

Ohio

Research Office, ODSA
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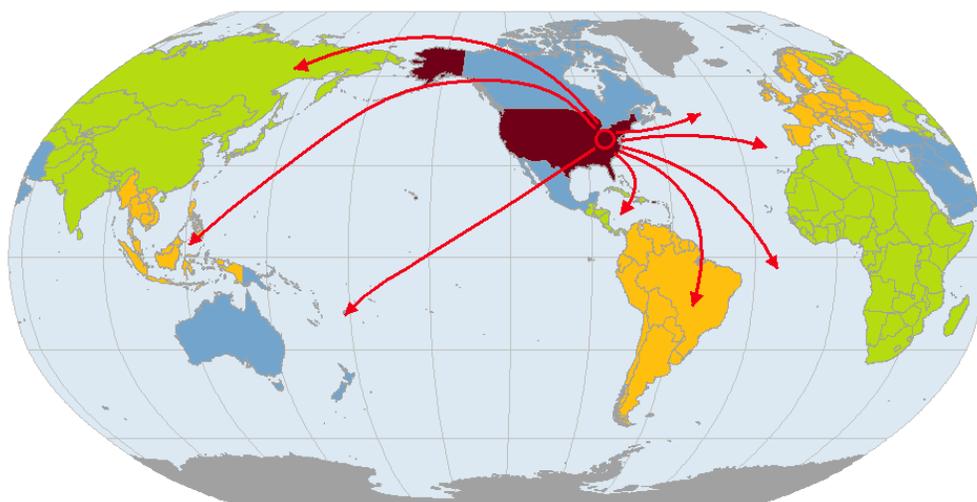
Ohio Exports Report: 2019

February 2020



Ohio Exports 2019

Origin of Movement Series



February 2020

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Ohio Exports 2019

Executive Summary



Ohio merchandise exports were valued at \$53.0 billion in 2019, a decrease of 2.6 percent from 2018. By comparison, the United States experienced a decrease of 1.2 percent in exports since 2018.

According to this report, in 2019:

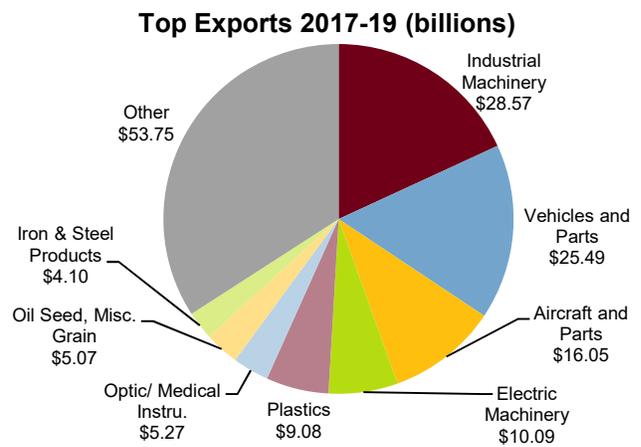
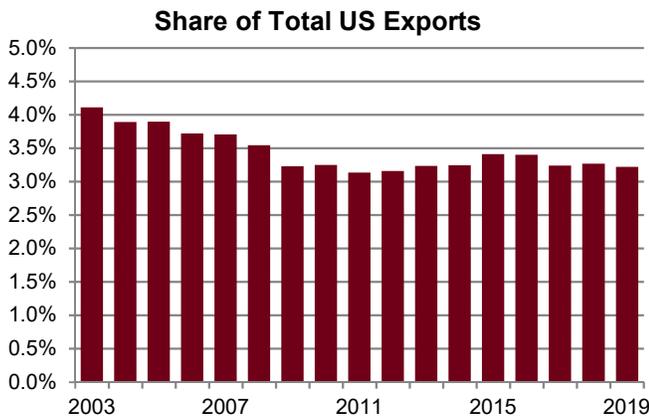
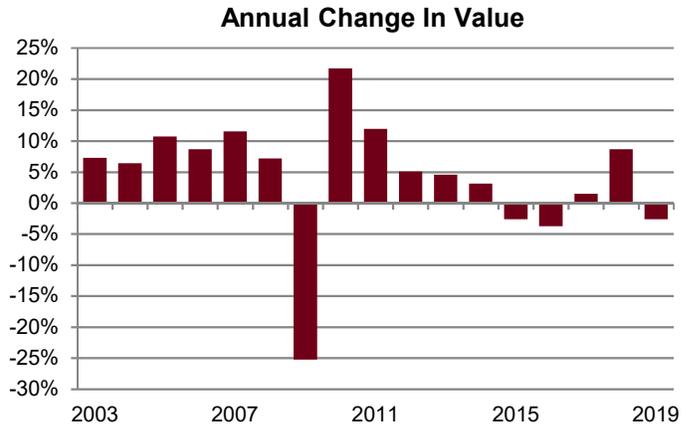
- Ohio was the 9th largest exporting state.
- 211 countries and territories received exports from Ohio.
- 9 countries received over \$1 billion in Ohio exports.
- 42 of the 98 commodity groups recorded exports exceeding \$100 million with 11 surpassing \$1 billion.

Leading Destinations:

- Exports to Canada totaled \$20.5 billion, 39 percent of the state figure. By comparison, U.S. exports to Canada were 18 percent of the national total.
- Shipments to Mexico, Ohio's second largest market, totaled \$6.9 billion. This figure is practically unchanged from 2018.
- European countries accounted for 17 percent of Ohio's exports. The four largest markets were United Kingdom (\$2.2 billion), France (\$1.5 billion), Germany (\$1.4 billion), and The Netherlands (\$900 million). Total shipments to Europe decreased 1 percent from 2018.
- Asian countries received 13 percent of Ohio's shipments. China was Ohio's third largest market at \$3.2 billion a decrease of 11 percent. Japan was Ohio's sixth largest market in 2019 at \$1.5 billion.
- Exports to Southeast Asia accounted for 6 percent (\$3.0 billion) of the state figure, a decrease of 12 percent. Exports to South America saw an annual increase of 15 percent while Africa jumped 21 percent.

Top Products:

- Industrial Machinery was Ohio's leading export (\$9.7 billion). Ohio was 4th among the 50 states in this category with 5 percent of the U.S. total.
- The top six categories (machinery, vehicles, aircraft, electrical machinery, plastics, and optic/photo/measuring/medical instruments) accounted for 61 percent (\$32.3 billion) of the state total.
- Four of the top ten commodities saw annual increases with Aircraft increasing 11 percent. Oil Seed had a bounce-back year increasing around 9 percent. Electrical Machinery saw a 10 percent decrease from last year.



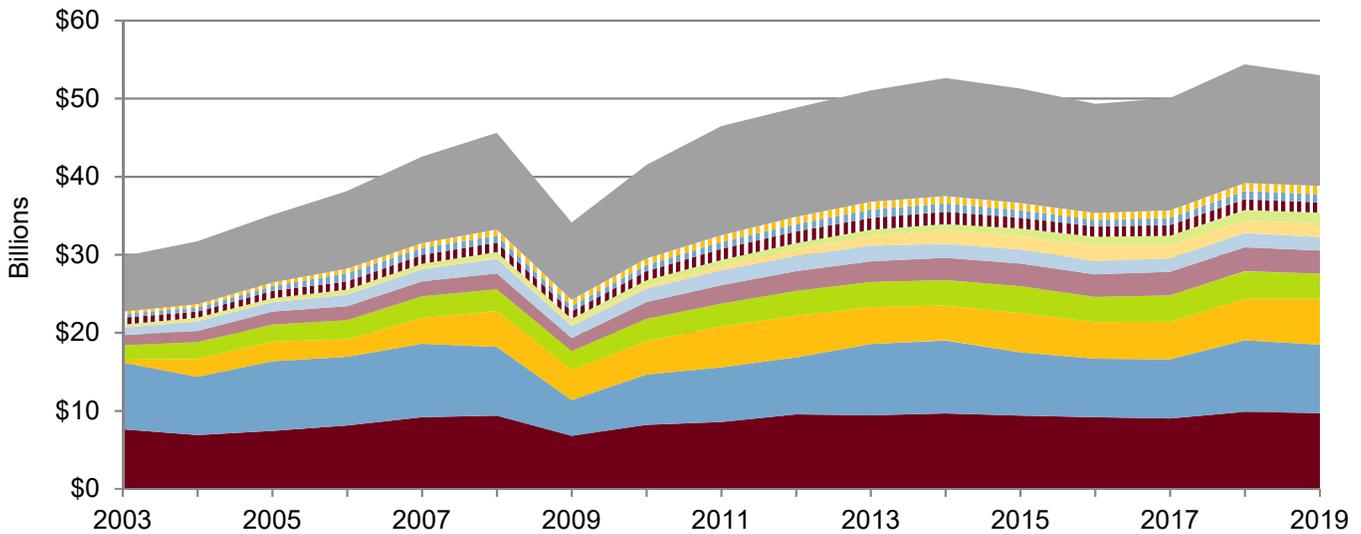
Ohio's Top 20 Exported Commodities: 2019

Harmonized
Schedule Code

| | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|--|-------------------------|-------------------------|-------------------------|---------------------|
| Total All Commodities | \$50,069,941,320 | \$54,403,829,149 | \$52,987,227,859 | -2.6% |
| 84 Industrial Machinery, Including Computers | \$8,988,549,756 | \$9,876,051,613 | \$9,701,235,373 | -1.8% |
| 87 Vehicles and Parts | \$7,588,654,524 | \$9,134,150,727 | \$8,772,122,007 | -4.0% |
| 88 Aircraft; Spacecraft and Parts | \$4,808,634,890 | \$5,324,875,583 | \$5,914,305,668 | 11.1% |
| 85 Electric Machinery; Sound Equip.; TV Equip. | \$3,388,196,346 | \$3,525,184,077 | \$3,176,086,864 | -9.9% |
| 39 Plastics and Articles Thereof | \$3,038,393,127 | \$3,085,954,934 | \$2,954,074,616 | -4.3% |
| 90 Optic, Photo; Medical Instruments | \$1,675,380,896 | \$1,854,571,180 | \$1,740,578,710 | -6.1% |
| 12 Oil Seed, Miscellaneous Grain | \$1,778,671,033 | \$1,573,023,414 | \$1,713,487,512 | 8.9% |
| 33 Perfumery, Cosmetic, etc | \$1,144,006,892 | \$1,320,946,742 | \$1,392,523,293 | 5.4% |
| 73 Iron and Steel Products | \$1,372,321,676 | \$1,424,561,081 | \$1,301,209,289 | -8.7% |
| 38 Miscellaneous Chemical Products | \$958,186,441 | \$1,059,923,954 | \$1,064,158,786 | 0.4% |
| 34 Soap, Waxes, Lubricating Preparations, etc | \$902,579,455 | \$988,989,714 | \$1,052,181,486 | 6.4% |
| 40 Rubber and Articles Thereof | \$1,142,383,715 | \$1,089,953,675 | \$931,072,298 | -14.6% |
| 72 Iron and Steel | \$1,168,413,146 | \$1,111,637,659 | \$914,139,637 | -17.8% |
| 27 Mineral Fuel, Oil, etc | \$526,816,749 | \$585,394,381 | \$683,048,205 | 16.7% |
| 30 Pharmaceutical Products | \$609,024,187 | \$804,684,316 | \$672,853,648 | -16.4% |
| 32 Tanning, Dye, Paint, Putty | \$591,084,731 | \$597,863,467 | \$661,395,214 | 10.6% |
| 29 Organic Chemicals | \$683,488,166 | \$665,311,219 | \$646,792,694 | -2.8% |
| 24 Tobacco and Manufactured Substitutes | \$611,284,379 | \$754,131,711 | \$556,828,487 | -26.2% |
| 48 Paper, Paperboard, Articles of Paper Pulp | \$574,792,519 | \$567,546,220 | \$543,708,412 | -4.2% |
| 83 Miscellaneous Articles of Base Metal | \$444,969,596 | \$491,690,131 | \$466,662,682 | -5.1% |
| Multi Remaining commodities | \$8,074,109,096 | \$8,567,383,351 | \$8,128,762,978 | -5.1% |

Ohio Exports

Exported Products Over \$1 Billion Value: 2019



| Harmonized Schedule Code | | 2019 Value | % of All Exports |
|--------------------------|---------------------------------------|------------------|------------------|
| 84 | Industrial Machinery, Incl. Computers | \$9,701,235,373 | 18.3% |
| 87 | Vehicles and Parts | \$8,772,122,007 | 16.6% |
| 88 | Aircraft; Spacecraft and Parts | \$5,914,305,668 | 11.2% |
| 85 | Electric Machinery; Sound/TV Equip. | \$3,176,086,864 | 6.0% |
| 39 | Plastics and Articles Thereof | \$2,954,074,616 | 5.6% |
| 90 | Optic, Photo; Medical Instruments | \$1,740,578,710 | 3.3% |
| 12 | Oil Seed, Miscellaneous Grain | \$1,713,487,512 | 3.2% |
| 33 | Perfumery, Cosmetic, etc | \$1,392,523,293 | 2.6% |
| 73 | Iron and Steel Products | \$1,301,209,289 | 2.5% |
| 38 | Miscellaneous Chemical Products | \$1,064,158,786 | 2.0% |
| 34 | Soap, Waxes, Lubricating Preps., etc | \$1,052,181,486 | 2.0% |
| Multi | Remaining commodities | \$14,205,264,255 | 26.8% |

Top 10 Trading Partners - 2019

| | 2019 Value | Pct of 2019 Total |
|----------------|------------------|-------------------|
| Total | \$52,987,227,859 | |
| Canada | \$20,468,697,173 | 38.6% |
| Mexico | \$6,882,555,712 | 13.0% |
| China | \$3,217,141,492 | 6.1% |
| United Kingdom | \$2,198,366,739 | 4.1% |
| Brazil | \$2,021,182,992 | 3.8% |
| Japan | \$1,549,016,362 | 2.9% |
| France | \$1,489,849,343 | 2.8% |
| Germany | \$1,441,365,464 | 2.7% |
| Korea | \$1,072,229,138 | 2.0% |
| Netherlands | \$940,562,599 | 1.8% |
| Others | \$11,706,260,845 | 22.1% |

Top 10 Trading Partners - 2017 to 2019

| | 2017 to 2019 Value | Pct of 3-yr Total |
|----------------|--------------------|-------------------|
| Total | \$157,460,998,328 | |
| Canada | \$60,605,352,194 | 38.5% |
| Mexico | \$20,241,334,603 | 12.9% |
| China | \$10,666,632,306 | 6.8% |
| United Kingdom | \$6,499,843,640 | 4.1% |
| Brazil | \$4,874,758,515 | 3.1% |
| Japan | \$4,624,799,425 | 2.9% |
| Germany | \$4,398,464,929 | 2.8% |
| France | \$3,905,928,949 | 2.5% |
| Korea | \$3,129,793,415 | 2.0% |
| Netherlands | \$2,600,128,426 | 1.7% |
| Others | \$35,913,961,926 | 22.8% |

Machinery, Including Computers (HS 84) Exports

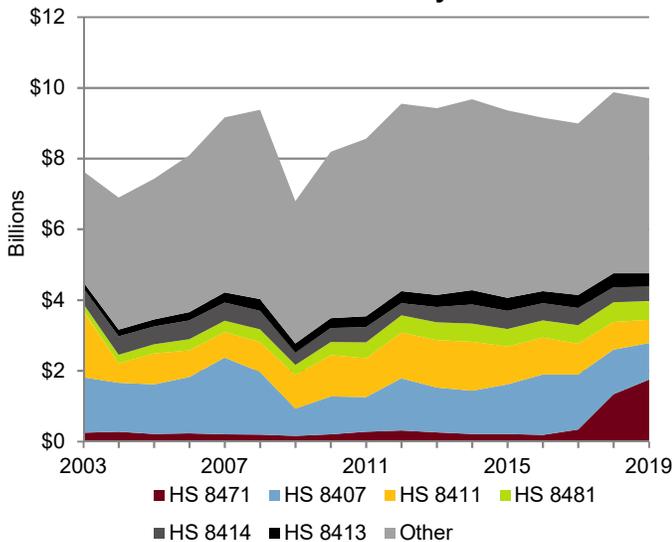


Harmonized
Tariff Schedule

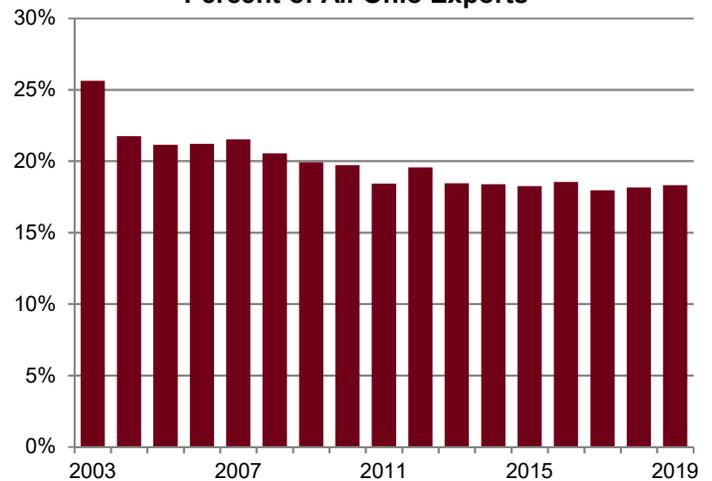
| | | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|--------------|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | | \$8,988,549,756 | \$9,876,051,613 | \$9,701,235,373 | -1.8% |
| 8471 | Automatic Data Process Machines | \$333,267,249 | \$1,335,860,969 | \$1,750,603,659 | 31.0% |
| 8407 | Spark Ignition; Piston Engines | \$1,557,378,608 | \$1,261,136,343 | \$1,032,803,134 | -18.1% |
| 8411 | Turbojets and Other Gas Turbines, Parts | \$876,939,875 | \$779,833,131 | \$659,308,355 | -15.5% |
| 8481 | Taps, Cocks, Valves for Pipes, Tanks | \$522,735,378 | \$561,625,613 | \$525,883,979 | -6.4% |
| 8414 | Air Related Pumps/Compressors | \$483,897,289 | \$420,927,209 | \$407,178,197 | -3.3% |
| 8413 | Liquid Pumps/Elevators | \$368,838,775 | \$397,318,473 | \$380,479,224 | -4.2% |
| 8421 | Centrifuges/Filters for Liquid or Gases | \$321,509,286 | \$375,744,969 | \$359,808,653 | -4.2% |
| 8409 | Parts for Engines of Heading 8407 or 8408 | \$330,237,713 | \$384,407,415 | \$296,799,151 | -22.8% |
| 8479 | Machines Having Individual Functions Nesoi | \$204,457,469 | \$244,490,105 | \$264,595,402 | 8.2% |
| 8427 | Fork-Lift Trucks/Trucks with Lifts | \$200,300,794 | \$235,049,028 | \$260,412,802 | 10.8% |
| 8483 | Transmission Products | \$268,357,798 | \$260,291,114 | \$240,453,495 | -7.6% |
| 8419 | Machinery for Temperature Changing | \$200,826,880 | \$233,832,960 | \$226,718,151 | -3.0% |
| 8415 | Air Conditioning Machines | \$250,130,428 | \$209,513,443 | \$223,662,478 | 6.8% |
| 8431 | Parts for Machinery of Headings 8425 to 8430 | \$160,413,116 | \$188,489,859 | \$188,269,051 | -0.1% |
| 8466 | Parts for Machine Tools of Head 8456 to 8465 | \$213,862,503 | \$211,521,783 | \$184,702,328 | -12.7% |
| 8450 | Washing Machines | \$204,533,344 | \$184,651,045 | \$177,702,496 | -3.8% |
| 8473 | Parts for Typewriters & Other Office Machines | \$86,910,553 | \$88,380,733 | \$177,158,888 | 100.4% |
| 8482 | Ball or Roller Bearings | \$202,409,122 | \$215,266,110 | \$164,120,786 | -23.8% |
| 8477 | Machinery for Working Rubber & Plastic Nesoi | \$196,123,848 | \$189,044,952 | \$153,956,439 | -18.6% |
| Multi | Remaining commodities | \$2,005,419,728 | \$2,098,666,359 | \$2,026,618,705 | -3.4% |

Nesoi - Not elsewhere specified or indicated

Value of Machinery



Percent of All Ohio Exports



Top 5 Trading Partners - 2019

| | 2019 Value | Pct of Total |
|---------|-----------------|-----------------|
| Total | \$9,701,235,373 | |
| Canada | \$4,455,076,234 | 45.9% |
| Mexico | \$1,408,673,946 | 14.5% |
| China | \$404,492,025 | 4.2% |
| U. K. | \$319,694,898 | 3.3% |
| Germany | \$252,296,758 | 2.6% |
| Others | \$2,861,001,512 | 29.5% |

Top 5 Trading Partners - 2017 to 2019

| | 2017 to 2019 Value | Pct of 3-yr Total |
|----------------|-----------------------|----------------------|
| Total | \$28,565,836,742 | |
| Canada | \$12,580,995,369 | 44.0% |
| Mexico | \$3,852,965,820 | 13.5% |
| China | \$1,497,861,358 | 5.2% |
| United Kingdom | \$971,971,118 | 3.4% |
| Germany | \$797,596,307 | 2.8% |
| Others | \$8,864,446,770 | 31.0% |

Vehicles and Parts (HS 87) Exports

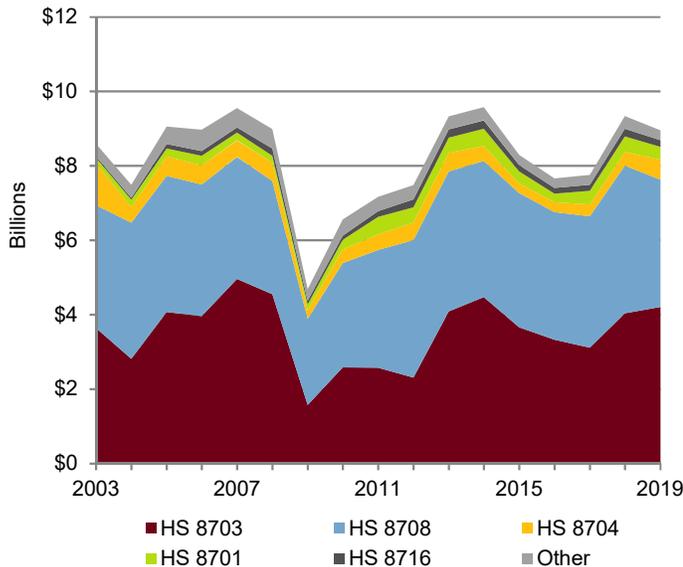


Harmonized Tariff
Schedule

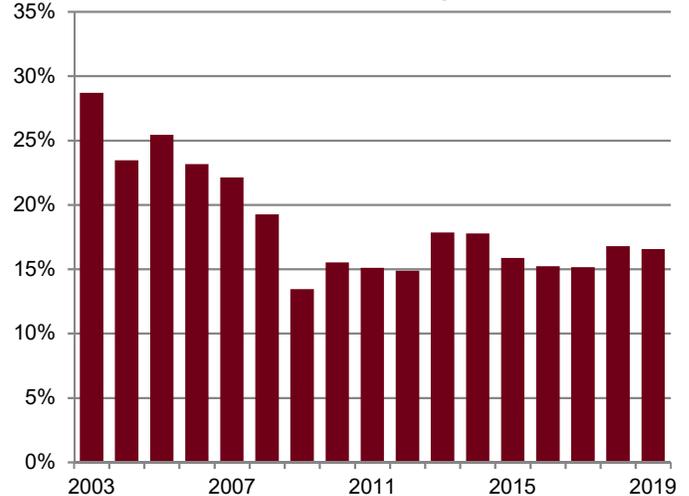
| | | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|--------------|--|------------------------|------------------------|------------------------|---------------------|
| TOTAL | | \$7,588,654,524 | \$9,134,150,727 | \$8,772,122,007 | -4.0% |
| 8703 | Passenger Cars & Vehicles | \$3,108,031,007 | \$4,038,750,165 | \$4,206,868,189 | 4.2% |
| 8708 | Parts & Accessories for Headings 8701-8705 | \$3,538,615,820 | \$3,963,704,675 | \$3,421,752,342 | -13.7% |
| 8704 | Motor Vehicles For Transport Of Goods | \$316,277,217 | \$365,343,177 | \$535,817,305 | 46.7% |
| 8701 | Tractors | \$363,501,072 | \$424,278,406 | \$341,617,232 | -19.5% |
| 8716 | Trailers; Non-Mechanical | \$166,190,902 | \$206,869,149 | \$178,163,332 | -13.9% |
| 8710 | Tank & Other Armored Fight Vehicles | \$27,954,337 | \$60,298,877 | \$24,753,143 | -58.9% |
| 8705 | Special Purpose Motor Vehicles Nesoi | \$19,487,715 | \$24,334,657 | \$20,546,041 | -15.6% |
| 8714 | Parts & Accessories for Motorcycles | \$9,747,887 | \$16,242,985 | \$14,360,489 | -11.6% |
| 8707 | Bodies for Motor Vehicles: 8701-8705 | \$9,505,868 | \$10,021,692 | \$7,841,521 | -21.8% |
| 8709 | Various Work-Related Vehicles | \$3,025,611 | \$3,790,997 | \$5,939,063 | 56.7% |
| 8711 | Motorcycles | \$8,972,753 | \$8,158,777 | \$4,672,509 | -42.7% |
| 8713 | Carriages For Disabled Persons | \$3,993,261 | \$2,995,723 | \$2,814,650 | -6.0% |
| 8702 | Transport Vehicles for > Ten Persons | \$10,457,095 | \$4,805,024 | \$2,107,617 | -56.1% |
| 8712 | Bicycles & Other Cycles with No Motor | \$1,339,274 | \$1,677,857 | \$2,039,885 | 21.6% |
| 8715 | Baby Carriages/Strollers | \$1,491,687 | \$2,549,738 | \$2,029,169 | -20.4% |
| 8706 | Chassis With Engine | \$63,018 | \$328,828 | \$799,520 | 143.1% |

