

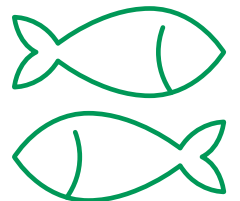
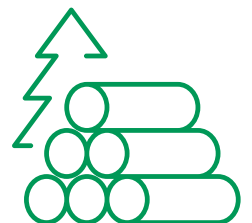
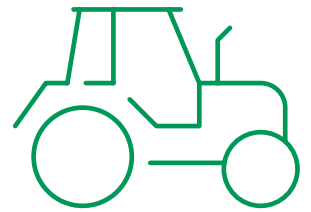
2024

# THE NORTHEAST ECONOMIC ENGINE

AGRICULTURE  
FOREST PRODUCTS  
COMMERCIAL FISHING  
FOOD MANUFACTURING



FARM CREDIT EAST



Dear Reader,

We are pleased to present our fourth edition of *The Northeast Economic Engine: Agriculture, Forest Products, Commercial Fishing and Food Manufacturing*.

Building on the previous three reports, issued in 2012, 2015 and 2020, this report confirms that agriculture, commercial fishing, forest products and food manufacturing industries are not only important providers of food, fiber, building products, ornamentals and more, but are important drivers of the northeast economy. Combined, these industries generate more than \$220 billion of economic activity annually and support more than 800,000 jobs in the region. This report is based on data from 2022, drawing on the USDA Census of Agriculture and other sources.

We believe this report shows that the Northeast United States has a diverse range of natural resource-based industries, including dairy, fruit, vegetable, vineyard, nursery, greenhouse, forest products, commercial fishing and aquaculture, in addition to a large food manufacturing industry. Some of the more notable sectors in terms of total economic impact across the eight-state region are:<sup>1</sup>

- **DAIRY FARMING AND PROCESSING** \$43.3 billion impact / 114,482 jobs supported
- **FOREST PRODUCTS** \$23.2 billion impact / 70,087 jobs supported
- **FRUIT AND VEGETABLE PRODUCTION** \$4.1 billion impact / 39,357 jobs supported
- **COMMERCIAL FISHING, AQUACULTURE AND RELATED PROCESSING**  
\$7.6 billion impact / 41,556 jobs supported

One of the key aspects of this report is that it captures the economic impact beyond the farm gate, including the broader food manufacturing sector. While some agricultural businesses sell their products directly to the consumer, others rely on additional work and processing to bring products to market. This could include turning milk into ice cream, apples into applesauce, cranberries into juice, or shucking and icing scallops. This additional work translates into jobs and tax revenues, while preserving working landscapes and waterfronts.

We all know that farming, fishing and forestry are far more than just dollars and cents. For many of us, it's our heritage, our passion and our way of life, but it's still important to convey that these industries are modern, vibrant contributors to the region's economy. Our hope is that this report will help those who work the land, the forest and the sea, as well as those who make our food, tell the story of their economic impact to policymakers, consumers and others.



Michael J. Reynolds  
CEO  
Farm Credit East

<sup>1</sup>Including related processing



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# THIS REPORT

This report covers eight Northeast states: the six New England states of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont, as well as the neighboring states of New Jersey and New York.

Agriculture, commercial fishing and forestry have been iconic industries for the Northeast since colonial times, when they formed the backbone of the economy. But far from being an anachronism, these industries today are modern, dynamic and vibrant contributors to the region's economy and employment and remain an important part of the landscape.

This report was a joint project between researchers at Cornell University and Farm Credit East Knowledge Exchange, using IMPLAN economic impact models and 2022 data, the most recent year for which complete information was available.

The economic impact of agriculture starts with the farm. Without the production at the farm, we would not have the jobs and economic impact created by upstream suppliers and downstream processors. While this analysis illustrates that there are more jobs and economic activity in off-farm processing and food manufacturing, many of these support and processing businesses exist in the Northeast because the underlying agricultural production is there as the foundation.

In this edition, we included sectors omitted in previous reports in an effort to more broadly quantify the ag and food system. While some sectors may use primarily out-of-region ingredients in their processes (such as bakeries), they are all part of the Northeast agriculture and food economy.

## KEY FINDINGS INCLUDE:

- Agriculture, fishing, forestry and food manufacturing generated an economic impact of \$225 billion in the eight northeast states in 2022, or \$4,781 per resident.
- The average annual contribution of only agricultural production to the region's economy was estimated at \$1,180 per acre of farmland or \$274 per resident.
- Agriculture, fishing, forestry and food manufacturing supported 818,408 jobs across the eight states, constituting an important contributor to employment in the region.
- Dairy manufacturing was one of the top sectors in the region, with more than \$16.9 billion in direct sales, \$34.5 billion in economic impact, and 85,962 jobs supported.
- The "green industry" (greenhouse, nursery and landscape services) had \$19.8 billion in direct sales, \$38.8 billion in economic impact and 255,517 jobs supported.

## STUDY HIGHLIGHTS

### IMPACTS OF AGRICULTURE, COMMERCIAL FISHING, FORESTRY AND FOOD RELATED BUSINESSES IN EIGHT NORTHEAST STATES

STATE	ECONOMIC IMPACT (\$ BILLION) <sup>2</sup>	NUMBER OF FARMS <sup>3</sup>	LAND IN FARMS (ACRES) <sup>4</sup>	JOBS SUPPORTED
CONNECTICUT	\$ 12.7	5,058	372,014	49,518
MAINE	\$ 15.2	7,036	1,225,046	66,230
MASSACHUSETTS	\$ 30.6	7,083	464,451	114,167
NEW HAMPSHIRE	\$ 6.6	3,949	417,187	28,743
NEW JERSEY	\$ 42.9	9,998	711,502	147,946
NEW YORK	\$ 85.8	30,650	6,502,286	291,474
RHODE ISLAND	\$ 3.7	1,054	59,076	16,907
VERMONT	\$ 8.6	6,537	1,173,890	37,746
<b>TOTAL</b>	<b>\$225.2</b>	<b>71,365</b>	<b>10,925,452</b>	<b>818,408</b>

## NORTHEAST<sup>5</sup> AGRICULTURE

- With more than 71,000 farms and nearly 11 million acres in farmland, agriculture is very much part of the region's working landscape.
- Agricultural production, food processing and support industries (excluding forestry and fisheries) produced \$118.7 billion in direct output and are responsible for \$192.2 billion in economic impact.
- Forest products industries produced \$11.9 billion in direct output and \$23.2 billion in economic impact, while supporting 70,087 jobs in forest products and processing industries.
- Commercial fishing, aquaculture and related processing generated \$4.8 billion in direct output, with an impact of \$7.6 billion to the economy. It supported 41,556 jobs in the region.

<sup>2</sup>Farming, fishing, forestry and food manufacturing impact. Does not include landscape services.

