                       | 15         | 100          |              |              |              |
| Ottawa . . . . .                        | 11         | 60           |              |              |              |
| Van Buren . . . . .                     | 8          | 340          |              |              |              |
| Other counties . . . . .                | 18         | 450          |              |              |              |
| Southwest (7) . . . . .                 | 52         | 950          | 900          | 3,500        | 3,150        |
| South Central (8) . . . . .             | 20         | 130          | 120          | 5,500        | 660          |
| Macomb . . . . .                        | 20         | 490          |              |              |              |
| Other counties . . . . .                | 31         | 310          |              |              |              |
| Southeast (9) . . . . .                 | 51         | 800          | 600          | 2,800        | 1,680        |
| Total other districts (1)(2)(3)(4)(6) . | 38         | 170          | 140          | 2,700        | 380          |
| <b>State</b> . . . . .                  | <b>167</b> | <b>2,200</b> | <b>1,900</b> | <b>3,600</b> | <b>6,870</b> |

# Cabbage

**Table 13.—Cabbage (for fresh market): Area, operations, yield, production, by counties**

| District and county                                       | Operations | Planted      | Harvested    | Yield         | Production    |
|---|------------|--------------|--------------|---------------|---------------|
|   | Number     | Acres        | Acres        | Pounds/acre   | 1,000 pounds  |
| Bay . . . . .   | 18         | 170          |              |               |               |
| Other counties . . . . .                                  | 10         | 60           |              |               |               |
| <b>East Central (6) . . . . .</b>                         | <b>28</b>  | <b>230</b>   | <b>210</b>   | <b>17,000</b> | <b>3,570</b>  |
| Berrien . . . . .   | 15         | 50           |              |               |               |
| Kent . . . . .  | 11         | 260          |              |               |               |
| Ottawa . . . . .  | 14         | 300          |              |               |               |
| Other counties . . . . .                                  | 11         | 30           |              |               |               |
| <b>Southwest (7) . . . . .</b>                            | <b>51</b>  | <b>640</b>   | <b>610</b>   | <b>27,000</b> | <b>16,500</b> |
| Lapeer . . . . .  | 9          | 40           |              |               |               |
| Lenawee . . . . .   | 8          | 80           |              |               |               |
| Macomb . . . . .  | 28         | 400          |              |               |               |
| Monroe . . . . .  | 18         | 190          |              |               |               |
| St. Clair . . . . .                                       | 11         | 100          |              |               |               |
| Other counties . . . . .                                  | 18         | 100          |              |               |               |
| <b>Southeast (9) . . . . .</b>                            | <b>92</b>  | <b>910</b>   | <b>780</b>   | <b>18,000</b> | <b>14,050</b> |
| <b>Upper Peninsula (1) . . . . .</b>                      | <b>5</b>   | <b>40</b>    |              |               |               |
| <b>Northwest (2) &amp; Northeast (3) . . . . .</b>        | <b>9</b>   | <b>20</b>    |              |               |               |
| <b>West Central (4) &amp; Central (5) . . . . .</b>       | <b>13</b>  | <b>270</b>   |              |               |               |
| <b>South Central (8) . . . . .</b>                        | <b>21</b>  | <b>40</b>    |              |               |               |
| <b>Total other districts (1)(2)(3)(4)(5)(8) . . . . .</b> | <b>48</b>  | <b>370</b>   | <b>350</b>   | <b>19,000</b> | <b>6,650</b>  |
| <b>State . . . . .</b>                                    | <b>219</b> | <b>2,150</b> | <b>1,950</b> | <b>21,000</b> | <b>40,770</b> |

**Table 14.—Cabbage (for processing): Area, operations, yield, production, by counties**

| District and county    | Operations | Planted    | Harvested  | Yield         | Production    |
|------------------------|------------|------------|------------|---------------|---------------|
|                        | Number     | Acres      | Acres      | Pounds/acre   | 1,000 pounds  |
| <b>State . . . . .</b> | <b>14</b>  | <b>400</b> | <b>400</b> | <b>55,000</b> | <b>22,000</b> |

# Cantaloups (muskmelons)

Table 15.—Cantaloups (muskmelons): Area, operations, yield, production, by counties

| District and county                                | Operations | Planted | Harvested | Yield       | Production   |
|--|------------|---------|-----------|-------------|--------------|
|  | Number     | Acres   | Acres     | Pounds/acre | 1,000 pounds |
| Bay . . . . .                                      | 43         | 320     |           |             |              |
| Saginaw . . . . .                                  | 8          | 40      |           |             |              |
| Other counties . . . . .                           | 6          | 10      |           |             |              |
| East Central (6) . . . . .                         | 57         | 370     | 290       | 7,500       | 2,180        |
| Allegan . . . . .                                  | 7          | 20      |           |             |              |
| Berrien . . . . .                                  | 32         | 150     |           |             |              |
| Ottawa . . . . .                                   | 10         | 35      |           |             |              |
| Van Buren . . . . .                                | 9          | 45      |           |             |              |
| Other counties . . . . .                           | 4          | 20      |           |             |              |
| Southwest (7) . . . . .                            | 62         | 270     | 190       | 6,000       | 1,140        |
| Lenawee . . . . .                                  | 9          | 75      |           |             |              |
| Livingston . . . . .                               | 10         | 65      |           |             |              |
| Macomb . . . . .                                   | 22         | 70      |           |             |              |
| Monroe . . . . .                                   | 11         | 80      |           |             |              |
| Washtenaw . . . . .                                | 10         | 40      |           |             |              |
| Other counties . . . . .                           | 29         | 100     |           |             |              |
| Southeast (9) . . . . .                            | 91         | 430     | 260       | 10,000      | 2,600        |
| Central (5) . . . . .                              | 12         | 30      |           |             |              |
| South Central (8) . . . . .                        | 34         | 85      |           |             |              |
| Other districts . . . . .                          | 12         | 15      |           |             |              |
| Total other districts (1)(2)(3)(4)(5)(8) . . . . . | 58         | 130     | 60        | 8,000       | 480          |
| State . . . . .                                    | 268        | 1,200   | 800       | 8,000       | 6,400        |

## Fresh Market Vegetable Farms by Size Group

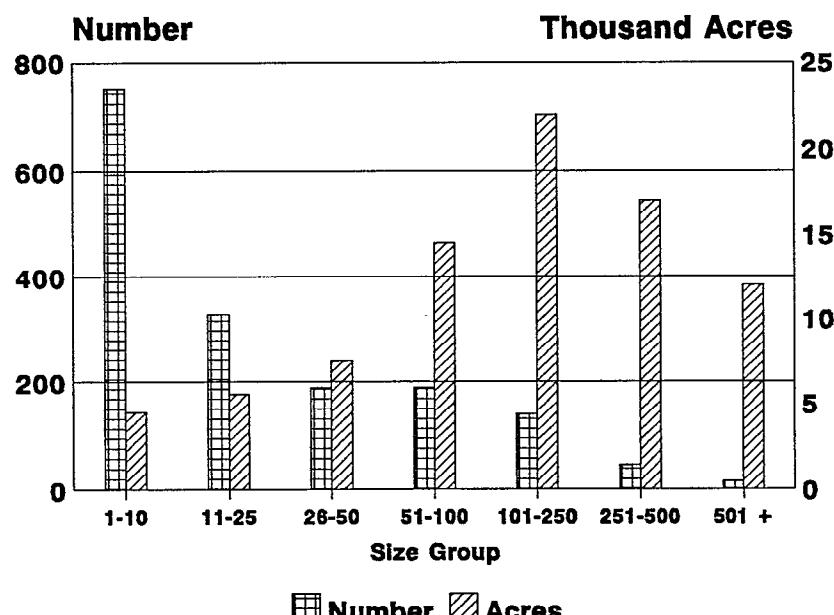


Figure 4.

# Carrots

**Table 16.—Carrots (for processing): Area, operations, yield, production, by counties**

| District and county                                 | Operations | Planted      | Harvested    | Yield         | Production    |
|---|------------|--------------|--------------|---------------|---------------|
|   | Number     | Acres        | Acres        | Pounds/acre   | 1,000 pounds  |
| Oceana . . . . .                                    | 8          | 360          |              |               |               |
| Other counties . . . . .                            | 2          | 140          |              |               |               |
| <b>West Central (4) . . . . .</b>                   | <b>10</b>  | <b>500</b>   | <b>500</b>   | <b>51,000</b> | <b>25,500</b> |
| <b>Central (5) &amp; East Central (6) . . . . .</b> | <b>5</b>   | <b>400</b>   | <b>300</b>   | <b>37,000</b> | <b>11,100</b> |
| <b>South Central (8) . . . . .</b>                  | <b>4</b>   | <b>400</b>   | <b>350</b>   | <b>54,000</b> | <b>18,900</b> |
| Lenawee . . . . .                                   | 3          | 400          |              |               |               |
| Southeast (9) . . . . .                             | 3          | 400          | 300          | 45,00         | 13,500        |
| <b>Total other districts (2)(7) . . . . .</b>       | <b>3</b>   | <b>300</b>   | <b>200</b>   | <b>35,000</b> | <b>7,000</b>  |
| <b>State . . . . .</b>                              | <b>25</b>  | <b>2,000</b> | <b>1,650</b> | <b>46,000</b> | <b>76,000</b> |

**Table 17.—Carrots (for fresh market): Area, operations, yield, production, by counties**

| District and county                                    | Operations | Planted      | Harvested    | Yield         | Production     |
|--|------------|--------------|--------------|---------------|----------------|
|  | Number     | Acres        | Acres        | Pounds/acre   | 1,000 pounds   |
| Newaygo . . . . .                                      | 10         | 1,500        |              |               |                |
| Other counties . . . . .                               | 3          | 550          |              |               |                |
| <b>West Central (4) . . . . .</b>                      | <b>13</b>  | <b>2,050</b> | <b>2,000</b> | <b>34,000</b> | <b>68,000</b>  |
| Allegan . . . . .                                      | 3          | 230          |              |               |                |
| Kent & Ottawa . . . . .                                | 7          | 100          |              |               |                |
| Other counties . . . . .                               | 5          | 120          |              |               |                |
| <b>Southwest (7) . . . . .</b>                         | <b>15</b>  | <b>450</b>   | <b>430</b>   | <b>29,000</b> | <b>12,450</b>  |
| Eaton . . . . .  | 4          | 80           |              |               |                |
| Jackson . . . . .                                      | 4          | 280          |              |               |                |
| Other counties . . . . .                               | 8          | 190          |              |               |                |
| <b>South Central (8) . . . . .</b>                     | <b>16</b>  | <b>550</b>   | <b>500</b>   | <b>28,000</b> | <b>14,000</b>  |
| Lapeer . . . . .                                       | 13         | 1,400        |              |               |                |
| Other counties . . . . .                               | 5          | 250          |              |               |                |
| <b>Southeast (9) . . . . .</b>                         | <b>18</b>  | <b>1,650</b> | <b>1,500</b> | <b>25,000</b> | <b>37,500</b>  |
| Montcalm . . . . .                                     | 5          | 520          |              |               |                |
| Other counties . . . . .                               | 11         | 180          |              |               |                |
| <b>Total other districts (1)(2)(3)(5)(6) . . . . .</b> | <b>16</b>  | <b>700</b>   | <b>670</b>   | <b>32,000</b> | <b>21,400</b>  |
| <b>State . . . . .</b>                                 | <b>78</b>  | <b>5,400</b> | <b>5,100</b> | <b>30,000</b> | <b>153,350</b> |