Nesoi - Not elsewhere specified or indicated

Value of Vehicles and Parts



Percent of All Ohio Exports



Top 5 Trading Partners - 2019

| | 2019 Value | Pct of Total |
|--------------|-----------------|-----------------|
| Total | \$8,772,122,007 | |
| Canada | \$4,621,565,034 | 52.7% |
| Mexico | \$1,502,620,234 | 17.1% |
| Korea | \$367,952,789 | 4.2% |
| Japan | \$294,245,894 | 3.4% |
| Saudi Arabia | \$225,452,215 | 2.6% |
| Others | \$1,760,285,841 | 20.1% |

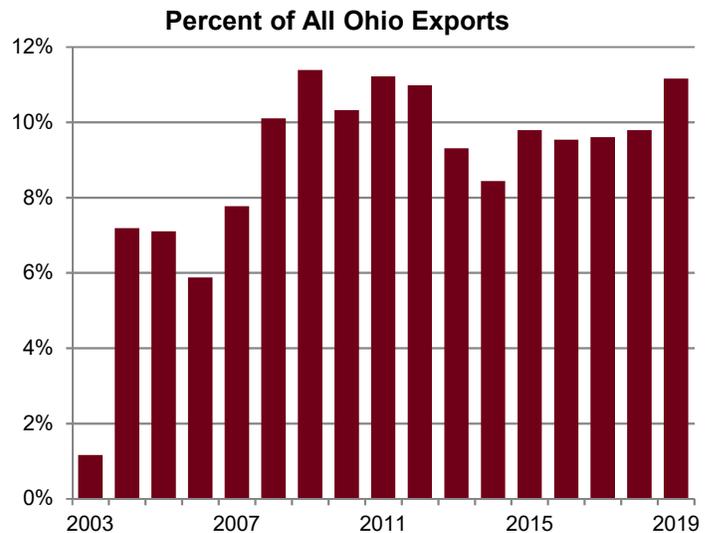
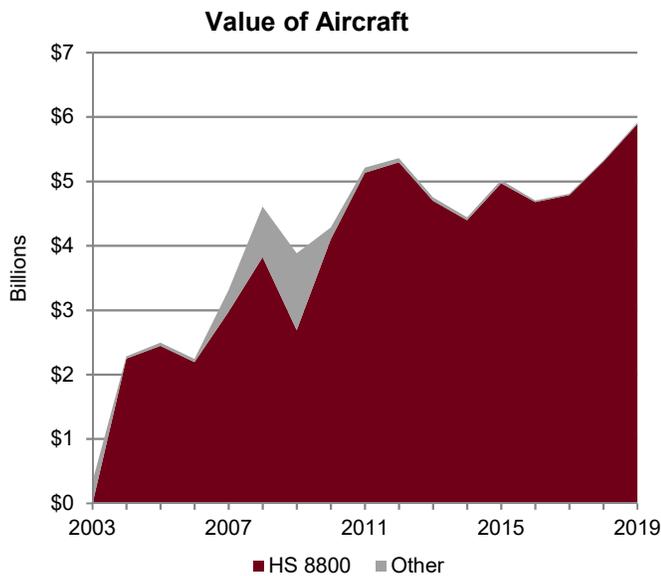
Top 5 Trading Partners - 2017 to 2019

| | 2017 to 2019 Value | Pct of 3-yr Total |
|--------|-----------------------|----------------------|
| Total | \$25,494,927,258 | |
| Canada | \$13,628,000,367 | 53.5% |
| Mexico | \$4,200,416,449 | 16.5% |
| Korea | \$782,865,186 | 3.1% |
| China | \$778,536,249 | 3.1% |
| Japan | \$718,357,212 | 2.8% |
| Others | \$5,386,751,795 | 21.1% |

Aircraft; Spacecraft & Parts (HS 88) Exports



| Harmonized Tariff Schedule | | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|----------------------------|---|------------------------|------------------------|------------------------|------------------|
| | TOTAL | \$4,808,634,890 | \$5,324,875,583 | \$5,914,305,668 | 11.1% |
| 8800 | Civilian Aircraft, Engines, And Parts | \$4,786,708,653 | \$5,307,052,809 | \$5,890,172,820 | 11.0% |
| 8803 | Parts of Balloons, Aircraft, Spacecraft | \$21,579,045 | \$17,787,258 | \$23,882,596 | 34.3% |
| 8801 | Balloons/Dirigibles; Gliders | \$9,840 | \$12,000 | \$214,677 | 1689.0% |
| 8804 | Parachutes | \$2,797 | \$10,454 | \$22,925 | 119.3% |
| 8805 | Aircraft Launch Gear; Deck-Arrestor Gear | \$334,555 | \$13,062 | \$12,650 | -3.2% |
| 8802 | Aircraft, Powered; Spacecraft/Launch Veh. | \$0 | \$0 | \$0 | n.a. |



Note: Starting in 2004, some commodity detail was suppressed for aircraft/parts. Suppressed aircraft commodities include many products in HS88 but also aircraft parts such as turbojets, electronics, instrumentation and tires (HS Codes 84, 85, 90, 40, etc.) These are now grouped together under HS 8800.

Top 5 Trading Partners - 2019

| | 2019 Value | Pct of Total |
|----------------|-----------------|--------------|
| Total | \$5,914,305,668 | |
| Brazil | \$1,280,238,031 | 21.6% |
| France | \$760,366,462 | 12.9% |
| United Kingdom | \$662,816,835 | 11.2% |
| Canada | \$616,882,083 | 10.4% |
| China | \$555,835,081 | 9.4% |
| Others | \$2,038,167,176 | 34.5% |

Top 5 Trading Partners - 2017 to 2019

| | 2017 to 2019 Value | Pct of 3-yr Total |
|----------------|--------------------|-------------------|
| Total | \$16,047,816,141 | |
| Brazil | \$2,643,048,603 | 16.5% |
| France | \$1,792,989,550 | 11.2% |
| United Kingdom | \$1,751,683,555 | 10.9% |
| Canada | \$1,583,169,834 | 9.9% |
| China | \$1,406,639,618 | 8.8% |
| Others | \$6,870,284,981 | 42.8% |

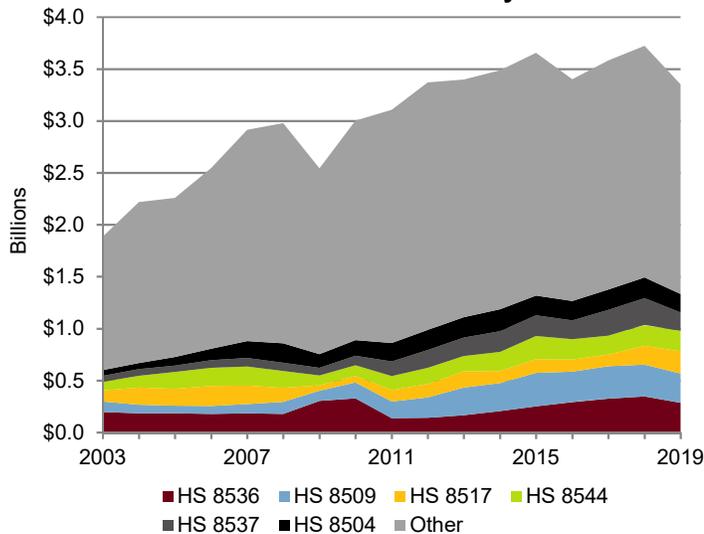
Electrical Machinery (HS 85) Exports



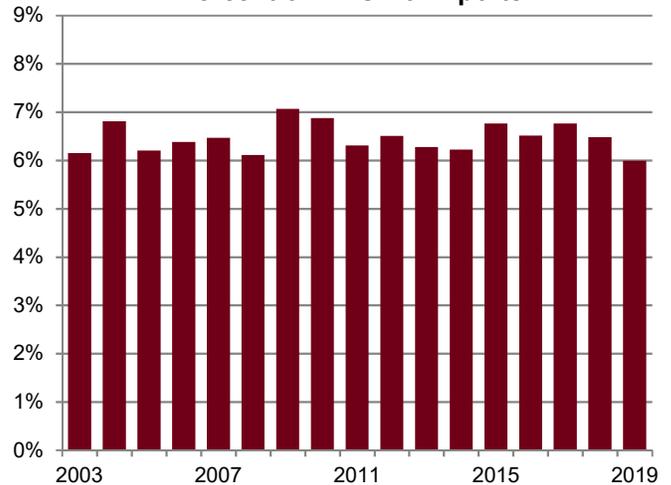
| Harmonized Tariff Schedule | | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|-------------------------------|--|------------------------|------------------------|------------------------|---------------------|
| TOTAL | | \$3,388,196,346 | \$3,525,184,077 | \$3,176,086,864 | -9.9% |
| 8536 | Apparatus for Switching (fuses, relays, plugs) | \$325,964,766 | \$346,415,985 | \$283,874,349 | -18.1% |
| 8509 | Electro-Mechanical Domestic Appliances | \$310,734,110 | \$306,320,029 | \$283,831,583 | -7.3% |
| 8517 | Apparatus for Telephony (wired or wireless) | \$112,528,503 | \$181,636,874 | \$214,932,702 | 18.3% |
| 8544 | Insulated Wire, Cable, Optical Fiber Cables | \$183,179,407 | \$200,382,324 | \$195,132,074 | -2.6% |
| 8537 | Boards, Panels, Consoles, Electrical Switches | \$248,639,202 | \$259,553,720 | \$178,200,928 | -31.3% |
| 8504 | Electrical Transformers, Converters, Inductors | \$194,528,843 | \$199,119,931 | \$176,457,197 | -11.4% |
| 8526 | Radar Appar./Radio Navig. Aid/Remote Control | \$137,233,445 | \$147,053,776 | \$141,974,437 | -3.5% |
| 8512 | Light Equip./Wipers/Defrosters for Vehicles | \$192,409,830 | \$180,235,819 | \$141,561,206 | -21.5% |
| 8529 | Parts for Television, Radio, Radar Apparatus | \$140,609,372 | \$113,649,680 | \$126,516,223 | 11.3% |
| 8507 | Electric Storage Batteries, Including Separators | \$107,961,154 | \$110,107,709 | \$116,503,258 | 5.8% |
| 8542 | Electronic Integrated Circuits; parts thereof | \$45,431,592 | \$69,605,475 | \$109,817,305 | 57.8% |
| 8515 | Electric, Laser or Other Light or Photon Beam | \$110,042,117 | \$105,360,920 | \$106,982,792 | 1.5% |
| 8528 | TV Receivers, Incl. Video Monitors & Projectors | \$26,028,727 | \$93,996,518 | \$100,057,125 | 6.4% |
| 8501 | Electric Motors And Generators | \$100,225,007 | \$102,596,632 | \$99,512,168 | -3.0% |
| 8543 | Elec. machines with Individual Functions Nesoi | \$142,516,961 | \$158,747,074 | \$91,764,151 | -42.2% |
| 8525 | Transceivers, etc; TV Cameras, Digital Cameras | \$136,400,464 | \$110,004,178 | \$89,954,179 | -18.2% |
| 8511 | Electric Ignition Equipment | \$90,487,791 | \$85,782,485 | \$78,066,187 | -9.0% |
| 8523 | Media For Recording Sound Etc. | \$51,877,882 | \$50,672,576 | \$63,623,412 | 25.6% |
| 8538 | Parts for Headings 8535, 8536 & 8537 | \$79,176,083 | \$60,705,005 | \$59,379,422 | -2.2% |
| Multi | Remaining commodities | \$652,221,090 | \$643,237,367 | \$517,946,166 | -19.5% |

Nesoi - Not elsewhere specified or indicated

Value of Electrical Machinery



Percent of All Ohio Exports



Top 5 Trading Partners - 2019

| | 2019 Value | Pct of Total |
|-------------|-----------------|-----------------|
| Total | \$3,176,086,864 | |
| Canada | \$1,087,978,686 | 34.3% |
| Mexico | \$625,464,969 | 19.7% |
| China | \$154,990,145 | 4.9% |
| Netherlands | \$140,023,410 | 4.4% |
| Belgium | \$108,218,252 | 3.4% |
| Others | \$1,059,411,402 | 33.4% |

Top 5 Trading Partners - 2017 to 2019

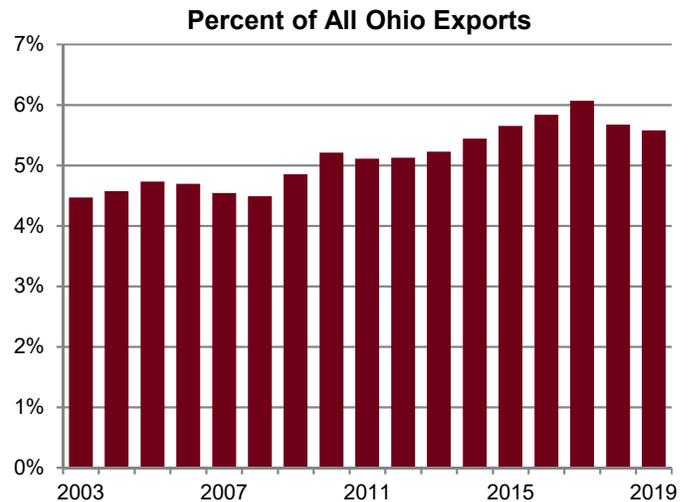
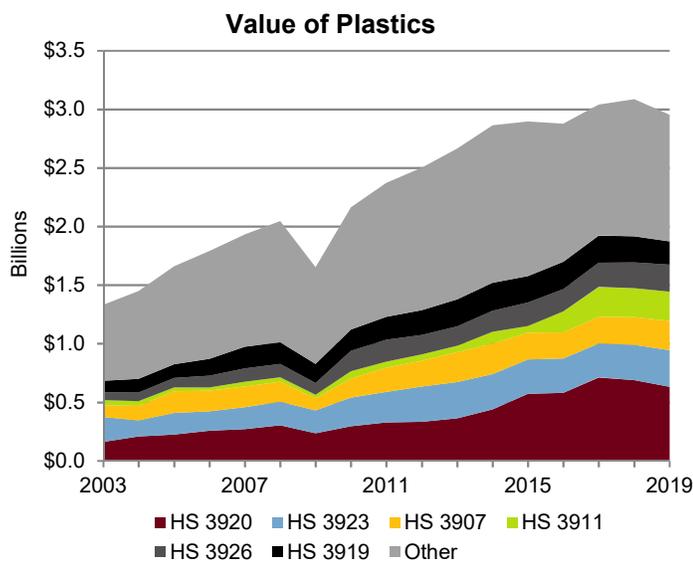
| | 2017 to 2019 Value | Pct of 3-yr Total |
|-------------|-----------------------|----------------------|
| Total | \$10,089,467,287 | |
| Canada | \$3,260,131,004 | 32.3% |
| Mexico | \$1,919,300,303 | 19.0% |
| China | \$587,279,853 | 5.8% |
| Netherlands | \$413,495,810 | 4.1% |
| Belgium | \$331,120,272 | 3.3% |
| Others | \$3,578,140,045 | 35.5% |

Plastics & Articles Thereof (HS 39) Exports



| Harmonized Tariff Schedule | | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|-------------------------------|--|------------------------|------------------------|------------------------|---------------------|
| TOTAL | | \$3,038,393,127 | \$3,085,954,934 | \$2,954,074,616 | -4.3% |
| 3920 | Plates, Sheets, Film Not Supported/Combined | \$712,986,623 | \$689,491,595 | \$633,275,281 | -8.2% |
| 3923 | Containers (Boxes, Bags Etc), Closurers | \$288,759,275 | \$301,639,772 | \$310,709,968 | 3.0% |
| 3907 | Polyethers/Expoxides/Polyesters in primary forms | \$227,611,739 | \$234,686,834 | \$250,078,433 | 6.6% |
| 3911 | Petro Resins, Polysulfides Nesoi in primary form | \$253,865,932 | \$246,967,018 | \$248,899,141 | 0.8% |
| 3926 | Articles Of Plastics (Inc Polymers & Resins) Nesoi | \$206,836,696 | \$221,000,520 | \$230,415,569 | 4.3% |
| 3919 | Self-Adhesive Plates, Sheets, Film Etc | \$233,398,662 | \$221,051,290 | \$198,485,801 | -10.2% |
| 3902 | Polymers Of Propylene/Olefins in primary form | \$146,059,728 | \$162,610,176 | \$149,620,828 | -8.0% |
| 3921 | Plates, Sheets, Film, Foil & Strip Nesoi | \$122,908,866 | \$137,813,837 | \$135,812,292 | -1.5% |
| 3903 | Polymers Of Styrene in primary form | \$128,136,936 | \$128,998,608 | \$133,352,508 | 3.4% |
| 3904 | Polymers Of Vinyl Chloride Etc. in primary form | \$90,238,082 | \$95,513,537 | \$98,608,345 | 3.2% |
| 3917 | Tubes, Pipes & Hoses & Their Fittings | \$87,663,035 | \$98,348,297 | \$94,940,583 | -3.5% |
| 3909 | Amino-Resins/Phenolics/Polyurethanes, prim form | \$127,028,334 | \$131,546,924 | \$94,621,160 | -28.1% |
| 3906 | Acrylic Polymers in primary form | \$76,921,917 | \$74,924,059 | \$64,714,337 | -13.6% |
| 3924 | Tableware & Other Household Articles Etc | \$61,729,338 | \$63,220,443 | \$57,187,673 | -9.5% |
| 3901 | Polymers Of Ethylene in primary form | \$64,036,209 | \$62,766,113 | \$54,167,526 | -13.7% |
| 3910 | Silicones in primary forms | \$39,212,523 | \$42,245,166 | \$41,477,910 | -1.8% |
| 3925 | Builders Ware (doors, shutters, blinds), Nesoi | \$37,655,567 | \$42,021,109 | \$39,957,666 | -4.9% |
| 3916 | Monofilament, Cross-Section >1mm, Rods, Sticks | \$25,508,687 | \$33,901,399 | \$38,640,628 | 14.0% |
| 3908 | Polyamides in primary form | \$36,500,960 | \$44,658,866 | \$36,167,759 | -19.0% |
| Multi | Remaining commodities | \$71,334,018 | \$52,549,371 | \$42,941,208 | -18.3% |

Nesoi - Not elsewhere specified or indicated



Top 5 Trading Partners - 2019

| | 2019 Value | Pct of Total |
|---------|-----------------|-----------------|
| Total | \$2,954,074,616 | |
| Canada | \$996,993,339 | 33.7% |
| Mexico | \$578,276,922 | 19.6% |
| China | \$341,100,195 | 11.5% |
| Belgium | \$154,595,971 | 5.2% |
| Taiwan | \$107,904,557 | 3.7% |
| Others | \$775,203,632 | 26.2% |

Top 5 Trading Partners - 2017 to 2019

| | 2017 to 2019 Value | Pct of 3-yr Total |
|---------|-----------------------|----------------------|
| Total | \$9,078,422,677 | |
| Canada | \$3,017,587,691 | 33.2% |
| Mexico | \$1,749,613,979 | 19.3% |
| China | \$1,133,641,501 | 12.5% |
| Belgium | \$425,445,611 | 4.7% |
| Taiwan | \$350,034,543 | 3.9% |
| Others | \$2,402,099,352 | 26.5% |

