

# Central District

Area <sup>1</sup>	4,634 square miles (2,911,906 acres of land <sup>2</sup> )
Population <sup>3</sup>	376,824
Counties	Clare, Gladwin, Gratiot, Isabella, Mecosta, Midland, Montcalm, Osceola
Watersheds	Saginaw, Grand, Muskegon, Kawkawlin, Manistee



## Regional rankings (out of 9):

- #1 in Michigan in acres of potatoes (16,418)
- #2 in Michigan in acres of vegetables (31,204 acres) and dry edible beans (24,416)
- #2 in Michigan in number of cattle operations (2,179) and dairy farms (433)
- #2 in Michigan in production of sugarbeets (323,172 tons)
- #2 in Michigan in forage/pasture/non-crop agricultural land (184,858 acres)

Agricultural Revenues <sup>2</sup>	Amount	Rank (out of 9)
Total market value of agriculture production <sup>4</sup>	\$582,790,000	#5
Total crop sales	\$266,881,000	#5
Total livestock sales	\$315,923,000	#4

## Locally Important Products

Potatoes	16,418 acres	#1
Maple syrup	10,386 gallons	#1
Sugarbeets	323,172 tons	#2
Cattle operations	2,179 operations	#2
Revenue from cattle and calves	\$60,521,000	#3
Dry edible beans	24,416 acres	#2
Oats	8,621 acres	#2

## Key Michigan Products

Corn, soy, and wheat	493,423 acres (41.5% of cropland)	#5
Revenue from corn, soy, and wheat	\$149,942,000	#5
Vegetables	31,204 acres (2.6 % of cropland)	#2
Revenue from vegetables	\$50,880,000	#3
Fruit and tree nuts	1,352 acres (1% of cropland)	#6
Revenue from fruits, tree nuts and berries	\$2,661,000	#6
Dairy farms	433 farms (18.7% of all in MI)	#2
Revenue from milk and other dairy	\$165,533,000	#4
All animal operations	3,609 operations (346,945 animals <sup>5</sup> )	#4

## Agricultural Land<sup>2</sup>

Total number of farms	6,530	#5
Total farmland	1,189,302 acres (40.1% of total area)	#5
Forage/pasture/non-crop farmland	184,858 acres (15.9% of farmland)	#2
Number of farms using organic production	36 (17 certified organic farms <sup>6</sup> )	#6
Cropland in organic production	3,068 acres (includes non-certified acres)	#4
Cropland in transition to organic	2,028 acres	#3
Area of greenhouse/nursery operations	269,172 sq. ft.	#7

## Michigan Food and Agricultural Systems Profiles

### Central District

#### Agricultural Chemicals<sup>7</sup>

	Number	Percent of MI total	Rank (out of 9)
Fertilizer manufacturers, distributors, and storage facilities	33	12.4%	#4
Pesticide storage facilities	18	12.1%	#5

#### Processing and Warehousing<sup>7</sup>

Wholesale food processing plants	82	16.2%	#9
Food warehouses	31	3.0%	#9
Controlled atmosphere storage facilities	0		
Dairy processing plants	7	9.9%	#4
Dairy warehouse, transfer, and truck cleaning facilities	2	6.9%	#6
Slaughter facilities (MDA licensed)	3	5.2%	#8
Meat processing plants (MDA licensed)	0		
Rendering facilities	2	66.7%	#1
Commercial feed manufacturing facilities	32	7.8%	#5
Livestock auctions/buying stations	5	20.8%	#2
Ethanol plants	none		

#### Retailing and Distribution

Food service establishments (all) <sup>8</sup>	1,427	3.9%	#7
Retail food establishments	614	4.2%	#7
Total amount spent by consumers on food (estimate) <sup>9</sup>	\$623,400,000		
Emergency food distribution sites <sup>10</sup>	105	3.8%	
Pounds distributed	2,449,392	1.2%	
Students receiving free or reduced school lunch <sup>11</sup>	25,458		
Households receiving food stamp benefits	46,866		
Total federal funding for food stamp benefits	\$48,651,018		
Pet population (estimate) <sup>12</sup>	199,000		
Port(s) of entry	none		

#### Local Distribution

Farmers' markets <sup>13</sup>	1		
U-pick farms /On-farm markets	4		
Farms using Community Supported Agriculture <sup>2</sup>	48		
Value of direct-to-consumer farm product sales	\$3,081,000		
Local food production index <sup>14</sup>	44		

The local food production index describes both the quantity and diversity of agricultural production in a region. It is obtained by comparing region per capita production of major food crops with national per capita consumption of those crops. The highest possible index score of 100 indicates that sufficient quantities of all included crops are produced within the region to meet local demand. Michigan's statewide production index score is 30.

<sup>1</sup> U.S. Census Bureau State & County Quick Facts: <http://quickfacts.census.gov/qfd/states/26000.html>

<sup>2</sup> 2007 Census of Agriculture. National Agricultural Statistics Service. <http://www.nass.usda.gov/mi>

<sup>3</sup> Michigan Economic Development Corporation Economic Profiler: <http://ref.michigan.org/medc/MIInfo/Places/>

<sup>4</sup> The Central Region received \$12,694,000 in federal commodity payments in 2007.

<sup>5</sup> Includes cattle, hogs, horses, ponies, goats, sheep, chickens, alpacas, llamas, turkeys, and pheasants.

<sup>6</sup> Certified organic data from 2007 Census of Agriculture provided by Dr. Jim Bingen, MSU CARRS, from a special request to NASS.

<sup>7</sup> Michigan Department of Agriculture Databases, 2009; see explanatory document for details.

<sup>8</sup> By MDA's definition, "food service establishments" includes all facilities selling food; licensed by local health departments. "Retail food establishments" includes only grocery, convenience stores, and other facilities selling food for at-home preparation and/or consumption; licensed by MDA.

<sup>9</sup> Calculated from county population and household income (American Community Survey, US Census Bureau 2007) and estimate of 12.1% of income spent on food in the Midwest region (Bureau of Labor Statistics, <http://www.bls.gov/cex/2007/share/region.pdf>)

<sup>10</sup> Food Bank Council of Michigan: [http://www.fbcmich.org/site/PageServer?pagename=findfood\\_counties](http://www.fbcmich.org/site/PageServer?pagename=findfood_counties)

<sup>11</sup> Michigan League for Human Services. Kids Count in Michigan Databook, 2007. <http://www.milhs.org/information/default.asp?NavPageID=50096>

<sup>12</sup> Calculated from American Community Survey 2008 population estimates (US Census Bureau), according to Ohio Department of Agriculture Animal Emergency Response Plan, 2007. Includes dogs, cats, birds, rabbits, rodents, and turtles.

<sup>13</sup> Michigan Farms & Farmers' Market 2009 Directory: <http://www.michiganfarmfun.com/> and Michigan Farmers Market Association: [www.farmersmarkets.msu.edu](http://www.farmersmarkets.msu.edu)

<sup>14</sup> Calculated using USDA Census of Agriculture Data, adapted from Timmons, Wang and Kent (2008). Local Foods: Estimating Capacity. Journal of Extension 46(5).