<sup>3</sup>USDA Ag Census, 2022

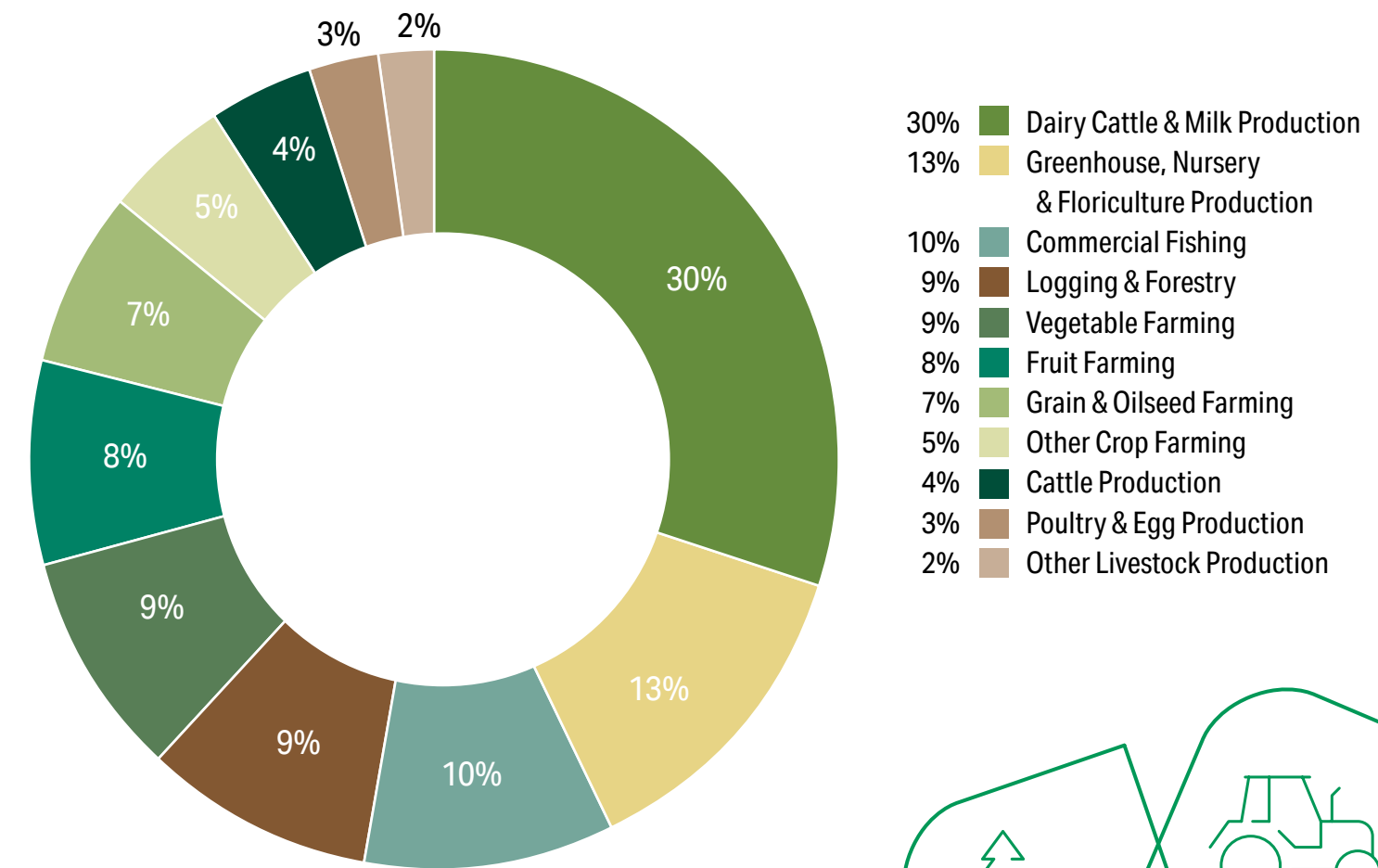
<sup>4</sup>USDA Ag Census, 2022

<sup>5</sup>New England (CT, ME, MA, NH, RI, VT), NY and NJ

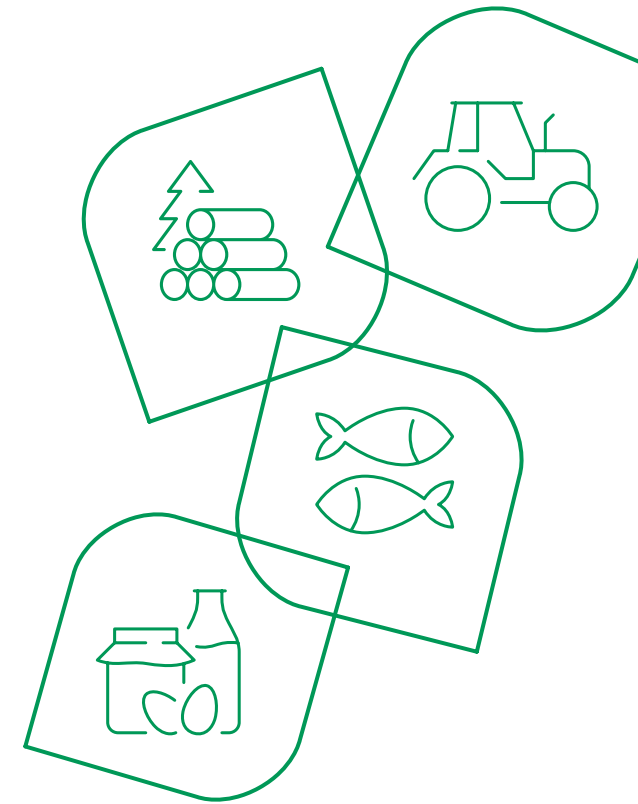
# NORTHEAST ECONOMIC IMPACTS

SECTOR	DIRECT SALES	ECONOMIC IMPACT	EMPLOYMENT
	\$ Million	\$ Million	Jobs
<b>AGRICULTURAL PRODUCTION</b>			
Vegetable Farming	1,373	2,185	17,845
Grain and Oilseed Farming	1,128	1,748	8,335
Fruit Farming	1,226	1,903	21,512
Greenhouse, Nursery and Floriculture Production	2,022	3,194	29,659
Other Crop Farming	824	1,333	43,712
Cattle Production	642	850	7,464
Dairy Cattle and Milk Production	4,865	8,787	28,520
Poultry and Egg Production	523	905	2,841
Other Livestock Production	284	380	5,086
<b>TOTAL FOR AG PRODUCTION</b>	<b>12,888</b>	<b>21,152</b>	<b>163,856</b>
<b>PROCESSING</b>			
Animal Food Manufacturing	5,773	8,905	16,464
Grain and Oilseed Processing	4,697	6,822	11,500
Sugar and Confectionary Manufacturing	4,147	7,967	26,106
Frozen and Canned Food Manufacturing	7,418	13,331	38,702
Dairy Manufacturing	16,926	34,496	85,962
Bakeries	18,400	34,444	171,558
Animal Slaughtering and Processing	8,647	13,797	40,832
Other Food Manufacturing	19,799	35,730	110,778
Soft Drinks and Water	6,430	11,654	30,042
Breweries	5,789	9,843	31,585
Wineries	2,029	3,787	12,937
Ag Input Manufacturing	3,150	5,554	12,743
<b>TOTAL FOR AG AND FOOD PROCESSING</b>	<b>105,855</b>	<b>183,381</b>	<b>579,127</b>
<b>TOTAL FOR AG PRODUCTION AND MANUFACTURING</b>	<b>118,744</b>	<b>192,221</b>	<b>678,031</b>
<b>FORESTRY PRODUCTION</b>			
Logging and Forestry	1,389	2,647	21,265
<b>PROCESSING</b>			
Sawmills, Pallet and Plywood Manufacturing	4,426	9,012	34,121
Pulp and Paper Mills	7,448	14,642	37,609
<b>TOTAL FOR FOREST INDUSTRY</b>	<b>11,874</b>	<b>23,219</b>	<b>70,087</b>
<b>SUPPORT ACTIVITIES FOR AGRICULTURE AND FORESTRY</b>	<b>1,087</b>	<b>2,127</b>	<b>29,757</b>
<b>FISHERIES AND AQUACULTURE PRODUCTION</b>			
Commercial Fishing	1,426	2,273	23,932
Aquaculture	201	268	3,593
<b>PROCESSING</b>			
Seafood Preparation and Packaging	3,124	5,517	18,708
<b>TOTAL FOR FISHERIES / SEAFOOD</b>	<b>4,751</b>	<b>7,625</b>	<b>41,556</b>
<b>TOTAL FOR ALL ABOVE SECTORS</b>	<b>137,845</b>	<b>225,215</b>	<b>818,408</b>
<b>LANDSCAPE SERVICES</b>	<b>17,782</b>	<b>35,636</b>	<b>225,858</b>