Optic, Photo; Medical Instruments (HS 90) Exports

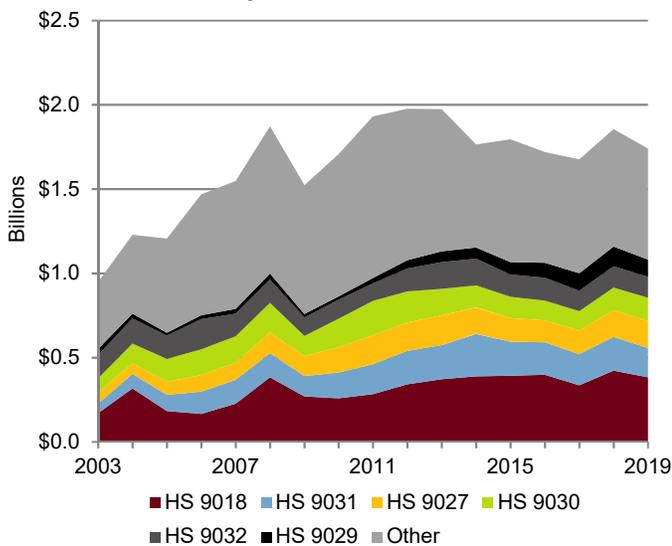


Harmonized
Tariff Schedule

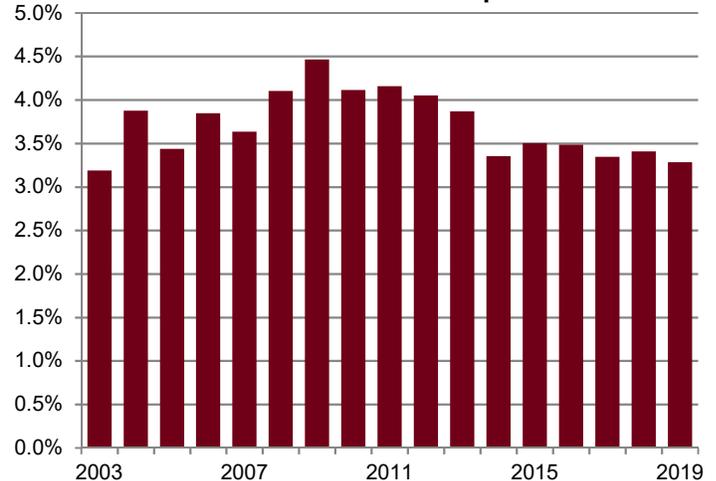
| | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$1,675,380,896 | \$1,854,571,180 | \$1,740,578,710 | -6.1% |
| 9018 Medical, Surgical, Dental or Vet Instruments | \$335,191,069 | \$422,868,934 | \$382,662,146 | -9.5% |
| 9031 Measuring or Checking Instruments Nesoi | \$184,629,278 | \$198,698,561 | \$174,341,027 | -12.3% |
| 9027 Instru./Apparatus for Physical/Chemical Analysis | \$139,509,503 | \$158,752,876 | \$160,502,798 | 1.1% |
| 9030 Oscilloscopes, Spectrum Analyzers etc | \$115,392,912 | \$134,484,540 | \$137,738,121 | 2.4% |
| 9032 Automatic Regulating or Control Instruments | \$120,859,125 | \$125,693,042 | \$123,242,676 | -1.9% |
| 9029 Revolution/Production Counters, Odometers etc | \$104,005,067 | \$118,946,033 | \$101,997,469 | -14.2% |
| 9001 Optic Fibers; Polarizing Sheets; Optic Elements | \$61,537,212 | \$70,706,190 | \$86,852,268 | 22.8% |
| 9022 X-Ray Etc Apparatus; Tubes, Panels, Screen etc | \$195,254,220 | \$120,795,224 | \$83,024,361 | -31.3% |
| 9026 Instruments for Measuring Liquids and Gases | \$89,674,315 | \$89,030,342 | \$80,710,466 | -9.3% |
| 9021 Orthopedic Appliances; Artificial Body Parts; etc | \$54,669,550 | \$96,605,471 | \$72,080,886 | -25.4% |
| 9015 Survey/Hydro./ Meteorological Instruments | \$63,334,816 | \$74,106,494 | \$71,555,330 | -3.4% |
| 9013 Liquid Crystal Devices Nesoi; Lasers | \$36,438,776 | \$44,979,427 | \$53,798,304 | 19.6% |
| 9004 Spectacles, Goggles etc, Corrective, Protective etc | \$6,919,505 | \$8,756,455 | \$34,039,015 | 288.7% |
| 9024 Machines for Testing Mechanical Properties | \$45,455,993 | \$39,737,878 | \$29,690,320 | -25.3% |
| 9033 Parts, Nesoi For Machines, Appliances, Instru. | \$11,205,733 | \$36,920,395 | \$29,039,158 | -21.3% |
| 9023 Instruments/Models for Demonstrational Use | \$22,298,465 | \$26,614,742 | \$28,375,120 | 6.6% |
| 9025 Hydrometers, Thermometers, Pyrometers etc | \$29,135,444 | \$28,824,292 | \$22,085,905 | -23.4% |
| 9019 Mechano-therapy & oth. respiration apparatus, etc | \$11,037,999 | \$18,286,854 | \$18,720,024 | 2.4% |
| Multi Remaining commodities | \$48,831,914 | \$39,763,430 | \$50,123,316 | 26.1% |

Nesoi - Not elsewhere specified or indicated

Value of Optic/Photo/Med. Instruments



Percent of All Ohio Exports



Top 5 Trading Partners - 2019

| | 2019 Value | Pct of Total |
|-------------|-----------------|-----------------|
| Total | \$1,740,578,710 | |
| Canada | \$298,899,031 | 17.2% |
| China | \$174,606,218 | 10.0% |
| Netherlands | \$130,205,940 | 7.5% |
| Mexico | \$123,458,067 | 7.1% |
| Germany | \$110,986,399 | 6.4% |
| Others | \$902,423,055 | 51.8% |

Top 5 Trading Partners - 2017 to 2019

| | 2017 to 2019 Value | Pct of 3-yr Total |
|-------------|-----------------------|----------------------|
| Total | \$5,270,530,786 | |
| Canada | \$877,413,664 | 16.6% |
| China | \$649,172,857 | 12.3% |
| Germany | \$428,645,788 | 8.1% |
| Mexico | \$344,442,835 | 6.5% |
| Netherlands | \$302,857,289 | 5.7% |
| Others | \$2,667,998,353 | 50.6% |

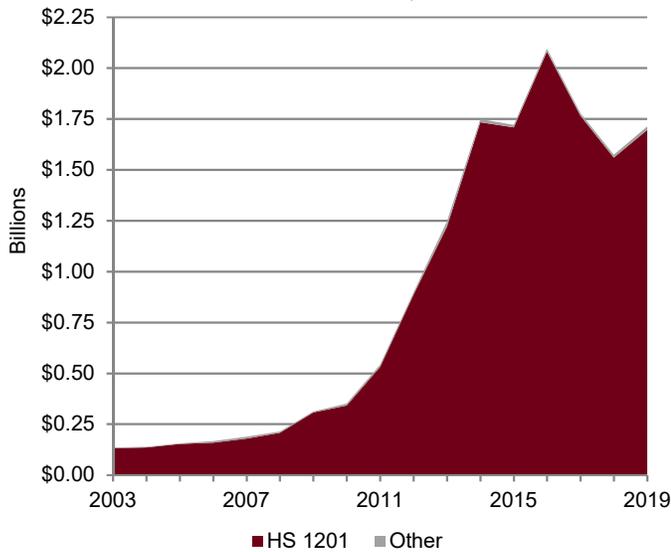
Oil Seed, Misc. Grain, Fruit (HS 12) Exports



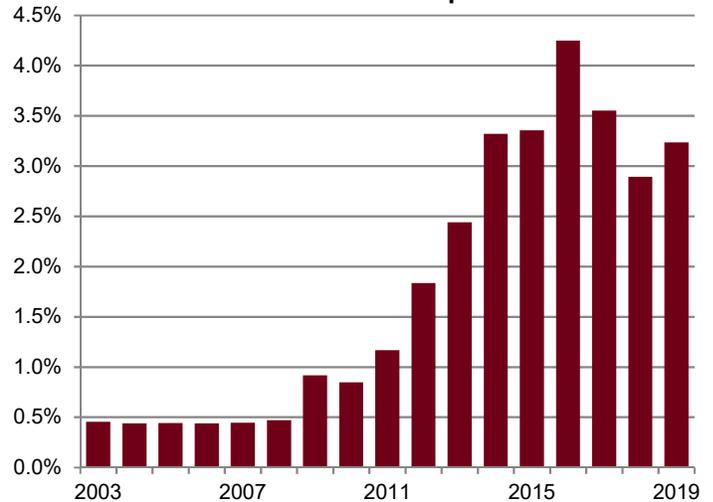
Harmonized
Tariff Schedule

| | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$1,778,671,033 | \$1,573,023,414 | \$1,713,487,512 | 8.9% |
| 1201 Soybeans, Whether Or Not Broken | \$1,766,068,185 | \$1,559,286,054 | \$1,695,978,991 | 8.8% |
| 1208 Flour & Meal Of Oil Seed (no mustard seed) | \$3,426,094 | \$5,976,729 | \$9,768,194 | 63.4% |
| 1209 Seeds, Fruit And Spores, For Sowing | \$4,694,155 | \$4,717,366 | \$4,108,985 | -12.9% |
| 1211 Plants etc for Pharmacy, Perfume, Insecticides | \$3,556,032 | \$2,180,036 | \$2,381,622 | 9.2% |
| 1205 Rape or Colza Seeds, Whether or Not Broken | \$73,662 | \$0 | \$703,504 | n.a. |
| 1214 Rutabagas, Hay, Clover & Other Forage Products | \$400,206 | \$338,237 | \$225,100 | -33.4% |
| 1210 Hop Cones, Fresh or Dried; Lupulin | \$155,975 | \$176,342 | \$124,071 | -29.6% |
| 1202 Peanuts (Ground-Nuts), Raw | \$0 | \$38,720 | \$77,991 | 101.4% |
| 1206 Sunflower Seeds, Whether or Not Broken | \$70,158 | \$76,516 | \$59,308 | -22.5% |
| 1212 Locust Beans, Sugar Beet; Fruit Pits Etc. | \$50,829 | \$64,816 | \$38,861 | -40.0% |
| 1204 Flaxseed (Linseed), Whether or Not Broken | \$9,498 | \$16,326 | \$18,375 | 12.6% |
| 1207 Oil Seeds & Oleaginous Fruits Nesoi, Broken/Not | \$166,239 | \$152,272 | \$2,510 | -98.4% |
| 1213 Cereal Straw & Husks Unprepared | \$0 | \$0 | \$0 | n.a. |

Value of Oil Seeds, etc.



Percent of All Ohio Exports



Top 5 Trading Partners - 2019

| | 2019 Value | Pct of Total |
|------------|-----------------|-----------------|
| Total | \$1,713,487,512 | |
| China | \$582,722,939 | 34.0% |
| Egypt | \$227,478,749 | 13.3% |
| Mexico | \$214,657,915 | 12.5% |
| Thailand | \$107,531,807 | 6.3% |
| Bangladesh | \$86,235,011 | 5.0% |
| Others | \$494,861,091 | 28.9% |

Top 5 Trading Partners - 2017 to 2019

| | 2017 to 2019 Value | Pct of 3-yr Total |
|------------|-----------------------|----------------------|
| Total | \$5,065,181,959 | |
| China | \$1,355,581,975 | 26.8% |
| Mexico | \$909,576,560 | 18.0% |
| Bangladesh | \$353,884,762 | 7.0% |
| Egypt | \$336,979,596 | 6.7% |
| Thailand | \$321,581,247 | 6.3% |
| Others | \$1,787,577,819 | 35.3% |

Cosmetics, Perfumery, Essential Oils (HS 33) Exports

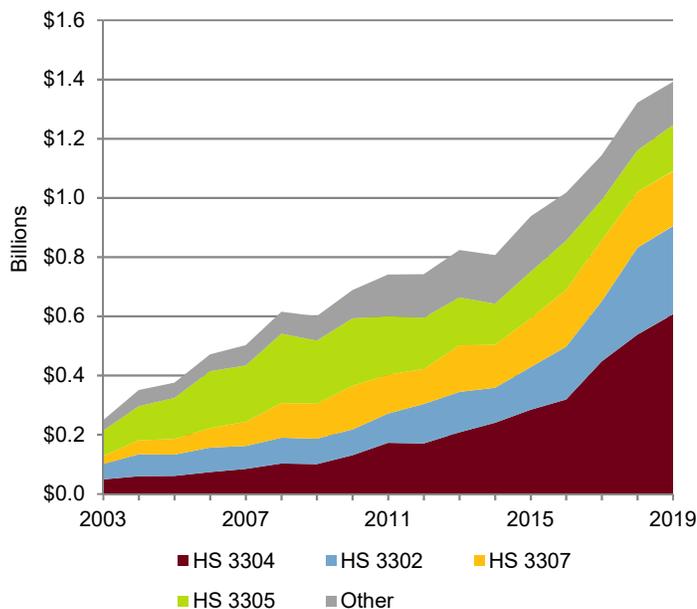


Harmonized
Tariff Schedule

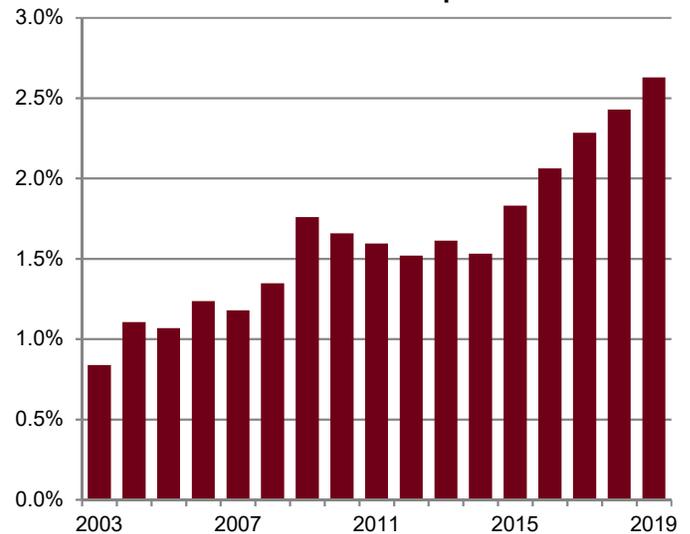
| | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$1,144,006,892 | \$1,320,946,742 | \$1,392,523,293 | 5.4% |
| 3304 Beauty, Make-Up & Skin-Care Preparations | \$447,370,402 | \$538,233,356 | \$607,125,231 | 12.8% |
| 3302 Odoriferous Mixtures; Industry & Beverage Mfg | \$203,263,592 | \$292,887,551 | \$298,051,904 | 1.8% |
| 3307 Shaving/Bath Preparations; Toilet Preps Nesoi | \$205,951,740 | \$188,889,290 | \$184,865,548 | -2.1% |
| 3305 Preparations For Use On The Hair | \$135,673,685 | \$139,752,775 | \$155,952,049 | 11.6% |
| 3306 Preparations, Oral Dental Hygiene; Dental Floss | \$74,372,336 | \$65,317,794 | \$76,734,713 | 17.5% |
| 3303 Perfumes And Toilet Waters | \$65,999,457 | \$68,299,446 | \$40,943,376 | -40.1% |
| 3301 Essential Oils, Resinoids | \$11,375,680 | \$27,566,530 | \$28,850,472 | 4.7% |

Nesoi - Not elsewhere specified or indicated

Value of Cosmetic Products



Percent of All Ohio Exports



Top 5 Trading Partners - 2019

| | 2019 Value | Pct of Total |
|-----------|-----------------|-----------------|
| Total | \$1,392,523,293 | |
| Canada | \$466,601,604 | 33.5% |
| Singapore | \$137,815,364 | 9.9% |
| France | \$112,381,487 | 8.1% |
| Mexico | \$79,563,993 | 5.7% |
| U. A. E. | \$61,505,231 | 4.4% |
| Others | \$534,655,614 | 38.4% |

Top 5 Trading Partners - 2017 to 2019

| | 2017 to 2019 Value | Pct of 3-yr Total |
|-----------|-----------------------|----------------------|
| Total | \$3,857,476,927 | |
| Canada | \$1,315,840,173 | 34.1% |
| Singapore | \$283,869,368 | 7.4% |
| France | \$188,675,821 | 4.9% |
| Mexico | \$234,735,796 | 6.1% |
| U. A. E. | \$185,506,272 | 4.8% |
| Others | \$1,648,849,497 | 42.7% |

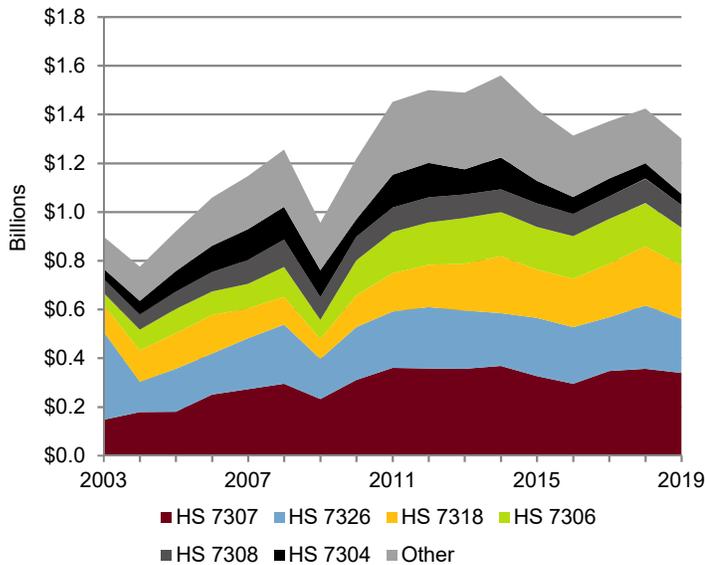
Iron And Steel Products (HS 73) Exports



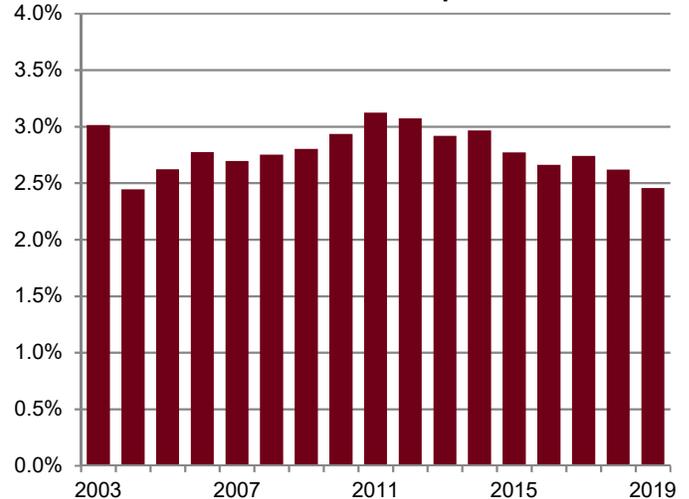
| Harmonized Tariff Schedule | | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|-------------------------------|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | | \$1,372,321,676 | \$1,424,561,081 | \$1,301,209,289 | -8.7% |
| 7307 | Tube Or Pipe Fittings | \$346,603,913 | \$356,491,747 | \$339,375,753 | -4.8% |
| 7326 | Articles Of Iron Or Steel, Nesoi | \$220,691,784 | \$259,987,140 | \$221,825,116 | -14.7% |
| 7318 | Screws, Bolts, Nuts, Washers Etc | \$219,063,966 | \$242,819,734 | \$219,130,672 | -9.8% |
| 7306 | Tubes, Pipes & Hollow Profiles Nesoi | \$184,136,004 | \$176,676,305 | \$154,819,091 | -12.4% |
| 7308 | Structures Nesoi & Parts Thereof | \$93,452,360 | \$100,407,089 | \$92,676,106 | -7.7% |
| 7304 | Tubes, Pipes Etc, Seamless | \$72,526,785 | \$63,333,807 | \$46,012,492 | -27.3% |
| 7311 | Containers for Compressed Liquefied Gas | \$49,201,303 | \$42,365,105 | \$45,441,796 | 7.3% |
| 7310 | Tanks Etc, <= 300 Liter Capacity | \$31,062,606 | \$40,551,208 | \$40,692,902 | 0.3% |
| 7320 | Springs & Leaves For Springs | \$54,616,306 | \$38,893,747 | \$29,391,783 | -24.4% |
| 7325 | Cast Articles Nesoi | \$11,235,549 | \$11,976,305 | \$15,461,267 | 29.1% |
| 7303 | Tubes, Pipes And Hollow Profiles Of Cast Iron | \$14,427,762 | \$11,612,611 | \$11,763,236 | 1.3% |
| 7315 | Chain & Parts | \$11,549,189 | \$12,015,086 | \$11,155,394 | -7.2% |
| 7323 | Table, Kitchen, Household Articles | \$8,245,599 | \$12,093,716 | \$10,223,759 | -15.5% |
| 7324 | Sanitary Ware (sinks/baths) & Parts | \$7,007,755 | \$8,779,294 | \$9,578,879 | 9.1% |
| 7302 | Railway Track Construction Material, Iron & Steel | \$3,932,289 | \$6,375,694 | \$9,030,932 | 41.6% |
| 7312 | Stranded Wire, Ropes Etc, Not Elec. Insulated | \$9,288,840 | \$9,423,462 | \$8,123,055 | -13.8% |
| 7309 | Tanks Etc, Over 300 Liter Capacity | \$5,334,760 | \$4,525,411 | \$7,061,984 | 56.1% |
| 7314 | Cloth, Grill, Netting, Fencing, Etc; Of Iron Or Steel | \$4,713,533 | \$6,998,076 | \$6,405,467 | -8.5% |
| 7301 | Sheet Piling, Welded Angles Etc | \$12,065,583 | \$3,384,587 | \$6,067,601 | 79.3% |
| Multi | Remaining commodities | \$13,165,790 | \$15,850,957 | \$16,972,004 | 7.1% |

Nesoi - Not elsewhere specified or indicated

Value of Iron/Steel Products



Percent of All Ohio Exports



Top 5 Trading Partners - 2019

| | 2019 Value | Pct of Total |
|-------------|-----------------|-----------------|
| Total | \$1,301,209,289 | |
| Canada | \$514,941,917 | 39.6% |
| Mexico | \$294,507,250 | 22.6% |
| Netherlands | \$66,964,099 | 5.1% |
| Japan | \$57,170,720 | 4.4% |
| China | \$57,084,962 | 4.4% |
| Others | \$310,540,341 | 23.9% |

Top 5 Trading Partners - 2017 to 2019

| | 2017 to 2019 Value | Pct of 3-yr Total |
|-------------|-----------------------|----------------------|
| Total | \$4,098,092,046 | |
| Canada | \$1,644,634,615 | 40.1% |
| Mexico | \$910,619,051 | 22.2% |
| Japan | \$196,694,191 | 4.8% |
| China | \$184,085,280 | 4.5% |
| Netherlands | \$131,391,824 | 3.2% |
| Others | \$1,030,667,085 | 25.1% |

Chemical Products (HS 38) Exports

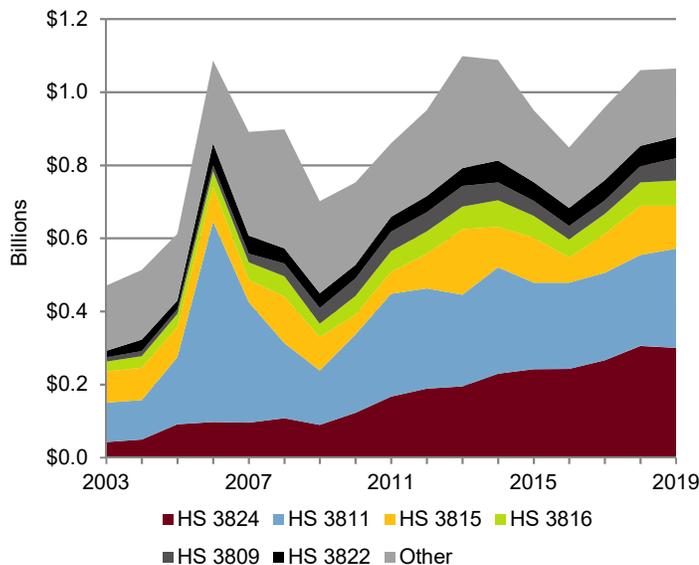


Harmonized
Tariff Schedule

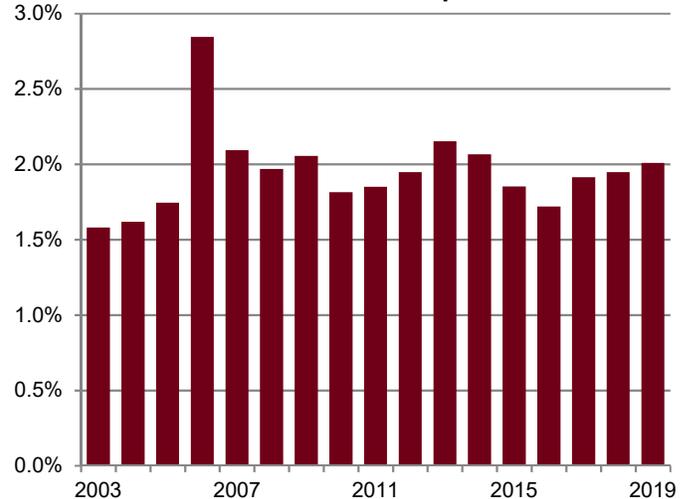
| | | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|--------------|--|----------------------|------------------------|------------------------|---------------------|
| TOTAL | | \$958,186,441 | \$1,059,923,954 | \$1,064,158,786 | 0.4% |
| 3824 | Binders for Foundry Molds; Chemical Prod. Nesoi | \$266,124,249 | \$306,083,589 | \$300,505,079 | -1.8% |
| 3811 | Antiknock Preps./Oth. Additives for Mineral Oils | \$239,600,249 | \$247,919,333 | \$271,545,330 | 9.5% |
| 3815 | Reaction Initiators/Accelerators/Catalysts Nesoi | \$106,145,796 | \$134,864,068 | \$116,848,312 | -13.4% |
| 3816 | Refractory Cements, Mortars, Concretes Nesoi | \$54,680,552 | \$64,160,913 | \$68,991,473 | 7.5% |
| 3809 | Finishing Agents for Textiles, Paper etc Nesoi | \$36,656,598 | \$44,057,838 | \$61,012,318 | 38.5% |
| 3822 | Comp. Diagnostic/Lab Reagents, Excl. Pharma. | \$55,120,385 | \$56,019,236 | \$57,885,838 | 3.3% |
| 3812 | Prepared Rubber Accelerators; Plasticizers etc | \$38,642,352 | \$39,975,194 | \$41,109,486 | 2.8% |
| 3810 | Pickling Preps For Metal; Soldering etc | \$36,396,521 | \$37,289,258 | \$40,835,316 | 9.5% |
| 3808 | Insecticides, Rodenticides; Fungicides etc, Retail | \$30,939,185 | \$37,809,096 | \$38,023,295 | 0.6% |
| 3823 | Ind. Monocarboxylic Fatty Acids; Acid Oil, etc | \$32,076,041 | \$33,350,485 | \$24,187,685 | -27.5% |
| 3801 | Artificial Graphite; Collodial Graphite etc | \$43,345,700 | \$34,748,422 | \$21,968,687 | -36.8% |
| 3802 | Activated Carbon Etc.; Animal Black | \$5,319,161 | \$7,636,810 | \$5,584,616 | -26.9% |
| 3814 | Organic Composite Solvents & Thinners, Nesoi | \$3,168,761 | \$3,388,420 | \$4,709,868 | 39.0% |
| 3820 | Antifreezing Preparations & Deicing Fluids | \$1,851,041 | \$2,439,189 | \$2,687,362 | 10.2% |
| 3826 | Biodiesel & Mixes Contain <70% Petrol Oils Etc | \$1,230,463 | \$2,979,360 | \$2,472,671 | -17.0% |
| 3819 | Hydraulic Brake Fluids/Transmission Liquids | \$2,213,212 | \$2,372,385 | \$1,913,094 | -19.4% |
| 3821 | Prep. Culture Media for Devel. Microorganisms | \$1,172,728 | \$1,333,426 | \$1,116,372 | -16.3% |
| 3807 | Wood Tar, Vegetable Pitch etc & Similar Preps. | \$292,389 | \$722,124 | \$785,685 | 8.8% |
| 3806 | Rosin & Resin Acids etc; Rosin Spirit; Run Gums | \$560,234 | \$616,031 | \$645,660 | 4.8% |
| Multi | Remaining commodities | \$2,650,824 | \$2,158,777 | \$1,330,639 | -38.4% |