# East Central District

Area <sup>1</sup>	6,270 square miles (2,691,497 acres of land <sup>2</sup> )
Population <sup>3</sup>	460,128
Counties	Arenac, Bay, Huron, Saginaw, Sanilac, Tuscola
Watersheds	Saginaw, Au Gres, Black, Pigeon, Rifle, Sebawaing, Willow



## Regional rankings (out of 9):

- #1 in Michigan in **production of sugarbeets** (3,057,202 tons)
- #1 in Michigan in **acres of dry edible beans** (160,011)
- #1 in Michigan in **acres of cropland used for organic production** (19,714)
- #1 in Michigan in **acres of cucumbers** (14,711)
- #1 in Michigan in **number of fertilizer (113) and pesticide (56) manufacture/storage facilities**

## Agricultural Revenues<sup>2</sup>

	Amount	Rank (out of 9)
Total market value of agriculture production <sup>4</sup>	\$990,724,000	#3
Total crop sales	\$614,501,000	#2
Total livestock sales	\$376,223,000	#3

## Locally Important Products

Dry edible beans	160,011 acres	#1
Sugarbeets	3,057,202 tons	#1
Cucumbers	14,711 acres	#1
Wheat	189,827 acres	#1
Barley	2,965 acres	#2

## Key Michigan Products

Corn, soy, and wheat	1,044,246 acres (57.8% of cropland)	#2
Revenue from corn, soy, and wheat	\$380,637,000	#2
Vegetables	21,807 acres (1.2 % of cropland)	#5
Revenue from vegetables	\$25,315,000	#6
Fruit and tree nuts	915 acres (0.7% of cropland)	#7
Revenue from fruits, tree nuts and berries	\$921,000	#9
Dairy farms	381 farms (16.4% of all in MI)	#3
Revenue from milk and other dairy	\$219,087,000	#2
All animal operations	2,543 operations (297,844 animals <sup>5</sup> )	#5

## Agricultural Land<sup>2</sup>

Total number of farms	7,173	#4
Total farmland	1,806,046 acres (67.1% of total area)	#2
Forage/pasture/non-crop farmland	99,638 acres (5.5% of farmland)	#8
Number of farms using organic production	79 (67 certified organic farms <sup>6</sup> )	#5
Cropland in organic production	19,714 acres (includes non-certified acres)	#1
Cropland in transition to organic	2,754 acres	#1
Area of greenhouse/nursery operations	1,250,798 sq. ft.	#5

## East Central District Agricultural Chemicals<sup>7</sup>

## Michigan Food and Agricultural Systems Profiles

	Number	Percent of MI total	Rank (out of 9)
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Fertilizer manufacturers, distributors, and storage facilities	54	20.1%	#1
Pesticide storage facilities	33	22.2%	#1

## Processing and Warehousing<sup>7</sup>

Wholesale food processing plants	92	7.0%	#7
Food warehouses	54	5.2%	#6
Controlled atmosphere storage facilities	0	0.0%	
Dairy processing plants	0	0.0%	#9
Dairy warehouse, transfer, and truck cleaning facilities	3	10.3%	#5
Slaughter facilities (MDA licensed)	9	15.5%	#2
Meat processing plants (MDA licensed)	0	0.0%	
Rendering facilities	0	0.0%	
Commercial feed manufacturing facilities	27	6.6%	#6
Livestock auctions/buying stations	4	25.0%	#3
Ethanol plants	1 operational		

## Retailing and Distribution

Food service establishments (all) <sup>8</sup>	1,777	4.8%	#4
Retail food establishments	930	5.4%	#4
Total amount spent by consumers on food (estimate) <sup>9</sup>	\$919,400,000		
Emergency food distribution sites <sup>10</sup>	123	4.4%	
Pounds distributed	2,400,060	1.2%	
Students receiving free or reduced school lunch <sup>11</sup>	35,124		
Households receiving food stamp benefits	68,171		
Total federal funding for food stamp benefits	\$71,555,356		
Pet population (estimate) <sup>12</sup>	249,000		
Port(s) of entry	none		

## Local Distribution

Farmers' markets <sup>13</sup>	11		
U-pick farms /On-farm markets	12		
Farms using Community Supported Agriculture <sup>2</sup>	62		
Value of direct-to-consumer farm product sales	\$3,804,000		

Local food production index<sup>14</sup> 39

The local food production index describes both the quantity and diversity of agricultural production in a region. It is obtained by comparing region per capita production of major food crops with national per capita consumption of those crops. The highest possible index score of 100 indicates that sufficient quantities of all included crops are produced within the region to meet local demand. Michigan's statewide production index score is 30.

<sup>1</sup> U.S. Census Bureau State & County Quick Facts: <http://quickfacts.census.gov/qfd/states/26000.html>

<sup>2</sup> 2007 Census of Agriculture. National Agricultural Statistics Service. <http://www.nass.usda.gov/mi>

<sup>3</sup> Michigan Economic Development Corporation Economic Profiler: <http://ref.michigan.org/medc/MIInfo/Places/>

<sup>4</sup>The East Central Region received \$25,726,000 in federal commodity payments in 2007.

<sup>5</sup> Includes cattle, hogs, horses, ponies, goats, sheep, chickens, alpacas, llamas, turkeys, and pheasants.

<sup>6</sup> Certified organic data from 2007 Census of Agriculture provided by Dr. Jim Bingen, MSU CARRS, from a special request to NASS.

<sup>7</sup> Michigan Department of Agriculture Databases, 2009; see explanatory document for details.

<sup>8</sup> By MDA's definition, "food service establishments" includes all facilities selling food; licensed by local health departments. "Retail food establishments" includes only grocery, convenience stores, and other facilities selling food for at-home preparation and/or consumption; licensed by MDA.

<sup>9</sup> Calculated from county population and household income (American Community Survey, US Census Bureau 2007) and estimate of 12.1% of income spent on food in the Midwest region (Bureau of Labor Statistics, <http://www.bls.gov/cex/2007/share/region.pdf>)

<sup>10</sup> Food Bank Council of Michigan: [http://www.fbcmich.org/site/PageServer?pagename=findfood\\_counties](http://www.fbcmich.org/site/PageServer?pagename=findfood_counties)

<sup>11</sup> Michigan League for Human Services. Kids Count in Michigan Databook, 2007. <http://www.milhs.org/information/default.asp?NavPageID=50096>

<sup>12</sup> Calculated from American Community Survey 2008 population estimates (US Census Bureau), according to Ohio Department of Agriculture Animal Emergency Response Plan, 2007. Includes dogs, cats, birds, rabbits, rodents, and turtles.

<sup>13</sup> Michigan Farms & Farmers' Market 2009 Directory: <http://www.michiganfarmfun.com/> and Michigan Farmers Market Association: [www.farmersmarkets.msu.edu](http://www.farmersmarkets.msu.edu)

<sup>14</sup> Calculated using USDA Census of Agriculture Data, adapted from Timmons, Wang and Kent (2008). Local Foods: Estimating Capacity. Journal of Extension 46(5).

## Northeast District

Area <sup>1</sup>	9,969 square miles (4,118,685 acres of land <sup>2</sup> )
Population <sup>3</sup>	213,013
Counties	Alcona, Alpena, Cheboygan, Crawford, Iosco, Montmorency, Ogemaw, Oscoda, Otsego, Presque Isle, Roscommon
Watersheds	Muskegon, Au Gres, Au Sable, Cheboygan, Manistee, Oqueoc, Saginaw, Thunder Bay



### Regional rankings (out of 9):

#1 in Michigan in acres of oats (9,142)

### Agricultural Revenues<sup>2</sup>

	Amount	Rank (out of 9)
Total market value of agriculture production <sup>4</sup>	\$113,390,000	#8
Total crop sales	\$77,505,000	#9
Total livestock sales	\$71,343,000	#8

### Locally Important Products

Oats	9,142 acres	#1
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### Key Michigan Products