# NORTHEAST FARMING, FISHING & FORESTRY SALES



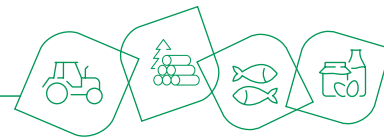
IMPACT OF AGRICULTURE, COMMERCIAL FISHING, FORESTRY AND FOOD MANUFACTURING IN THE NORTHEAST





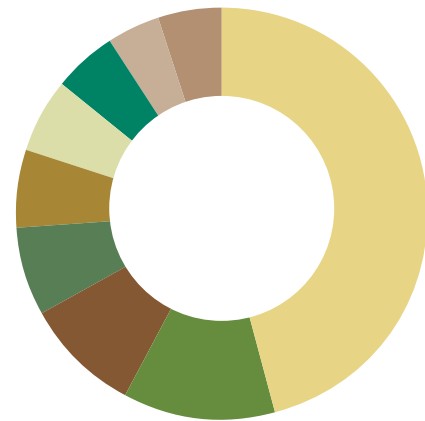
# CONNECTICUT

**\$12.7 BILLION IMPACT**



- With more than 5,000 farms, nearly 375,000 acres in farmland and more than 1.7 million acres in forest area, agriculture, forest products and commercial fishing remain very much a part of the state's economy and working landscape.
- Agricultural production and food processing in Connecticut generated \$7.3 billion in direct sales and \$11.0 billion in economic impact in 2022. In addition, it supported 42,846 jobs, both in these industries and throughout the broader economy.
- Forest products are a major contributor to the state economy, with \$1.5 billion in impact, and 4,150 jobs supported.
- Accounting for nearly half of all the state's farming, fishing and forestry revenues, the nursery and greenhouse sector is the leading agricultural industry in Connecticut.

## CONNECTICUT FARMING, FISHING & FORESTRY SALES



- 46% Greenhouse, Nursery & Floriculture Production
- 12% Dairy Cattle & Milk Production
- 9% Logging & Forestry
- 7% Vegetable Farming
- 6% Poultry & Egg Production
- 6% Other Crop Farming
- 5% Fruit Farming
- 4% Commercial Fishing & Aquaculture
- 5% Other



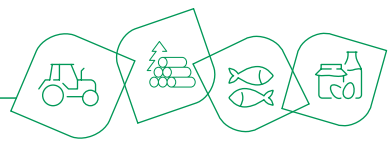
## CONNECTICUT ECONOMIC IMPACTS

SECTOR	DIRECT SALES \$ Million	ECONOMIC IMPACT \$ Million	EMPLOYMENT Jobs
<b>AGRICULTURAL PRODUCTION</b>			
Grain and Oilseed Farming	9.7	14.4	110
Vegetable Farming	52.9	74.2	785
Fruit Farming	36.9	46.6	743
Greenhouse, Nursery and Floriculture Production	362.5	502.9	5,591
Other Crop Farming	47.4	67.2	2,518
Cattle Production	14.7	17.3	268
Dairy Cattle and Milk Production	94.4	148.3	604
Poultry and Egg Production	49.7	73.1	258
Other Livestock Production	14.2	16.9	292
<b>TOTAL FOR AG PRODUCTION</b>	<b>682.2</b>	<b>958.7</b>	<b>11,141</b>
<b>AG AND FOOD PROCESSING</b>			
Animal Feed Manufacturing	228.5	309.5	532
Grain and Oilseed Processing	197.6	276.2	491
Sugar and Confectionary Manufacturing	163.2	274.8	878
Frozen and Canned Food Manufacturing	352.2	533.1	1,504
Dairy Processing and Manufacturing	821.6	1,317.7	3,328
Bakeries	1,381.7	2,259.2	11,809
Animal Slaughtering and Processing	313.6	460.7	1,421
Other Food Manufacturing	1,605.6	2,484.6	6,898
Soft Drinks and Water	422.3	647.6	1,569
Breweries	474.9	709.5	2,447
Wineries	137.0	231.0	799
Distilleries	301.8	441.7	875
Ag Input Manufacturing	243.0	413.3	1,178
<b>TOTAL FOR AG AND FOOD PROCESSING</b>	<b>6,643.0</b>	<b>10,271.8</b>	<b>33,510</b>
<b>TOTAL FOR AG PRODUCTION AND MANUFACTURING</b>	<b>7,325.2</b>	<b>11,014.5</b>	<b>42,846</b>
<b>FORESTRY PRODUCTION</b>			
Logging and Forestry	69.7	121.5	792
<b>PROCESSING</b>			
Sawmills, Pallet and Plywood Manufacturing	177.6	325.9	1,277
Pulp and Paper Mills	695.9	1,100.1	2,337
<b>TOTAL FOR FOREST INDUSTRY</b>	<b>943.2</b>	<b>1,504.9</b>	<b>4,150</b>
<b>SUPPORT ACTIVITIES FOR AGRICULTURE AND FORESTRY</b>	<b>40.8</b>	<b>80.2</b>	<b>1,690</b>
<b>FISHERIES AND AQUACULTURE PRODUCTION</b>			
Commercial Fishing	12.6	19.0	647
Aquaculture	21.8	25.9	448
<b>PROCESSING</b>			
Seafood Preparation and Packaging	60.9	93.5	310
<b>TOTAL FOR SEAFOOD PRODUCTION AND PROCESSING</b>	<b>95.3</b>	<b>136.0</b>	<b>1,334</b>
<b>TOTAL FOR ALL ABOVE SECTORS</b>	<b>8,404.4</b>	<b>12,701.7</b>	<b>49,518</b>
<b>LANDSCAPE SERVICES</b>	<b>1,906.4</b>	<b>3,468.7</b>	<b>23,529</b>



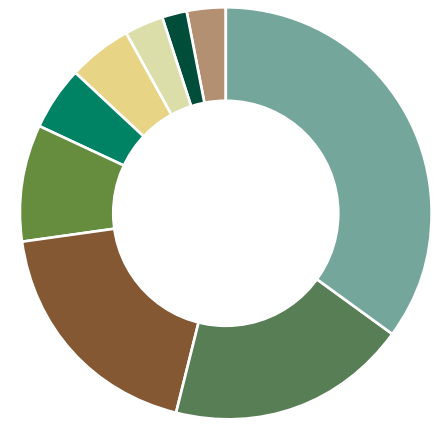
# MAINE

**\$15.2 BILLION IMPACT**



- Maine has more than 7,000 farms and 1.2 million acres in farmland. Anchored by potato production, vegetable farming is the leading agricultural sector.
- With 17.7 million acres of forest covering almost 90% of the state, the forest products industry is a major economic driver for the Pine Tree State. Forestry, logging and related processing support more than 20,000 jobs in Maine.
- Commercial fishing and aquaculture is also important to Maine, with \$1.5 billion in economic impact and 11,878 jobs supported.
- Dairy products, wild blueberries, maple syrup, and nursery and greenhouse products are also important to the state.