# Cauliflower

Table 18.—Cauliflower (for processing): Area, operations, yield, production, by counties

| District and county                    | Operations<br><i>Number</i> | Planted<br><i>Acres</i> | Harvested<br><i>Acres</i> | Yield<br><i>Pounds/acre</i> | Production<br><i>1,000 pounds</i> |
|--|-----------------------------|-------------------------|---------------------------|-----------------------------|-----------------------------------|
| Bay . . . . .                          | 3                           | 55                      |                           |                             |                                   |
| Other counties . . . . .               | 2                           | 35                      |                           |                             |                                   |
| East Central (6) . . . . .             | 5                           | 90                      | 85                        | 13,000                      | 1,100                             |
| Allegan . . . . .                      | 7                           | 210                     |                           |                             |                                   |
| Other counties . . . . .               | 1                           | 10                      |                           |                             |                                   |
| Southwest (7) . . . . .                | 8                           | 220                     | 190                       | 12,000                      | 2,280                             |
| Total other districts (4)(5) . . . . . | 3                           | 40                      | 35                        | 9,700                       | 340                               |
| <b>State . . . . .</b>                 | <b>16</b>                   | <b>350</b>              | <b>310</b>                | <b>12,000</b>               | <b>3,720</b>                      |

Table 19.—Cauliflower (for fresh market): Area, operations, yield, production, by counties

| District and county                          | Operations<br><i>Number</i> | Planted<br><i>Acres</i> | Harvested<br><i>Acres</i> | Yield<br><i>Pounds/acre</i> | Production<br><i>1,000 pounds</i> |
|--|-----------------------------|-------------------------|---------------------------|-----------------------------|-----------------------------------|
| Bay . . . . .                                | 8                           | 110                     |                           |                             |                                   |
| Other counties . . . . .                     | 5                           | 10                      |                           |                             |                                   |
| East Central (6) . . . . .                   | 13                          | 120                     | 80                        | 12,000                      | 960                               |
| Allegan . . . . .                            | 5                           | 180                     |                           |                             |                                   |
| Berrien . . . . .                            | 7                           | 20                      |                           |                             |                                   |
| Kent & Ottawa . . . . .                      | 8                           | 25                      |                           |                             |                                   |
| Other counties . . . . .                     | 3                           | 15                      |                           |                             |                                   |
| Southwest (7) . . . . .                      | 23                          | 240                     | 190                       | 16,000                      | 3,040                             |
| Macomb . . . . .                             | 17                          | 40                      |                           |                             |                                   |
| St. Clair . . . . .                          | 8                           | 20                      |                           |                             |                                   |
| Other counties . . . . .                     | 20                          | 70                      |                           |                             |                                   |
| Southeast (9) . . . . .                      | 45                          | 130                     | 100                       | 12,500                      | 1,250                             |
| Total other districts (1)(2)(5)(8) . . . . . | 14                          | 10                      | 10                        | 7,000                       | 70                                |
| <b>State . . . . .</b>                       | <b>95</b>                   | <b>500</b>              | <b>380</b>                | <b>14,000</b>               | <b>5,320</b>                      |

# Celery

Table 20.—Celery (for processing): Area, operations, yield, production, by counties

| District and county         | Operations | Planted    | Harvested  | Yield         | Production    |
|-----------------------------|------------|------------|------------|---------------|---------------|
|                             | Number     | Acres      | Acres      | Pounds/acre   | 1,000 pounds  |
| Muskegon . . . . .          | 4          | 250        |            |               |               |
| Other counties . . . . .    | 1          | 50         |            |               |               |
| West Central (4) . . . . .  | 5          | 300        | 290        | 49,000        | 14,230        |
| Kent . . . . .              | 3          | 90         |            |               |               |
| Other counties . . . . .    | 2          | 70         |            |               |               |
| Southwest (7) . . . . .     | 5          | 160        | 160        | 57,000        | 9,120         |
| South Central (8) . . . . . | 2          | 190        | 190        | 45,500        | 8,650         |
| <b>State</b> . . . . .      | <b>12</b>  | <b>650</b> | <b>640</b> | <b>50,000</b> | <b>32,000</b> |

Table 21.—Celery (for fresh market): Area, operations, yield, production, by counties

| District and county                    | Operations | Planted      | Harvested    | Yield         | Production    |
|--|------------|--------------|--------------|---------------|---------------|
|  | Number     | Acres        | Acres        | Pounds/acre   | 1,000 pounds  |
| Newaygo . . . . .                      | 3          | 160          |              |               |               |
| Other counties . . . . .               | 2          | 70           |              |               |               |
| West Central (4) . . . . .             | 5          | 230          | 225          | 50,000        | 11,250        |
| Allegan . . . . .                      | 4          | 380          |              |               |               |
| Kent . . . . .                         | 6          | 240          |              |               |               |
| Ottawa . . . . .                       | 11         | 380          |              |               |               |
| Van Buren . . . . .                    | 3          | 210          |              |               |               |
| Other counties . . . . .               | 2          | 140          |              |               |               |
| Southwest (7) . . . . .                | 26         | 1,350        | 1,300        | 45,000        | 58,500        |
| South Central (8) . . . . .            | 6          | 170          | 165          | 35,000        | 5,770         |
| Total other districts (5)(9) . . . . . | 4          | 400          | 370          | 45,100        | 16,680        |
| <b>State</b> . . . . .                 | <b>41</b>  | <b>2,150</b> | <b>2,060</b> | <b>44,750</b> | <b>92,200</b> |

# Corn, sweet

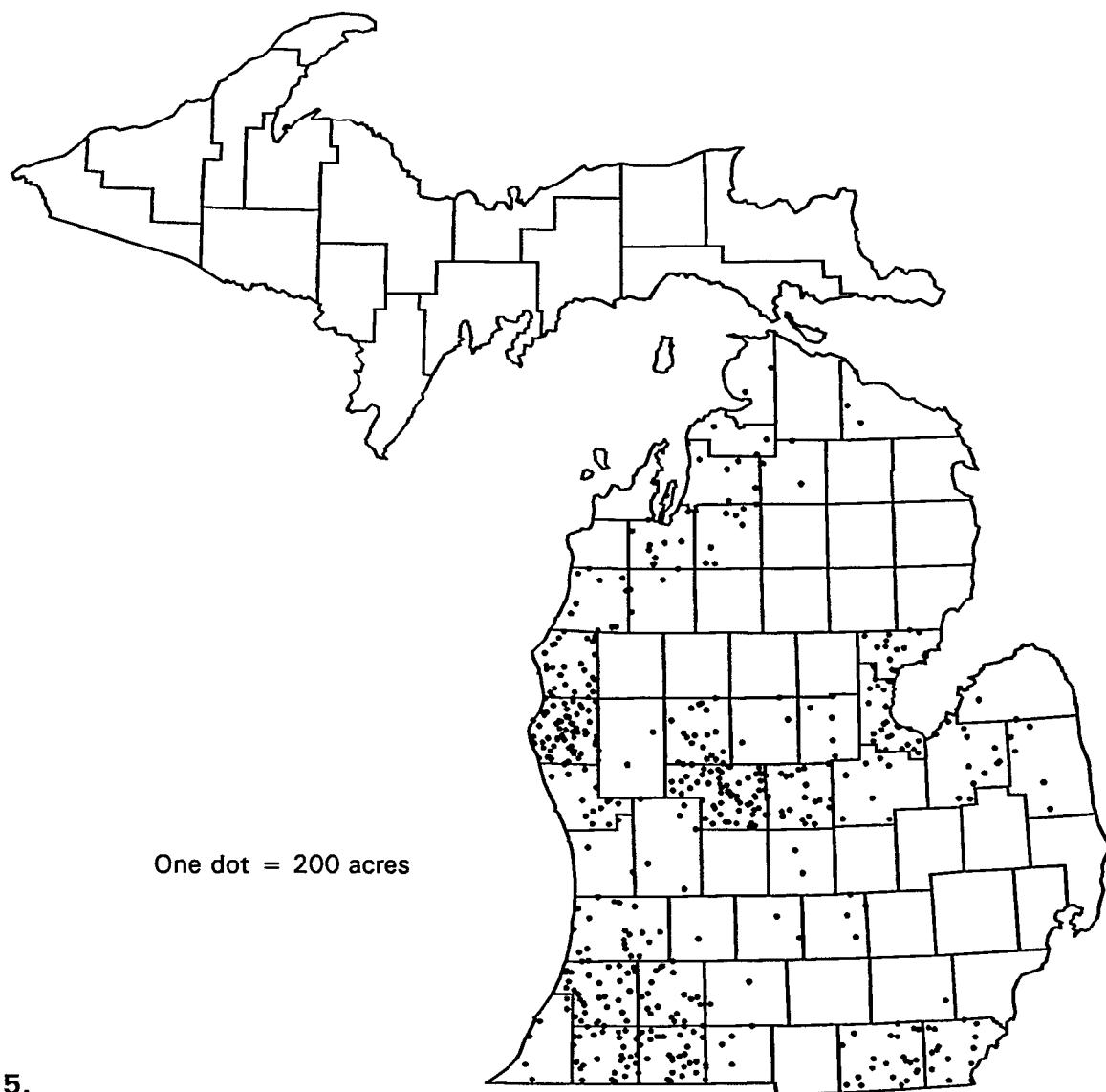
**Table 22.—Corn, sweet (for fresh market): Area, operations, yield, production, by counties**