Corn, soy, and wheat	62,371 acres (15.1% of cropland)	#7
Revenue from corn, soy, and wheat	\$11,803,000	#7
Vegetables	2,426 acres (0.6 % of cropland)	#9
Revenue from vegetables	\$4,941,000	#8
Fruit and tree nuts	602 acres (0.4% of cropland)	#8
Revenue from fruits, tree nuts and berries	\$1,180,000	#7
Dairy farms	162 farms (16.4% of all in MI)	#6
Revenue from milk and other dairy	\$56,688,000	#8
All animal operations	1,523 operations (85,296 animals <sup>5</sup> )	#8

### Agricultural Land<sup>2</sup>

Total number of farms	2,678	#8
Total farmland	411,915 acres (10.0% of total area)	#9, #8 by percent
Forage/pasture/non-crop farmland	121,414 acres (29.5% of farmland)	#3
Number of farms using organic production	22 (6 certified organic farms <sup>6</sup> )	#9
Cropland in organic production	not available	#9
Cropland in transition to organic	482 acres	#8
Area of greenhouse/nursery operations	248,010 sq. ft.	#5

## Northeast District Agricultural Chemicals<sup>7</sup>

## Michigan Food and Agricultural Systems Profiles

	Number	Percent of MI total	Rank (out of 9)
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Fertilizer manufacturers, distributors, and storage facilities	12	4.5%	#8
Pesticide storage facilities	2	1.3%	#8

## Processing and Warehousing<sup>7</sup>

Wholesale food processing plants	84	6.3%	#9
Food warehouses	43	4.1%	#7
Controlled atmosphere storage facilities	0	0.0%	
Dairy processing plants	1	1.4%	#7
Dairy warehouse, transfer, and truck cleaning facilities	5	17.2%	#3
Slaughter facilities	6	10.3%	#5
Meat processing plants	0	0.0%	
Rendering facilities	0	0.0%	
Commercial feed manufacturing facilities	20	4.9%	#7
Livestock auctions/buying stations	1	6.3%	#6
Ethanol plants	none		

## Retailing and Distribution

Food service establishments (all) <sup>8</sup>	930	2.5%	#9
Retail food establishments	492	3.4%	#8
Total amount spent by consumers on food (estimate) <sup>9</sup>	\$393,000,000		
Emergency food distribution sites <sup>10</sup>	59	2.1%	
Pounds distributed	1,782,648	0.9%	
Students receiving free or reduced school lunch <sup>11</sup>	15,107		
Households receiving food stamp benefits	29,508		
Total federal funding for food stamp benefits	\$30,139,897		
Pet population (estimate) <sup>12</sup>	123,000		
Port(s) of entry	none		

## Local Distribution

Farmers' markets <sup>13</sup>	11		
U-pick farms /On-farm markets	4		
Farms using Community Supported Agriculture <sup>3</sup>	13		
Value of direct-to-consumer farm product sales	\$1,011,000		
Local food production index <sup>14</sup>	26		

The local food production index describes both the quantity and diversity of agricultural production in a region. It is obtained by comparing region per capita production of major food crops with national per capita consumption of those crops. The highest possible index score of 100 indicates that sufficient quantities of all included crops are produced within the region to meet local demand. Michigan's statewide production index score is 30.

<sup>1</sup> U.S. Census Bureau State & County Quick Facts: <http://quickfacts.census.gov/qfd/states/26000.html>

<sup>2</sup> 2007 Census of Agriculture. National Agricultural Statistics Service. <http://www.nass.usda.gov/mi>

<sup>3</sup> Michigan Economic Development Corporation Economic Profiler: <http://ref.michigan.org/medc/MIInfo/Places/>

<sup>4</sup>The Northeast Region received \$1,835,000 in federal commodity payments in 2007.

<sup>5</sup> Includes cattle, hogs, horses, ponies, goats, sheep, chickens, alpacas, llamas, turkeys, and pheasants.

<sup>6</sup> Certified organic data from 2007 Census of Agriculture provided by Dr. Jim Bingen, MSU CARRS, from a special request to NASS.

<sup>7</sup> Michigan Department of Agriculture Databases, 2009; see explanatory document for details.

<sup>8</sup> By MDA's definition, "food service establishments" includes all facilities selling food; licensed by local health departments. "Retail food establishments" includes only grocery, convenience stores, and other facilities selling food for at-home preparation and/or consumption; licensed by MDA.

<sup>9</sup> Calculated from county population and household income (American Community Survey, US Census Bureau 2007) and estimate of 12.1% of income spent on food in the Midwest region (Bureau of Labor Statistics, <http://www.bls.gov/cex/2007/share/region.pdf>)

<sup>10</sup> Food Bank Council of Michigan: [http://www.fbcmich.org/site/PageServer?pagename=findfood\\_counties](http://www.fbcmich.org/site/PageServer?pagename=findfood_counties)

<sup>11</sup> Michigan League for Human Services. Kids Count in Michigan Databook, 2007. <http://www.milhs.org/information/default.asp?NavPageID=50096>

<sup>12</sup> Calculated from American Community Survey 2008 population estimates (US Census Bureau), according to Ohio Department of Agriculture Animal Emergency Response Plan, 2007. Includes dogs, cats, birds, rabbits, rodents, and turtles.

<sup>13</sup> Michigan Farms & Farmers' Market 2009 Directory: <http://www.michiganfarmfun.com/> and the Michigan Farmers Market Association [www.farmersmarkets.msu.edu](http://www.farmersmarkets.msu.edu)

<sup>14</sup> Calculated using USDA Census of Agriculture Data, adapted from Timmons, Wang and Kent (2008). Local Foods: Estimating Capacity. Journal of Extension 46(5).

## Northwest District

Area <sup>1</sup>	9,200 square miles (2,664,193 acres of land <sup>2</sup> )
Population <sup>3</sup>	297,519
Counties	Antrim, Benzie, Charlevoix, Emmet, Grand Traverse, Kalkaska, Leelanau, Manistee, Missaukee, Wexford
Watersheds	Manistee, Muskegon, Betsie, Boardman, Elk, Platte, Cheboygan, Pine



### Regional rankings (out of 9):

- #1 in Michigan in acres of sweet cherries (7,785) and tart cherries (21,889)
- #1 in Michigan in acres of Christmas trees (16,293)
- #2 in Michigan in revenue from fruit and tree nuts (\$59,294,000)
- #2 in Michigan in acres of grapes (919)
- #3 in Michigan in acres of apples (5,251 acres)

### Agricultural Revenues<sup>2</sup>

	Amount	Rank (out of 9)
Total market value of agriculture production <sup>4</sup>	\$193,740,000	#7
Total crop sales	\$104,745,000	#7
Total livestock sales	\$88,994,000	#7

### Locally Important Products

Tart cherries	21,899 acres	#1
Sweet cherries	7,785 acres	#1
Christmas trees	16,293 acres	#1
Grapes	919 acres	#2
Apples	5,251 acres	#3

### Key Michigan Products

Corn, soy, and wheat	52,329 acres (10.8% of cropland)	#8
Revenue from corn, soy, and wheat	\$5,638,000	#8
Vegetables	5,548 acres (1.2% of cropland)	#7
Revenue from vegetables	\$6,479,000	#7
Fruit and tree nuts	37,632 acres (26.8% of cropland)	#2
Revenue from fruits, tree nuts and berries	\$59,294,000	#2
Dairy farms	134 farms (5.8% of all in MI)	#7
Revenue from milk and other dairy	\$60,124,000	#7
All animal operations	1,741 operations (88,926 animals <sup>5</sup> )	#6

### Agricultural Land<sup>2</sup>

Total number of farms	3,555	#6
Total farmland	484,278 acres (17.3% of total area)	#7
Forage/pasture/non-crop farmland	104,874 acres (21.7% of farmland)	#7
Number of farms using organic production	80 (30 certified organic farms <sup>6</sup> )	#4
Cropland in organic production	761 acres (includes non-certified acres)	#7
Cropland in transition to organic	523 acres	#7
Area of greenhouse/nursery operations	420,266 sq. ft.	#6