## MAINE FARMING, FISHING & FORESTRY SALES



- 35% Commercial Fishing
- 19% Vegetable Farming
- 19% Logging & Forestry
- 9% Dairy Cattle & Milk Production
- 5% Fruit Farming
- 5% Greenhouse, Nursery & Floriculture Production
- 3% Other Crops
- 2% Cattle Production
- 3% Other



## MAINE ECONOMIC IMPACTS

SECTOR	DIRECT SALES \$ Million	ECONOMIC IMPACT \$ Million	EMPLOYMENT Jobs
<b>AGRICULTURAL PRODUCTION</b>			
Grain and Oilseed Farming	22.7	35.8	251
Vegetable Farming	318.3	469.2	4,366
Fruit Farming	88.6	118.4	1,580
Greenhouse, Nursery and Floriculture Production	86.0	123.2	1,222
Other Crop Farming	55.7	86.1	3,849
Cattle Production	31.3	38.0	475
Dairy Cattle and Milk Production	146.8	230.0	927
Poultry and Egg Production	15.4	22.5	76
Other Livestock Production	17.2	21.0	294
<b>TOTAL FOR AG PRODUCTION</b>	<b>782.0</b>	<b>1,137.6</b>	<b>12,954</b>
<b>PROCESSING</b>			
Animal Feed Manufacturing	147.1	202.9	371
Grain and Oilseed Processing	188.7	250.4	437
Sugar and Confectionary Manufacturing	140.7	229.3	830
Frozen and Canned Food Manufacturing	801.9	1,268.3	3,849
Dairy Manufacturing	415.6	739.1	1,980
Bakeries	588.8	954.5	5,321
Animal Slaughtering and Processing	335.7	567.9	2,167
Other Food Manufacturing	375.5	623.5	2,523
Soft Drinks and Water	640.1	926.3	2,319
Breweries	435.1	623.3	2,124
Wineries	26.1	42.6	159
Distilleries	345.0	474.1	969
Ag Input Manufacturing	125.0	195.7	443
<b>TOTAL FOR AG AND FOOD PROCESSING</b>	<b>4,565.3</b>	<b>7,022.6</b>	<b>23,306</b>
<b>TOTAL FOR AG PRODUCTION AND MANUFACTURING</b>	<b>5,347.3</b>	<b>7,766.6</b>	<b>33,139</b>
<b>FORESTRY PRODUCTION</b>			
Logging and Forestry	316.4	583.8	6,065
<b>PROCESSING</b>			
Sawmills, Pallet and Plywood Manufacturing	1,300.8	2,348.8	9,483
Pulp and Paper Mills	2,113.8	3,587.0	9,735
<b>TOTAL FOR FOREST INDUSTRY</b>	<b>3,731.0</b>	<b>5,931.8</b>	<b>20,608</b>
<b>SUPPORT ACTIVITIES FOR AGRICULTURE AND FORESTRY</b>	<b>100.5</b>	<b>185.1</b>	<b>3,112</b>
<b>FISHERIES AND AQUACULTURE PRODUCTION</b>			
Commercial Fishing	496.7	755.8	8,673
Aquaculture	87.5	106.8	1,500
<b>PROCESSING</b>			
Seafood Preparation and Packaging	403.0	675.4	2,662
<b>TOTAL FOR FISHERIES / SEAFOOD</b>	<b>987.2</b>	<b>1,459.1</b>	<b>11,878</b>
<b>TOTAL FOR ALL ABOVE SECTORS</b>	<b>10,166.1</b>	<b>15,166.7</b>	<b>66,230</b>
<b>LANDSCAPE SERVICES</b>	<b>703.7</b>	<b>1,281.1</b>	<b>9,771</b>



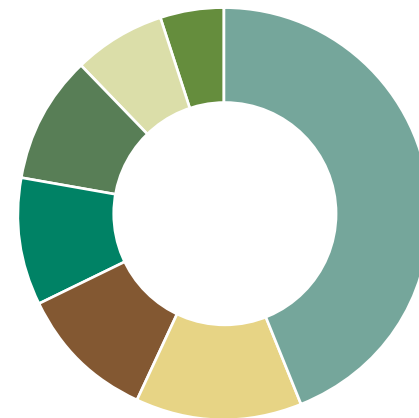
# MASSACHUSETTS

**\$30.6 BILLION IMPACT**



- With more than 7,000 farms and nearly a half-million acres in farmland, agriculture is a key part of the Commonwealth's landscape and economy.
- Commercial fishing and aquaculture is the largest sector in Massachusetts, with \$3.9 billion in economic impact and more than 17,000 jobs supported.
- Nursery and greenhouse is the largest agricultural sector.
- Massachusetts is the second largest producer of cranberries in the United States. Other key products include apples, vegetables and dairy.
- With a large food processing industry, when agricultural production and food processing are combined, the farm and food sector generates \$24.0 billion in impact and supports more than 85,000 jobs.

## MASSACHUSETTS FARMING, FISHING & FORESTRY SALES



- 44% Commercial Fishing
- 13% Greenhouse, Nursery & Floriculture Production
- 11% Logging & Forestry
- 10% Fruit Farming
- 10% Vegetable Farming
- 7% Other
- 5% Dairy Cattle & Milk Production



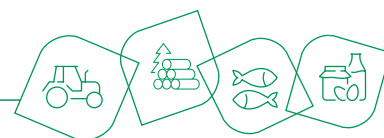
## MASSACHUSETTS ECONOMIC IMPACTS

SECTOR	DIRECT SALES \$ Million	ECONOMIC IMPACT \$ Million	EMPLOYMENT Jobs
<b>AGRICULTURAL PRODUCTION</b>			
Grain and Oilseed Farming	7.3	11.7	91
Vegetable Farming	127.1	197.1	2,133
Fruit Farming	131.6	188.2	3,088
Greenhouse, Nursery and Floriculture Production	164.1	248.5	2,836
Other Crop Farming	28.3	45.5	2,367
Cattle Production	14.5	18.2	294
Dairy Cattle and Milk Production	61.4	99.6	414
Poultry and Egg Production	16.8	25.3	93
Other Livestock Production	18.3	19.6	396
<b>TOTAL FOR AG PRODUCTION</b>	<b>569.5</b>	<b>852.7</b>	<b>11,696</b>
<b>PROCESSING</b>			
Animal Feed Manufacturing	344.2	476.5	789
Grain and Oilseed Processing	1,024.7	1,273.0	1,445
Sugar and Confectionary Manufacturing	498.9	854.8	2,933
Frozen and Canned Food Manufacturing	759.2	1,195.8	3,606
Dairy Manufacturing	1,248.4	1,898.7	4,538
Bakeries	3,343.4	5,725.4	29,856
Animal Slaughtering and Processing	1,818.5	2,598.7	6,868
Other Food Manufacturing	2,740.8	4,399.7	12,629
Soft Drinks and Water	1,766.2	2,794.9	6,960
Breweries	1,074.2	1,656.3	5,616
Wineries	115.4	198.8	710
Distilleries	96.3	142.7	301
Ag Input Manufacturing	328.2	557.2	1,099
<b>TOTAL FOR AG AND FOOD PROCESSING</b>	<b>15,158.5</b>	<b>23,377.9</b>	<b>76,449</b>
<b>TOTAL FOR AG PRODUCTION AND MANUFACTURING</b>	<b>15,727.9</b>	<b>24,036.0</b>	<b>85,521</b>
<b>FORESTRY PRODUCTION</b>			
Logging and Forestry	142.5	254.2	1,942
<b>PROCESSING</b>			
Sawmills, Pallet and Plywood Manufacturing	297.3	540.0	2,155
Pulp and Paper Mills	932.5	1,779.5	4,706
<b>TOTAL FOR FOREST INDUSTRY</b>	<b>1,229.7</b>	<b>2,304.6</b>	<b>8,464</b>
<b>SUPPORT ACTIVITIES FOR AGRICULTURE AND FORESTRY</b>	<b>138.5</b>	<b>250.8</b>	<b>4,028</b>
<b>FISHERIES AND AQUACULTURE PRODUCTION</b>			
Commercial Fishing	532.5	878.9	8,311
Aquaculture	37.7	40.4	814
<b>PROCESSING</b>			
Seafood Preparation and Packaging	1,982.3	3,299.8	10,872
<b>TOTAL FOR FISHERIES / SEAFOOD</b>	<b>2,552.4</b>	<b>3,942.9</b>	<b>17,261</b>
<b>TOTAL FOR ALL ABOVE SECTORS</b>	<b>19,791.1</b>	<b>30,633.3</b>	<b>114,167</b>
<b>LANDSCAPE SERVICES</b>	<b>3,922.1</b>	<b>7,260.9</b>	<b>47,071</b>