Nesoi - Not elsewhere specified or indicated

Value of Chemical Products



Percent of All Ohio Exports



Top 5 Trading Partners - 2019

| | 2019 Value | Pct of Total |
|--------|-----------------|-----------------|
| Total | \$1,064,158,786 | |
| Canada | \$268,571,081 | 25.2% |
| Mexico | \$145,933,936 | 13.7% |
| China | \$99,859,378 | 9.4% |
| France | \$68,803,080 | 6.5% |
| Japan | \$50,776,900 | 4.8% |
| Others | \$430,214,411 | 40.4% |

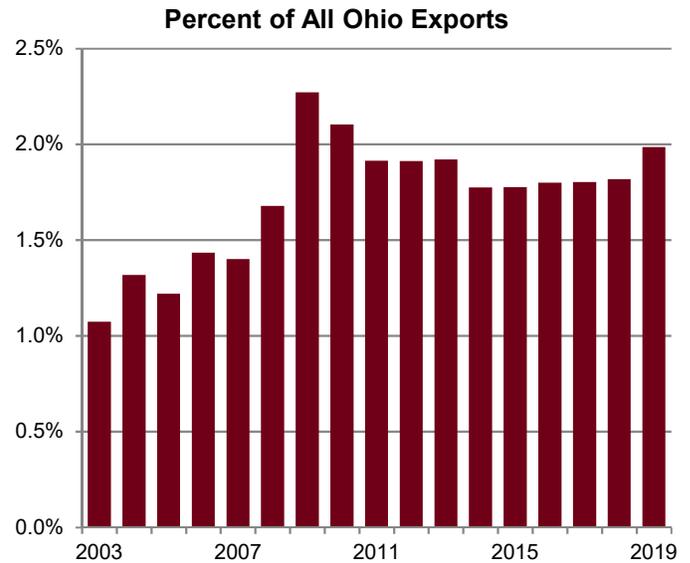
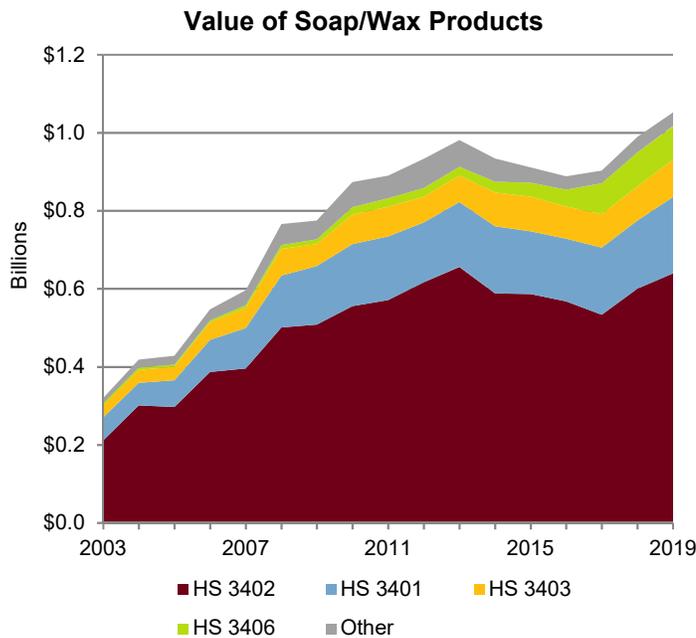
Top 5 Trading Partners - 2017 to 2019

| | 2017 to 2019 Value | Pct of 3-yr Total |
|--------|-----------------------|----------------------|
| Total | \$3,082,269,181 | |
| Canada | \$728,913,607 | 23.6% |
| Mexico | \$411,172,218 | 13.3% |
| China | \$380,722,155 | 12.4% |
| France | \$195,013,236 | 6.3% |
| Korea | \$163,207,189 | 5.3% |
| Others | \$1,203,240,776 | 39.0% |

Soap, Waxes, Lubricating Preparations, Etc (HS 34) Exports



| Harmonized Tariff Schedule | | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|-------------------------------|--|----------------------|----------------------|------------------------|---------------------|
| TOTAL | | \$902,579,455 | \$988,989,714 | \$1,052,181,486 | 6.4% |
| 3402 | Organic Surface-Active Agents, Cleaning Preps. | \$533,394,898 | \$600,075,878 | \$639,539,980 | 6.6% |
| 3401 | Soap | \$172,420,201 | \$174,531,271 | \$195,840,792 | 12.2% |
| 3403 | Lubricating Preparations | \$85,542,522 | \$87,849,917 | \$95,259,876 | 8.4% |
| 3406 | Candles, Tapers And The Like | \$78,475,538 | \$87,032,635 | \$86,034,657 | -1.1% |
| 3405 | Polishes & Creams For Leather, Wood etc | \$20,199,183 | \$23,386,253 | \$20,239,880 | -13.5% |
| 3404 | Artificial and Prepared Waxes | \$10,947,738 | \$14,210,224 | \$13,921,732 | -2.0% |
| 3407 | Modeling Pastes For Children, Dental Waxes | \$1,599,375 | \$1,903,536 | \$1,344,569 | -29.4% |



Top 5 Trading Partners - 2019

| | 2019 Value | Pct of Total |
|-------------|-----------------|-----------------|
| Total | \$1,052,181,486 | |
| Canada | \$685,707,619 | 65.2% |
| Mexico | \$86,723,351 | 8.2% |
| U. A. E. | \$40,844,767 | 3.9% |
| China | \$38,105,830 | 3.6% |
| Netherlands | \$27,734,554 | 2.6% |
| Others | \$173,065,365 | 16.4% |

Top 5 Trading Partners - 2017 to 2019

| | 2017 to 2019 Value | Pct of 3-yr Total |
|-------------|-----------------------|----------------------|
| Total | \$2,943,750,655 | |
| Canada | \$1,899,546,357 | 64.5% |
| Mexico | \$245,926,123 | 8.4% |
| China | \$112,256,839 | 3.8% |
| U. A. E. | \$102,078,704 | 3.5% |
| Netherlands | \$84,488,426 | 2.9% |
| Others | \$499,454,206 | 17.0% |

Employment and Businesses Related to Exports



Goods exported from Ohio supported an estimated 249,000 jobs in 2016. Ninety-one percent of these jobs were supported by manufactured goods exports.

A total of 16,046 companies exported from Ohio in 2015. Of those, 14,237 (89 percent) were small and medium-sized enterprises with fewer than 500 employees.

Small and medium-sized firms generated nearly one-quarter of Ohio's total exports of merchandise in 2015.

Source: International Trade Administration and Bureau of the Census, U.S. Department of Commerce; <http://www.trade.gov/mas/ian/statereports/>

Leading Ohio Export Products and Their Leading Ohio Manufacturers



Commodity

Major Manufacturers

Transportation Products

Aircraft engines
Auto engines
Auto wheels
Auto A/C heating
Auto brakes
Auto shock absorbers
Tires
Additives

General Electric
Honda, General Motors, Ford
Alcoa, Kosei St Marys
Behr, Showa Aluminum, Valeo
Nissin Brake, ADVICS
Tenneco, Keihin Thermal, ThyssenKrupp
Cooper Tire and Rubber
Lubrizol

Household Products

Washing machines
Dryers
Dishwashers
Food processors
Detergent
Soap
Paint & varnish

Whirlpool
Whirlpool
Whirlpool
Whirlpool
Procter & Gamble, Colgate-Palmolive
St Bernard Soap, GOJO Industries
Sherwin-Williams, PPG/Glidden, RPM

Metal Products

Steel bar and rod
Roller bearings
Pipe fittings

Republic Engineered Products, Charter Steel
Timken
Swagelock, Parker Hannifin

Machinery

ATMs
Machine tools, forging
Welding equipment
X ray equipment

Diebold
Minster Machine, Cincinnati Inc
Lincoln Electric, ITW Hobart
Philips

Glass

Safety glass
Fiberglass
Glassware

PPG, Guardian, Pilkington, AGC Automotive
Owens Corning, Johns Manville
Libbey, Anchor Hocking

Food

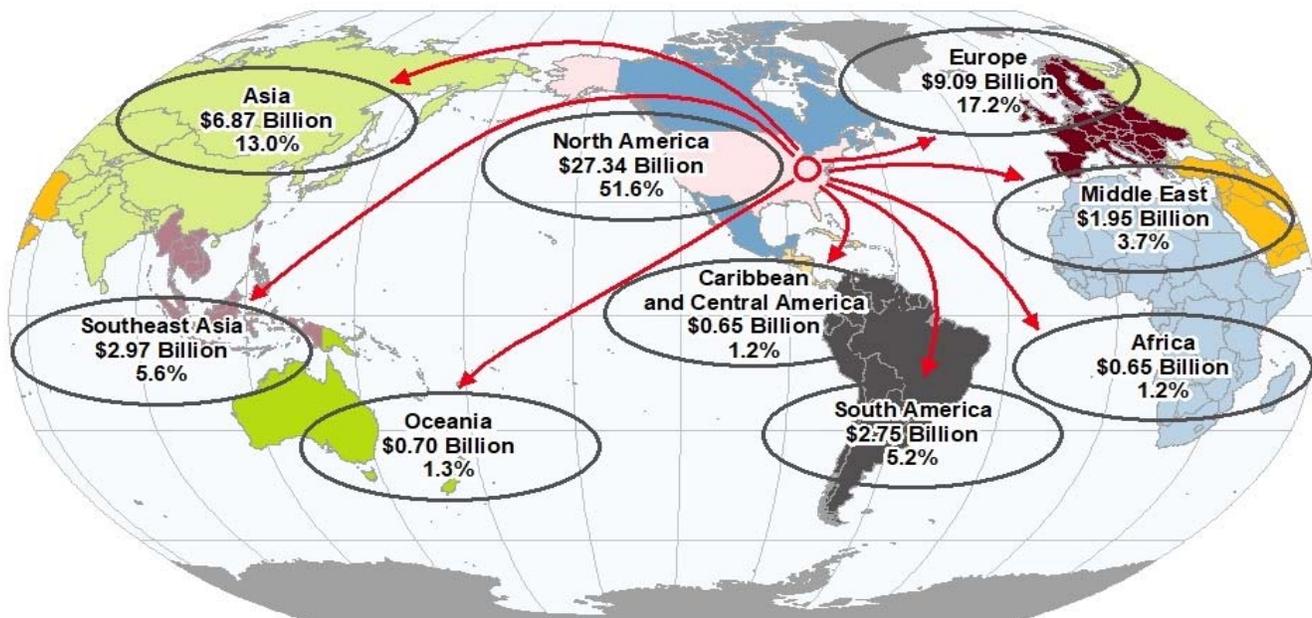
Baked goods
Jams and jellies

Pepperidge Farm
JM Smucker

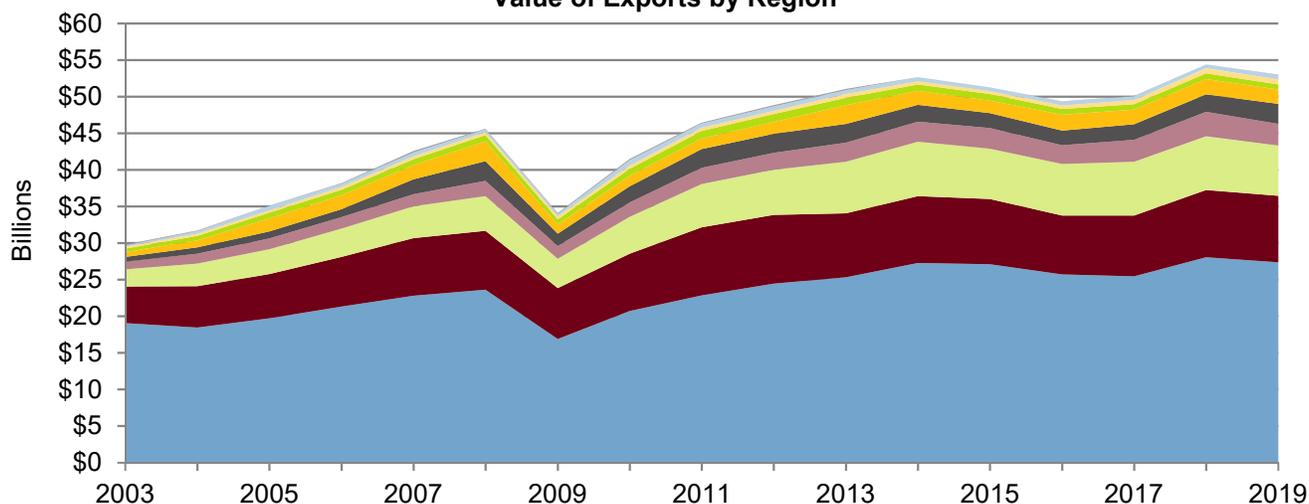
This list is derived from self-disclosure of the companies through news media. Neither the federal or state government maintains public databases of individual companies and their export values or destinations.

Ohio Exports

Regional Destinations: 2019



Value of Exports by Region



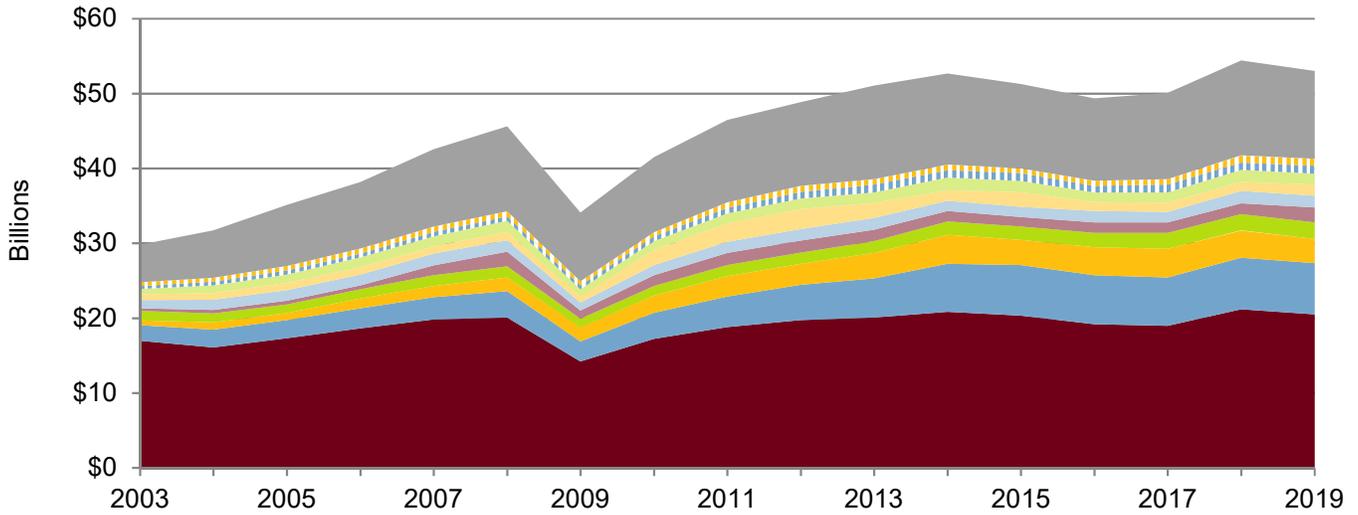
| | 2017 | 2018 | 2019 | % of 2019 Exports | % Chng. 18 to 19 |
|---------------------------|------------------|------------------|------------------|-------------------|------------------|
| North America | \$25,441,968,031 | \$28,059,858,490 | \$27,355,020,040 | 51.6% | -2.5% |
| Europe | \$8,293,656,313 | \$9,204,446,464 | \$9,088,094,895 | 17.2% | -1.3% |
| Asia | \$7,375,031,547 | \$7,304,911,441 | \$6,866,409,867 | 13.0% | -6.0% |
| Southeast Asia | \$2,963,368,021 | \$3,359,455,210 | \$2,967,335,138 | 5.6% | -11.7% |
| South America | \$2,135,811,739 | \$2,383,371,310 | \$2,748,311,945 | 5.2% | 15.3% |
| Middle East | \$2,033,085,016 | \$2,090,347,982 | \$1,948,951,469 | 3.7% | -6.8% |
| Oceania | \$729,280,546 | \$788,947,244 | \$703,052,126 | 1.3% | -10.9% |
| Caribbean/Central America | \$560,783,814 | \$673,976,261 | \$654,372,055 | 1.2% | -2.9% |
| Africa | \$531,338,351 | \$533,067,751 | \$646,571,120 | 1.2% | 21.3% |
| Unidentified/Other | \$5,617,942 | \$5,446,996 | \$9,109,204 | 0.0% | 67.2% |

Ohio Export Destinations

Top 10 Destinations: 2019

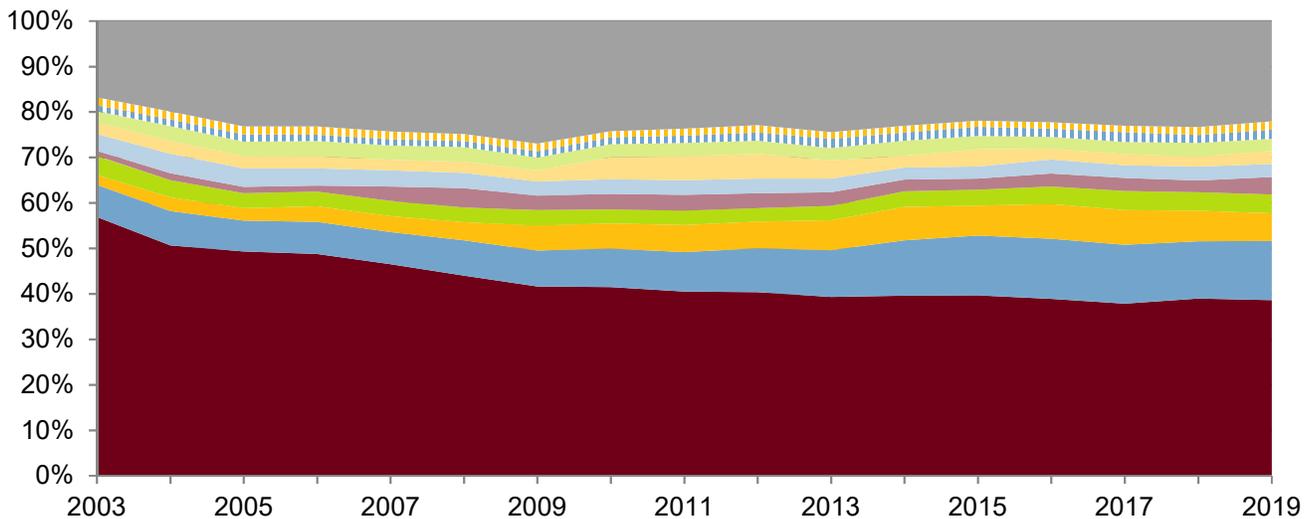


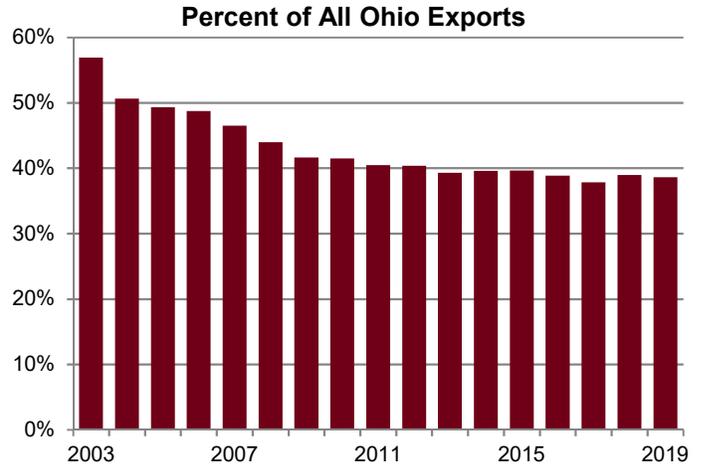
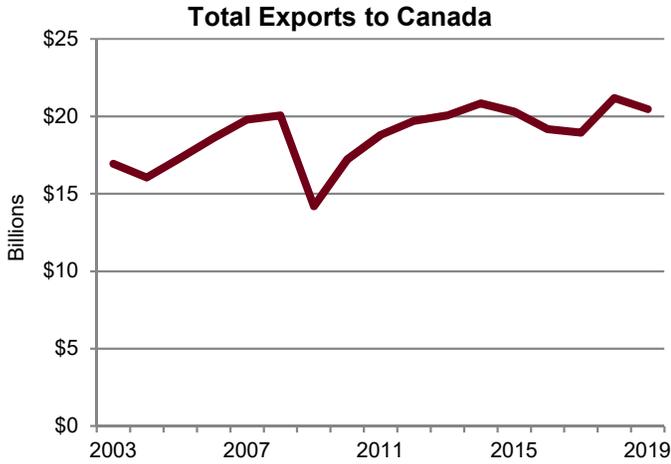
Value of Exports



| Destination | 2019 Value | % of All Exports | % Change 18 to 19 |
|----------------|------------------|------------------|-------------------|
| Canada | \$20,468,697,173 | 38.6% | -3.4% |
| Mexico | \$6,882,555,712 | 13.0% | 0.2% |
| China | \$3,217,141,492 | 6.1% | -11.5% |
| United Kingdom | \$2,198,366,739 | 4.1% | 0.0% |
| Brazil | \$2,021,182,992 | 3.8% | 41.3% |
| Japan | \$1,549,016,362 | 2.9% | -7.3% |
| France | \$1,489,849,343 | 2.8% | 26.2% |
| Germany | \$1,441,365,464 | 2.7% | -11.0% |
| Korea | \$1,072,229,138 | 2.0% | 10.4% |
| Netherlands | \$940,562,599 | 1.8% | -2.3% |
| Remainder | \$11,706,260,845 | 22.1% | -7.7% |