## Northwest District Agricultural Chemicals<sup>7</sup>

## Michigan Food and Agricultural Systems Profiles

	Number	Percent of MI total	Rank (out of 9)
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Fertilizer manufacturers, distributors, and storage facilities	9	3.4%	#6
Pesticide storage facilities	6	4.0%	#6

## Processing and Warehousing<sup>7</sup>

Wholesale food processing plants	216	16.3%	#3
Food warehouses	75	7.2%	#5
Controlled atmosphere storage facilities	2	3.0%	#4
Dairy processing plants	5	7.0%	#5
Dairy warehouse, transfer, and truck cleaning facilities	1	3.5%	#7
Slaughter facilities	4	6.9%	#7
Meat processing plants	0	0.0%	
Rendering facilities	0	0.0%	
Commercial feed manufacturing facilities	34	8.3%	#4
Livestock auctions/buying stations	0	0.0%	
Ethanol plants <sup>8</sup>	none		

## Retailing and Distribution

Food service establishments (all) <sup>9</sup>	1,655	4.5%	#6
Retail food establishments	669	4.6%	#5
Total amount spent by consumers on food (estimate) <sup>10</sup>	\$654,600,000		
Emergency food distribution sites <sup>11</sup>	114	4.1%	
Pounds distributed	2,088,966	1.0%	
Students receiving free or reduced school lunch <sup>12</sup>	17,862		
Households receiving food stamp benefits	28,237		
Total federal funding for food stamp benefits	\$27,737,188		
Pet population (estimate) <sup>13</sup>	165,000		
Port(s) of entry	none		

## Local Distribution

Farmers' markets <sup>14</sup>	20		
U-pick farms /On-farm markets	22		
Farms using Community Supported Agriculture <sup>2</sup>	73		
Value of direct-to-consumer farm product sales	\$4,421,000		
Local food production index <sup>15</sup>	24		

The local food production index describes both the quantity and diversity of agricultural production in a region. It is obtained by comparing region per capita production of major food crops with national per capita consumption of those crops. The highest possible index score of 100 indicates that sufficient quantities of all included crops are produced within the region to meet local demand. Michigan's statewide production index score is 30.

<sup>1</sup> U.S. Census Bureau State & County Quick Facts: <http://quickfacts.census.gov/qfd/states/26000.html>

<sup>2</sup> 2007 Census of Agriculture. National Agricultural Statistics Service. <http://www.nass.usda.gov/mi>

<sup>3</sup> Michigan Economic Development Corporation Economic Profiler: <http://ref.michigan.org/medc/MIInfo/Places/>

<sup>4</sup>The Northwest Region received \$2,115,000 in federal commodity payments in 2007.

<sup>5</sup> Includes cattle, hogs, horses, ponies, goats, sheep, chickens, alpacas, llamas, turkeys, and pheasants.

<sup>6</sup> Certified organic data from 2007 Census of Agriculture provided by Dr. Jim Bingen, MSU CARRS, from a special request to NASS.

<sup>7</sup> Michigan Department of Agriculture Databases, 2009; see explanatory document for details.

<sup>8</sup> MDA: [http://www.michigan.gov/documents/mda/EthanolMap\\_186352\\_7.pdf](http://www.michigan.gov/documents/mda/EthanolMap_186352_7.pdf)

<sup>9</sup> By MDA's definition, "food service establishments" includes all facilities selling food; licensed by local health departments. "Retail food establishments" includes only grocery, convenience stores, and other facilities selling food for at-home preparation and/or consumption; licensed by MDA.

<sup>10</sup> Calculated from county population and household income (American Community Survey, US Census Bureau 2007) and estimate of 12.1% of income spent on food in the Midwest region (Bureau of Labor Statistics, <http://www.bls.gov/cex/2007/share/region.pdf>)

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<sup>12</sup> Michigan League for Human Services. Kids Count in Michigan Databook, 2007. <http://www.milhs.org/information/default.asp?NavPageID=50096>

<sup>13</sup> Calculated from American Community Survey 2008 population estimates (US Census Bureau), according to Ohio Department of Agriculture Animal Emergency Response Plan, 2007. Includes dogs, cats, birds, rabbits, rodents, and turtles.

<sup>14</sup> Michigan Farms & Farmers' Market 2009 Directory: <http://www.michiganfarmfun.com/> and the Michigan Farmers Market Association: [www.farmersmarkets.msu.edu](http://www.farmersmarkets.msu.edu)

<sup>15</sup> Calculated using USDA Census of Agriculture Data, adapted from Timmons, Wang and Kent (2008). Local Foods: Estimating Capacity. Journal of Extension 46(5).

## South Central District

Area <sup>1</sup>	6,525 square miles (4,073,590 acres of land <sup>2</sup> )
Population <sup>3</sup>	1,106,479
Counties	Barry, Branch, Calhoun, Clinton, Eaton, Hillsdale, Ingham, Ionia, Jackson, Shiawassee, Saint Joseph
Watersheds	St. Joseph, Saginaw, Grand, Huron, Maumee, Kalamazoo



### Regional rankings (out of 9):

- #1 in Michigan in **number of farms** (13,036) and **total farmland** (2,458,912 acres)
- #1 in Michigan in **number of animal operations** (6,182)
- #1 in Michigan in **acres of corn, soy, and wheat** (1,535,693)
- #1 in Michigan in **number of livestock auctions** (6)
- #2 in Michigan in **acres of potatoes** (5,406) and **snap beans** (4,626)

### Agricultural Revenues<sup>2</sup>

	Amount	Rank (out of 9)
Total market value of agriculture production <sup>4</sup>	\$1,223,041,000	#2
Total crop sales	\$579,044,000	#3
Total livestock sales	\$584,748,000	#2

### Locally Important Products

Hogs and pigs	641 operations	#1
Revenue from hogs and pigs	\$60,871,000	#2
Poultry and eggs	1,322 operations	#1
Revenue from poultry and eggs	\$6,702,000	#2
Potatoes	5,408 acres	#2
Snap beans	4,626 acres	#2

### Key Michigan Products

Corn, soy, and wheat	1,535,693 acres (62.5% of cropland)	#1
Revenue from corn, soy, and wheat	\$515,677,000	#1
Vegetables	19,439 acres (0.8% of cropland)	#6
Revenue from vegetables	\$27,974,000	#5
Fruit and tree nuts	2,913 acres (2.1% of cropland)	#5
Revenue from fruits, tree nuts and berries	\$6,961,000	#5
Dairy farms	543 farms (23.4% of all in MI)	#1
Revenue from milk and other dairy	\$338,630,000	#1
All animal operations	6,182 operations (839,803 animals <sup>5</sup> )	#1

### Agricultural Land<sup>2</sup>

Total number of farms	13,036	#1
Total farmland	2,458,912 acres (60.4% of total area)	#1
Forage/pasture/non-crop farmland	187,097 acres (7.6% of farmland)	#1
Number of farms using organic production	118 (50 certified organic farms <sup>6</sup> )	#2
Cropland in organic production	4,729 acres (includes non-certified acres)	#3
Cropland in transition to organic	2,522 acres	#2
Area of greenhouse/nursery operations	1,827,574 sq. ft.	#3

## South Central District Agricultural Chemicals<sup>7</sup>

## Michigan Food and Agricultural Systems Profiles

	Number	Percent of MI total	Rank (out of 9)
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Fertilizer manufacturers, distributors, and storage facilities	51	19.1%	#2
Pesticide storage facilities	27	18.1%	#2