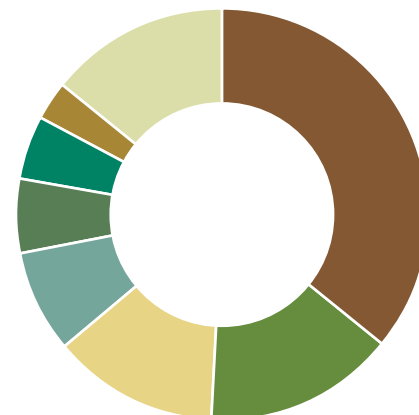
# NEW HAMPSHIRE

**\$6.6 BILLION IMPACT**



- The Granite State has nearly 4,000 farms and 417,187 acres in farmland.
- Dairy and nursery and greenhouse are the state's largest agricultural sectors.
- Logging, forestry and related processing is a key part of New Hampshire's economy, with \$1.4 billion in economic impact and 5,249 jobs supported.
- Fishing and aquaculture has more than \$145 million in economic impact and 543 jobs supported.

## NEW HAMPSHIRE FARMING, FISHING & FORESTRY SALES



- 36% Logging & Forestry
- 15% Dairy Cattle & Milk Production
- 13% Greenhouse, Nursery & Floriculture Production
- 8% Commercial Fishing
- 6% Vegetable Farming
- 5% Fruit Farming
- 3% Poultry & Eggs
- 14% Other



## NEW HAMPSHIRE ECONOMIC IMPACTS

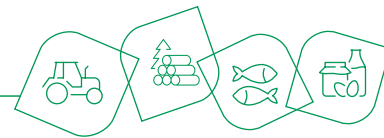
SECTOR	DIRECT SALES \$ Million	ECONOMIC IMPACT \$ Million	EMPLOYMENT Jobs
<b>AGRICULTURAL PRODUCTION</b>			
Grain and Oilseed Farming	5.6	9.7	120
Vegetable Farming	25.0	41.5	704
Fruit Farming	19.4	30.3	799
Greenhouse, Nursery and Floriculture Production	69.0	106.7	1,860
Other Crop Farming	25.4	44.7	4,222
Cattle Production	9.9	12.2	360
Dairy Cattle and Milk Production	63.0	100.1	639
Poultry and Egg Production	12.1	17.1	97
Other Livestock Production	10.5	11.2	426
<b>TOTAL FOR AG PRODUCTION</b>	<b>239.8</b>	<b>371.8</b>	<b>9,191</b>
<b>PROCESSING</b>			
Animal Feed Manufacturing	121.7	155.9	261
Grain and Oilseed Processing	404.9	473.9	520
Sugar and Confectionary Manufacturing	577.1	906.8	2,979
Frozen and Canned Food Manufacturing	34.1	50.0	138
Dairy Manufacturing	590.0	854.1	2,100
Bakeries	423.3	651.1	3,707
Animal Slaughtering and Processing	116.6	163.9	683
Other Food Manufacturing	270.1	400.1	1,231
Soft Drinks and Water	235.6	339.8	823
Breweries	398.5	556.5	1,809
Wineries	41.6	66.5	244
Distilleries	36.6	51.5	108
Ag Input Manufacturing	67.9	124.3	445
<b>TOTAL FOR AG AND FOOD PROCESSING</b>	<b>3,318.0</b>	<b>4,770.2</b>	<b>14,990</b>
<b>TOTAL FOR AG PRODUCTION AND MANUFACTURING</b>	<b>3,557.8</b>	<b>5,037.3</b>	<b>22,440</b>
<b>FORESTRY PRODUCTION</b>			
Logging and Forestry	151.0	257.4	2,024
<b>PROCESSING</b>			
Sawmills, Pallet and Plywood Manufacturing	467.5	808.5	2,755
Pulp and Paper Mills	277.7	453.1	1,117
<b>TOTAL FOR FOREST INDUSTRY</b>	<b>896.2</b>	<b>1,430.8</b>	<b>5,249</b>
<b>SUPPORT ACTIVITIES FOR AGRICULTURE AND FORESTRY</b>	<b>38.8</b>	<b>66.7</b>	<b>1,356</b>
<b>FISHERIES AND AQUACULTURE PRODUCTION</b>			
Commercial Fishing	29.2	34.5	74
Aquaculture	4.5	4.8	183
<b>PROCESSING</b>			
Seafood Preparation and Packaging	75.7	112.7	330
<b>TOTAL FOR FISHERIES / SEAFOOD</b>	<b>109.5</b>	<b>145.9</b>	<b>543</b>
<b>TOTAL FOR ALL ABOVE SECTORS</b>	<b>4,602.3</b>	<b>6,636.2</b>	<b>28,743</b>
<b>LANDSCAPE SERVICES</b>	<b>830.1</b>	<b>1,454.3</b>	<b>10,024</b>





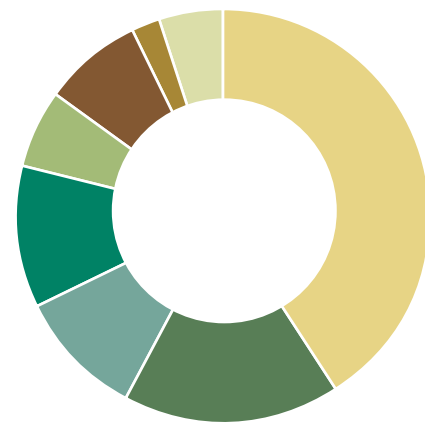
# NEW JERSEY

**\$42.9 BILLION IMPACT**



- With nearly 10,000 farms and more than 710,000 acres in farmland, agriculture is a key part of New Jersey's landscape and economy.
- Befitting its name as the Garden State, nursery and greenhouse is the largest agricultural sector, with vegetable farming ranked second. Greenhouse and nursery production generated more than a billion dollars in economic impact and supported almost 10,000 jobs.
- Given New Jersey's large food processing industry, when production and food processing are combined, the agriculture and food sectors generate \$40.8 billion in impact and support nearly 136,000 jobs.
- Commercial fishing and aquaculture is a significant sector in New Jersey, with \$670 million in economic impact and 3,618 jobs supported.

