

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

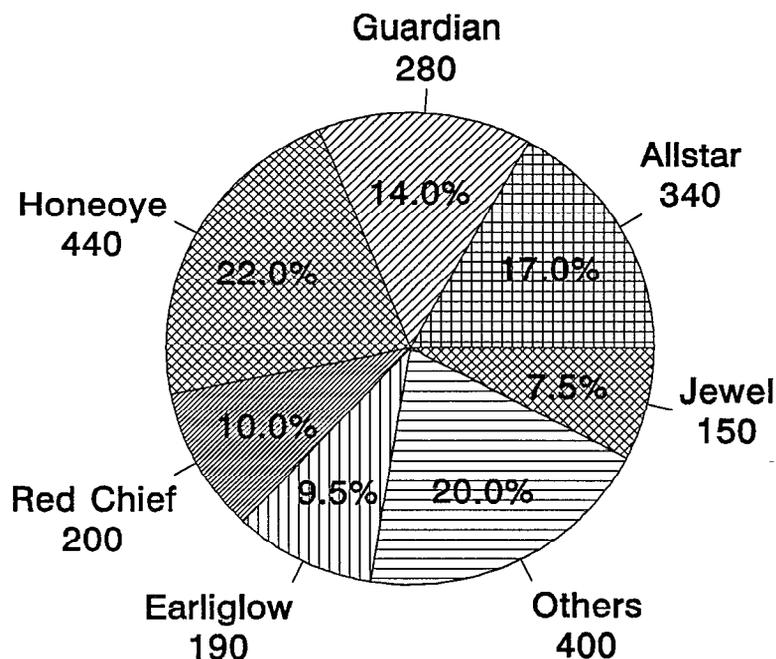


Figure 10.

# Tomatoes

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

| District and county                | Operations    | Planted      | Harvested    | Yield              | Production          |
|------------------------------------|---------------|--------------|--------------|--------------------|---------------------|
|                                    | <i>Number</i> | <i>Acres</i> | <i>Acres</i> | <i>Pounds/acre</i> | <i>1,000 pounds</i> |
| 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          |
|---|---------------|--------------|--------------|--------------------|---------------------|
|   | <i>Number</i> | <i>Acres</i> | <i>Acres</i> | <i>Pounds/acre</i> | <i>1,000 pounds</i> |
| 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       | County   | Response       | County       | Response       |
|----------------|----------------|----------|----------------|--------------|----------------|
|                | <i>Percent</i> |          | <i>Percent</i> |              | <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.



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

# ROTATIONAL VEGETABLE SURVEY 1992

FORM APPROVED  
PROJECT CODE 482  
COST CENTER 1120

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 Cloos/Marty Saffell  
Statisticians

Please make corrections of farm name, operators) 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>             | 417                      | . | 436             | . |                                    |

<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                      1/2 acre = 0.5 acre                      3/4 acre = 1.0 acre  
                          1/3 acre = 0.5 acre                      2/3 acre = 0.5 acre                      1-1/4 acre = 1.0 acre

## FRESH MARKET

| CROP                             | Acres Planted          |      | Acres Harvested |      | 1992 Yield<br>Per Acre<br>(Pounds) |
|----------------------------------|------------------------|------|-----------------|------|------------------------------------|
|                                  | (To Nearest Half-Acre) |      |                 |      |                                    |
|                                  | 1992                   | 1991 | 1992            | 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                    | .    | 327             | .    | 347                                |
| Lettuce (Head)                   | 309                    | .    | 330             | .    | 348                                |
| Lettuce (Romaine)                | 310                    | .    | 331             | .    | 349                                |
| Lettuce (Other Leaf)             | 311                    | .    | 332             | .    | 350                                |
| Muskmelons (Cantaloupes)         | 312                    | .    | 333             | .    | 351                                |
| Onions (Dry)                     | 313                    | .    | 334             | .    | 352                                |
| Onions (Green)                   | 314                    | .    | 335             | .    | 353                                |
| Peas (Green)                     | 315                    | .    | 336             | .    | 354                                |
| Peppers (Green Bell)             | 316                    | .    | 337             | .    | 355                                |
| Peppers (Other)                  | 317                    | .    | 338             | .    | 356                                |
| Potatoes                         | 318                    | .    | 339             | .    | 357                                |
| Pumpkins                         | 319                    | .    | 340             | .    | 358                                |
| Radishes                         | 320                    | .    | 341             | .    | 359                                |
| Squash (Summer)                  | 321                    | .    | 342             | .    | 360                                |
| Squash (Winter)                  | 322                    | .    | 343             | .    | 361                                |
| <u>STRAWBERRIES</u> <sup>1</sup> |                        |      | 362             | .    | 390                                |
| Tomatoes                         | 323                    | .    | 335             | .    | 363                                |
| Other (Specify):                 |                        |      |                 |      |                                    |
|                                  | 324                    | .    | 336             | .    | 364                                |
|                                  | 325                    | .    | 337             | .    | 365                                |
| TOTAL Acreage                    | 326                    | .    | 366             | .    |                                    |

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