| District and county                    | Operations | Planted       | Harvested     | Yield        | Production    |
|--|------------|---------------|---------------|--------------|---------------|
|  | Number     | Acres         | Acres         | Pounds/acre  | 1,000 pounds  |
| Grand Traverse . . . . .               | 13         | 120           |               |              |               |
| Manistee . . . . .                     | 12         | 60            |               |              |               |
| Other counties . . . . .               | 23         | 150           |               |              |               |
| Northwest (2) . . . . .                | 48         | 330           | 240           | 4,900        | 1,180         |
| Muskegon . . . . .                     | 10         | 100           |               |              |               |
| Newaygo . . . . .                      | 6          | 400           |               |              |               |
| Oceana . . . . .                       | 10         | 80            |               |              |               |
| Other counties . . . . .               | 7          | 370           |               |              |               |
| West Central (4) . . . . .             | 34         | 950           | 870           | 10,000       | 8,700         |
| Gratiot . . . . .                      | 9          | 80            |               |              |               |
| Isabella . . . . .                     | 10         | 60            |               |              |               |
| Other counties . . . . .               | 27         | 250           |               |              |               |
| Central (5) . . . . .                  | 47         | 390           | 310           | 5,000        | 1,550         |
| Bay . . . . .                          | 55         | 740           |               |              |               |
| Saginaw . . . . .                      | 17         | 230           |               |              |               |
| Other counties . . . . .               | 26         | 140           |               |              |               |
| East Central (6) . . . . .             | 98         | 1,110         | 960           | 5,700        | 5,480         |
| Allegan . . . . .                      | 25         | 250           |               |              |               |
| Berrien . . . . .                      | 53         | 550           |               |              |               |
| Cass . . . . .                         | 17         | 130           |               |              |               |
| Kalamazoo . . . . .                    | 10         | 60            |               |              |               |
| Kent . . . . .                         | 33         | 800           |               |              |               |
| Ottawa . . . . .                       | 36         | 360           |               |              |               |
| Van Buren . . . . .                    | 25         | 230           |               |              |               |
| Southwest (7) . . . . .                | 199        | 2,380         | 2,070         | 7,300        | 15,110        |
| Branch . . . . .                       | 8          | 70            |               |              |               |
| Calhoun . . . . .                      | 10         | 100           |               |              |               |
| Clinton . . . . .                      | 9          | 230           |               |              |               |
| Eaton . . . . .                        | 10         | 70            |               |              |               |
| Ingham . . . . .                       | 8          | 580           |               |              |               |
| Ionia . . . . .                        | 8          | 180           |               |              |               |
| Jackson . . . . .                      | 12         | 270           |               |              |               |
| Shiawassee . . . . .                   | 12         | 60            |               |              |               |
| St. Joseph . . . . .                   | 9          | 410           |               |              |               |
| Other counties . . . . .               | 9          | 50            |               |              |               |
| South Central (8) . . . . .            | 95         | 2,020         | 1,610         | 10,000       | 16,100        |
| Genesee . . . . .                      | 17         | 360           |               |              |               |
| Lapeer . . . . .                       | 17         | 520           |               |              |               |
| Lenawee . . . . .                      | 13         | 250           |               |              |               |
| Livingston . . . . .                   | 14         | 170           |               |              |               |
| Macomb . . . . .                       | 55         | 1,600         |               |              |               |
| Monroe . . . . .                       | 29         | 440           |               |              |               |
| Oakland . . . . .                      | 17         | 510           |               |              |               |
| St. Clair . . . . .                    | 18         | 290           |               |              |               |
| Washtenaw . . . . .                    | 22         | 570           |               |              |               |
| Wayne . . . . .                        | 10         | 940           |               |              |               |
| Southeast (9) . . . . .                | 212        | 5,650         | 4,820         | 7,700        | 37,120        |
| Total other districts (1)(3) . . . . . | 36         | 170           | 120           | 4,700        | 560           |
| <b>State . . . . .</b>                 | <b>768</b> | <b>13,000</b> | <b>11,000</b> | <b>7,800</b> | <b>85,800</b> |

**Table 23.—Corn, sweet (for processing): Area, operations, yield, production, by districts**

| District and county         | Operations | Planted      | Harvested    | Yield         | Production    |
|-----------------------------|------------|--------------|--------------|---------------|---------------|
|                             | Number     | Acres        | Acres        | Pounds/acre   | 1,000 pounds  |
| Southwest (7) . . . . .     | 25         | 6,200        | 6,000        | 12,000        | 72,000        |
| South Central (8) . . . . . | 11         | 1,300        | 1,200        | 12,000        | 14,400        |
| <b>State</b> . . . . .      | <b>36</b>  | <b>7,500</b> | <b>7,200</b> | <b>12,000</b> | <b>86,400</b> |

## Processing Vegetables

**Figure 5.**

# Cucumbers

**Table 24.—Cucumbers (for processing): Area, operations, yield, production, by counties**

| District and county                       | Operations<br>Number | Planted<br>Acres | Harvested<br>Acres | Yield<br>Pounds/acre | Production<br>1,000 pounds |
|---|----------------------|------------------|--------------------|----------------------|----------------------------|
| Manistee . . . . .                        | 8                    | 500              |                    |                      |                            |
| Northwest (2) . . . . .                   | 8                    | 500              | 450                | 10,000               | 4,500                      |
| Oceana . . . . .                          | 30                   | 1,350            |                    |                      |                            |
| Other counties . . . . .                  | 8                    | 1,650            |                    |                      |                            |
| West Central (4) . . . . .                | 38                   | 3,000            | 2,900              | 12,000               | 34,800                     |
| Gratiot . . . . .                         | 22                   | 3,400            |                    |                      |                            |
| Midland & Montcalm . . . . .              | 5                    | 1,000            |                    |                      |                            |
| Central (5) . . . . .                     | 27                   | 4,400            | 4,300              | 8,500                | 36,550                     |
| Arenac . . . . .                          | 18                   | 1,150            |                    |                      |                            |
| Bay . . . . .                             | 16                   | 1,800            |                    |                      |                            |
| Tuscola . . . . .                         | 7                    | 1,150            |                    |                      |                            |
| Other counties . . . . .                  | 8                    | 1,300            |                    |                      |                            |
| East Central (6) . . . . .                | 49                   | 5,400            | 5,200              | 10,000               | 52,000                     |
| Allegan . . . . .                         | 16                   | 2,200            |                    |                      |                            |
| Berrien . . . . .                         | 17                   | 500              |                    |                      |                            |
| Cass . . . . .                            | 5                    | 400              |                    |                      |                            |
| Kent . . . . .                            | 10                   | 600              |                    |                      |                            |
| Van Buren . . . . .                       | 5                    | 3,100            |                    |                      |                            |
| Other counties . . . . .                  | 7                    | 1,400            |                    |                      |                            |
| Southwest (7) . . . . .                   | 60                   | 8,200            | 7,400              | 11,000               | 81,400                     |
| St. Joseph . . . . .                      | 5                    | 900              |                    |                      |                            |
| Other counties . . . . .                  | 5                    | 300              |                    |                      |                            |
| South Central (8) . . . . .               | 10                   | 1,200            | 950                | 11,000               | 10,450                     |
| Total other districts (1)(3)(9) . . . . . | 8                    | 300              | 300                | 12,500               | 3,750                      |
| <b>State . . . . .</b>                    | <b>200</b>           | <b>23,000</b>    | <b>21,500</b>      | <b>10,400</b>        | <b>223,450</b>             |

## Major Processing Vegetables

Acres and Percent of Total

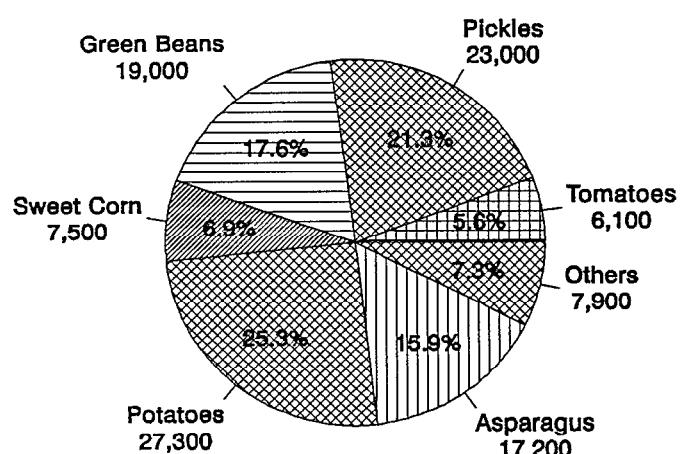


Figure 6.

**Table 25.—Cucumbers (for fresh market): Area, operations, yield, production, by counties**

| District and county                                 | Operations | Planted      | Harvested    | Yield         | Production    |
|---|------------|--------------|--------------|---------------|---------------|
|   | Number     | Acres        | Acres        | Pounds/acre   | 1,000 pounds  |
| Oceana . . . . .                                    | 5          | 520          |              |               |               |
| Other counties . . . . .                            | 6          | 130          |              |               |               |
| <b>West Central (4) . . . . .</b>                   | <b>11</b>  | <b>650</b>   | <b>520</b>   | <b>17,000</b> | <b>8,850</b>  |
| Bay . . . . .                                       | 20         | 85           |              |               |               |
| Saginaw . . . . .                                   | 7          | 105          |              |               |               |
| Other counties . . . . .                            | 7          | 160          |              |               |               |
| <b>East Central (6) . . . . .</b>                   | <b>34</b>  | <b>350</b>   | <b>330</b>   | <b>12,000</b> | <b>3,960</b>  |
| Allegan . . . . .                                   | 7          | 1,300        |              |               |               |
| Berrien . . . . .                                   | 30         | 820          |              |               |               |
| Cass & Van Buren . . . . .                          | 13         | 1,750        |              |               |               |
| Other counties . . . . .                            | 11         | 30           |              |               |               |
| <b>Southwest (7) . . . . .</b>                      | <b>61</b>  | <b>3,900</b> | <b>3,300</b> | <b>14,000</b> | <b>46,200</b> |
| Clinton & St. Joseph . . . . .                      | 4          | 470          |              |               |               |
| Other counties . . . . .                            | 14         | 30           |              |               |               |
| <b>South Central (8) . . . . .</b>                  | <b>18</b>  | <b>500</b>   | <b>500</b>   | <b>14,000</b> | <b>7,000</b>  |
| Macomb . . . . .                                    | 21         | 80           |              |               |               |
| Washtenaw . . . . .                                 | 4          | 40           |              |               |               |
| Other counties . . . . .                            | 37         | 80           |              |               |               |
| <b>Southeast (9) . . . . .</b>                      | <b>62</b>  | <b>200</b>   | <b>160</b>   | <b>11,000</b> | <b>1,760</b>  |
| <b>Total other districts (1)(2)(3)(5) . . . . .</b> | <b>19</b>  | <b>100</b>   | <b>90</b>    | <b>12,000</b> | <b>1,080</b>  |
| <b>State . . . . .</b>                              | <b>205</b> | <b>5,700</b> | <b>4,900</b> | <b>14,000</b> | <b>68,850</b> |

### Processing Vegetable Farms by Size Group

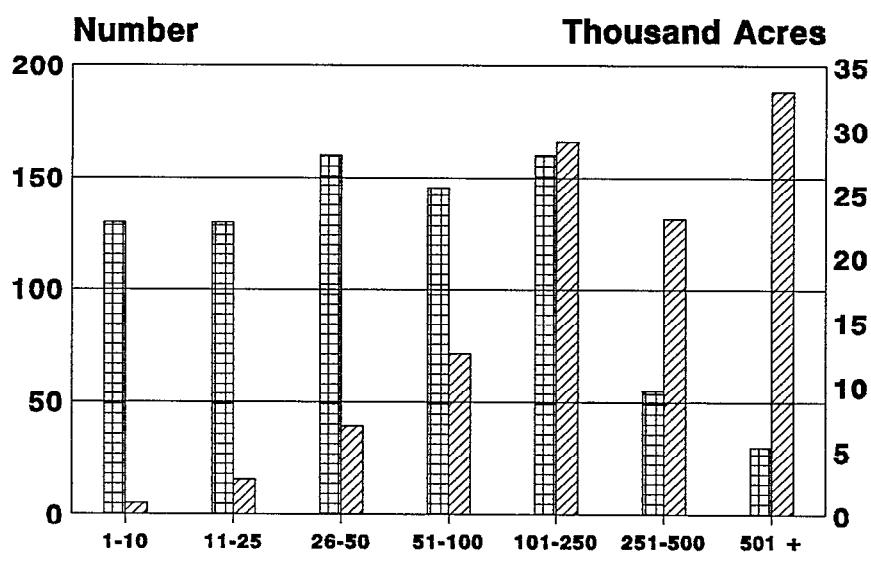


Figure 7.