## NEW JERSEY FARMING, FISHING & FORESTRY SALES



- 41% Greenhouse, Nursery & Floriculture Production
- 17% Vegetable Farming
- 10% Commercial Fishing
- 11% Fruit Farming
- 6% Grain & Oilseed Farming
- 8% Logging & Forestry
- 2% Poultry & Eggs
- 5% Other



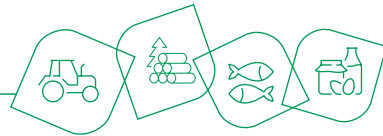
## NEW JERSEY ECONOMIC IMPACTS

SECTOR	DIRECT SALES \$ Million	ECONOMIC IMPACT \$ Million	EMPLOYMENT Jobs
<b>AGRICULTURAL PRODUCTION</b>			
Grain and Oilseed Farming	104.1	156.4	806
Vegetable Farming	294.4	467.8	3,789
Fruit Farming	197.8	289.9	3,376
Greenhouse, Nursery and Floriculture Production	725.8	1,131.4	9,798
Other Crop Farming	30.9	51.8	1,979
Cattle Production	9.8	13.3	142
Dairy Cattle and Milk Production	25.0	41.9	144
Poultry and Egg Production	31.6	49.2	146
Other Livestock Production	53.3	68.9	876
<b>TOTAL FOR AG PRODUCTION</b>	<b>1,472.8</b>	<b>2,267.5</b>	<b>21,031</b>
<b>PROCESSING</b>			
Animal Feed Manufacturing	1,189.5	1,695.0	2,884
Grain and Oilseed Processing	1,141.8	1,594.7	2,462
Sugar and Confectionary Manufacturing	621.8	1,085.8	3,323
Frozen and Canned Food Manufacturing	1,949.7	3,129.4	8,925
Dairy Manufacturing	1,957.3	2,789.8	5,903
Bakeries	4,699.2	7,899.7	38,767
Animal Slaughtering and Processing	2,634.5	3,859.0	10,087
Other Food Manufacturing	7,272.9	11,913.3	33,534
Soft Drinks and Water	1,574.7	2,549.8	6,385
Breweries	515.4	813.0	2,674
Wineries	273.2	482.0	1,700
Distilleries	368.1	555.8	1,147
Ag Input Manufacturing	767.1	1,254.7	2,776
<b>TOTAL FOR AG AND FOOD PROCESSING</b>	<b>24,965.2</b>	<b>38,897.1</b>	<b>118,881</b>
<b>TOTAL FOR AG PRODUCTION AND MANUFACTURING</b>	<b>26,438.0</b>	<b>40,838.6</b>	<b>135,976</b>
<b>FORESTRY PRODUCTION</b>			
Logging and Forestry	135.1	240.7	1,601
<b>PROCESSING</b>			
Sawmills, Pallet and Plywood Manufacturing	273.3	494.0	2,026
Pulp and Paper Mills	219.1	377.5	908
<b>TOTAL FOR FOREST INDUSTRY</b>	<b>627.5</b>	<b>1,100.1</b>	<b>4,461</b>
<b>SUPPORT ACTIVITIES FOR AGRICULTURE AND FORESTRY</b>	<b>240.9</b>	<b>417.5</b>	<b>5,444</b>
<b>FISHERIES AND AQUACULTURE PRODUCTION</b>			
Commercial Fishing	169.2	236.0	2,242
Aquaculture	14.9	19.3	246
<b>PROCESSING</b>			
Seafood Preparation and Packaging	266.9	437.3	1,347
<b>TOTAL FOR FISHERIES / SEAFOOD</b>	<b>451.0</b>	<b>670.4</b>	<b>3,618</b>
<b>TOTAL FOR ALL ABOVE SECTORS</b>	<b>27,757.5</b>	<b>42,879.8</b>	<b>147,946</b>
<b>LANDSCAPE SERVICES</b>	<b>4,088.4</b>	<b>7,441.9</b>	<b>48,499</b>



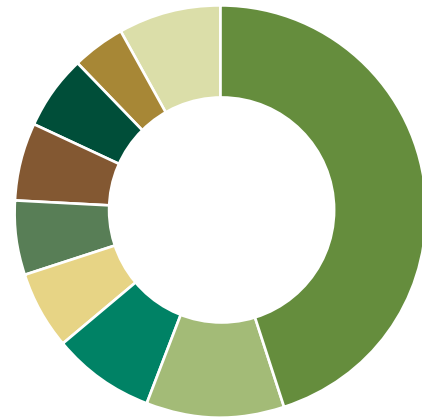
# NEW YORK

**\$85.8 BILLION IMPACT**



- With 30,650 farms and 6.5 million acres in farmland, New York leads the Northeast in agricultural production.
- Dairy cattle and milk production is by far the largest agricultural sector, with more than \$6 billion in economic impact and nearly 20,000 jobs supported. Other significant sectors include grain and oilseed, apples, nursery and greenhouse, and vegetables.
- With 18.9 million acres in forests, New York has a robust forest products sector. Logging, forestry and related processing and manufacturing generate nearly \$8 billion in economic impact and support 22,000 jobs.
- New York is the third largest grape producer in the United States after California and Washington. This production contributes to significant wine and juice industries in the Empire State.

## NEW YORK FARMING, FISHING & FORESTRY SALES



- 45% Dairy Cattle & Milk Production
- 11% Grain & Oilseed Farming
- 8% Fruit Farming
- 6% Greenhouse, Nursery & Floriculture Production
- 6% Vegetable Farming
- 6% Logging & Forestry
- 6% Cattle Production
- 4% Poultry & Egg Production
- 8% Other