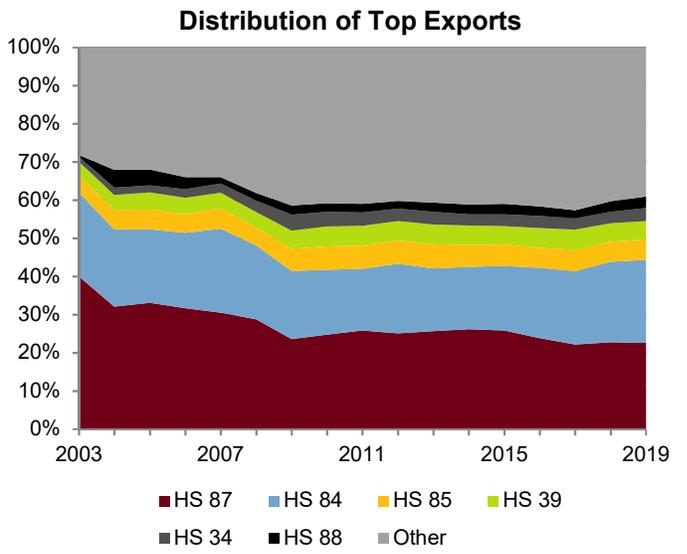
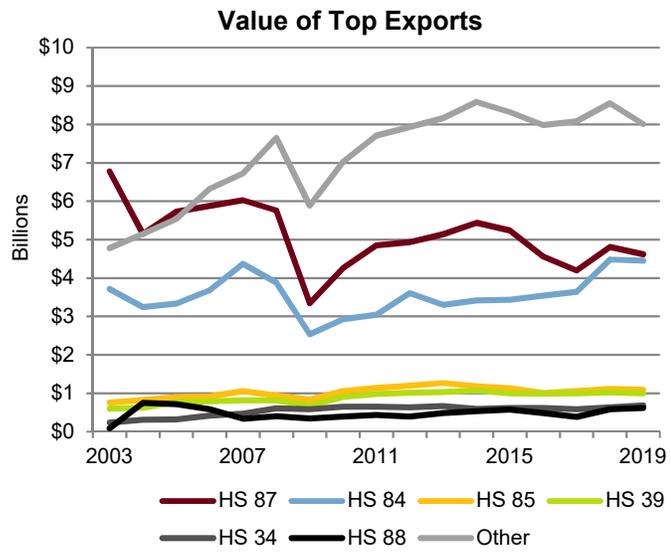
Distribution of Exports



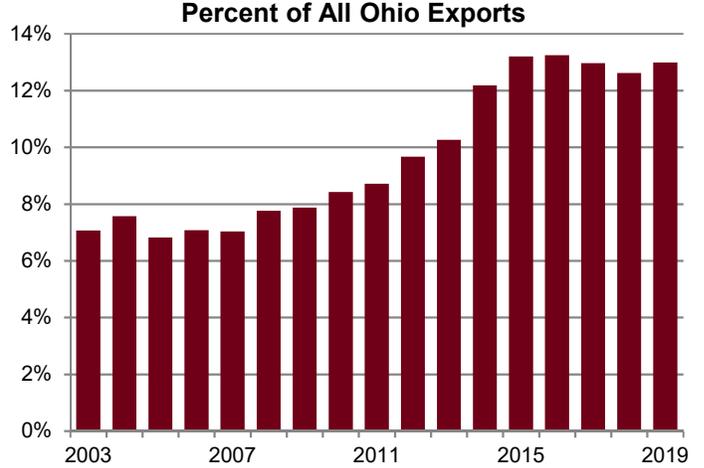
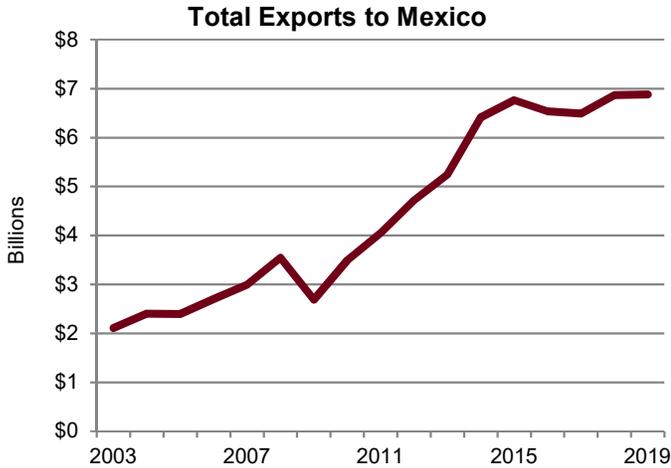


| Harmonized Tariff Schedule | | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|-------------------------------|---|-------------------------|-------------------------|-------------------------|---------------------|
| | TOTAL | \$18,947,979,366 | \$21,188,675,655 | \$20,468,697,173 | -3.4% |
| 87 | Vehicles and Parts | \$4,198,921,982 | \$4,807,513,351 | \$4,621,565,034 | -3.9% |
| 84 | Industrial Machinery, Including Computers | \$3,643,580,766 | \$4,482,338,369 | \$4,455,076,234 | -0.6% |
| 85 | Electric Machinery; Sound Equip.; TV Equip. | \$1,057,427,428 | \$1,114,724,890 | \$1,087,978,686 | -2.4% |
| 39 | Plastics and Articles Thereof | \$1,000,796,179 | \$1,019,798,173 | \$996,993,339 | -2.2% |
| 34 | Soap, Waxes, Lubricating Preparations, etc | \$582,242,378 | \$631,596,360 | \$685,707,619 | 8.6% |
| 88 | Aircraft; Spacecraft and Parts | \$384,556,831 | \$581,730,920 | \$616,882,083 | 6.0% |
| 24 | Tobacco and Manufactured Substitutes | \$611,188,552 | \$753,986,805 | \$556,676,392 | -26.2% |
| 72 | Iron and Steel | \$761,311,742 | \$675,502,368 | \$526,594,545 | -22.0% |
| 73 | Iron and Steel Products | \$543,254,734 | \$586,437,964 | \$514,941,917 | -12.2% |
| 33 | Perfumery, Cosmetic, etc | \$412,320,018 | \$436,918,551 | \$466,601,604 | 6.8% |
| 40 | Rubber and Articles Thereof | \$547,711,901 | \$587,267,819 | \$465,729,653 | -20.7% |
| 27 | Mineral Fuel, Oil, etc | \$326,903,694 | \$321,674,085 | \$446,214,142 | 38.7% |
| 48 | Paper, Paperboard, Articles of Paper Pulp | \$363,337,923 | \$364,502,623 | \$368,425,372 | 1.1% |
| 90 | Optic, Photo; Medical Instruments | \$287,422,336 | \$291,092,297 | \$298,899,031 | 2.7% |
| 94 | Furniture and Bedding | \$357,784,120 | \$291,212,164 | \$281,495,750 | -3.3% |
| Multi | Remaining commodities | \$3,869,218,782 | \$4,242,378,916 | \$4,078,915,772 | -3.9% |

Neso - Not elsewhere specified or indicated

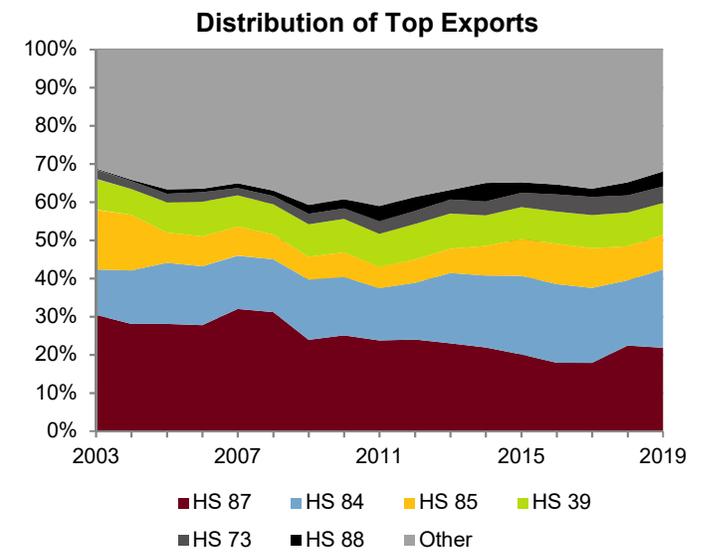
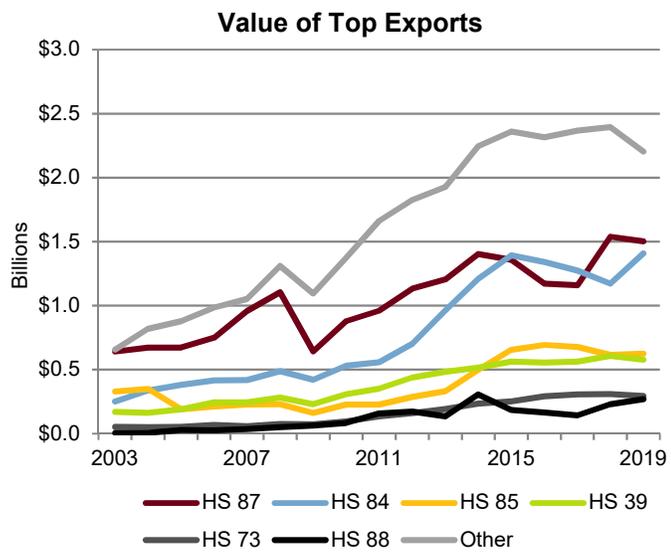


Exports to Mexico

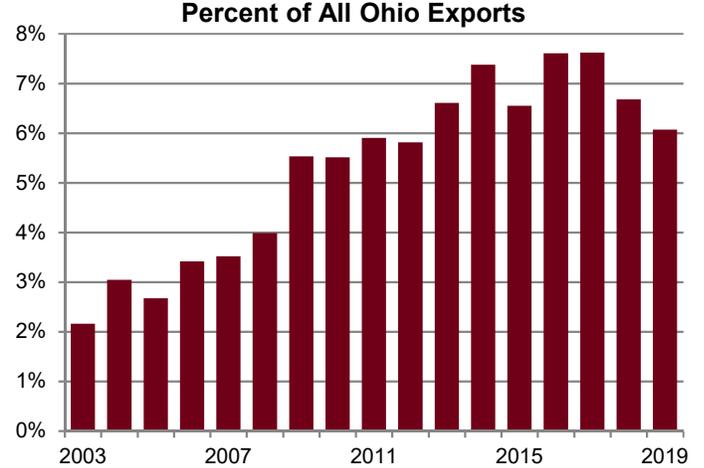
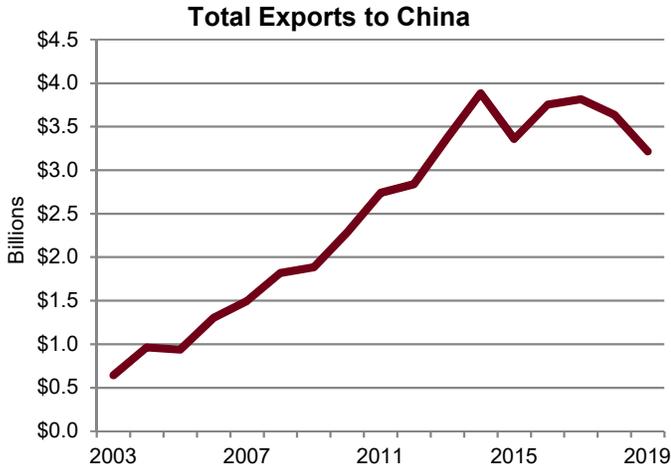


| Harmonized Tariff Schedule | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$6,490,735,202 | \$6,868,043,689 | \$6,882,555,712 | 0.2% |
| 87 Vehicles and Parts | \$1,159,061,095 | \$1,538,735,120 | \$1,502,620,234 | -2.3% |
| 84 Industrial Machinery, Including Computers | \$1,273,291,644 | \$1,171,000,230 | \$1,408,673,946 | 20.3% |
| 85 Electric Machinery; Sound Equip.; TV Equip. | \$678,486,653 | \$615,348,681 | \$625,464,969 | 1.6% |
| 39 Plastics and Articles Thereof | \$563,373,424 | \$607,963,633 | \$578,276,922 | -4.9% |
| 73 Iron and Steel Products | \$305,968,926 | \$310,142,875 | \$294,507,250 | -5.0% |
| 88 Aircraft; Spacecraft and Parts | \$142,452,669 | \$230,227,254 | \$270,804,696 | 17.6% |
| 40 Rubber and Articles Thereof | \$326,325,299 | \$271,207,887 | \$241,358,714 | -11.0% |
| 72 Iron and Steel | \$210,785,002 | \$238,327,924 | \$215,927,938 | -9.4% |
| 12 Oil Seed, Miscellaneous Grain | \$333,639,263 | \$361,279,382 | \$214,657,915 | -40.6% |
| 32 Tanning, Dye, Paint, Putty | \$174,900,622 | \$165,771,301 | \$210,828,389 | 27.2% |
| 38 Miscellaneous Chemical Products | \$128,899,541 | \$136,338,741 | \$145,933,936 | 7.0% |
| 90 Optic, Photo; Medical Instruments | \$103,886,096 | \$117,098,672 | \$123,458,067 | 5.4% |
| 82 Tools, Implements, Cutlery of Base Metals | \$53,085,770 | \$68,731,370 | \$86,814,168 | 26.3% |
| 34 Soap, Waxes, Lubricating Preparations, etc | \$66,548,511 | \$92,654,261 | \$86,723,351 | -6.4% |
| 48 Paper, Paperboard, Articles of Paper Pulp | \$103,427,837 | \$97,742,712 | \$82,664,894 | -15.4% |
| Multi Remaining commodities | \$866,602,850 | \$845,473,646 | \$793,840,323 | -6.1% |

Nesoi - Not elsewhere specified or indicated



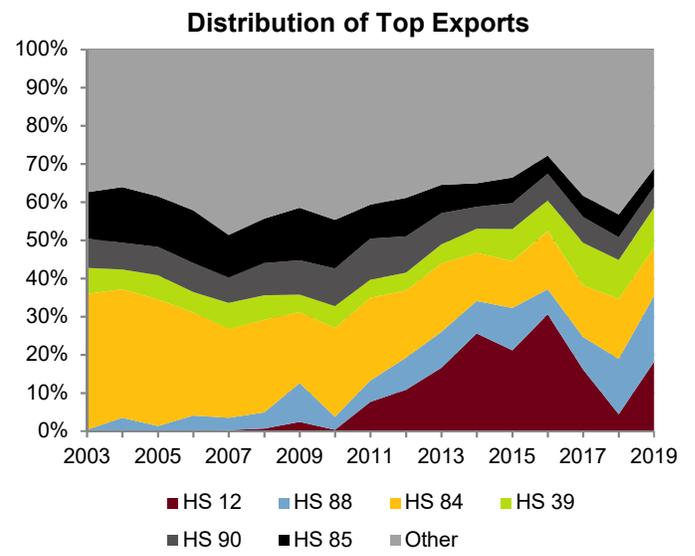
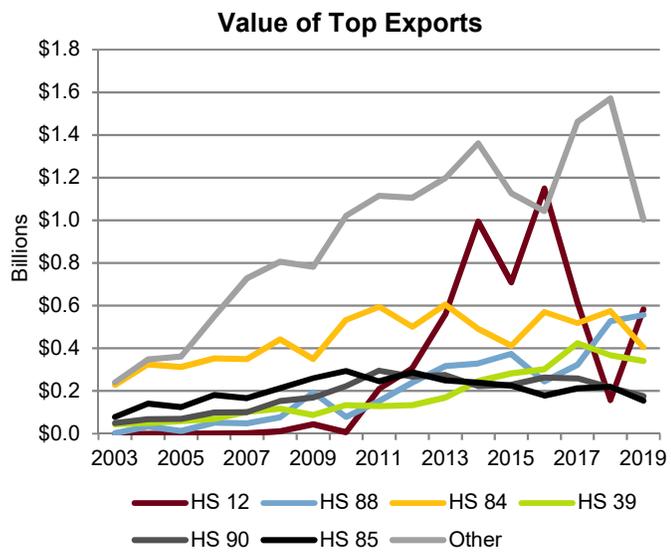
Exports to China



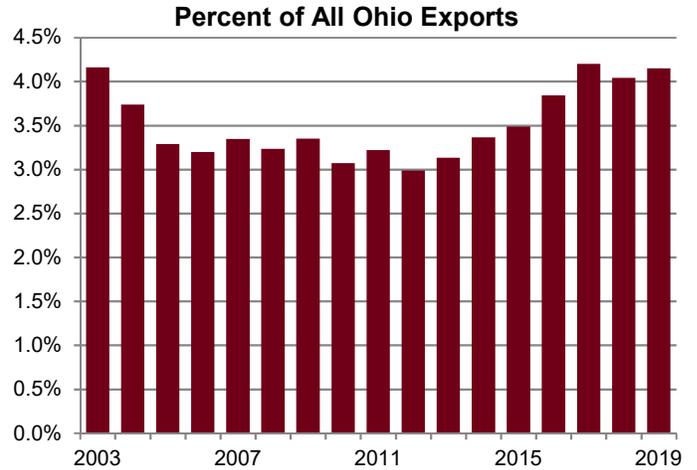
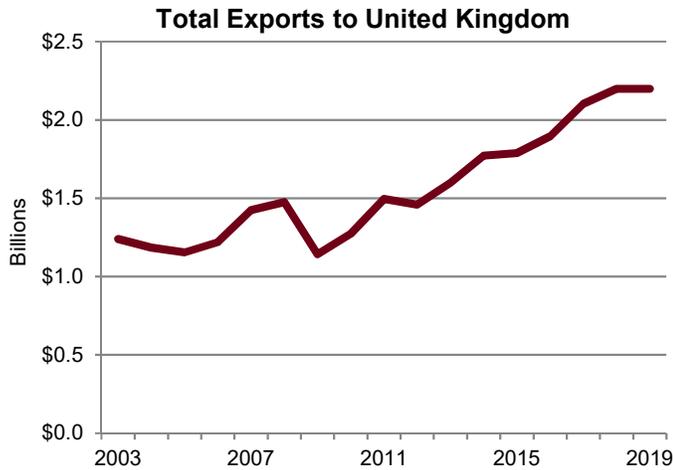
Harmonized
Tariff Schedule

| | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$3,814,768,472 | \$3,634,722,342 | \$3,217,141,492 | -11.5% |
| 12 Oil Seed, Miscellaneous Grain | \$615,181,823 | \$157,677,213 | \$582,722,939 | 269.6% |
| 88 Aircraft; Spacecraft and Parts | \$323,374,076 | \$527,430,461 | \$555,835,081 | 5.4% |
| 84 Industrial Machinery, Including Computers | \$517,923,302 | \$575,446,031 | \$404,492,025 | -29.7% |
| 39 Plastics and Articles Thereof | \$424,315,263 | \$368,226,043 | \$341,100,195 | -7.4% |
| 90 Optic, Photo; Medical Instruments | \$259,286,233 | \$215,280,406 | \$174,606,218 | -18.9% |
| 85 Electric Machinery; Sound Equip.; TV Equip. | \$212,945,305 | \$219,344,403 | \$154,990,145 | -29.3% |
| 87 Vehicles and Parts | \$286,940,156 | \$356,346,579 | \$135,249,514 | -62.0% |
| 38 Miscellaneous Chemical Products | \$127,904,875 | \$152,957,902 | \$99,859,378 | -34.7% |
| 44 Wood and Articles of Wood; Wood Charcoal | \$134,584,402 | \$118,473,534 | \$73,863,793 | -37.7% |
| 29 Organic Chemicals | \$88,994,412 | \$97,860,107 | \$70,951,622 | -27.5% |
| 28 Inorganic Chemicals; Rare-Earths | \$50,378,116 | \$63,082,593 | \$58,538,180 | -7.2% |
| 32 Tanning, Dye, Paint, Putty | \$30,112,414 | \$35,333,041 | \$57,780,894 | 63.5% |
| 73 Iron and Steel Products | \$64,495,508 | \$62,504,810 | \$57,084,962 | -8.7% |
| 30 Pharmaceutical Products | \$20,456,237 | \$20,142,520 | \$41,232,609 | 104.7% |
| 34 Soap, Waxes, Lubricating Preparations, etc | \$39,144,995 | \$35,006,014 | \$38,105,830 | 8.9% |
| Multi Remaining commodities | \$618,731,355 | \$629,610,685 | \$370,728,107 | -41.1% |

Nesoi - Not elsewhere specified or indicated

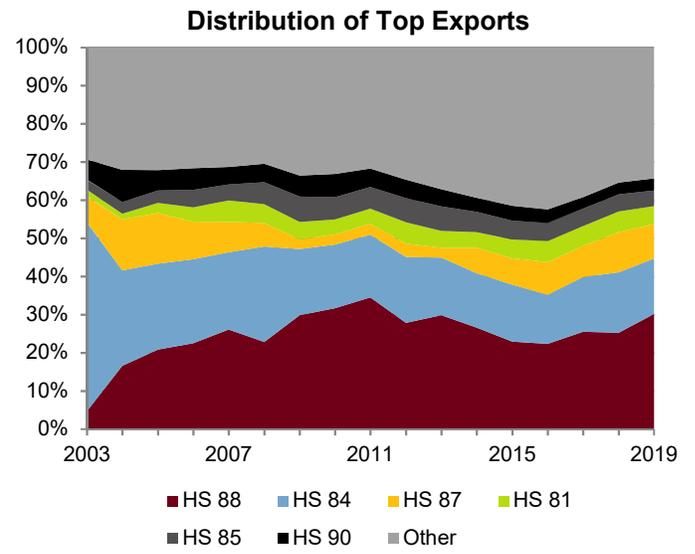
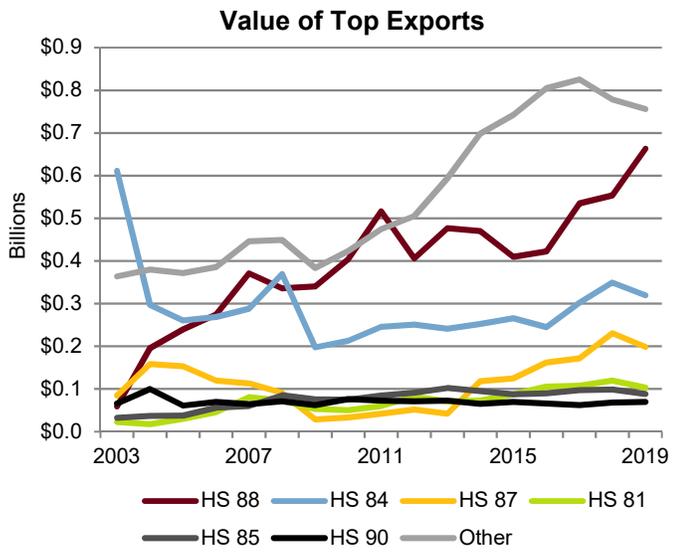