■ Number   ■ Acres

# Lettuce

**Table 26.—Lettuce: Area, operations, yield, production, by type**

| Type              | Operations | Planted | Harvested | Yield       | Production   |
|-------------------|------------|---------|-----------|-------------|--------------|
|                   | Number     | Acres   | Acres     | Pounds/acre | 1,000 pounds |
| Head . . . . .    | 10         | 310     | 280       | 30,000      | 8,400        |
| Romaine . . . . . | 18         | 80      | 80        | 11,000      | 880          |
| Others . . . . .  | 25         | 210     | 190       | 12,000      | 2,280        |
| All . . . . .     | 37         | 600     | 550       | 21,000      | 11,560       |

# Onions, dry

**Table 27.—Onions, dry: Area, operations, yield, production, by counties**

| District and county                      | Operations | Planted      | Harvested    | Yield         | Production     |
|--|------------|--------------|--------------|---------------|----------------|
|  | Number     | Acres        | Acres        | Pounds/acre   | 1,000 pounds   |
| Muskegon . . . . .                       | 6          | 520          |              |               |                |
| Newaygo . . . . .                        | 10         | 1,280        |              |               |                |
| West Central (4) . . . . .               | 16         | 1,800        | 1,750        | 30,000        | 52,500         |
| Bay . . . . .                            | 23         | 170          |              |               |                |
| Tuscola . . . . .                        | 3          | 110          |              |               |                |
| Other counties . . . . .                 | 9          | 420          |              |               |                |
| Central (5) & East Central (6) . . . . . | 35         | 700          | 600          | 27,000        | 16,200         |
| Allegan . . . . .                        | 12         | 920          |              |               |                |
| Kent . . . . .                           | 7          | 330          |              |               |                |
| Ottawa . . . . .                         | 19         | 1,030        |              |               |                |
| Other counties . . . . .                 | 4          | 670          |              |               |                |
| Southwest (7) . . . . .                  | 42         | 2,950        | 2,850        | 39,000        | 111,200        |
| Calhoun . . . . .                        | 4          | 170          |              |               |                |
| Eaton . . . . .                          | 5          | 220          |              |               |                |
| Ingham . . . . .                         | 5          | 550          |              |               |                |
| Jackson . . . . .                        | 3          | 230          |              |               |                |
| Other counties . . . . .                 | 7          | 480          |              |               |                |
| South Central (8) . . . . .              | 24         | 1,650        | 1,550        | 32,000        | 49,600         |
| Lapeer . . . . .                         | 7          | 440          |              |               |                |
| Other counties . . . . .                 | 22         | 60           |              |               |                |
| Southeast (9) . . . . .                  | 29         | 500          | 450          | 34,000        | 15,300         |
| <b>State . . . . .</b>                   | <b>146</b> | <b>7,600</b> | <b>7,200</b> | <b>34,000</b> | <b>244,800</b> |

## Peas, green

**Table 28.—Peas, green (for fresh market): Area, operations, yield, production, by counties**

| District and county  | Operations    | Planted      | Harvested    | Yield              | Production          |
|--|---------------|--------------|--------------|--------------------|---------------------|
|  | <i>Number</i> | <i>Acres</i> | <i>Acres</i> | <i>Pounds/acre</i> | <i>1,000 pounds</i> |
| Ottawa . . . . .   | 7             | 35           |              |                    |                     |
| Other counties . . . . .                                     | 7             | 5            |              |                    |                     |
| <b>Southwest (7)</b> . . . . .                               | <b>14</b>     | <b>40</b>    |              |                    |                     |
| Macomb . . . . .   | 5             | 20           |              |                    |                     |
| Others . . . . .   | 12            | 15           |              |                    |                     |
| <b>Southeast (9)</b> . . . . .                               | <b>17</b>     | <b>35</b>    |              |                    |                     |
| <b>Total other districts (1)(2)(3)(4)(5)(6)(8)</b> . . . . . | <b>21</b>     | <b>25</b>    |              |                    |                     |
| <b>State</b> . . . . .                                       | <b>52</b>     | <b>100</b>   | <b>80</b>    | <b>3,200</b>       | <b>256</b>          |

**Table 29.—Peas, green (for processing): Area, operations, yield, production, by counties**

| District and county                    | Operations    | Planted      | Harvested    | Yield              | Production          |
|--|---------------|--------------|--------------|--------------------|---------------------|
|  | <i>Number</i> | <i>Acres</i> | <i>Acres</i> | <i>Pounds/acre</i> | <i>1,000 pounds</i> |
| Montcalm . . . . .                     | 11            | 1,300        |              |                    |                     |
| Other counties . . . . .               | 2             | 100          |              |                    |                     |
| <b>Central (5)</b> . . . . .           | <b>13</b>     | <b>1,400</b> |              |                    |                     |
| <b>Total other districts</b> . . . . . | <b>2</b>      | <b>100</b>   |              |                    |                     |
| <b>State</b> . . . . .                 | <b>15</b>     | <b>1,500</b> | <b>1,500</b> | <b>4,500</b>       | <b>6,750</b>        |

## Peppers, green

**Table 30.—Peppers, green (for fresh market): Area, operations, yield, production, by counties**

| District and county                           | Operations | Planted      | Harvested    | Yield         | Production    |
|---|------------|--------------|--------------|---------------|---------------|
|   | Number     | Acres        | Acres        | Pounds/acre   | 1,000 pounds  |
| Newaygo & Oceana . . . . .                    | 6          | 290          |              |               |               |
| Other counties . . . . .                      | 4          | 10           |              |               |               |
| <b>West Central (4)</b> . . . . .             | <b>10</b>  | <b>300</b>   | <b>280</b>   | <b>16,000</b> | <b>4,480</b>  |
| Gratiot . . . . .                             | 8          | 340          |              |               |               |
| Other counties . . . . .                      | 5          | 10           |              |               |               |
| <b>Central (5)</b> . . . . .                  | <b>13</b>  | <b>350</b>   | <b>330</b>   | <b>12,000</b> | <b>3,960</b>  |
| Bay . . . . .                                 | 23         | 200          |              |               |               |
| Other counties . . . . .                      | 14         | 80           |              |               |               |
| <b>East Central (6)</b> . . . . .             | <b>37</b>  | <b>280</b>   | <b>230</b>   | <b>12,000</b> | <b>2,760</b>  |
| Berrien . . . . .                             | 37         | 360          |              |               |               |
| Kent . . . . .                                | 9          | 120          |              |               |               |
| Ottawa . . . . .                              | 16         | 120          |              |               |               |
| Other counties . . . . .                      | 19         | 320          |              |               |               |
| <b>Southwest (7)</b> . . . . .                | <b>81</b>  | <b>920</b>   | <b>840</b>   | <b>15,500</b> | <b>13,000</b> |
| Macomb . . . . .                              | 28         | 100          |              |               |               |
| Monroe . . . . .                              | 14         | 55           |              |               |               |
| Other counties . . . . .                      | 41         | 145          |              |               |               |
| <b>Southeast (9)</b> . . . . .                | <b>83</b>  | <b>300</b>   | <b>240</b>   | <b>11,500</b> | <b>2,760</b>  |
| <b>Total other districts (1)(2)(3)(8)</b> . . | <b>25</b>  | <b>100</b>   | <b>80</b>    | <b>13,000</b> | <b>1,040</b>  |
| <b>State</b> . . . . .                        | <b>259</b> | <b>2,250</b> | <b>2,000</b> | <b>14,000</b> | <b>28,000</b> |

**Table 31.—Peppers, green (for processing): Area, operations, yield, production, Michigan**

| District and county    | Operations | Planted    | Harvested  | Yield         | Production   |
|------------------------|------------|------------|------------|---------------|--------------|
|                        | Number     | Acres      | Acres      | Pounds/acre   | 1,000 pounds |
| <b>State</b> . . . . . | <b>11</b>  | <b>350</b> | <b>320</b> | <b>11,000</b> | <b>3,520</b> |

## Peppers, other

Table 32.—Peppers, other (for processing): Area, operations, yield, production, by counties

| District & county                                  | Operations | Planted      | Harvested    | Yield         | Production    |
|--|------------|--------------|--------------|---------------|---------------|
|  | Number     | Acres        | Acres        | Pounds/acre   | 1,000 pounds  |
| Oceana . . . . .                                   | 6          | 235          |              |               |               |
| West Central (4) . . . . .                         | 6          | 235          |              |               |               |
| Gratiot . . . . .                                  | 5          | 395          |              |               |               |
| Central (5) . . . . .                              | 5          | 395          |              |               |               |
| Bay . . . . .                                      | 7          | 160          |              |               |               |
| Other counties . . . . .                           | 3          | 120          |              |               |               |
| East Central (6) . . . . .                         | 10         | 280          |              |               |               |
| Total other districts (1)(2)(3)(7)(8)(9) . . . . . | 3          | 140          |              |               |               |
| <b>State</b> . . . . .                             | <b>24</b>  | <b>1,050</b> | <b>1,020</b> | <b>11,000</b> | <b>11,220</b> |

Table 33.—Peppers, other (for fresh market): Area, operations, yield, production, Michigan

| District and county    | Operations | Planted    | Harvested  | Yield         | Production   |
|------------------------|------------|------------|------------|---------------|--------------|
|                        | Number     | Acres      | Acres      | Pounds/acre   | 1,000 pounds |
| <b>State</b> . . . . . | <b>55</b>  | <b>150</b> | <b>120</b> | <b>10,000</b> | <b>1,200</b> |