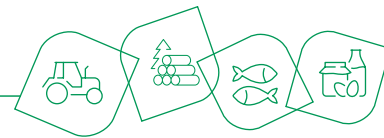
## NEW YORK ECONOMIC IMPACTS

SECTOR	DIRECT SALES \$ Million	ECONOMIC IMPACT \$ Million	EMPLOYMENT Jobs
<b>AGRICULTURAL PRODUCTION</b>			
Grain and Oilseed Farming	954.5	1,374.7	6,037
Vegetable Farming	500.0	722.5	5,269
Fruit Farming	721.4	1,073.0	10,450
Greenhouse, Nursery and Floriculture Production	538.1	771.1	6,746
Other Crop Farming	424.4	634.3	18,872
Cattle Production	493.2	634.7	4,808
Dairy Cattle and Milk Production	3,873.4	6,490.3	19,868
Poultry and Egg Production	356.1	573.0	1,473
Other Livestock Production	151.3	215.6	1,958
<b>TOTAL FOR AG PRODUCTION</b>	<b>8,012.4</b>	<b>12,346.9</b>	<b>74,428</b>
<b>PROCESSING</b>			
Animal Feed Manufacturing	3,092.2	4,386.1	7,563
Grain and Oilseed Processing	1,676.3	2,424.6	4,247
Sugar and Confectionary Manufacturing	1,914.0	3,209.8	10,234
Frozen and Canned Food Manufacturing	3,209.5	5,111.5	14,102
Dairy Manufacturing	9,761.8	19,143.2	44,743
Bakeries	7,259.2	11,984.1	62,180
Animal Slaughtering and Processing	2,547.2	3,899.0	11,394
Other Food Manufacturing	6,523.5	10,521.4	30,711
Soft Drinks and Water	1,598.0	2,491.8	6,037
Breweries	2,492.2	3,722.7	11,017
Wineries	1,339.0	2,221.9	7,219
Distilleries	1,335.4	1,759.8	2,604
Ag Input Manufacturing	1,582.4	2,378.9	4,596
<b>TOTAL FOR AG AND FOOD PROCESSING</b>	<b>44,330.8</b>	<b>71,559.1</b>	<b>212,787</b>
<b>TOTAL FOR AG PRODUCTION AND MANUFACTURING</b>	<b>52,343.2</b>	<b>76,528.8</b>	<b>256,102</b>
<b>FORESTRY PRODUCTION</b>			
Logging and Forestry	464.9	779.2	6,342
<b>PROCESSING</b>			
Sawmills, Pallet and Plywood Manufacturing	1,528.3	2,763.9	10,170
Pulp and Paper Mills	3,118.6	5,218.2	12,138
<b>TOTAL FOR FOREST INDUSTRY</b>	<b>4,646.9</b>	<b>7,896.4</b>	<b>21,993</b>
<b>SUPPORT ACTIVITIES FOR AGRICULTURE AND FORESTRY</b>	<b>463.5</b>	<b>791.6</b>	<b>10,859</b>
<b>FISHERIES AND AQUACULTURE PRODUCTION</b>			
Commercial Fishing	77.4	87.2	1,264
Aquaculture	24.9	35.4	322
<b>PROCESSING</b>			
Seafood Preparation and Packaging	211.7	322.1	893
<b>TOTAL FOR FISHERIES / SEAFOOD</b>	<b>313.9</b>	<b>437.5</b>	<b>2,389</b>
<b>TOTAL FOR ALL ABOVE SECTORS</b>	<b>58,232.6</b>	<b>85,797.5</b>	<b>291,474</b>
<b>LANDSCAPE SERVICES</b>	<b>5,433.3</b>	<b>9,549.3</b>	<b>61,655</b>



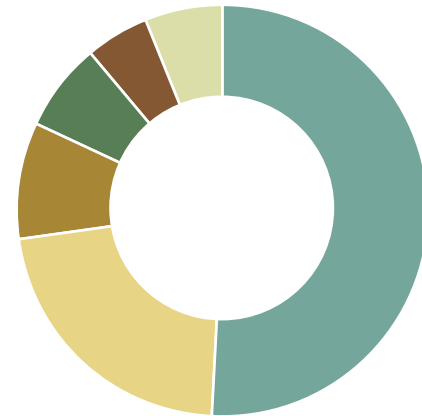
# RHODE ISLAND

**\$3.7 BILLION IMPACT**

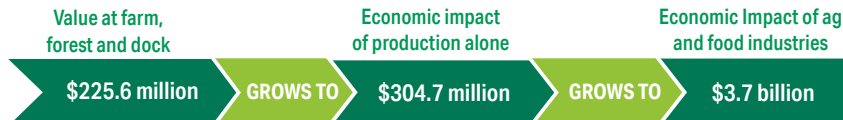


- Rhode Island has more than 1,000 farms and 59,000 acres in farmland, which contribute to the state's landscape and economy.
- Nursery and greenhouse is the largest agricultural sector. Other key products include vegetables, poultry and eggs.
- With a large food processing industry, when ag production and food processing are combined, the agricultural sector generates \$3.3 billion in impact and supports more than 13,000 jobs.
- Befitting its name as the Ocean State, Rhode Island has significant commercial fishing and aquaculture, which generate \$305 million in economic impact and support 3,160 jobs.

## RHODE ISLAND FARMING, FISHING & FORESTRY SALES



- 51% Commercial Fishing
- 22% Greenhouse, Nursery & Floriculture Production
- 9% Poultry & Eggs
- 7% Vegetable Farming
- 5% Logging & Forestry
- 6% Other



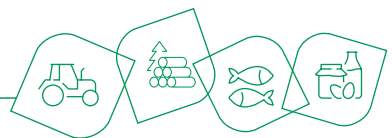
## RHODE ISLAND ECONOMIC IMPACTS

SECTOR	DIRECT SALES \$ Million	ECONOMIC IMPACT \$ Million	EMPLOYMENT Jobs
<b>AGRICULTURAL PRODUCTION</b>			
Grain and Oilseed Farming	0.4	0.6	8
Vegetable Farming	14.5	19.3	339
Fruit Farming	4.3	5.2	146
Greenhouse, Nursery and Floriculture Production	51.3	69.1	1,159
Other Crop Farming	1.7	2.4	269
Cattle Production	1.7	1.9	62
Dairy Cattle and Milk Production	2.8	4.1	25
Poultry and Egg Production	19.8	27.6	150
Other Livestock Production	1.8	2.2	72
<b>TOTAL FOR AG PRODUCTION</b>	<b>98.4</b>	<b>132.4</b>	<b>2,230</b>
<b>PROCESSING</b>			
Animal Feed Manufacturing	34.6	44.7	70
Grain and Oilseed Processing	31.9	44.3	92
Sugar and Confectionary Manufacturing	28.3	45.4	154
Frozen and Canned Food Manufacturing	105.5	144.8	402
Dairy Manufacturing	104.4	144.1	337
Bakeries	404.1	648.6	3,759
Animal Slaughtering and Processing	687.0	966.3	2,838
Other Food Manufacturing	463.0	709.4	2,161
Soft Drinks and Water	165.8	246.6	653
Breweries	124.7	178.5	656
Wineries	10.2	16.2	58
Distilleries	11.1	15.5	33
Ag Input Manufacturing	0	0	0
<b>TOTAL FOR AG AND FOOD PROCESSING</b>	<b>2,170.6</b>	<b>3,186.8</b>	<b>11,165</b>
<b>TOTAL FOR AG PRODUCTION AND MANUFACTURING</b>	<b>2,268.9</b>	<b>3,301.9</b>	<b>13,009</b>
<b>FORESTRY PRODUCTION</b>			
Logging and Forestry	11.5	18.3	123
<b>PROCESSING</b>			
Sawmills, Pallet and Plywood Manufacturing	45.0	75.8	330
Pulp and Paper Mills	0	0	0
<b>TOTAL FOR FOREST INDUSTRY</b>	<b>56.5</b>	<b>92.1</b>	<b>441</b>
<b>SUPPORT ACTIVITIES FOR AGRICULTURE AND FORESTRY</b>	<b>10.6</b>	<b>17.7</b>	<b>346</b>
<b>FISHERIES AND AQUACULTURE PRODUCTION</b>			
Commercial Fishing	108.5	145.4	2,458
Aquaculture	7.2	8.6	286
<b>PROCESSING</b>			
Seafood Preparation and Packaging	102.5	162.0	613
<b>TOTAL FOR FISHERIES / SEAFOOD</b>	<b>218.2</b>	<b>305.0</b>	<b>3,160</b>
<b>TOTAL FOR ALL ABOVE SECTORS</b>	<b>2,554.2</b>	<b>3,713.0</b>	<b>16,907</b>
<b>LANDSCAPE SERVICES</b>	<b>586.6</b>	<b>1,012.0</b>	<b>7,302</b>