Exports to the United Kingdom

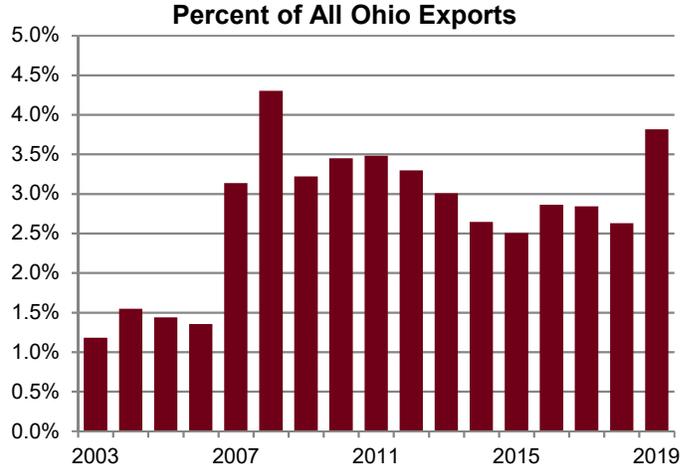
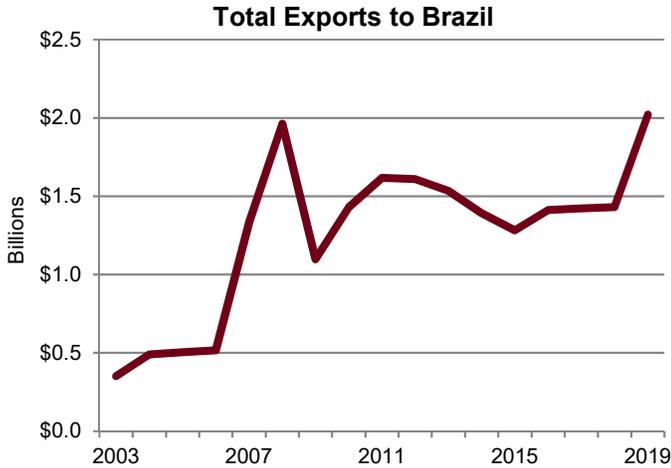


| Harmonized Tariff Schedule | | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|-------------------------------|--|------------------------|------------------------|------------------------|---------------------|
| TOTAL | | \$2,102,753,330 | \$2,198,723,571 | \$2,198,366,739 | 0.0% |
| 88 | Aircraft; Spacecraft and Parts | \$534,963,823 | \$553,902,897 | \$662,816,835 | 19.7% |
| 84 | Industrial Machinery, Including Computers | \$302,640,741 | \$349,635,479 | \$319,694,898 | -8.6% |
| 87 | Vehicles and Parts | \$172,043,102 | \$230,739,825 | \$198,692,572 | -13.9% |
| 81 | Base Metals Nesoi; Cermets; Articles Thereof | \$108,084,474 | \$119,586,680 | \$103,552,287 | -13.4% |
| 85 | Electric Machinery; Sound Equip.; TV Equip. | \$97,413,307 | \$98,935,034 | \$88,650,123 | -10.4% |
| 90 | Optic, Photo; Medical Instruments | \$62,078,174 | \$68,199,516 | \$69,530,986 | 2.0% |
| 39 | Plastics and Articles Thereof | \$71,132,334 | \$67,807,257 | \$61,021,927 | -10.0% |
| 73 | Iron and Steel Products | \$35,543,186 | \$39,229,638 | \$37,749,008 | -3.8% |
| 30 | Pharmaceutical Products | \$18,234,330 | \$35,940,886 | \$30,051,484 | -16.4% |
| 61 | Apparel Articles, etc, Knit or Crochet | \$29,425,434 | \$15,029,643 | \$27,214,451 | 81.1% |
| 62 | Apparel Articles, etc, Not Knit or Crochet | \$25,385,760 | \$41,189,013 | \$24,332,598 | -40.9% |
| 82 | Tools, Implements, Cutlery of Base Metals | \$25,524,133 | \$24,139,474 | \$24,287,001 | 0.6% |
| 33 | Perfumery, Cosmetic, etc | \$107,345,807 | \$39,901,454 | \$24,165,602 | -39.4% |
| 76 | Aluminum and Articles Thereof | \$23,245,271 | \$23,416,927 | \$21,769,041 | -7.0% |
| 72 | Iron and Steel | \$15,981,397 | \$13,660,670 | \$17,967,467 | 31.5% |
| Multi | Remaining commodities | \$473,712,057 | \$477,409,178 | \$486,870,459 | 2.0% |

Nesoi - Not elsewhere specified or indicated

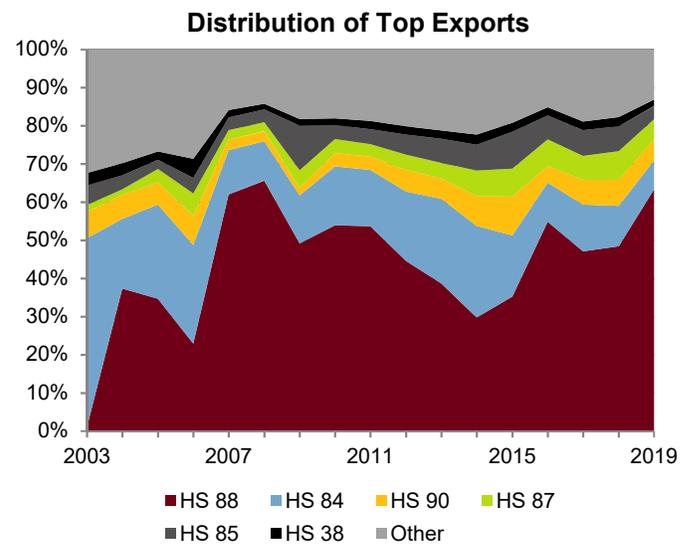
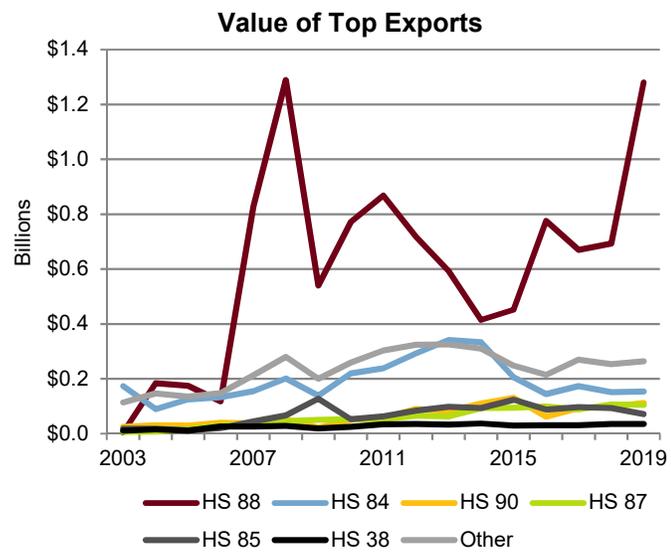


Exports to Brazil

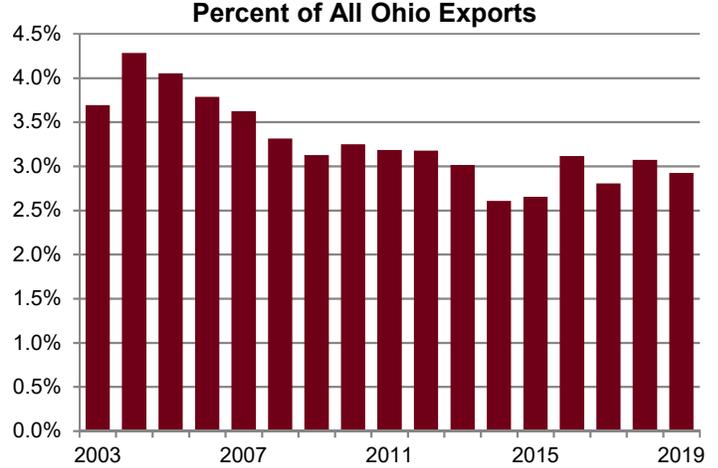
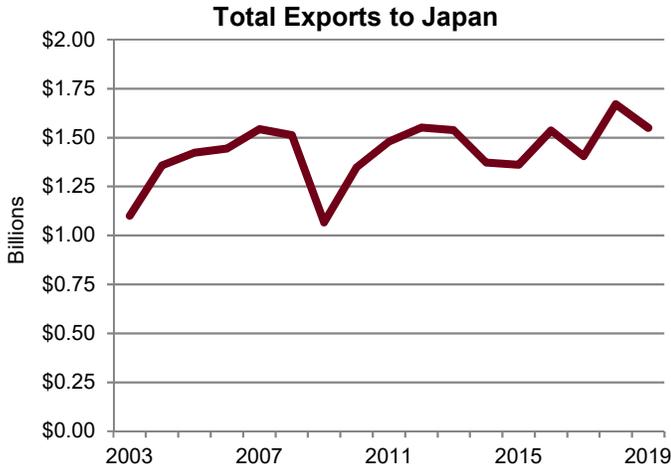


| Harmonized Tariff Schedule | | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|-------------------------------|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | | \$1,422,895,053 | \$1,430,680,470 | \$2,021,182,992 | 41.3% |
| 88 | Aircraft; Spacecraft and Parts | \$669,883,028 | \$692,927,544 | \$1,280,238,031 | 84.8% |
| 84 | Industrial Machinery, Including Computers | \$173,861,759 | \$151,711,860 | \$153,422,637 | 1.1% |
| 87 | Vehicles and Parts | \$93,453,899 | \$97,755,725 | \$111,735,650 | 14.3% |
| 90 | Optic, Photo; Medical Instruments | \$88,555,015 | \$106,669,870 | \$105,205,357 | -1.4% |
| 85 | Electric Machinery; Sound Equip.; TV Equip. | \$96,735,263 | \$93,099,030 | \$70,811,202 | -23.9% |
| 38 | Miscellaneous Chemical Products | \$31,292,638 | \$34,865,825 | \$35,647,503 | 2.2% |
| 39 | Plastics and Articles Thereof | \$30,215,501 | \$31,599,186 | \$30,677,881 | -2.9% |
| 34 | Soap, Waxes, Lubricating Preparations, etc | \$13,052,490 | \$16,035,656 | \$24,645,224 | 53.7% |
| 73 | Iron and Steel Products | \$21,168,296 | \$20,889,139 | \$18,431,901 | -11.8% |
| 29 | Organic Chemicals | \$13,674,192 | \$17,486,603 | \$14,646,569 | -16.2% |
| 40 | Rubber and Articles Thereof | \$20,099,924 | \$17,588,267 | \$13,118,248 | -25.4% |
| 32 | Tanning, Dye, Paint, Putty | \$14,009,575 | \$12,717,679 | \$12,309,484 | -3.2% |
| 76 | Aluminum and Articles Thereof | \$11,386,584 | \$14,365,472 | \$11,467,215 | -20.2% |
| 33 | Perfumery, Cosmetic, etc | \$8,113,693 | \$7,536,353 | \$9,002,013 | 19.4% |
| 83 | Miscellaneous Articles of Base Metal | \$7,454,065 | \$4,643,328 | \$5,995,141 | 29.1% |
| Multi | Remaining commodities | \$129,939,131 | \$110,788,933 | \$123,828,936 | 11.8% |

Nesoi - Not elsewhere specified or indicated



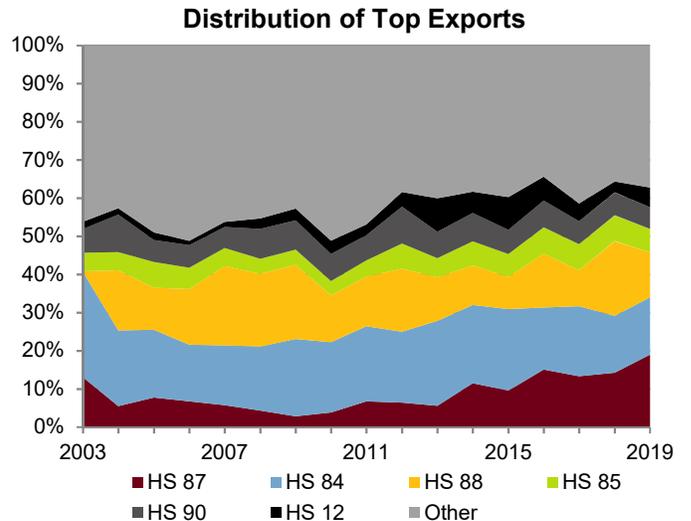
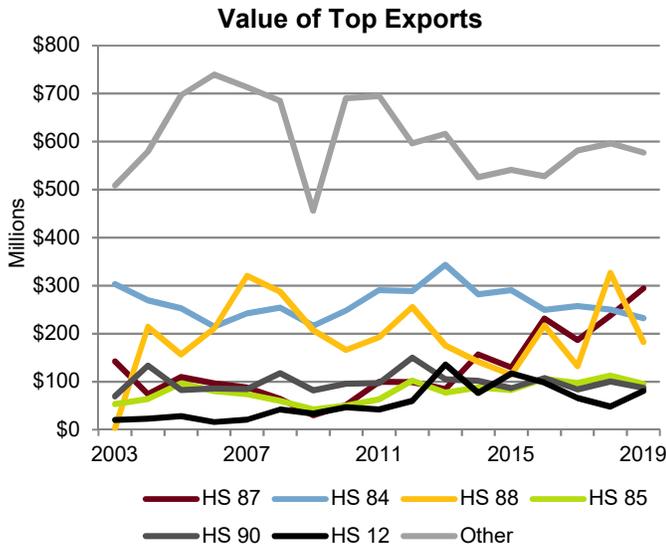
Exports to Japan



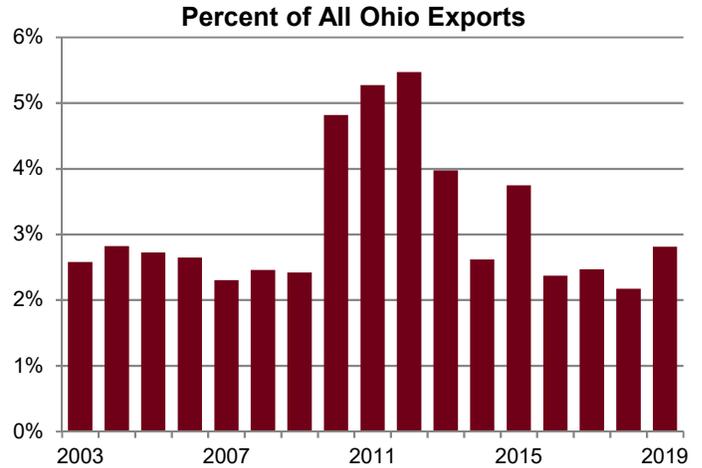
Harmonized
Tariff Schedule

| | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$1,404,793,584 | \$1,670,989,479 | \$1,549,016,362 | -7.3% |
| 87 Vehicles and Parts | \$186,768,293 | \$237,343,025 | \$294,245,894 | 24.0% |
| 84 Industrial Machinery, Including Computers | \$257,394,035 | \$250,009,112 | \$232,485,932 | -7.0% |
| 88 Aircraft; Spacecraft and Parts | \$132,490,860 | \$326,723,596 | \$182,383,315 | -44.2% |
| 85 Electric Machinery; Sound Equip.; TV Equip. | \$96,899,453 | \$112,797,444 | \$95,022,843 | -15.8% |
| 90 Optic, Photo; Medical Instruments | \$83,944,052 | \$100,285,080 | \$87,182,251 | -13.1% |
| 12 Oil Seed, Miscellaneous Grain | \$65,730,974 | \$47,889,851 | \$80,690,350 | 68.5% |
| 39 Plastics and Articles Thereof | \$80,147,109 | \$75,252,529 | \$74,361,835 | -1.2% |
| 73 Iron and Steel Products | \$65,865,979 | \$73,657,492 | \$57,170,720 | -22.4% |
| 38 Miscellaneous Chemical Products | \$48,649,112 | \$46,111,103 | \$50,776,900 | 10.1% |
| 33 Perfumery, Cosmetic, etc | \$25,337,292 | \$28,164,346 | \$47,520,369 | 68.7% |
| 70 Glass and Glassware | \$24,814,415 | \$35,803,869 | \$39,093,490 | 9.2% |
| 76 Aluminum and Articles Thereof | \$42,848,393 | \$43,834,049 | \$28,751,458 | -34.4% |
| 29 Organic Chemicals | \$30,019,959 | \$24,191,769 | \$26,688,368 | 10.3% |
| 30 Pharmaceutical Products | \$21,737,728 | \$28,250,032 | \$22,864,671 | -19.1% |
| 81 Base Metals Nesoi; Cermet; Articles Thereof | \$22,485,936 | \$21,966,165 | \$20,261,049 | -7.8% |
| Multi Remaining commodities | \$219,659,994 | \$218,710,017 | \$209,516,917 | -4.2% |

Nesoi - Not elsewhere specified or indicated



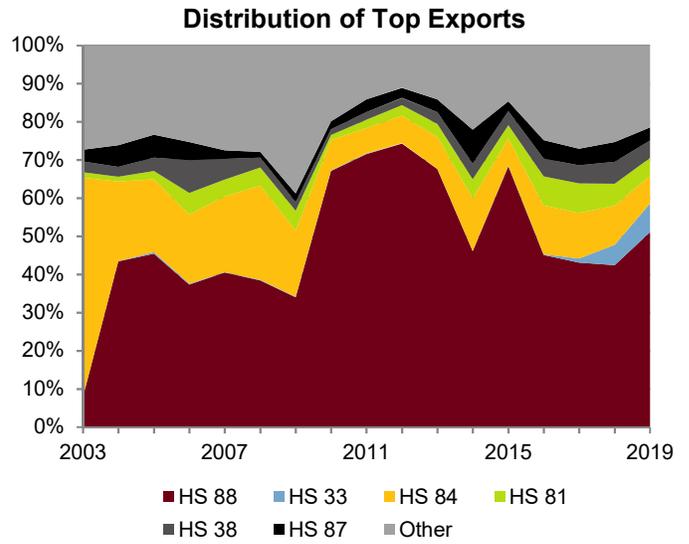
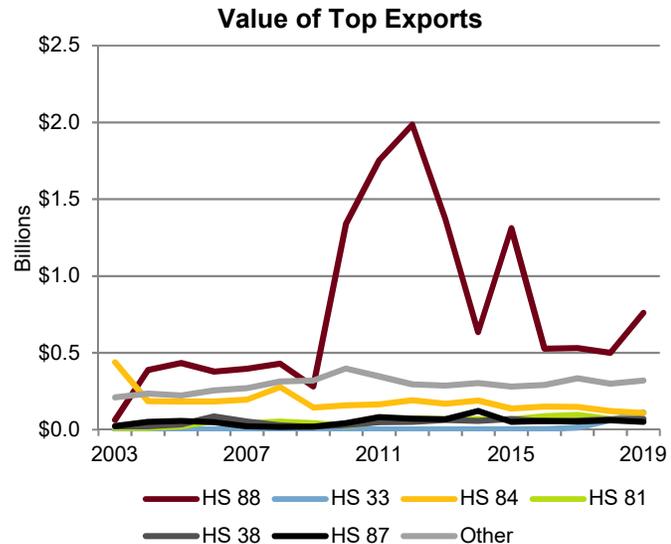
Exports to France



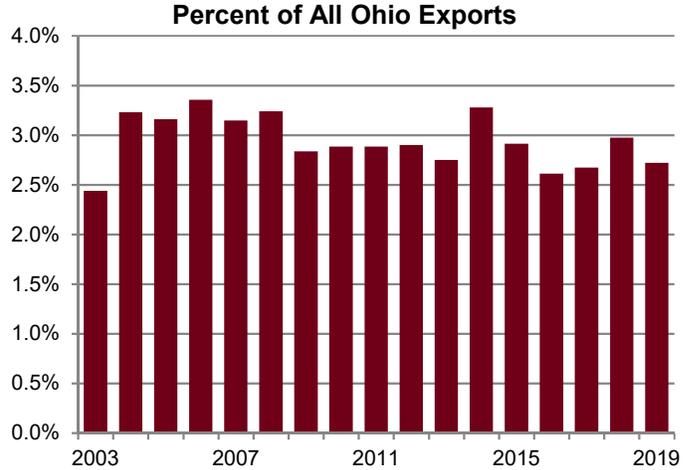
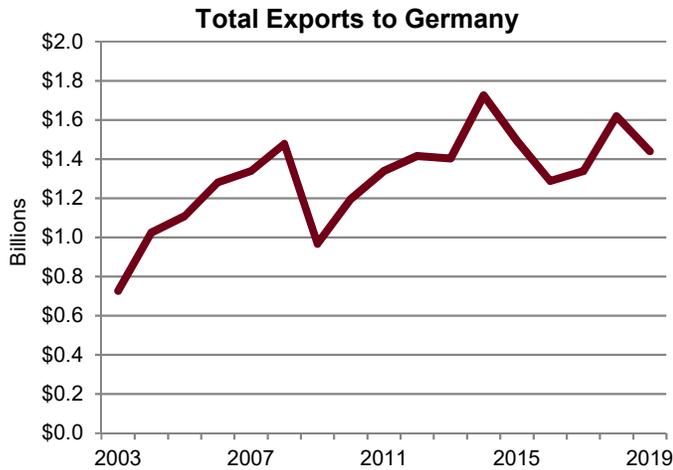
Harmonized
Tariff Schedule

| | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|--|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$1,235,546,302 | \$1,180,533,304 | \$1,489,849,343 | 26.2% |
| 88 Aircraft; Spacecraft and Parts | \$532,224,730 | \$500,398,358 | \$760,366,462 | 52.0% |
| 33 Perfumery, Cosmetic, etc | \$12,954,010 | \$63,340,324 | \$112,381,487 | 77.4% |
| 84 Industrial Machinery, Including Computers | \$147,397,777 | \$120,646,973 | \$108,125,156 | -10.4% |
| 81 Base Metals Nesoi; Cermet; Articles Thereof | \$96,480,034 | \$68,457,128 | \$69,402,106 | 1.4% |
| 38 Miscellaneous Chemical Products | \$58,486,804 | \$67,723,352 | \$68,803,080 | 1.6% |
| 87 Vehicles and Parts | \$53,616,894 | \$61,132,289 | \$50,173,059 | -17.9% |
| 85 Electric Machinery; Sound Equip.; TV Equip. | \$77,282,834 | \$39,376,778 | \$49,787,699 | 26.4% |
| 90 Optic, Photo; Medical Instruments | \$47,271,932 | \$43,697,263 | \$39,927,805 | -8.6% |
| 39 Plastics and Articles Thereof | \$34,150,791 | \$32,013,391 | \$35,790,160 | 11.8% |
| 76 Aluminum and Articles Thereof | \$32,390,033 | \$26,557,403 | \$30,372,576 | 14.4% |
| 29 Organic Chemicals | \$21,793,588 | \$19,860,627 | \$14,892,671 | -25.0% |
| 70 Glass and Glassware | \$11,433,608 | \$16,843,695 | \$12,313,622 | -26.9% |
| 73 Iron and Steel Products | \$8,790,238 | \$12,163,058 | \$11,913,440 | -2.1% |
| 74 Copper and Articles Thereof | \$5,512,138 | \$7,263,186 | \$7,345,795 | 1.1% |
| 97 Works of Art, Collectors Pieces and Antiques | \$286,564 | \$431,121 | \$7,086,697 | 1543.8% |
| Multi Remaining commodities | \$95,474,327 | \$100,628,358 | \$111,167,528 | 10.5% |