## Major Fresh Market Vegetables

Acres and Percent of Total

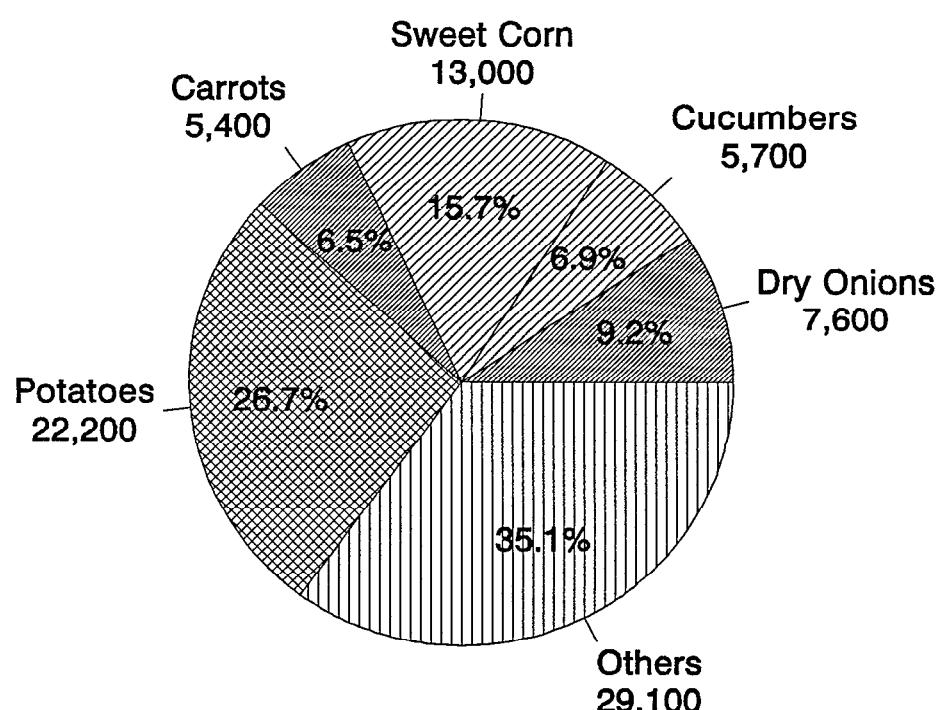


Figure 8.

# Potatoes

Table 34.—Potatoes (for processing): Area, operations, yield, production, by counties

| District and county           | Operations | Planted | Harvested | Yield       | Production   |
|-------------------------------|------------|---------|-----------|-------------|--------------|
|                               | Number     | Acres   | Acres     | Pounds/acre | 1,000 pounds |
| Upper Peninsula (1) . . . . . | 6          | 600     | 600       | 28,500      | 170,000      |
| Antrim . . . . .              | 3          | 1,200   |           |             |              |
| Emmet . . . . .               | 3          | 300     |           |             |              |
| Kalkaska . . . . .            | 2          | 600     |           |             |              |
| Other counties . . . . .      | 1          | 100     |           |             |              |
| Northwest (2) . . . . .       | 9          | 2,200   | 2,100     | 31,000      | 650,000      |
| Ostego . . . . .              | 2          | 500     |           |             |              |
| Presque Isle . . . . .        | 5          | 300     |           |             |              |
| Other counties . . . . .      | 2          | 600     |           |             |              |
| Northeast (3) . . . . .       | 9          | 1,400   | 1,400     | 26,500      | 370,000      |
| Mecosta . . . . .             | 2          | 1,500   |           |             |              |
| Midland . . . . .             | 2          | 200     |           |             |              |
| Montcalm . . . . .            | 31         | 9,300   |           |             |              |
| Other counties . . . . .      | 2          | 300     |           |             |              |
| Central (5) . . . . .         | 37         | 11,300  | 11,100    | 36,000      | 4,000,000    |
| Arenac . . . . .              | 4          | 1,200   |           |             |              |
| Bay . . . . .                 | 15         | 3,400   |           |             |              |
| Tuscola . . . . .             | 2          | 1,100   |           |             |              |
| Other counties . . . . .      | 2          | 1,500   |           |             |              |
| East Central (6) . . . . .    | 23         | 7,200   | 6,900     | 27,000      | 1,870,000    |
| Allegan . . . . .             | 4          | 1,200   |           |             |              |
| Kent . . . . .                | 2          | 200     |           |             |              |
| Other counties . . . . .      | 2          | 200     |           |             |              |
| Southwest (7) . . . . .       | 8          | 1,600   | 1,500     | 32,000      | 480,000      |
| South Central (8) . . . . .   | 4          | 800     | 800       | 27,000      | 215,000      |
| Southeast (9) . . . . .       | 4          | 2,200   | 2,100     | 25,500      | 535,000      |
| State . . . . .               | 100        | 27,300  | 26,500    | 31,500      | 8,290,000    |

Table 35.—Potatoes (for fresh market): Area, operations, yield, production, by counties

| District and county           | Operations | Planted       | Harvested     | Yield         | Production       |
|-------------------------------|------------|---------------|---------------|---------------|------------------|
|                               | Number     | Acres         | Acres         | Pounds/acre   | 1,000 pounds     |
| Delta . . . . .               | 10         | 1,200         |               |               |                  |
| Dickinson . . . . .           | 7          | 1,300         |               |               |                  |
| Iron . . . . .                | 4          | 350           |               |               |                  |
| Marquette . . . . .           | 3          | 450           |               |               |                  |
| Schoolcraft . . . . .         | 2          | 200           |               |               |                  |
| Other counties . . . . .      | 4          | 500           |               |               |                  |
| Upper Peninsula (1) . . . . . | 30         | 4,000         | 3,900         | 26,000        | 1,015,000        |
| Emmet . . . . .               | 3          | 100           |               |               |                  |
| Other counties . . . . .      | 13         | 800           |               |               |                  |
| Northwest (2) . . . . .       | 16         | 900           | 900           | 30,000        | 270,000          |
| Alpena . . . . .              | 3          | 700           |               |               |                  |
| Ostego . . . . .              | 4          | 500           |               |               |                  |
| Presque Isle . . . . .        | 26         | 2,800         |               |               |                  |
| Northeast (3) . . . . .       | 33         | 4,000         | 3,800         | 23,500        | 895,000          |
| West Central (4) . . . . .    | 7          | 200           | 200           | 22,500        | 45,000           |
| Gratiot . . . . .             | 3          | 100           |               |               |                  |
| Montcalm . . . . .            | 15         | 2,200         |               |               |                  |
| Other counties . . . . .      | 3          | 400           |               |               |                  |
| Central (5) . . . . .         | 21         | 2,700         | 2,700         | 32,500        | 880,000          |
| Arenac . . . . .              | 2          | 400           |               |               |                  |
| Bay . . . . .                 | 40         | 3,600         |               |               |                  |
| Saginaw . . . . .             | 10         | 500           |               |               |                  |
| Tuscola . . . . .             | 6          | 400           |               |               |                  |
| Other counties . . . . .      | 3          | 400           |               |               |                  |
| East Central (6) . . . . .    | 61         | 5,300         | 5,100         | 24,500        | 1,250,000        |
| Allegan . . . . .             | 5          | 800           |               |               |                  |
| Kent . . . . .                | 7          | 300           |               |               |                  |
| Other counties . . . . .      | 23         | 100           |               |               |                  |
| Southwest (7) . . . . .       | 35         | 1,200         | 1,200         | 29,000        | 350,000          |
| Eaton . . . . .               | 3          | 750           |               |               |                  |
| Shiawassee . . . . .          | 3          | 400           |               |               |                  |
| Other counties . . . . .      | 19         | 750           |               |               |                  |
| South Central (8) . . . . .   | 25         | 1,900         | 1,700         | 25,000        | 425,000          |
| Genesee . . . . .             | 2          | 500           |               |               |                  |
| Lapeer . . . . .              | 10         | 400           |               |               |                  |
| Lenawee . . . . .             | 3          | 300           |               |               |                  |
| Monroe . . . . .              | 9          | 400           |               |               |                  |
| Washtenaw . . . . .           | 6          | 300           |               |               |                  |
| Other counties . . . . .      | 11         | 100           |               |               |                  |
| Southeast (9) . . . . .       | 41         | 2,000         | 2,000         | 25,000        | 500,000          |
| <b>State . . . . .</b>        | <b>269</b> | <b>22,200</b> | <b>21,500</b> | <b>26,000</b> | <b>5,630,000</b> |

# Pumpkins

**Table 36.—Pumpkins: Area, operations, yield, production, by counties**

| District and county                                    | Operations<br><i>Number</i> | Planted<br><i>Acres</i> | Harvested<br><i>Acres</i> | Yield<br><i>Pounds/acre</i> | Production<br><i>1,000 pounds</i> |
|--|-----------------------------|-------------------------|---------------------------|-----------------------------|-----------------------------------|
| Bay . . . . .  | 17                          | 120                     |                           |                             |                                   |
| Saginaw . . . . .                                      | 6                           | 30                      |                           |                             |                                   |
| Other counties . . . . .                               | 10                          | 40                      |                           |                             |                                   |
| <b>East Central (6) . . . . .</b>                      | <b>33</b>                   | <b>190</b>              | <b>180</b>                | <b>18,000</b>               | <b>3,240</b>                      |
| Allegan . . . . .                                      | 15                          | 90                      |                           |                             |                                   |
| Berrien . . . . .                                      | 32                          | 110                     |                           |                             |                                   |
| Kent . . . . .   | 21                          | 230                     |                           |                             |                                   |
| Ottawa . . . . .                                       | 15                          | 90                      |                           |                             |                                   |
| Van Buren . . . . .                                    | 15                          | 70                      |                           |                             |                                   |
| Other counties . . . . .                               | 8                           | 30                      |                           |                             |                                   |
| <b>Southwest (7) . . . . .</b>                         | <b>106</b>                  | <b>620</b>              | <b>400</b>                | <b>13,000</b>               | <b>5,200</b>                      |
| Eaton . . . . .  | 7                           | 60                      |                           |                             |                                   |
| Ingham . . . . .                                       | 9                           | 30                      |                           |                             |                                   |
| St. Joseph . . . . .                                   | 7                           | 40                      |                           |                             |                                   |
| Other counties . . . . .                               | 30                          | 140                     |                           |                             |                                   |
| <b>South Central (8) . . . . .</b>                     | <b>53</b>                   | <b>270</b>              | <b>240</b>                | <b>17,000</b>               | <b>4,080</b>                      |
| Genesee . . . . .                                      | 10                          | 90                      |                           |                             |                                   |
| Lapeer . . . . .                                       | 11                          | 60                      |                           |                             |                                   |
| Macomb . . . . .                                       | 40                          | 460                     |                           |                             |                                   |
| Oakland . . . . .                                      | 16                          | 120                     |                           |                             |                                   |
| Washtenaw . . . . .                                    | 17                          | 140                     |                           |                             |                                   |
| Wayne . . . . .  | 12                          | 200                     |                           |                             |                                   |
| Other counties . . . . .                               | 35                          | 130                     |                           |                             |                                   |
| <b>Southeast (9) . . . . .</b>                         | <b>141</b>                  | <b>1,200</b>            | <b>1,130</b>              | <b>22,000</b>               | <b>24,850</b>                     |
| <b>Upper Peninsula (1) . . . . .</b>                   | <b>4</b>                    | <b>30</b>               |                           |                             |                                   |
| <b>Northwest (2) . . . . .</b>                         | <b>15</b>                   | <b>40</b>               |                           |                             |                                   |
| <b>Northeast (3) . . . . .</b>                         | <b>11</b>                   | <b>70</b>               |                           |                             |                                   |
| <b>West Central (4) . . . . .</b>                      | <b>8</b>                    | <b>20</b>               |                           |                             |                                   |
| <b>Central (5) . . . . .</b>                           | <b>17</b>                   | <b>60</b>               |                           |                             |                                   |
| <b>Total other districts (1)(2)(3)(4)(5) . . . . .</b> | <b>55</b>                   | <b>220</b>              | <b>150</b>                | <b>17,000</b>               | <b>2,550</b>                      |
| <b>State . . . . .</b>                                 | <b>388</b>                  | <b>2,500</b>            | <b>2,100</b>              | <b>19,000</b>               | <b>39,920</b>                     |