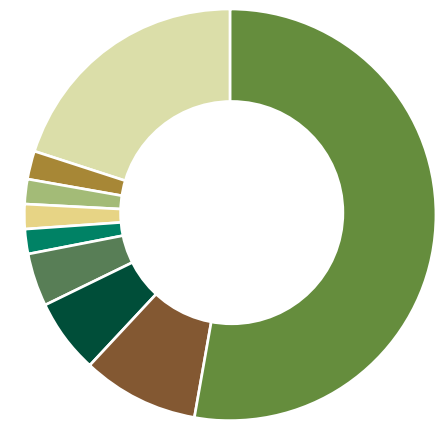
# VERMONT

**\$8.6 BILLION IMPACT**



- With more than 6,500 farms and nearly 1.2 million acres in farmland, agriculture is a key part of Vermont's landscape and economy.
- Dairy cattle and milk production is by far the largest agricultural sector, with nearly \$1 billion in economic impact and 3,646 jobs supported.
- Other significant agricultural sectors in Vermont include fruit, vegetables and maple syrup.
- With 4.5 million acres of forest, logging and forest products are a significant industry in the Green Mountain State. The forest products industry has \$820 million in economic impact and supports more than 4,000 jobs.

**VERMONT FARMING, FISHING & FORESTRY SALES**



- 53% Dairy Cattle & Milk Production
- 9% Logging & Forestry
- 6% Cattle Production
- 4% Vegetable Farming
- 2% Fruit Farming
- 2% Greenhouse, Nursery & Floriculture Production
- 2% Grain & Oilseed Farming
- 2% Poultry & Eggs
- 20% Other



## VERMONT ECONOMIC IMPACTS

SECTOR	DIRECT SALES \$ Million	ECONOMIC IMPACT \$ Million	EMPLOYMENT Jobs
<b>AGRICULTURAL PRODUCTION</b>			
Grain and Oilseed Farming	24.1	32.4	192
Vegetable Farming	40.6	54.4	477
Fruit Farming	25.9	37.1	435
Greenhouse, Nursery and Floriculture Production	25.6	33.5	352
Other Crop Farming	210.4	283.9	10,854
Cattle Production	66.4	78.9	735
Dairy Cattle and Milk Production	598.7	980.4	3,646
Poultry and Egg Production	22.0	36.4	110
Other Livestock Production	17.4	23.7	257
<b>TOTAL FOR AG PRODUCTION</b>	<b>1,031.1</b>	<b>1,537.5</b>	<b>16,787</b>
<b>PROCESSING</b>			
Animal Feed Manufacturing	614.7	787.6	1,324
Grain and Oilseed Processing	31.7	41.3	89
Sugar and Confectionary Manufacturing	203.0	307.9	1,111
Frozen and Canned Food Manufacturing	205.5	279.3	778
Dairy Manufacturing	2,027.3	3,634.8	9,140
Bakeries	300.4	452.0	2,598
Animal Slaughtering and Processing	193.8	325.8	1,313
Other Food Manufacturing	547.6	836.2	3,589
Soft Drinks and Water	27.0	38.8	111
Breweries	274.1	389.8	1,467
Wineries	86.8	137.1	497
Distilleries	155.7	227.0	531
Ag Input Manufacturing	36.5	55.1	150
<b>TOTAL FOR AG AND FOOD PROCESSING</b>	<b>4,704.1</b>	<b>7,359.4</b>	<b>22,363</b>
<b>TOTAL FOR AG PRODUCTION AND MANUFACTURING</b>	<b>5,735.1</b>	<b>7,706.7</b>	<b>32,725</b>
<b>FORESTRY PRODUCTION</b>			
Logging and Forestry	97.7	180.1	2,273
<b>PROCESSING</b>			
Sawmills, Pallet and Plywood Manufacturing	336.4	578.0	2,600
Pulp and Paper Mills	90.5	139.9	367
<b>TOTAL FOR FOREST INDUSTRY</b>	<b>524.7</b>	<b>819.8</b>	<b>4,286</b>
<b>SUPPORT ACTIVITIES FOR AGRICULTURE AND FORESTRY</b>	<b>53.6</b>	<b>94.4</b>	<b>2,057</b>
<b>FISHERIES AND AQUACULTURE PRODUCTION</b>			
Commercial Fishing	0	0	0
Aquaculture	1.6	2.4	45
<b>TOTAL FOR FISHERIES / SEAFOOD</b>	<b>1.6</b>	<b>2.4</b>	<b>45</b>
<b>TOTAL FOR ALL ABOVE SECTORS</b>	<b>6,336.4</b>	<b>8,582.2</b>	<b>37,746</b>
<b>LANDSCAPE SERVICES</b>	<b>311.5</b>	<b>527.7</b>	<b>4,096</b>



# METHODOLOGY

This report uses IMPLAN, the most widely used modeling software for the estimation of regional economic impacts. Utilizing direct sales data from the farm, factory or fishing pier, IMPLAN calculates the indirect and induced economic impacts via multipliers based on coefficients that describe the interaction among various sectors in a state’s economy. The IMPLAN model uses the values generated through these multipliers to calculate economy-wide impacts for 536 economic sectors. Sales data was obtained from the 2022 USDA Census of Agriculture and selected 2022 sector sales data from IMPLAN itself.

The overall economic impact of a given sector is comprised of three components:

- The direct farm or factory-gate sales of that sector is referred to as the *direct impact*.
- The spending of businesses on inputs, goods and services from other firms is referred to as the *indirect impact*.
- The spending of employees of these firms on goods and services within the economy is referred to as the *induced impact*.

The total economic impact of each farm, fishing and forestry sector is the sum of the direct, indirect and induced impacts of those businesses.

In this study, we included impacts from the entire food production and processing sector, regardless of whether those businesses were directly linked to local agricultural production within their state. Examples of this include bakeries, soft drinks and confectionery manufacturing, which may primarily use out-of-state ingredients, but are nonetheless integral to their state’s food sector.

Landscape services data is presented separately as this sector is often included as part of the overall “green industry” and makes significant contributions to state economies. Although landscaping is linked to and allied with the nursery and greenhouse industry, it is primarily a service industry, and therefore its data has been kept separate.

This is an abbreviated discussion of methodology and background. Further information is available on request.

## ABOUT THE AUTHORS

**DR. TODD SCHMIT** is a professor of applied economics and management at Cornell University. He holds a B.S. in agricultural business from the University of Wisconsin-River Falls, as well as an M.S. and Ph.D. in Agricultural Economics from Cornell University. Dr. Schmit’s research surrounds agribusiness management and domestic agricultural economic development.

**CHRIS LAUGHTON** is the Director of Knowledge Exchange at Farm Credit East. He holds a B.S. with Honors from Cornell University, an MBA from the University of Massachusetts, and an M.S. in Applied and Resource Economics from the University of Connecticut. He writes frequently about the junction between agricultural production, economics and policy.

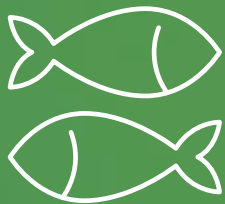
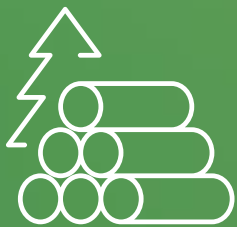
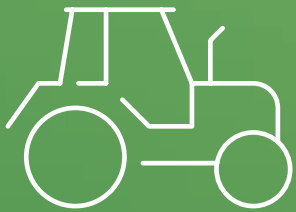
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