## Processing and Warehousing<sup>7</sup>

Wholesale food processing plants	201	15.2%	#4
Food warehouses	121	11.6%	#3
Controlled atmosphere storage facilities	4	6.1%	#4
Dairy processing plants	10	14.1%	#3
Dairy warehouse, transfer, and truck cleaning facilities	7	24.1%	#1
Slaughter facilities (MDA licensed)	9	15.5%	#2
Meat processing plants (MDA licensed)	3	8.8%	#3
Rendering facilities	1	33.3%	#2
Commercial feed manufacturing facilities	66	16.1%	#3
Livestock auctions/buying stations	4	25.0%	#1
Ethanol plants	2 operational		

## Retailing and Distribution

Food service establishments (all) <sup>8</sup>	4,059	11.0%	#3
Retail food establishments	1,534	10.5%	#3
Total amount spent by consumers on food (estimate) <sup>9</sup>	\$2,423,700,000		
Emergency food distribution sites <sup>10</sup>	438	15.7%	
Pounds distributed	7,485,355	3.7%	
Students receiving free or reduced school lunch <sup>11</sup>	68,694		
Households receiving food stamp benefits	124,546		
Total federal funding for food stamp benefits	\$130,644,796		
Pet population (estimate) <sup>12</sup>	595,600		
Port(s) of entry	2		

## Local Distribution

Farmers' markets <sup>13</sup>	29
U-pick farms /On-farm markets	24
Farms using Community Supported Agriculture <sup>2</sup>	75
Value of direct-to-consumer farm product sales	\$6,423,000

Local food production index<sup>14</sup> 30

The local food production index describes both the quantity and diversity of agricultural production in a region. It is obtained by comparing region per capita production of major food crops with national per capita consumption of those crops. The highest possible index score of 100 indicates that sufficient quantities of all included crops are produced within the region to meet local demand. Michigan's statewide production index score is 30.

<sup>1</sup> U.S. Census Bureau State & County Quick Facts: <http://quickfacts.census.gov/qfd/states/26000.html>

<sup>2</sup> 2007 Census of Agriculture. National Agricultural Statistics Service. <http://www.nass.usda.gov/mi>

<sup>3</sup> Michigan Economic Development Corporation Economic Profiler: <http://ref.michigan.org/medc/MIInfo/Places/>

<sup>4</sup> The South Central Region received \$35,054,000 in federal commodity payments in 2007.

<sup>5</sup> Includes cattle, hogs, horses, ponies, goats, sheep, chickens, alpacas, llamas, turkeys, and pheasants.

<sup>6</sup> Certified organic data from 2007 Census of Agriculture provided by Dr. Jim Bingen, MSU CARRS, from a special request to NASS.

<sup>7</sup> Michigan Department of Agriculture Databases, 2009; see explanatory document for details.

<sup>8</sup> By MDA's definition, "food service establishments" includes all facilities selling food; licensed by local health departments. "Retail food establishments" includes only grocery, convenience stores, and other facilities selling food for at-home preparation and/or consumption; licensed by MDA.

<sup>9</sup> Calculated from county population and household income (American Community Survey, US Census Bureau 2007) and estimate of 12.1% of income spent on food in the Midwest region (Bureau of Labor Statistics, <http://www.bls.gov/cex/2007/share/region.pdf>)

<sup>10</sup> Food Bank Council of Michigan: [http://www.fbcmich.org/site/PageServer?pagename=findfood\\_counties](http://www.fbcmich.org/site/PageServer?pagename=findfood_counties)

<sup>11</sup> Michigan League for Human Services. Kids Count in Michigan Databook, 2007. <http://www.milhs.org/information/default.asp?NavPageID=50096>

<sup>12</sup> Calculated from American Community Survey 2008 population estimates (US Census Bureau), according to Ohio Department of Agriculture Animal Emergency Response Plan, 2007. Includes dogs, cats, birds, rabbits, rodents, and turtles.

<sup>13</sup> Michigan Farms & Farmers' Market 2009 Directory: <http://www.michiganfarmfun.com/> and the Michigan Farmers Market Association: [www.farmersmarkets.msu.edu](http://www.farmersmarkets.msu.edu)

<sup>14</sup> Calculated using USDA Census of Agriculture Data, adapted from Timmons, Wang and Kent (2008). Local Foods: Estimating Capacity. Journal of Extension 46(5).

## Southeast District

Area <sup>1</sup>	7,048 square miles (4,178,705 acres of land <sup>2</sup> )
Population <sup>3</sup>	5,192,161
Counties	Genesee, Lapeer, Lenawee, Livingston, Macomb, Monroe, Oakland, St. Clair, Washtenaw, Wayne
Watersheds	Huron, Raisin, Stony Creek, Rouge, Clinton, Pine, Belle, Black, Saginaw, Manistee



### Regional rankings (out of 9):

- #1 in Michigan in number of whole food (439), dairy (27), and meat (23) processing plants
- #1 in Michigan in number of retail food (7,639) and food service (18,564) establishments
- #1 in Michigan in number of farms using organic methods (135; 37 certified)
- #1 in Michigan in acres of tomatoes (1,969)
- #2 in Michigan in value of direct-to-consumer sales (\$14,407,000)

### Agricultural Revenues<sup>2</sup>

	Amount	Rank (out of 9)
Total market value of agriculture production <sup>4</sup>	\$684,899,000	#4
Total crop sales	\$537,791,000	#4
Total livestock sales	\$147,109,000	#5

### Locally Important Products

Tomatoes	1,969 acres	#1
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### Key Michigan Products

Corn, soy, and wheat	870,286 acres (62.3% of cropland)	#3
Revenue from corn, soy, and wheat	\$297,386,000	#3
Vegetables	23,735 acres (1.7% of cropland)	#4
Revenue from vegetables	\$55,140,000	#2
Fruit and tree nuts	4,227 acres (3.0% of cropland)	#2
Revenue from fruits, tree nuts and berries	\$11,789,000	#4
Dairy farms	167 farms (7.2% of all in MI)	#5
Revenue from milk and other dairy	\$82,733,000	#6
All animal operations	3,956 operations (237,751 animals <sup>5</sup> )	#2

### Agricultural Land<sup>2</sup>

Total number of farms	9,653	#2
Total farmland	1,397,751 acres (33.5% of total area)	#5
Forage/pasture/non-crop farmland	114,974 acres (8.2% of farmland)	#3
Number of farms using organic production	135 (37 certified organic farms <sup>6</sup> )	#1
Cropland in organic production	5,688 acres (includes non-certified acres)	#2
Cropland in transition to organic	697 acres	#6
Area of greenhouse/nursery operations	13,090,312 sq. ft.	#2

## Southeast District Agricultural Chemicals<sup>7</sup>

## Michigan Food and Agricultural Systems Profiles

	Number	Percent of MI total	Rank (out of 9)
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Fertilizer manufacturers, distributors, and storage facilities	54	20.2%	#1
Pesticide storage facilities	30	20.1%	#2

## Processing and Warehousing<sup>7</sup>

Wholesale food processing plants	439	33.2%	#1
Food warehouses	404	38.7%	#1
Controlled atmosphere storage facilities	1	1.5%	#5
Dairy processing plants	27	38.0%	#1
Dairy warehouse, transfer, and truck cleaning facilities	6	20.1%	#2
Slaughter facilities	11	19.0%	#1
Meat processing plants	23	67.7%	#1
Rendering facilities	0	0.0%	
Commercial feed manufacturing facilities	113	27.6%	#1
Livestock auctions/buying stations	2	12.5%	#4
Ethanol plants	2 operational		

## Retailing and Distribution

Food service establishments (all) <sup>8</sup>	18,564	50.3%	#1
Retail food establishments	7,639	52.1%	#1
Total amount spent by consumers on food (estimate) <sup>9</sup>	\$13,612,500,000		
Emergency food distribution sites <sup>10</sup>	867	31.1%	
Pounds distributed	168,180,495	83.7%	
Students receiving free or reduced school lunch <sup>11</sup>	338,657		
Households receiving food stamp benefits	642,308		
Total federal funding for food stamp benefits	\$690,363,949		
Pet population (estimate) <sup>12</sup>	2,921,000		
Port(s) of entry	6		

## Local Distribution

Farmers' markets <sup>13</sup>	49		
U-pick farms /On-farm markets	47		
Farms using Community Supported Agriculture <sup>3</sup>	83		
Value of direct-to-consumer farm product sales	\$14,407,000		

## Local food production index<sup>14</sup>

The local food production index describes both the quantity and diversity of agricultural production in a region. It is obtained by comparing region per capita production of major food crops with national per capita consumption of those crops. The highest possible index score of 100 indicates that sufficient quantities of all included crops are produced within the region to meet local demand. Michigan's statewide production index score is 30.