# Radishes

Table 37.—Radishes: Area, operations, yield, production, by district

| District and county                    | Operations | Planted      | Harvested    | Yield        | Production    |
|--|------------|--------------|--------------|--------------|---------------|
|  | Number     | Acres        | Acres        | Pounds/acre  | 1,000 pounds  |
| Southwest (7) . . . . .                | 8          | 2,300        | 2,100        | 6,500        | 13,650        |
| South Central (8) . . . . .            | 5          | 350          | 300          | 4,200        | 1,250         |
| Southeast (9) . . . . .                | 6          | 250          | 220          | 7,200        | 1,580         |
| Total other districts (1)(2)(5)(6) . . | 5          | 100          | 80           | 4,000        | 320           |
| <b>State</b> . . . . .                 | <b>24</b>  | <b>3,000</b> | <b>2,700</b> | <b>6,200</b> | <b>16,800</b> |

# Fresh Market Vegetables

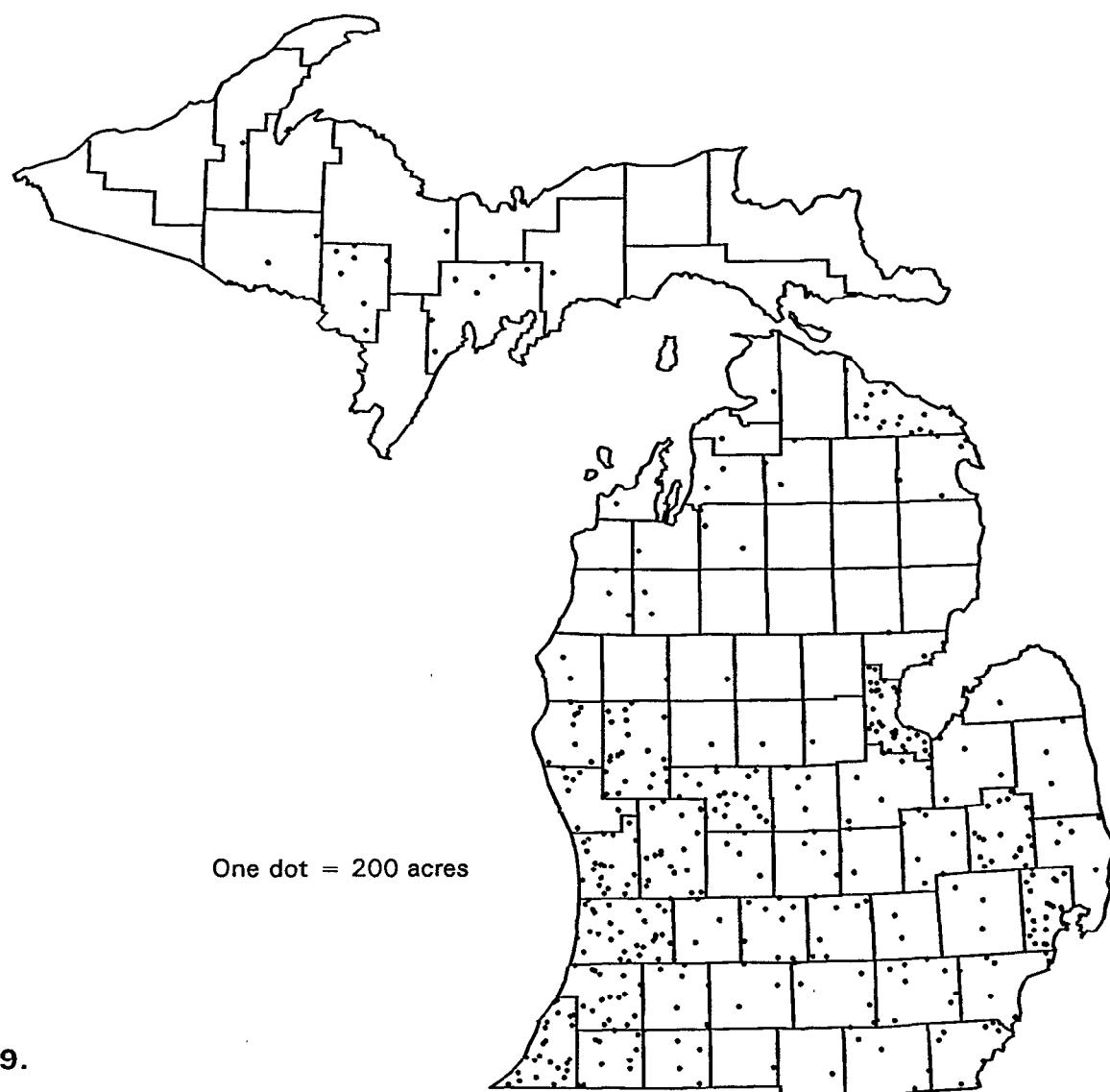


Figure 9.

# Squash, summer

Table 38.—Squash, summer (for processing): Area, operations, yield, production, by counties

| District and county                             | Operations | Planted    | Harvested  | Yield         | Production    |
|---|------------|------------|------------|---------------|---------------|
|   | Number     | Acres      | Acres      | Pounds/acre   | 1,000 pounds  |
| Oceana . . . . .                                | 8          | 370        |            |               |               |
| Other counties . . . . .                        | 1          | 80         |            |               |               |
| West Central (4) . . . . .                      | 9          | 450        | 450        | 33,000        | 14,900        |
| Total other districts(1)(2)(3)(5)(6)(7)(8)(9) . | 5          | 250        | 250        | 30,000        | 7,500         |
| <b>State</b> . . . . .                          | <b>14</b>  | <b>700</b> | <b>700</b> | <b>32,000</b> | <b>22,400</b> |

Table 39.— Squash, summer (for fresh market): Area, operations, yield, production, by counties

| District & county                               | Operations | Planted    | Harvested  | Yield         | Production   |
|---|------------|------------|------------|---------------|--------------|
|   | Number     | Acres      | Acres      | Pounds/acre   | 1,000 pounds |
| Berrien . . . . .                               | 36         | 350        |            |               |              |
| Other counties . . . . .                        | 22         | 80         |            |               |              |
| Southwest (7) . . . . .                         | 58         | 430        | 380        | 11,000        | 4,180        |
| Macomb . . . . .                                | 18         | 150        |            |               |              |
| Other counties . . . . .                        | 24         | 60         |            |               |              |
| Southeast (9) . . . . .                         | 42         | 210        | 180        | 13,000        | 2,340        |
| Total other districts (1)(2)(3)(4)(5)(6)(8) . . | 43         | 210        | 190        | 17,000        | 3,230        |
| <b>State</b> . . . . .                          | <b>143</b> | <b>850</b> | <b>750</b> | <b>13,000</b> | <b>9,750</b> |

# Squash, winter

Table 40.— Squash, winter (for processing): Area, operations, yield, production, by counties

| District and county        | Operations | Planted    | Harvested  | Yield         | Production    |
|----------------------------|------------|------------|------------|---------------|---------------|
|                            | Number     | Acres      | Acres      | Pounds/acre   | 1,000 pounds  |
| Mason & Newaygo . . . . .  | 5          | 180        | 180        |               |               |
| Oceana . . . . .           | 8          | 270        | 270        |               |               |
| West Central (4) . . . . . | 13         | 450        | 450        | 29,000        | 13,000        |
| Southeast (9) . . . . .    | 3          | 50         | 50         | 30,000        | 1,500         |
| <b>State</b> . . . . .     | <b>16</b>  | <b>500</b> | <b>500</b> | <b>29,000</b> | <b>14,500</b> |

Table 41.— Squash, winter (for fresh market): Area, operations, yield, production, by counties

| District and county                                      | Operations | Planted      | Harvested    | Yield         | Production    |
|--|------------|--------------|--------------|---------------|---------------|
|  | Number     | Acres        | Acres        | Pounds/acre   | 1,000 pounds  |
| Bay . . . . .  | 18         | 90           |              |               |               |
| Other counties . . . . .                                 | 10         | 30           |              |               |               |
| East Central (6) . . . . .                               | 28         | 120          | 105          | 12,000        | 1,260         |
| Berrien . . . . .  | 31         | 240          |              |               |               |
| Kent . . . . .   | 14         | 280          |              |               |               |
| Ottawa . . . . .   | 22         | 420          |              |               |               |
| Other counties . . . . .                                 | 24         | 110          |              |               |               |
| Southwest (7) . . . . .                                  | 91         | 1,050        | 920          | 14,000        | 12,900        |
| Lapeer . . . . .   | 7          | 50           |              |               |               |
| Macomb . . . . .   | 30         | 200          |              |               |               |
| Monroe . . . . .   | 6          | 70           |              |               |               |
| Other counties . . . . .                                 | 30         | 150          |              |               |               |
| Southeast (9) . . . . .                                  | 73         | 470          | 400          | 13,000        | 5,200         |
| <b>Total other districts(1)(2)(3)(4)(5)(8)</b> . . . . . | <b>56</b>  | <b>210</b>   | <b>175</b>   | <b>8,500</b>  | <b>1,490</b>  |
| <b>State</b> . . . . .                                   | <b>248</b> | <b>1,850</b> | <b>1,600</b> | <b>13,000</b> | <b>20,850</b> |