Nesoi - Not elsewhere specified or indicated

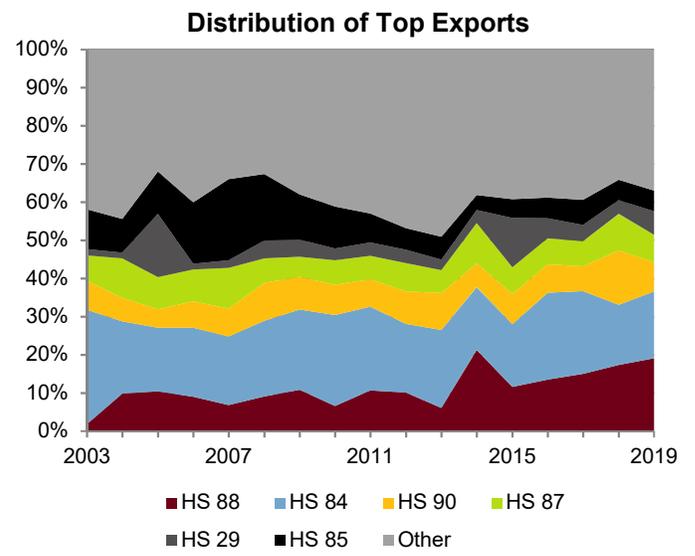
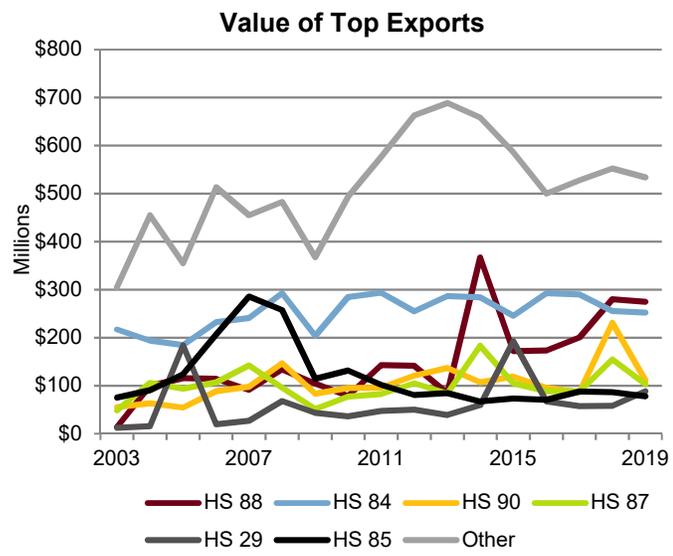


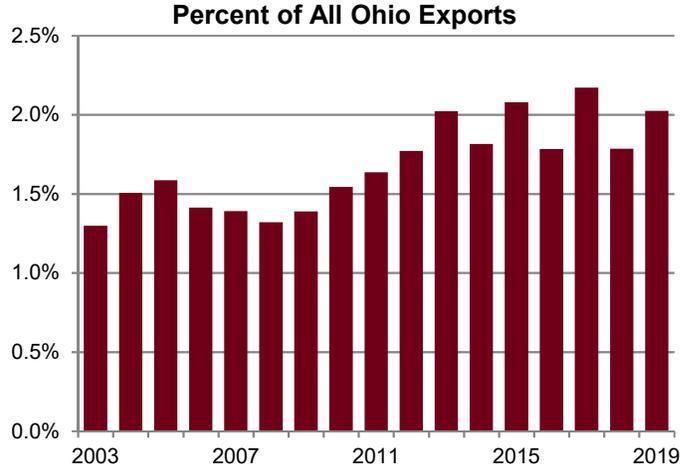
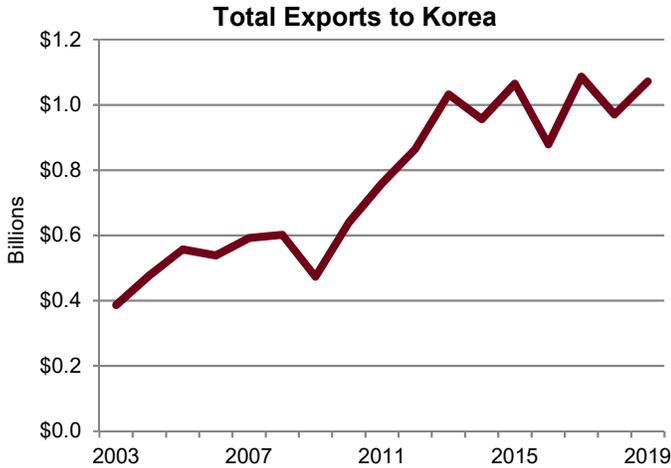
Exports to Germany



| Harmonized Tariff Schedule | | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|-------------------------------|--|------------------------|------------------------|------------------------|---------------------|
| | TOTAL | \$1,338,327,228 | \$1,618,772,237 | \$1,441,365,464 | -11.0% |
| 88 | Aircraft; Spacecraft and Parts | \$200,406,394 | \$280,091,898 | \$274,761,987 | -1.9% |
| 84 | Industrial Machinery, Including Computers | \$290,019,610 | \$255,279,939 | \$252,296,758 | -1.2% |
| 90 | Optic, Photo; Medical Instruments | \$86,723,692 | \$230,935,697 | \$110,986,399 | -51.9% |
| 87 | Vehicles and Parts | \$88,121,798 | \$154,835,027 | \$103,196,631 | -33.4% |
| 29 | Organic Chemicals | \$57,292,549 | \$58,277,157 | \$88,761,640 | 52.3% |
| 85 | Electric Machinery; Sound Equip.; TV Equip. | \$87,943,450 | \$86,803,462 | \$77,745,712 | -10.4% |
| 39 | Plastics and Articles Thereof | \$80,758,833 | \$78,518,590 | \$63,215,740 | -19.5% |
| 82 | Tools, Implements, Cutlery of Base Metals | \$59,927,731 | \$54,511,072 | \$53,203,235 | -2.4% |
| 74 | Copper and Articles Thereof | \$15,638,547 | \$33,251,739 | \$39,486,828 | 18.8% |
| 33 | Perfumery, Cosmetic, etc | \$45,924,160 | \$36,825,153 | \$28,946,575 | -21.4% |
| 30 | Pharmaceutical Products | \$22,325,195 | \$16,851,286 | \$27,363,633 | 62.4% |
| 81 | Base Metals Nesoi; Cermets; Articles Thereof | \$5,918,879 | \$15,399,798 | \$23,442,239 | 52.2% |
| 73 | Iron and Steel Products | \$30,226,878 | \$27,443,560 | \$22,346,296 | -18.6% |
| 40 | Rubber and Articles Thereof | \$18,771,081 | \$17,759,540 | \$19,372,629 | 9.1% |
| 38 | Miscellaneous Chemical Products | \$14,008,690 | \$14,731,446 | \$17,651,779 | 19.8% |
| Multi | Remaining commodities | \$234,319,741 | \$257,256,873 | \$238,587,383 | -7.3% |

Nesoi - Not elsewhere specified or indicated

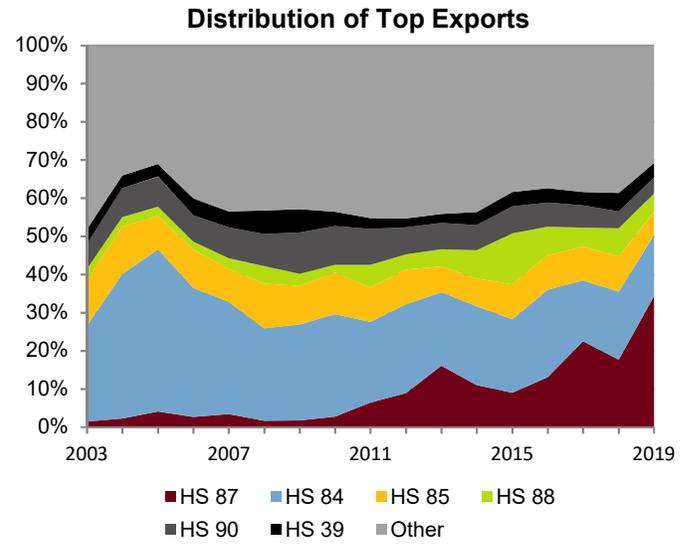
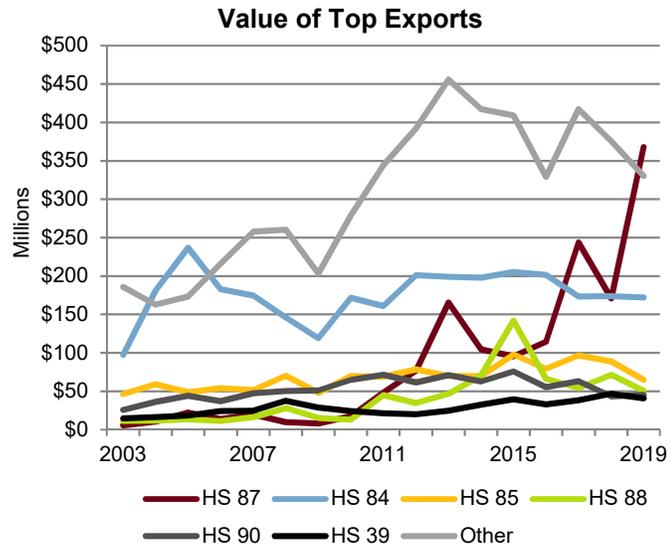




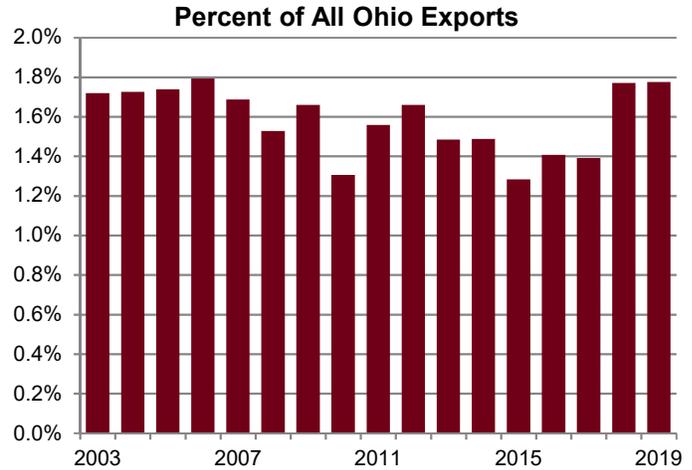
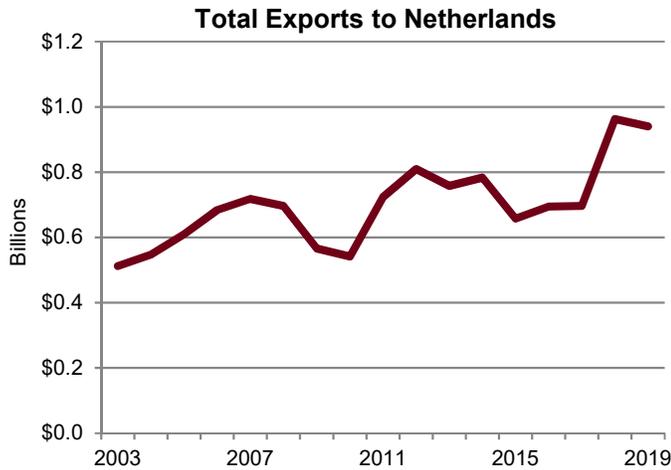
Harmonized
Tariff Schedule

| | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|---|------------------------|----------------------|------------------------|---------------------|
| TOTAL | \$1,086,753,361 | \$970,810,916 | \$1,072,229,138 | 10.4% |
| 87 Vehicles and Parts | \$243,848,244 | \$171,064,153 | \$367,952,789 | 115.1% |
| 84 Industrial Machinery, Including Computers | \$173,397,522 | \$173,781,753 | \$172,147,698 | -0.9% |
| 85 Electric Machinery; Sound Equip.; TV Equip. | \$96,788,489 | \$88,907,561 | \$64,643,452 | -27.3% |
| 88 Aircraft; Spacecraft and Parts | \$54,031,743 | \$71,494,865 | \$50,886,183 | -28.8% |
| 90 Optic, Photo; Medical Instruments | \$63,301,960 | \$43,442,582 | \$45,529,794 | 4.8% |
| 39 Plastics and Articles Thereof | \$38,141,917 | \$46,671,175 | \$40,872,745 | -12.4% |
| 38 Miscellaneous Chemical Products | \$80,028,185 | \$50,671,796 | \$32,507,208 | -35.8% |
| 33 Perfumery, Cosmetic, etc | \$21,690,769 | \$29,836,429 | \$23,080,968 | -22.6% |
| 34 Soap, Waxes, Lubricating Preparations, etc | \$20,409,841 | \$19,891,346 | \$21,970,637 | 10.5% |
| 30 Pharmaceutical Products | \$14,541,799 | \$15,277,591 | \$18,215,460 | 19.2% |
| 29 Organic Chemicals | \$14,557,761 | \$15,601,273 | \$18,206,062 | 16.7% |
| 73 Iron and Steel Products | \$18,088,819 | \$16,840,688 | \$18,001,036 | 6.9% |
| 32 Tanning, Dye, Paint, Putty | \$16,529,012 | \$14,705,761 | \$14,555,620 | -1.0% |
| 2 Meat | \$6,345,897 | \$11,207,571 | \$14,395,918 | 28.4% |
| 16 Edible Preps of Meat, Fish, Crustaceans etc | \$15,015,272 | \$14,932,954 | \$12,884,398 | -13.7% |
| Multi Remaining commodities | \$210,036,131 | \$186,483,418 | \$156,379,170 | -16.1% |

Nesoi - Not elsewhere specified or indicated

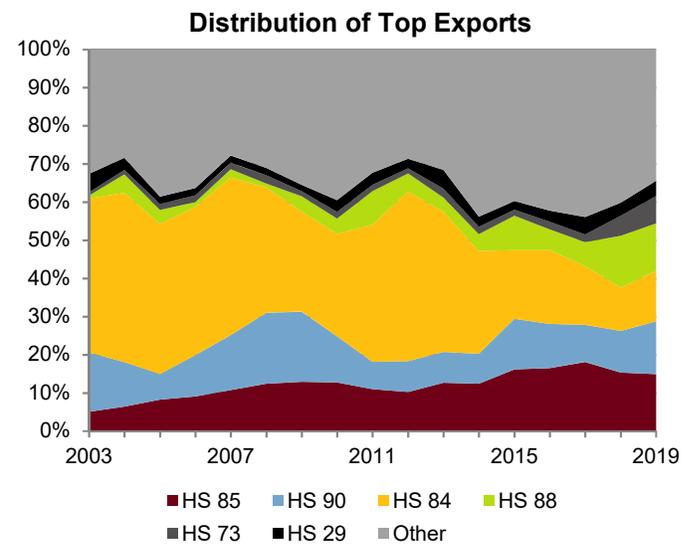
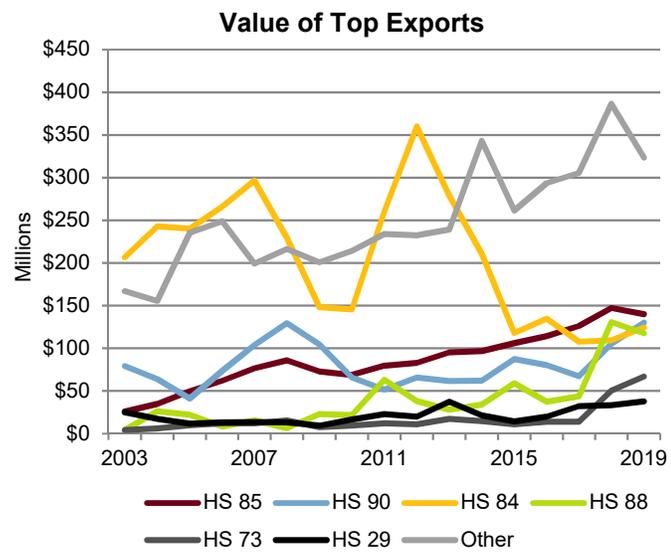


Exports to The Netherlands



| Harmonized Tariff Schedule | | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|-------------------------------|---|----------------------|----------------------|----------------------|---------------------|
| TOTAL | | \$696,641,362 | \$962,924,465 | \$940,562,599 | -2.3% |
| 85 | Electric Machinery; Sound Equip.; TV Equip. | \$126,210,094 | \$147,262,306 | \$140,023,410 | -4.9% |
| 90 | Optic, Photo; Medical Instruments | \$67,256,858 | \$105,394,491 | \$130,205,940 | 23.5% |
| 84 | Industrial Machinery, Including Computers | \$107,708,038 | \$109,362,463 | \$124,461,944 | 13.8% |
| 88 | Aircraft; Spacecraft and Parts | \$43,788,727 | \$130,658,099 | \$117,469,109 | -10.1% |
| 73 | Iron and Steel Products | \$13,848,898 | \$50,578,827 | \$66,964,099 | 32.4% |
| 29 | Organic Chemicals | \$32,136,331 | \$33,183,031 | \$37,853,520 | 14.1% |
| 39 | Plastics and Articles Thereof | \$30,503,846 | \$35,569,781 | \$32,868,831 | -7.6% |
| 27 | Mineral Fuel, Oil, etc | \$18,490,382 | \$55,385,271 | \$32,787,017 | -40.8% |
| 34 | Soap, Waxes, Lubricating Preparations, etc | \$26,657,045 | \$30,096,827 | \$27,734,554 | -7.8% |
| 30 | Pharmaceutical Products | \$5,362,326 | \$14,474,172 | \$22,268,225 | 53.8% |
| 38 | Miscellaneous Chemical Products | \$28,535,343 | \$33,367,089 | \$20,844,025 | -37.5% |
| 32 | Tanning, Dye, Paint, Putty | \$14,763,810 | \$18,687,465 | \$18,088,942 | -3.2% |
| 33 | Perfumery, Cosmetic, etc | \$13,931,894 | \$14,489,761 | \$15,953,316 | 10.1% |
| 12 | Oil Seed, Miscellaneous Grain | \$21,556,636 | \$14,424,681 | \$11,989,304 | -16.9% |
| 28 | Inorganic Chemicals; Rare-Earths | \$17,047,219 | \$15,840,020 | \$9,210,327 | -41.9% |
| Multi | Remaining commodities | \$128,843,915 | \$154,150,181 | \$131,840,036 | -14.5% |

Nesoi - Not elsewhere specified or indicated



Metropolitan Area Exports: 2018



Value of exports for metropolitan areas in or partially in Ohio with the largest export sector.

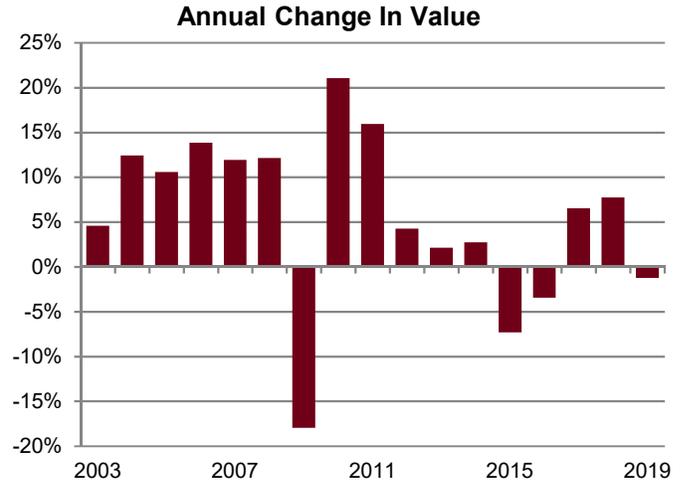


The Cincinnati-Middletown Metropolitan Area had exports of \$27.4 billion in 2018 which led the 14 metropolitan areas in Ohio. This figure represented a 4.1 percent decrease over the previous year. Nearly 60 percent, \$16.5 billion, of the exports were in the transportation equipment sector with chemicals a distant second at \$3.4 billion. Canada was the leading destination with \$4.2 billion of the exports with the United Kingdom second at \$3.3 billion.

The Cleveland-Elyria-Mentor Metropolitan Area was second in exports at \$9.4 billion, an increase of 4.9 percent since 2017. Machinery accounted for 15 percent of exports followed closely by fabricated metals at 14 percent. With \$3.0 billion in exports, Canada was the leading destination with \$3.4 billion while Mexico was next at \$2.0 billion.

Third in exports was the Columbus Metropolitan Area at \$7.5 billion, an increase of 26 percent. Twenty-four percent of the exports, \$1.8 billion, were in the computers/electric machinery sector. Chemicals accounted for \$1.2 billion. Canada was the main recipient at \$3.4 billion followed by Mexico at \$829 million.

It should be noted that metropolitan area exports are ZIP code based while the rest of this report is origin state based. While the original source of the data is the same the totals for the state can differ because of how the export declarations are completed.