<sup>1</sup> U.S. Census Bureau State & County Quick Facts: <http://quickfacts.census.gov/qfd/states/26000.html>

<sup>2</sup> 2007 Census of Agriculture. National Agricultural Statistics Service. <http://www.nass.usda.gov/mi>

<sup>3</sup> Michigan Economic Development Corporation Economic Profiler: <http://ref.michigan.org/medc/MIInfo/Places/>

<sup>4</sup> The Southeast Region received \$21,134,000 in federal commodity payments in 2007.

<sup>5</sup> Includes cattle, hogs, horses, ponies, goats, sheep, chickens, alpacas, llamas, turkeys, and pheasants.

<sup>6</sup> Certified organic data from 2007 Census of Agriculture provided by Dr. Jim Bingen, MSU CARRS, from a special request to NASS.

<sup>7</sup> Michigan Department of Agriculture Databases, 2009; see explanatory document for details.

<sup>8</sup> By MDA's definition, "food service establishments" includes all facilities selling food; licensed by local health departments. "Retail food establishments" includes only grocery, convenience stores, and other facilities selling food for at-home preparation and/or consumption; licensed by MDA.

<sup>9</sup> Calculated from county population and household income (American Community Survey, US Census Bureau 2007) and estimate of 12.1% of income spent on food in the Midwest region (Bureau of Labor Statistics, <http://www.bls.gov/cex/2007/share/region.pdf>)

<sup>10</sup> Food Bank Council of Michigan: [http://www.fbcmich.org/site/PageServer?pagename=findfood\\_counties](http://www.fbcmich.org/site/PageServer?pagename=findfood_counties)

<sup>11</sup> Michigan League for Human Services. Kids Count in Michigan Databook, 2007. <http://www.milhs.org/information/default.asp?NavPageID=50096>

<sup>12</sup> Calculated from American Community Survey 2008 population estimates (US Census Bureau), according to Ohio Department of Agriculture Animal Emergency Response Plan, 2007. Includes dogs, cats, birds, rabbits, rodents, and turtles.

<sup>13</sup> Michigan Farms & Farmers' Market 2009 Directory: <http://www.michiganfarmfun.com/> and Michigan Farmers Market Association: [www.farmersmarkets.msu.edu](http://www.farmersmarkets.msu.edu)

<sup>14</sup> Calculated using USDA Census of Agriculture Data, adapted from Timmons, Wang and Kent (2008). Local Foods: Estimating Capacity. Journal of Extension 46(5).

## Southwest District

Area <sup>1</sup>	6,075 square miles (2,852,876 acres of land <sup>2</sup> )
Population <sup>3</sup>	1,509,701
Counties	Allegan, Berrien, Cass, Kalamazoo, Kent, Ottawa, Van Buren
Watersheds	St. Joseph, Kalamazoo, Grand, Black, Macatawa



### Regional rankings (out of 9):

- #1 in Michigan in acres of fruit and tree nuts (66,504) and vegetables (37,349)
- #1 in Michigan in number of controlled atmosphere storage facilities (49)
- #1 in Michigan in total market value of agricultural production (\$1,573,891,000)
- #1 in Michigan in value of direct-to-consumer sales (\$21,484,000)
- #1 in Michigan in area of greenhouse/nursery operations (32,306,234 sq. ft.)

### Agricultural Revenues<sup>2</sup>

	Amount	Rank (out of 9)
Total market value of agriculture production <sup>4</sup>	\$1,573,891,000	#1
Total crop sales	\$970,122,000	#1
Total livestock sales	\$833,768,000	#1

### Locally Important Products

Apples	23,549 acres	#1
Blueberries	19,552 acres	#1
Grapes	13,500 acres	#1
Snap beans	5,478 acres	#1
Hogs and pigs	427 operations	#2
Revenue from hogs and pigs	\$179,031,000	#1
Cherries (sweet and tart)	4,512 acres	#3

### Key Michigan Products

Corn, soy, and wheat	691,063 acres (52.9% of cropland)	#4
Revenue from corn, soy, and wheat	\$227,640,000	#4
Vegetables	37,349 acres (2.9% of cropland)	#1
Revenue from vegetables	\$102,847,000	#1
Fruit and tree nuts	66,504 acres (3.0% of cropland)	#1
Revenue from fruits, tree nuts and berries	\$254,367,000	#1
Dairy farms	263 farms (11.3% of all in MI)	#4
Revenue from milk and other dairy	\$201,482,000	#3
All animal operations	3,652 operations (6,949,094 animals <sup>5</sup> )	#3

### Agricultural Land<sup>2</sup>

Total number of farms	8,436	#3
Total farmland	1,305,338 acres (45.8% of total area)	#4
Forage/pasture/non-crop farmland	114,149 acres (8.7% of farmland)	#4
Number of farms using organic production	99 (29 certified organic farms <sup>6</sup> )	#3
Cropland in organic production	2,271 acres (includes non-certified acres)	#5
Cropland in transition to organic	880 acres	#5
Area of greenhouse/nursery operations	32,306,234 sq. ft.	#1

## Southwest District Agricultural Chemicals<sup>7</sup>

## Michigan Food and Agricultural Systems Profiles

	Number	Percent of MI total	Rank (out of 9)
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Fertilizer manufacturers, distributors, and storage facilities	42	15.7%	#4
Pesticide storage facilities	26	17.5%	#4

## Processing and Warehousing<sup>7</sup>

Wholesale food processing plants	288	21.8%	#2
Food warehouses	204	19.6%	#2
Controlled atmosphere storage facilities	49	74.24%	#1
Dairy processing plants	15	21.3%	#2
Dairy warehouse, transfer, and truck cleaning facilities	1	3.5%	#7
Slaughter facilities (MDA licensed)	9	15.5%	#2
Meat processing plants (MDA licensed)	4	11.8%	#2
Rendering facilities	0	0.0%	
Commercial feed manufacturing facilities	86	21.0%	#2
Livestock auctions/buying stations	4	16.7%	#3
Ethanol plants	none		

## Retailing and Distribution

Food service establishments (all) <sup>8</sup>	5,613	15.2%	#2
Retail food establishments	1,874	12.8%	#2
Total amount spent by consumers on food (estimate) <sup>9</sup>	\$3,383,200,000		
Emergency food distribution sites <sup>10</sup>	758	27.2%	
Pounds distributed	11,750,396	5.9%	
Students receiving free or reduced school lunch <sup>11</sup>	98,717		
Households receiving food stamp benefits	158,383		
Total federal funding for food stamp benefits	\$163,451,646		
Pet population (estimate) <sup>12</sup>	797,000		
Port(s) of entry	2		

## Local Distribution

Farmers' markets <sup>13</sup>	33		
U-pick farms /On-farm markets	69		
Farms using Community Supported Agriculture <sup>2</sup>	72		
Value of direct-to-consumer farm product sales	\$21,484,000		

Local food production index <sup>14</sup>	43
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The local food production index describes both the quantity and diversity of agricultural production in a region. It is obtained by comparing region per capita production of major food crops with national per capita consumption of those crops. The highest possible index score of 100 indicates that sufficient quantities of all included crops are produced within the region to meet local demand. Michigan's statewide production index score is 30.