# Strawberries

**Table 42.—Strawberries (for fresh market): Area, operations, yield, production, by counties**

| District and county                    | Operations    | Harvested    | Yield              | Production          |
|--|---------------|--------------|--------------------|---------------------|
|  | <i>Number</i> | <i>Acres</i> | <i>Pounds/acre</i> | <i>1,000 pounds</i> |
| Houghton . . . . .                     | 6             | 30           |                    |                     |
| Other counties . . . . .               | 13            | 95           |                    |                     |
| Upper Peninsula (1) . . . . .          | 19            | 125          | 3,500              | 440                 |
| Leelanau & Manistee . . . . .          | 15            | 150          |                    |                     |
| Other counties . . . . .               | 9             | 20           |                    |                     |
| Northwest (2) . . . . .                | 24            | 170          | 7,500              | 1,280               |
| Alpena . . . . .                       | 5             | 60           |                    |                     |
| Other counties . . . . .               | 9             | 25           |                    |                     |
| Northeast (3) . . . . .                | 14            | 85           | 3,000              | 260                 |
| Bay & Saginaw . . . . .                | 9             | 65           |                    |                     |
| Other counties . . . . .               | 12            | 35           |                    |                     |
| East Central (6) . . . . .             | 21            | 100          | 4,500              | 450                 |
| Berrien . . . . .                      | 31            | 280          |                    |                     |
| Kent . . . . .                         | 11            | 45           |                    |                     |
| Van Buren . . . . .                    | 9             | 95           |                    |                     |
| Other counties . . . . .               | 24            | 180          |                    |                     |
| Southwest (7) . . . . .                | 75            | 600          | 7,500              | 4,500               |
| South Central (8) . . . . .            | 41            | 190          | 6,000              | 1,140               |
| Genesee . . . . .                      | 7             | 70           |                    |                     |
| Macomb . . . . .                       | 8             | 95           |                    |                     |
| Washtenaw . . . . .                    | 12            | 85           |                    |                     |
| Other counties . . . . .               | 25            | 160          |                    |                     |
| Southeast (9) . . . . .                | 52            | 410          | 7,000              | 2,870               |
| Total other districts (4)(5) . . . . . | 17            | 70           | 6,500              | 460                 |
| <b>State . . . . .</b>                 | <b>263</b>    | <b>1,750</b> | <b>6,500</b>       | <b>11,400</b>       |

**Table 43.—Strawberries (for processing): Area, operations, yield, production, by districts**

| District and county                                   | Operations    | Harvested    | Yield              | Production          |
|---|---------------|--------------|--------------------|---------------------|
|   | <i>Number</i> | <i>Acres</i> | <i>Pounds/acre</i> | <i>1,000 pounds</i> |
| Northwest (2) . . . . .                               | 13            | 150          |                    |                     |
| Southwest (7) . . . . .                               | 6             | 75           |                    |                     |
| Total other districts (1)(3)(4)(5)(6)(8)(9) . . . . . | 6             | 25           |                    |                     |
| <b>State . . . . .</b>                                | <b>25</b>     | <b>250</b>   | <b>7,500</b>       | <b>1,875</b>        |

Table 44.—Strawberry varieties: Area, by year of planting

| Variety                | 1992       | 1991       | 1990       | 1989       | 1988       | Before 1987 | Total        |
|------------------------|------------|------------|------------|------------|------------|-------------|--------------|
| Acres                  |            |            |            |            |            |             |              |
| Allstar . . . . .      | 43         | 72         | 96         | 71         | 43         | 15          | 340          |
| Earliglow . . . . .    | 26         | 32         | 80         | 18         | 20         | 14          | 190          |
| Guardian . . . . .     | 4          | 116        | 81         | 41         | 14         | 24          | 280          |
| Honeoye . . . . .      | 65         | 116        | 125        | 87         | 13         | 34          | 440          |
| Jewel . . . . .        | 21         | 37         | 64         | 9          | 19         | 0           | 150          |
| Kent . . . . .         | 4          | 30         | 25         | 6          | 9          | 1           | 75           |
| Lateglow . . . . .     | 3          | 16         | 27         | 7          | 0          | 1           | 54           |
| Lester . . . . .       | 4          | 0          | 9          | 0          | 0          | 4           | 17           |
| Midway . . . . .       | 21         | 20         | 18         | 6          | 32         | 33          | 130          |
| Red Chief . . . . .    | 34         | 85         | 20         | 22         | 17         | 22          | 200          |
| Scott . . . . .        | 0          | 2          | 2          | 1          | 2          | 0           | 7            |
| Sparkle . . . . .      | 5          | 16         | 11         | 7          | 0          | 1           | 40           |
| Tribute . . . . .      | 1          | 0          | 1          | 0          | 0          | 0           | 2            |
| Tristar . . . . .      | 0          | 0          | 4          | 0          | 0          | 0           | 4            |
| Others . . . . .       | 13         | 7          | 6          | 8          | 10         | 0           | 44           |
| Unknown . . . . .      | 6          | 1          | 11         | 7          | 1          | 1           | 27           |
| <b>Total</b> . . . . . | <b>250</b> | <b>550</b> | <b>580</b> | <b>290</b> | <b>180</b> | <b>150</b>  | <b>2,000</b> |

## Strawberries by Variety

Acres harvested in 1992

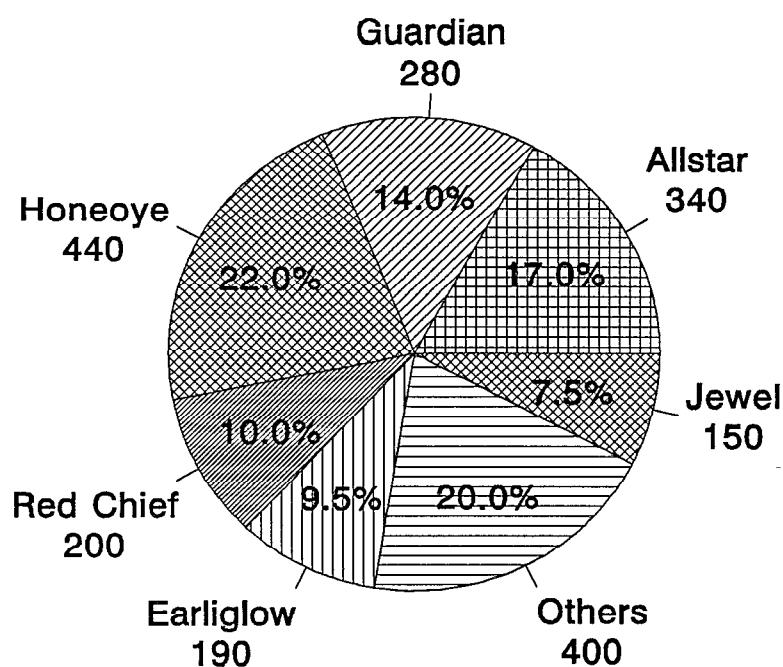


Figure 10.

# Tomatoes

**Table 45.—Tomatoes (for processing): Area, operations, yield, production, by counties**

| District and county                | Operations | Planted      | Harvested    | Yield         | Production     |
|------------------------------------|------------|--------------|--------------|---------------|----------------|
|                                    | Number     | Acres        | Acres        | Pounds/acre   | 1,000 pounds   |
| Berrien . . . . .                  | 8          | 280          |              |               |                |
| Other counties . . . . .           | 2          | 120          |              |               |                |
| <b>Southwest (7) . . . . .</b>     | <b>10</b>  | <b>400</b>   | <b>380</b>   | <b>55,000</b> | <b>20,900</b>  |
| Branch . . . . .                   | 4          | 350          |              |               |                |
| St. Joseph . . . . .               | 4          | 750          |              |               |                |
| Other counties . . . . .           | 2          | 100          |              |               |                |
| <b>South Central (8) . . . . .</b> | <b>10</b>  | <b>1,200</b> | <b>1,170</b> | <b>74,000</b> | <b>86,600</b>  |
| Lenawee . . . . .                  | 27         | 2,800        |              |               |                |
| Monroe . . . . .                   | 15         | 1,700        |              |               |                |
| <b>Southeast (9) . . . . .</b>     | <b>42</b>  | <b>4,500</b> | <b>4,150</b> | <b>62,000</b> | <b>257,300</b> |
| <b>State . . . . .</b>             | <b>62</b>  | <b>6,100</b> | <b>5,700</b> | <b>64,000</b> | <b>364,800</b> |

**Table 46.—Tomatoes (for fresh market): Area, operations, yield, production, by counties**

| District and county                                   | Operations | Planted      | Harvested    | Yield         | Production    |
|---|------------|--------------|--------------|---------------|---------------|
|   | Number     | Acres        | Acres        | Pounds/acre   | 1,000 pounds  |
| Bay . . . . .   | 42         | 135          |              |               |               |
| Other counties . . . . .                              | 24         | 45           |              |               |               |
| <b>East Central (6) . . . . .</b>                     | <b>66</b>  | <b>180</b>   | <b>150</b>   | <b>11,000</b> | <b>1,650</b>  |
| Berrien . . . . .                                     | 70         | 1,150        |              |               |               |
| Van Buren . . . . .                                   | 16         | 60           |              |               |               |
| Other counties . . . . .                              | 49         | 540          |              |               |               |
| <b>Southwest (7) . . . . .</b>                        | <b>135</b> | <b>1,750</b> | <b>1,650</b> | <b>13,000</b> | <b>21,400</b> |
| <b>South Central (8) . . . . .</b>                    | <b>48</b>  | <b>110</b>   | <b>100</b>   | <b>14,000</b> | <b>1,400</b>  |
| Lenawee . . . . .                                     | 11         | 60           |              |               |               |
| Macomb . . . . .                                      | 41         | 110          |              |               |               |
| Monroe . . . . .                                      | 25         | 180          |              |               |               |
| Washtenaw & Wayne . . . . .                           | 18         | 70           |              |               |               |
| Other counties . . . . .                              | 57         | 110          |              |               |               |
| <b>Southeast (9) . . . . .</b>                        | <b>152</b> | <b>530</b>   | <b>450</b>   | <b>20,000</b> | <b>9,000</b>  |
| <b>Total other districts(1)(2)(3)(4)(5) . . . . .</b> | <b>65</b>  | <b>130</b>   | <b>100</b>   | <b>8,500</b>  | <b>850</b>    |
| <b>State . . . . .</b>                                | <b>466</b> | <b>2,700</b> | <b>2,450</b> | <b>14,000</b> | <b>34,300</b> |

## Survey Methods

The 1992 Rotational Vegetable Survey began with a data users meeting. Questionnaire content and format were approved by this committee before printing the survey instrument. Industry representatives also assisted with publicity for the project.

Questionnaires were mailed to all operations on the Michigan Agricultural Statistics Service's list sampling frame that had indicators of vegetables. This mailing occurred in October, 1992. In addition, questionnaires were sent to "snowball" operations in November, 1992. These were operations listed on the questionnaire as having vegetables that were not on the original list. Just over 75 percent of that list actually had vegetables in 1992. About 20 percent of the snowball list were confirmed commercial operations—growers that had at least one-half acre of any particular vegetable crop. A total of 2,280 operations were identified.

Operators who did not respond by mail were telephoned or interviewed in person in November and December. Acres by crop were estimated for those who refused or who were unable to be contacted. Completion rates by type were as follows: mailed-14 percent; telephoned-40 percent; interviewed-34 percent; estimated-12 percent. The percent cooperation varied widely by county, as shown in the following table.