<sup>1</sup> U.S. Census Bureau State & County Quick Facts: <http://quickfacts.census.gov/qfd/states/26000.html>

<sup>2</sup> 2007 Census of Agriculture. National Agricultural Statistics Service. <http://www.nass.usda.gov/mi>

<sup>3</sup> Michigan Economic Development Corporation Economic Profiler: <http://ref.michigan.org/medc/MIInfo/Places/>

<sup>4</sup> The Southwest Region received \$14,770,000 in federal commodity payments in 2007.

<sup>5</sup> Includes cattle, hogs, horses, ponies, goats, sheep, chickens, alpacas, llamas, turkeys, and pheasants.

<sup>6</sup> Certified organic data from 2007 Census of Agriculture provided by Dr. Jim Bingen, MSU CARRS, from a special request to NASS.

<sup>7</sup> Michigan Department of Agriculture Databases, 2009; see explanatory document for details.

<sup>8</sup> By MDA's definition, "food service establishments" includes all facilities selling food; licensed by local health departments. "Retail food establishments" includes only grocery, convenience stores, and other facilities selling food for at-home preparation and/or consumption; licensed by MDA.

<sup>9</sup> Calculated from county population and household income (American Community Survey, US Census Bureau 2007) and estimate of 12.1% of income spent on food in the Midwest region (Bureau of Labor Statistics, <http://www.bls.gov/cex/2007/share/region.pdf>)

<sup>10</sup> Food Bank Council of Michigan: [http://www.fbcmich.org/site/PageServer?pagename=findfood\\_counties](http://www.fbcmich.org/site/PageServer?pagename=findfood_counties)

<sup>11</sup> Michigan League for Human Services. Kids Count in Michigan Databook, 2007. <http://www.milhs.org/information/default.asp?NavPageID=50096>

<sup>12</sup> Calculated from American Community Survey 2008 population estimates (US Census Bureau), according to Ohio Department of Agriculture Animal Emergency Response Plan, 2007. Includes dogs, cats, birds, rabbits, rodents, and turtles.

<sup>13</sup> Michigan Farms & Farmers' Market 2009 Directory: <http://www.michiganfarmfun.com/> and the Michigan Farmers Market Association: [www.farmersmarkets.msu.edu](http://www.farmersmarkets.msu.edu)

<sup>14</sup> Calculated using USDA Census of Agriculture Data, adapted from Timmons, Wang and Kent (2008). Local Foods: Estimating Capacity. Journal of Extension 46(5).

# Upper Peninsula District

Area <sup>1</sup>	26,733 square miles (10,480,604 acres of land <sup>2</sup> )
Population <sup>3</sup>	309,737
Counties	Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic, Houghton, Iron, Keweenaw, Luce, Mackinac, Marquette, Menominee, Ontonagon, Schoolcraft



## Regional rankings (out of 9):

- #1 in Michigan in acres of barley (5,351)
- #3 in Michigan in acres of oats (8,541)
- #3 in Michigan in number of forage/pasture/non-crop agricultural land (158,944 acres)

## Agricultural Revenues<sup>2</sup>

	Amount	Rank (out of 9)
Total market value of agriculture production <sup>4</sup>	\$83,352,000	#9
Total crop sales	\$23,122,000	#9
Total livestock sales	\$60,231,000	#9

## Locally Important Products

Barley	5,351 acres	#1
Oats	8,541 acres	#3

## Key Michigan Products

Corn, soy, and wheat	25,017 acres (4.9% of cropland)	#9
Revenue from corn, soy, and wheat	\$1,963,000	#9
Vegetables	2,433 acres (0.5% of cropland)	#8
Revenue from vegetables	\$4,664,000	#9
Fruit and tree nuts	574 acres (0.4% of cropland)	#9
Revenue from fruits, tree nuts and berries	\$1,033,000	#8
Dairy farms	114 farms (4.9% of all in MI)	#9
Revenue from milk and other dairy	\$42,433,000	#9
All animal operations	1,301 operations (73,912 animals <sup>5</sup> )	#9

## Agricultural Land<sup>2</sup>

Total number of farms	2,185	#9
Total farmland	515,672 acres (4.9% of total area)	#9
Forage/pasture/non-crop farmland	158,944 acres (30.8% of farmland)	#3
Number of farms using organic production	28 (3 certified organic farms <sup>6</sup> )	#8
Cropland in organic production	157 acres (includes non-certified acres)	#8
Cropland in transition to organic	350 acres	#9
Area of greenhouse/nursery operations	166,856 sq. ft.	#9

## Upper Peninsula District Agricultural Chemicals<sup>7</sup>

## Michigan Food and Agricultural Systems Profiles

	Number	Percent of MI total	Rank (out of 9)
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Fertilizer manufacturers, distributors, and storage facilities	6	2.3%	#9
Pesticide storage facilities	2	1.3%	#8

## Processing and Warehousing<sup>7</sup>

Wholesale food processing plants	105	7.9%	#6
Food warehouses	78	7.5%	#4
Controlled atmosphere storage facilities	0	0.0%	
Dairy processing plants	1	1.4%	#7
Dairy warehouse, transfer, and truck cleaning facilities	4	13.8%	#4
Slaughter facilities (MDA licensed)	5	8.6%	#6
Meat processing plants (MDA licensed)	3	8.8%	#3
Rendering facilities	0	0.0%	
Commercial feed manufacturing facilities	17	4.2%	#8
Livestock auctions/buying stations	0	0.0%	
Ethanol plants	none		

## Retailing and Distribution

Food service establishments (all) <sup>8</sup>	1,666	4.5%	#5
Retail food establishments	616	4.2%	#6
Total amount spent by consumers on food (estimate) <sup>9</sup>	\$632,200,000		
Emergency food distribution sites <sup>10</sup>	207	7.4%	
Pounds distributed	1,817,592	0.9%	
Students receiving free or reduced school lunch <sup>11</sup>	16,042		
Households receiving food stamp benefits	30,308		
Total federal funding for food stamp benefits	\$29,447,235		
Pet population (estimate) <sup>12</sup>	181,000		
Port(s) of entry	1		

## Local Distribution

Farmers' markets <sup>13</sup>	11		
U-pick farms /On-farm markets	0		
Farms using Community Supported Agriculture <sup>3</sup>	17		
Value of direct-to-consumer farm product sales	\$1,167,000		

Local food production index<sup>14</sup> 16

The local food production index describes both the quantity and diversity of agricultural production in a region. It is obtained by comparing region per capita production of major food crops with national per capita consumption of those crops. The highest possible index score of 100 indicates that sufficient quantities of all included crops are produced within the region to meet local demand. Michigan's statewide production index score is 30.

<sup>1</sup> U.S. Census Bureau State & County Quick Facts: <http://quickfacts.census.gov/qfd/states/26000.html>

<sup>2</sup> 2007 Census of Agriculture. National Agricultural Statistics Service. <http://www.nass.usda.gov/mi>

<sup>3</sup> Michigan Economic Development Corporation Economic Profiler: <http://ref.michigan.org/medc/MIInfo/Places/>

<sup>4</sup> The Upper Peninsula Region received \$1,892,000 in federal commodity payments in 2007.