**Table 47.—Reponse Rate of Rotational Vegetable Survey Counties**

| County         | Response<br><i>Percent</i> | County   | Response<br><i>Percent</i> | County       | Response<br><i>Percent</i> |
|----------------|----------------------------|----------|----------------------------|--------------|----------------------------|
| Allegan        | 95                         | Lapeer   | 83                         | Ottawa       | 82                         |
| Arenac         | 79                         | Lenawee  | 90                         | Presque Isle | 42                         |
| Bay            | 74                         | Macomb   | 94                         | Saginaw      | 90                         |
| Berrien        | 89                         | Manistee | 97                         | St. Clair    | 92                         |
| Cass           | 100                        | Mason    | 87                         | St. Joseph   | 95                         |
| Eaton          | 96                         | Mecosta  | 95                         | Tuscola      | 96                         |
| Genesee        | 87                         | Monroe   | 93                         | Van Buren    | 95                         |
| Grand Traverse | 96                         | Montcalm | 87                         | Washtenaw    | 79                         |
| Gratiot        | 94                         | Muskegon | 83                         |              |                            |
| Ionia          | 95                         | Newaygo  | 81                         |              |                            |
| Kalamazoo      | 89                         | Oakland  | 100                        |              |                            |
| Kent           | 89                         | Oceana   | 80                         |              |                            |

Acres planted for major counties for each vegetable crop and utilization are shown except when confidentiality rules prohibited county level data publication. This occurs when there are fewer than three growers in the county or when one grower has more than 60 percent of the acres.<sup>1</sup> Harvested acres and mean yields are shown at the agricultural statistics district level for major vegetable crops.<sup>2</sup> They are published at the state level for minor crops.

<sup>1</sup> Letters were sent to 32 growers requesting permission to publish a county estimate of acres for a crop. Twelve growers agreed.

<sup>2</sup> Yields are rounded.



Michigan  
Agricultural  
Statistics  
Service

P.O. Box 20008  
Lansing, Michigan 48901-0608

FORM APPROVED  
PROJECT CODE 482  
COST CENTER 1120

# ROTATIONAL VEGETABLE SURVEY

## 1992

Dear Grower:

An inventory of Michigan's vegetable acreage is under way. There is a demand for marketing information at the county level. We need your help to insure that all vegetable acreage and production is counted. For this report, potatoes and strawberries are included. Please report your acreage and production of vegetable crops. The information you report is kept confidential. Response to this survey is voluntary and not required by law. Your cooperation, however, is very important and greatly appreciated. Please complete and return this questionnaire promptly.

Thank you,

Don J. Fedewa  
State Statistician

Chad Clos/Marty Saffell  
Statisticians

Please make corrections of farm name, operator(s) and address below:

FARM NAME \_\_\_\_\_

PARTNERS NAME(S) \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ ZIP \_\_\_\_\_

If not growing vegetables in 1992, check one (✓) and return survey.

NOT  
Vegetable/  
Strawberry  
Grower

Farm  
Sold

Retired  
from  
Farming

Entire  
Farm  
Rented to  
Others

If sold or rented out, please indicate purchaser or renter:

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE ( ) \_\_\_\_\_

**INSTRUCTIONS:** Include land rented from others, but exclude land rented to others. When a crop is used for fresh market and processing, please distinguish between the two uses.

- A. Land you operated in 1992 . . . . .
- B. Total cropland . . . . .
- C. Vegetables, potatoes and strawberries in major county \_\_\_\_\_ (specify county)  
of operation.
- D. Vegetables, potatoes and strawberries in secondary county \_\_\_\_\_ (specify county)  
of operation.

| ACRES |
|-------|
| 901   |
| 902   |
| 903   |
| 904   |

## FOR PROCESSING

| CROP                             | Acres Planted            | Acres Harvested | 1992 Yield<br>Per Acre<br>(Pounds) |  |
|----------------------------------|--------------------------|-----------------|------------------------------------|--|
|                                  | (To Nearest Half-Acre) * |                 |                                    |  |
|                                  | 1992                     | 1992            |                                    |  |
| <u>ASPARAGUS</u> <sup>1</sup>    |                          | 418             | 437                                |  |
| Beans (Snap, Green)              | 401                      | 419             | 438                                |  |
| Cabbage                          | 402                      | 420             | 439                                |  |
| Carrots                          | 403                      | 421             | 440                                |  |
| Cauliflower                      | 404                      | 422             | 441                                |  |
| Celery                           | 405                      | 423             | 442                                |  |
| Corn (Sweet)                     | 406                      | 424             | 443                                |  |
| Cucumbers (Pickles)              | 407                      | 425             | 444                                |  |
| Peas (Green)                     | 408                      | 426             | 445                                |  |
| Peppers (Green Bell)             | 409                      | 427             | 446                                |  |
| Peppers (Other)                  | 410                      | 428             | 447                                |  |
| Potatoes                         | 411                      | 429             | 448                                |  |
| Squash (Summer)                  | 412                      | 430             | 449                                |  |
| Squash (Winter)                  | 413                      | 431             | 450                                |  |
| <u>STRAWBERRIES</u> <sup>1</sup> |                          | 432             | 451                                |  |
| Tomatoes                         | 414                      | 433             | 452                                |  |
| Other (Specify)                  |                          |                 |                                    |  |
|                                  | 415                      | 434             | 453                                |  |
|                                  | 416                      | 435             | 454                                |  |
| <b>TOTAL Acreage</b>             | <b>417</b>               | <b>436</b>      |                                    |  |

<sup>1</sup> If the same acres were harvested for both fresh market and processing, report all acreage and yield under the major utilization. If you had asparagus or strawberry acreage in 1992, please complete the section on ages and varieties on the last page.

\* EXAMPLE:    1/4 acre = 0.0 acre  
                  1/3 acre = 0.5 acre

1/2 acre = 0.5 acre  
2/3 acre = 0.5 acre

3/4 acre = 1.0 acre  
1-1/4 acre = 1.0 acre

## FRESH MARKET

| CROP                             | Acres Planted          |          | Acres<br>Harvested | 1992 Yield<br>Per Acre<br>(Pounds) |     |  |  |
|----------------------------------|------------------------|----------|--------------------|------------------------------------|-----|--|--|
|                                  | (To Nearest Half-Acre) |          |                    |                                    |     |  |  |
|                                  | 1992                   | 1991     | 1992               |                                    |     |  |  |
| <u>ASPARAGUS</u> <sup>1</sup>    |                        |          | 339                | .                                  | 367 |  |  |
| Beans (Snap, Green)              | 301                    | .        | 340                | .                                  | 368 |  |  |
| Broccoli                         | 302                    | .        | 341                | .                                  | 369 |  |  |
| Cabbage                          | 303                    | .        | 342                |                                    | 370 |  |  |
| Carrots                          | 304                    | .        | 327                | .                                  | 343 |  |  |
| Cauliflower                      | 305                    | .        | 331                | .                                  | 344 |  |  |
| Celery                           | 306                    | .        | 328                | .                                  | 345 |  |  |
| Corn (Sweet)                     | 307                    | .        | 329                | .                                  | 346 |  |  |
| Cucumbers                        | 308                    | .        | 329                | .                                  | 347 |  |  |
| Lettuce (Head)                   | 309                    | .        | 380                | .                                  | 348 |  |  |
| Lettuce (Romaine)                | 310                    | .        | 380                | .                                  | 349 |  |  |
| Lettuce (Other Leaf)             | 311                    | .        | 380                | .                                  | 350 |  |  |
| Muskmelons (Cantaloupes)         | 312                    |          | 380                | .                                  | 351 |  |  |
| Onions (Dry)                     | 313                    | .        | 383                | .                                  | 352 |  |  |
| Onions (Green)                   | 314                    | .        | 383                | .                                  | 353 |  |  |
| Peas (Green)                     | 315                    | .        | 383                | .                                  | 354 |  |  |
| Peppers (Green Bell)             | 316                    | .        | 383                | .                                  | 355 |  |  |
| Peppers (Other)                  | 317                    | .        | 383                | .                                  | 356 |  |  |
| Potatoes                         | 318                    | .        | 383                | .                                  | 357 |  |  |
| Pumpkins                         | 319                    | .        | 383                | .                                  | 358 |  |  |
| Radishes                         | 320                    | .        | 383                | .                                  | 359 |  |  |
| Squash (Summer)                  | 321                    | .        | 383                | .                                  | 360 |  |  |
| Squash (Winter)                  | 322                    | .        | 383                | .                                  | 361 |  |  |
| <u>STRAWBERRIES</u> <sup>1</sup> |                        |          | 362                | .                                  | 390 |  |  |
| Tomatoes                         | 323                    | .        | 335                | .                                  | 363 |  |  |
| Other (Specify):                 |                        |          |                    |                                    |     |  |  |
|                                  | 324                    | .        | 336                | .                                  | 364 |  |  |
|                                  | 325                    | .        | 337                | .                                  | 365 |  |  |
| <b>TOTAL Acreage</b>             | <b>326</b>             | <b>.</b> | <b>366</b>         | <b>.</b>                           |     |  |  |

**PLEASE**  
**NOTE:**  
  
Write  
other crops  
produced  
such as  
red beets,  
greens,  
rhubarb,  
spinach,  
eggplant,  
parsnips  
and water-  
melons in  
the "Other"  
rows.

ASPARAGUS  
Crop Type = A

| Variety               | Code |
|-----------------------|------|
| Centennial .....      | 101  |
| Jersey Giant .....    | 102  |
| Jersey Knight .....   | 103  |
| Mary Washington ..... | 104  |
| Syn 4-56 .....        | 105  |
| Viking KB3 .....      | 106  |

STRAWBERRIES  
Crop Type = S

| Variety         | Code | Variety         | Code | Variety       | Code |
|-----------------|------|-----------------|------|---------------|------|
| Allstar .....   | 201  | Kent .....      | 206  | Scott .....   | 211  |
| Earliglow ..... | 202  | Lateglow .....  | 207  | Sparkle ..... | 212  |
| Guardian .....  | 203  | Lester .....    | 208  | Tribute ..... | 213  |
| Honeoye .....   | 204  | Midway .....    | 209  | Tristar ..... | 214  |
| Jewel .....     | 205  | Red Chief ..... | 210  |               |      |

\* Use Code, if available. If not on the list, write in variety or hybrid name.

| FIELD<br>(Name or Number) | COUNTY<br>(Name) | CROP<br>TYPE | HYBRID/<br>VARIETY *<br>(Code or Name) | YEAR<br>PLANTED | ACRES<br>(To Nearest Half-Acre) |
|---------------------------|------------------|--------------|--|-----------------|---------------------------------|
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |
|                           |                  |              |  |                 | .                               |

To help insure accurate and complete coverage of commercial vegetable crops, please list the name and address of the commercial vegetable grower nearest you.

NAME

STREET ADDRESS AND CITY

REPORTED BY

TELEPHONE

DATE

For Office Use Only

Enumerator

1=Int 2=Tel 3=Mail 4=Ref 5=Inac 910  
Status Code