<sup>5</sup> Includes cattle, hogs, horses, ponies, goats, sheep, chickens, alpacas, llamas, turkeys, and pheasants.

<sup>6</sup> Certified organic data from 2007 Census of Agriculture provided by Dr. Jim Bingen, MSU CARRS, from a special request to NASS.

<sup>7</sup> Michigan Department of Agriculture Databases, 2009; see explanatory document for details.

<sup>8</sup> By MDA's definition, "food service establishments" includes all facilities selling food; licensed by local health departments. "Retail food establishments" includes only grocery, convenience stores, and other facilities selling food for at-home preparation and/or consumption; licensed by MDA.

<sup>9</sup> Calculated from county population and household income (American Community Survey, US Census Bureau 2007) and estimate of 12.1% of income spent on food in the Midwest region (Bureau of Labor Statistics, <http://www.bls.gov/cex/2007/share/region.pdf>)

<sup>10</sup> Food Bank Council of Michigan: [http://www.fbcmich.org/site/PageServer?pagename=findfood\\_counties](http://www.fbcmich.org/site/PageServer?pagename=findfood_counties)

<sup>11</sup> Michigan League for Human Services. Kids Count in Michigan Databook, 2007. <http://www.milhs.org/information/default.asp?NavPageID=50096>

<sup>12</sup> Calculated from American Community Survey 2008 population estimates (US Census Bureau), according to Ohio Department of Agriculture Animal Emergency Response Plan, 2007. Includes dogs, cats, birds, rabbits, rodents, and turtles.

<sup>13</sup> Michigan Farms & Farmers' Market 2009 Directory: <http://www.michiganfarmfun.com/> and the Michigan Farmers Market Association: [www.farmersmarkets.msu.edu](http://www.farmersmarkets.msu.edu)

<sup>14</sup> Calculated using USDA Census of Agriculture Data, adapted from Timmons, Wang and Kent (2008). Local Foods: Estimating Capacity. Journal of Extension 46(5).

## West Central District

Area <sup>1</sup>	5,444 square miles (1,846,489 acres of land <sup>2</sup> )
Population <sup>3</sup>	291,260
Counties	Lake, Mason, Muskegon, Newaygo, Oceana
Watersheds	White, Pentwater, Pere Marquette, Muskegon, Grand, Big Sable, Manistee



## Regional rankings (out of 9):

- #1 in Michigan in acres of asparagus (9,770 acres)
- #2 in Michigan in acres of tart cherries (11,454) and sweet cherries (874)
- #2 in Michigan in acres of apples (9,035)
- #2 in Michigan in number of controlled atmosphere storage facilities (10)
- #3 in Michigan in number of farms using organic production methods (35; 21 certified)

Agricultural Revenues<sup>2</sup>

	Amount	Rank (out of 9)
Total market value of agriculture production <sup>4</sup>	\$307,389,000	#6
Total crop sales	\$138,921,000	#6
Total livestock sales	\$168,468,000	#6

## Locally Important Products

Asparagus	9,770 acres	#1
Tart cherries	11,454 acres	#2
Sweet cherries	874 acres	#2
Apples	9,035 acres	#2

## Key Michigan Products

Corn, soy, and wheat	109,396 acres (25.2% of cropland)	#6
Revenue from corn, soy, and wheat	\$23,689,000	#6
Vegetables	26,604 acres (6.1% of cropland)	#3
Revenue from vegetables	\$31,548,000	#4
Fruit and tree nuts	25,926 acres (18.4% of cropland)	#3
Revenue from fruits, tree nuts and berries	\$42,681,000	#3
Dairy farms	124 farms (5.3% of all in MI)	#8
Revenue from milk and other dairy	\$94,803,000	#5
All animal operations	1,535 operations (142,750 animals <sup>5</sup> )	#7

Agricultural Land<sup>2</sup>

Total number of farms	2,760	#7
Total farmland	434,272 acres (23.5% of total area)	#8
Forage/pasture/non-crop farmland	74,519 acres (17.6% of farmland)	#9
Number of farms using organic production	35 (21 certified organic farms <sup>6</sup> )	#3
Cropland in organic production	858 acres (includes non-certified acres)	#6
Cropland in transition to organic	946 acres	#4
Area of greenhouse/nursery operations	1,407,976 sq. ft.	#4

## West Central District Agricultural Chemicals<sup>7</sup>

## Michigan Food and Agricultural Systems Profiles

	Number	Percent of MI total	Rank (out of 9)
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Fertilizer manufacturers, distributors, and storage facilities	6	2.3%	#8
Pesticide storage facilities	6	3.4%	#7

## Processing and Warehousing<sup>7</sup>

Wholesale food processing plants	117	8.8%	#5
Food warehouses	33	3.2%	#8
Controlled atmosphere storage facilities	10	15.2%	#2
Dairy processing plants	5	7.0%	#5
Dairy warehouse, transfer, and truck cleaning facilities	0	0.0%	
Slaughter facilities (MDA licensed)	2	3.5%	#9
Meat processing plants (MDA licensed)	0	0.0%	
Rendering facilities	0	0.0%	
Commercial feed manufacturing facilities	14	3.4%	#9
Livestock auctions/buying stations	1	6.3%	#6
Ethanol plants	none		

## Retailing and Distribution

Food service establishments (all) <sup>8</sup>	1,206	3.3%	#8
Retail food establishments	432	3.0%	#9
Total amount spent by consumers on food (estimate) <sup>9</sup>	\$544,200,000		
Emergency food distribution sites <sup>10</sup>	119	4.3%	
Pounds distributed	2,878,850	1.4%	
Students receiving free or reduced school lunch <sup>11</sup>	26,671		
Households receiving food stamp benefits	48,229		
Total federal funding for food stamp benefits	\$50,266,119		
Pet population (estimate) <sup>12</sup>	155,000		
Port(s) of entry	none		

## Local Distribution

Farmers' markets <sup>13</sup>	8
U-pick farms /On-farm markets	7
Farms using Community Supported Agriculture <sup>2</sup>	20
Value of direct-to-consumer farm product sales	\$2,739,000

Local food production index <sup>14</sup>	32
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The local food production index describes both the quantity and diversity of agricultural production in a region. It is obtained by comparing region per capita production of major food crops with national per capita consumption of those crops. The highest possible index score of 100 indicates that sufficient quantities of all included crops are produced within the region to meet local demand. Michigan's statewide production index score is 30.

<sup>1</sup> U.S. Census Bureau State & County Quick Facts: <http://quickfacts.census.gov/qfd/states/26000.html>

<sup>2</sup> 2007 Census of Agriculture. National Agricultural Statistics Service. <http://www.nass.usda.gov/mi>

<sup>3</sup> Michigan Economic Development Corporation Economic Profiler: <http://ref.michigan.org/medc/MIInfo/Places/>

<sup>4</sup> The West Central Region received \$3,437,000 in federal commodity payments in 2007.

<sup>5</sup> Includes cattle, hogs, horses, ponies, goats, sheep, chickens, alpacas, llamas, turkeys, and pheasants.

<sup>6</sup> Certified organic data from 2007 Census of Agriculture provided by Dr. Jim Bingen, MSU CARRS, from a special request to NASS.

<sup>7</sup> Michigan Department of Agriculture Databases, 2009; see explanatory document for details.

<sup>8</sup> By MDA's definition, "food service establishments" includes all facilities selling food; licensed by local health departments. "Retail food establishments" includes only grocery, convenience stores, and other facilities selling food for at-home preparation and/or consumption; licensed by MDA.

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