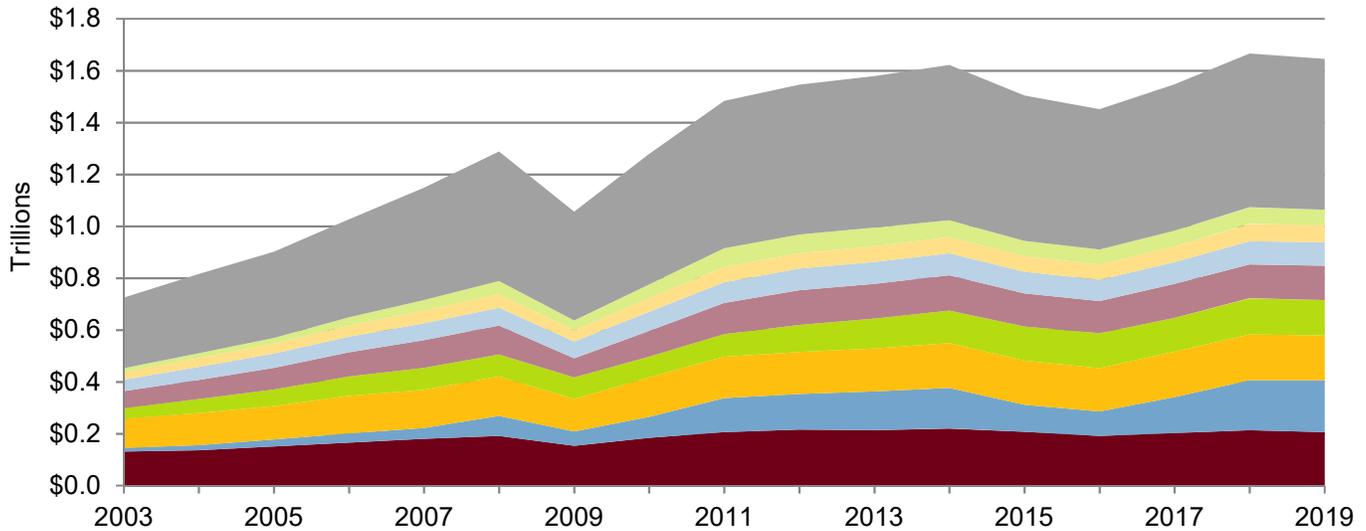


US Top 25 Exported Commodities: 2019

| Harmonized Schedule Code | | 2017 | 2018 | 2019 | % Chng. 18 to 19 |
|------------------------------|---------------------------------------|----------------------------|----------------------------|----------------------------|------------------|
| Total All Commodities | | \$1,546,473,450,240 | \$1,665,992,031,822 | \$1,645,174,334,756 | -1.2% |
| 84 | Industrial Machinery, Incl. Computers | \$202,060,699,153 | \$213,377,247,839 | \$205,879,700,261 | -3.5% |
| 27 | Mineral Fuel, Oil, etc | \$139,082,249,161 | \$192,681,236,067 | \$199,735,686,233 | 3.7% |
| 85 | Electric Machinery; Sound/TV Equip. | \$174,299,564,120 | \$176,302,382,688 | \$173,185,141,484 | -1.8% |
| 88 | Aircraft; Spacecraft and Parts | \$131,120,781,564 | \$139,438,541,000 | \$136,043,357,436 | -2.4% |
| 87 | Vehicles and Parts | \$130,406,803,876 | \$130,730,673,450 | \$133,040,763,969 | 1.8% |
| 90 | Optic, Photo; Medical Instruments | \$83,637,367,262 | \$89,646,000,973 | \$90,782,754,571 | 1.3% |
| 39 | Plastics and Articles Thereof | \$61,937,248,863 | \$66,556,823,218 | \$64,904,030,671 | -2.5% |
| 71 | Precious Stones/Metals; Jewelry | \$60,258,627,080 | \$63,795,840,099 | \$59,609,827,558 | -6.6% |
| 30 | Pharmaceutical Products | \$44,936,430,945 | \$48,345,552,717 | \$53,561,670,461 | 10.8% |
| 29 | Organic Chemicals | \$36,279,584,874 | \$40,339,200,853 | \$39,327,263,046 | -2.5% |
| 38 | Miscellaneous Chemical Products | \$27,678,004,954 | \$30,298,013,586 | \$31,065,801,151 | 2.5% |
| 12 | Oil Seed, Miscellaneous Grain | \$26,386,370,056 | \$22,421,639,682 | \$23,892,194,909 | 6.6% |
| 73 | Iron and Steel Products | \$18,440,973,086 | \$19,257,990,910 | \$18,687,071,642 | -3.0% |
| 2 | Meat | \$16,398,539,165 | \$17,268,855,560 | \$17,661,593,444 | 2.3% |
| 10 | Cereals | \$18,594,946,549 | \$21,028,435,347 | \$16,881,208,771 | -19.7% |
| 8 | Edible Fruit and Nuts | \$14,876,929,501 | \$14,694,470,156 | \$15,089,573,112 | 2.7% |
| 48 | Paper, Paperboard, etc | \$15,766,131,103 | \$16,393,727,121 | \$15,066,618,729 | -8.1% |
| 72 | Iron and Steel | \$16,105,489,764 | \$16,496,255,323 | \$14,378,702,323 | -12.8% |
| 33 | Perfumery, Cosmetic, etc | \$12,954,789,503 | \$13,620,462,022 | \$13,857,683,321 | 1.7% |
| 40 | Rubber and Articles Thereof | \$13,438,220,418 | \$13,977,982,844 | \$13,206,985,038 | -5.5% |
| 97 | Works of Art, Antiques, etc. | \$11,737,081,328 | \$14,558,764,844 | \$12,950,378,260 | -11.0% |
| 28 | Inorganic Chemicals; Rare-Earths | \$12,391,086,639 | \$12,462,653,021 | \$11,474,937,308 | -7.9% |
| 76 | Aluminum and Articles Thereof | \$11,587,898,818 | \$12,586,586,991 | \$10,937,898,321 | -13.1% |
| 23 | Food Ind. Residues; Animal Feed | \$9,567,880,014 | \$11,140,453,649 | \$10,430,281,894 | -6.4% |
| 94 | Furniture and Bedding | \$10,811,342,488 | \$10,840,474,466 | \$10,219,950,498 | -5.7% |
| Multi | Remaining commodities | \$245,718,409,956 | \$257,731,767,396 | \$253,303,260,345 | -1.7% |

Nesoi - Not elsewhere specified or indicated

US Exports
Top 8 Exported Products: 2019



| Harmonized Schedule Code | | 2019 Value | % of All Exports |
|------------------------------|-----------------------------------|----------------------------|------------------|
| Total All Commodities | | \$1,645,174,334,756 | |
| 84 | Ind. Machinery, Incl. Computers | \$205,879,700,261 | 12.5% |
| 27 | Mineral Fuel, Oil, etc | \$199,735,686,233 | 12.1% |
| 85 | Elec. Machinery; Sound/TV Equip. | \$173,185,141,484 | 10.5% |
| 88 | Aircraft; Spacecraft and Parts | \$136,043,357,436 | 8.3% |
| 87 | Vehicles and Parts | \$133,040,763,969 | 8.1% |
| 90 | Optic, Photo; Medical Instruments | \$90,782,754,571 | 5.5% |
| 39 | Plastics and Articles Thereof | \$64,904,030,671 | 3.9% |
| 71 | Precious Stones/Metals; Jewelry | \$59,609,827,558 | 3.6% |
| Multi | Remaining commodities | \$581,993,072,573 | 35.4% |

Top 10 Trading Partners - 2019

| | 2019 Value | Pct of Total |
|----------------|---------------------|--------------|
| Total | \$1,645,174,334,756 | |
| Canada | \$292,381,889,887 | 17.8% |
| Mexico | \$256,374,085,277 | 15.6% |
| China | \$106,626,774,557 | 6.5% |
| Japan | \$74,652,745,438 | 4.5% |
| United Kingdom | \$69,156,507,757 | 4.2% |
| Germany | \$60,296,235,156 | 3.7% |
| Korea | \$56,897,327,116 | 3.5% |
| Netherlands | \$51,232,693,826 | 3.1% |
| Brazil | \$43,083,295,641 | 2.6% |
| France | \$37,770,912,378 | 2.3% |
| Others | \$596,701,867,723 | 36.3% |

Top 10 Trading Partners - 2017 to 2019

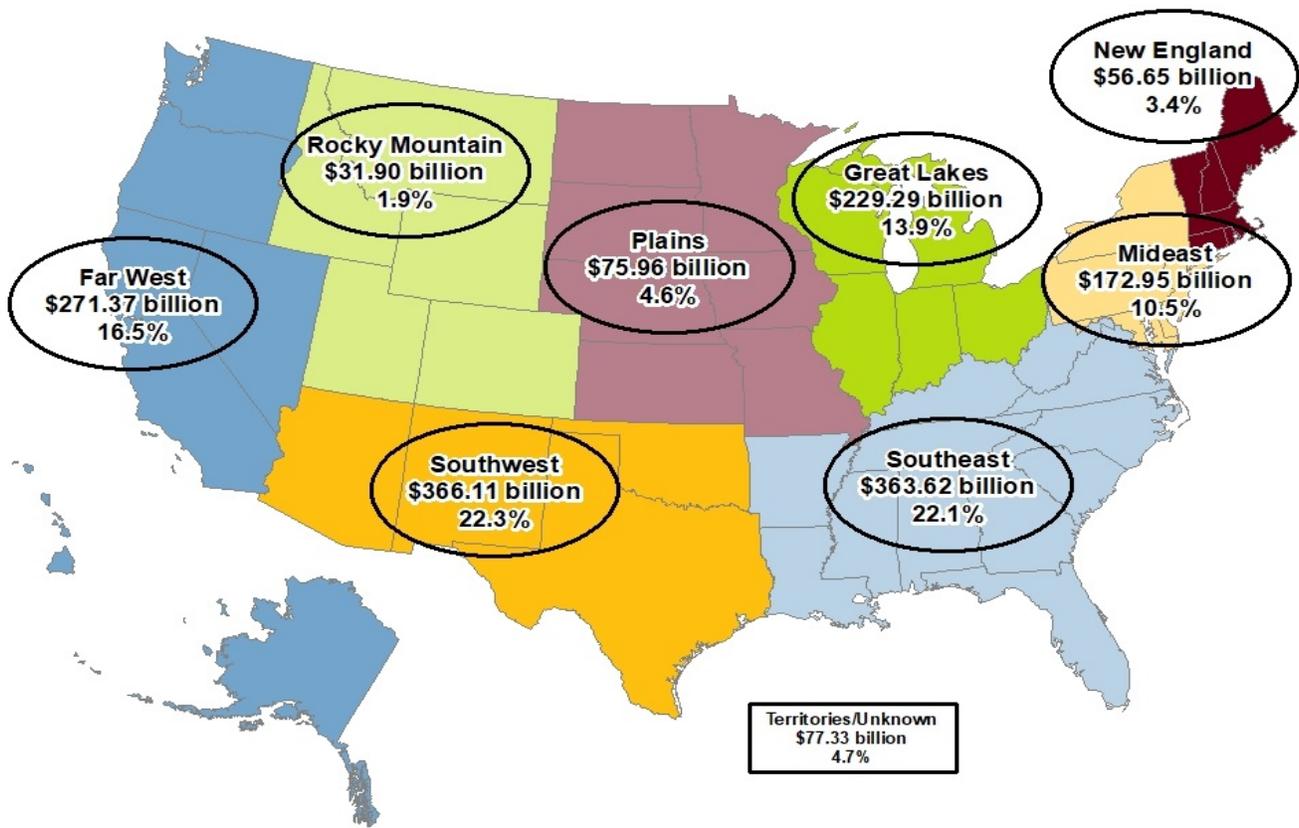
| | 2017 to 2019 Value | Pct of 3-yr Total |
|----------------|---------------------|-------------------|
| Total | \$4,857,639,816,818 | |
| Canada | \$874,623,068,221 | 18.0% |
| Mexico | \$765,324,393,162 | 15.8% |
| China | \$356,572,502,862 | 7.3% |
| Japan | \$217,467,137,720 | 4.5% |
| United Kingdom | \$191,725,944,455 | 3.9% |
| Germany | \$172,010,039,246 | 3.5% |
| Korea | \$161,754,311,118 | 3.3% |
| Netherlands | \$141,410,584,915 | 2.9% |
| Brazil | \$119,973,690,158 | 2.5% |
| France | \$107,983,076,193 | 2.2% |
| Others | \$1,748,795,068,768 | 36.0% |

Regional Exports

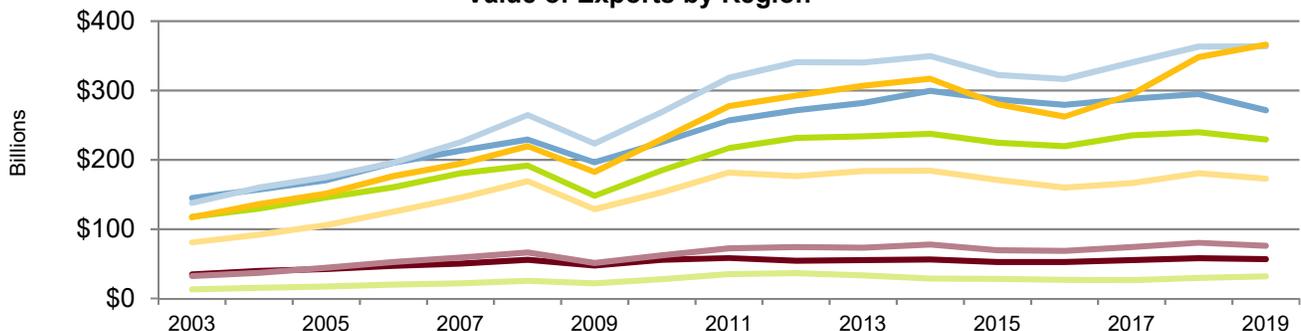


| | | | % Share | % Chng. | Top Export | % Share |
|---------------------|----------------------------|----------------------------|---------------|--------------|-----------------------------|--------------|
| | 2018 | 2019 | U.S. | 18 to 19 | | Region |
| U.S. | \$1,665,992,031,822 | \$1,645,174,334,756 | 100.0% | -1.2% | Industrial Machinery | 12.5% |
| Far West | \$295,078,577,460 | \$271,369,429,480 | 16.5% | -8.0% | Electric Machinery | 15.3% |
| Great Lakes | \$239,981,623,606 | \$229,288,200,777 | 13.9% | -4.5% | Vehicles and Parts | 21.2% |
| Mideast | \$180,770,674,018 | \$172,951,502,062 | 10.5% | -4.3% | Prec. Stones; Jewelry | 16.6% |
| New England | \$58,030,519,743 | \$56,646,430,091 | 3.4% | -2.4% | Industrial Machinery | 16.7% |
| Plains | \$80,454,334,579 | \$75,964,876,521 | 4.6% | -5.6% | Industrial Machinery | 12.9% |
| Rocky Mountain | \$29,762,549,613 | \$31,898,487,406 | 1.9% | 7.2% | Prec. Stones; Jewelry | 29.0% |
| Southeast | \$363,121,172,303 | \$363,617,570,512 | 22.1% | 0.1% | Aircraft and Parts | 14.7% |
| Southwest | \$348,212,368,553 | \$366,111,500,610 | 22.3% | 5.1% | Mineral Fuel, Oil, etc | 34.4% |
| Territories/Unknown | \$70,580,211,947 | \$77,326,337,297 | 4.7% | 9.6% | --- | --- |

Value and Share of US Exports by Region: 2019



Value of Exports by Region



Exports by State Value and Top Export



| | 2018 | 2019 | % Share U.S. | % Chng. 18 to 19 | Top Export | % Share State |
|----------------------|----------------------------|----------------------------|-----------------|---------------------|-----------------------------|------------------|
| U.S. | \$1,665,992,031,822 | \$1,645,174,334,756 | 100.0% | -1.2% | Industrial Machinery | 12.5% |
| Texas | \$315,938,509,210 | \$330,501,521,410 | 20.1% | 4.6% | Mineral Fuel, Oil, etc | 38.0% |
| California | \$178,181,052,789 | \$173,326,243,802 | 10.5% | -2.7% | Electric Machinery | 16.5% |
| New York | \$84,683,200,233 | \$73,274,539,096 | 4.5% | -13.5% | Prec. Stones; Jewelry | 30.4% |
| Louisiana | \$67,297,074,920 | \$63,673,829,312 | 3.9% | -5.4% | Mineral Fuel, Oil, etc | 51.7% |
| Washington | \$77,968,221,479 | \$60,121,911,195 | 3.7% | -22.9% | Aircraft and Parts | 42.3% |
| Illinois | \$65,491,406,440 | \$59,924,468,403 | 3.6% | -8.5% | Industrial Machinery | 19.6% |
| Florida | \$57,236,644,391 | \$56,037,957,395 | 3.4% | -2.1% | Electric Machinery | 17.5% |
| Michigan | \$58,034,773,175 | \$55,314,589,565 | 3.4% | -4.7% | Vehicles and Parts | 40.3% |
| Ohio | \$54,403,829,149 | \$52,987,227,859 | 3.2% | -2.6% | Industrial Machinery | 18.3% |
| Pennsylvania | \$41,192,635,837 | \$42,535,030,449 | 2.6% | 3.3% | Mineral Fuel, Oil, etc | 11.8% |
| South Carolina | \$34,628,561,632 | \$41,455,522,433 | 2.5% | 19.7% | Aircraft and Parts | 30.0% |
| Georgia | \$40,613,321,982 | \$41,224,580,183 | 2.5% | 1.5% | Aircraft and Parts | 22.2% |
| Indiana | \$39,330,299,869 | \$39,392,809,694 | 2.4% | 0.2% | Vehicles and Parts | 25.6% |
| New Jersey | \$35,354,227,977 | \$35,961,311,219 | 2.2% | 1.7% | Prec. Stones; Jewelry | 12.9% |
| North Carolina | \$32,761,500,870 | \$34,357,081,723 | 2.1% | 4.9% | Industrial Machinery | 15.4% |
| Kentucky | \$31,809,780,385 | \$33,094,890,141 | 2.0% | 4.0% | Aircraft and Parts | 44.1% |
| Tennessee | \$32,710,532,911 | \$31,068,109,626 | 1.9% | -5.0% | Optic, Med. Instruments | 17.1% |
| Massachusetts | \$27,157,976,781 | \$26,117,786,245 | 1.6% | -3.8% | Optic, Med. Instruments | 23.7% |
| Arizona | \$22,508,675,077 | \$24,691,235,357 | 1.5% | 9.7% | Electric Machinery | 28.4% |
| Oregon | \$22,334,782,254 | \$23,526,633,158 | 1.4% | 5.3% | Electric Machinery | 37.5% |
| Minnesota | \$22,676,979,618 | \$22,201,646,776 | 1.3% | -2.1% | Optic, Med. Instruments | 20.7% |
| Wisconsin | \$22,721,314,973 | \$21,669,105,256 | 1.3% | -4.6% | Industrial Machinery | 25.9% |
| Alabama | \$21,416,730,088 | \$20,747,541,750 | 1.3% | -3.1% | Vehicles and Parts | 34.7% |
| Virginia | \$18,352,865,115 | \$17,914,509,343 | 1.1% | -2.4% | Mineral Fuel, Oil, etc | 12.0% |
| Utah | \$14,388,731,773 | \$17,343,951,719 | 1.1% | 20.5% | Prec. Stones; Jewelry | 52.3% |
| Connecticut | \$17,403,393,376 | \$16,287,680,867 | 1.0% | -6.4% | Aircraft and Parts | 38.4% |
| Missouri | \$14,530,544,909 | \$13,400,263,061 | 0.8% | -7.8% | Vehicles and Parts | 19.5% |
| Iowa | \$14,377,073,207 | \$13,186,824,281 | 0.8% | -8.3% | Industrial Machinery | 16.9% |
| Maryland | \$12,102,325,444 | \$13,071,905,764 | 0.8% | 8.0% | Aircraft and Parts | 14.3% |
| Mississippi | \$11,630,242,991 | \$11,898,022,043 | 0.7% | 2.3% | Mineral Fuel, Oil, etc | 26.9% |
| Kansas | \$11,586,747,077 | \$11,615,360,484 | 0.7% | 0.2% | Aircraft and Parts | 19.4% |
| Nevada | \$11,094,266,256 | \$8,978,549,146 | 0.5% | -19.1% | Prec. Stones; Jewelry | 40.1% |
| Colorado | \$8,328,833,201 | \$8,100,386,717 | 0.5% | -2.7% | Optic, Med. Instruments | 16.2% |
| Nebraska | \$7,952,228,974 | \$7,457,799,779 | 0.5% | -6.2% | Meat | 24.1% |
| North Dakota | \$7,894,077,498 | \$6,749,138,192 | 0.4% | -14.5% | Mineral Fuel, Oil, etc | 67.3% |
| Arkansas | \$6,447,011,932 | \$6,225,643,882 | 0.4% | -3.4% | Aircraft and Parts | 19.9% |
| Oklahoma | \$6,108,358,741 | \$6,122,543,058 | 0.4% | 0.2% | Industrial Machinery | 30.7% |
| West Virginia | \$8,216,905,086 | \$5,919,882,681 | 0.4% | -28.0% | Mineral Fuel, Oil, etc | 39.3% |
| New Hampshire | \$5,306,050,975 | \$5,828,751,678 | 0.4% | 9.9% | Aircraft and Parts | 23.2% |
| Alaska | \$4,840,480,086 | \$4,969,355,377 | 0.3% | 2.7% | Fish & Crustaceans | 45.7% |
| New Mexico | \$3,656,825,525 | \$4,796,200,785 | 0.3% | 31.2% | Industrial Machinery | 33.4% |
| Delaware | \$4,713,638,776 | \$4,428,010,557 | 0.3% | -6.1% | Pharmaceutical Products | 23.4% |
| District Of Columbia | \$2,724,645,751 | \$3,680,704,977 | 0.2% | 35.1% | Aircraft and Parts | 35.1% |
| Idaho | \$4,021,659,326 | \$3,431,490,492 | 0.2% | -14.7% | Electric Machinery | 20.4% |
| Vermont | \$2,919,968,390 | \$3,021,999,099 | 0.2% | 3.5% | Electric Machinery | 61.9% |
| Maine | \$2,836,567,855 | \$2,710,897,507 | 0.2% | -4.4% | Fish & Crustaceans | 19.1% |
| Rhode Island | \$2,406,562,366 | \$2,679,314,695 | 0.2% | 11.3% | Prec. Stones; Jewelry | 36.2% |
| Montana | \$1,666,403,163 | \$1,656,614,696 | 0.1% | -0.6% | Tobacco & Mfg. Substitutes | 13.8% |
| Wyoming | \$1,356,922,150 | \$1,366,043,782 | 0.1% | 0.7% | Inorg. Chem.; Rare-Earths | 77.6% |
| South Dakota | \$1,436,683,296 | \$1,353,843,948 | 0.1% | -5.8% | Industrial Machinery | 18.0% |
| Hawaii | \$659,774,596 | \$446,736,802 | 0.0% | -32.3% | Mineral Fuel, Oil, etc | 30.7% |
| Territory/Unknown | \$70,580,211,947 | \$77,326,337,297 | 4.7% | 9.6% | --- | --- |

Ohio's Top Twenty Exports

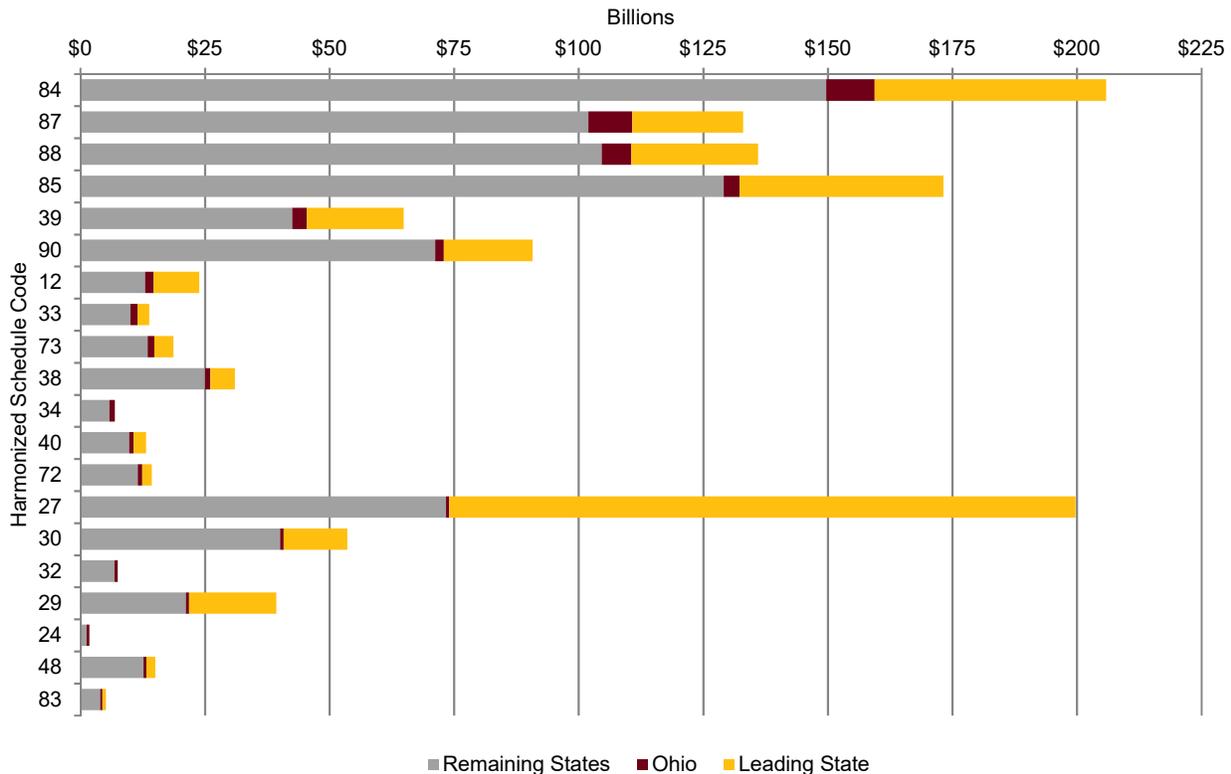
State Rank and Share of U.S. Exports



| Harmonized Schedule Code | Commodity | Ohio's State Ranking | Ohio's Share of U.S. Exports | Leading State | Leading State Share of U.S. Exports |
|--------------------------|---|----------------------|------------------------------|---------------|-------------------------------------|
| 84 | Industrial Machinery, Including Computers | 4th | 4.7% | Texas | 22.6% |
| 87 | Vehicles and Parts | 6th | 6.6% | Michigan | 16.8% |
| 88 | Aircraft; Spacecraft and Parts | 9th | 4.3% | Washington | 18.7% |
| 85 | Electric Machinery; Sound Equip.; TV Equip. | 11th | 1.8% | Texas | 23.6% |
| 39 | Plastics and Articles Thereof | 3rd | 4.6% | Texas | 29.9% |
| 90 | Optic, Photo; Medical Instruments | 15th | 1.9% | California | 19.6% |
| 12 | Oil Seed, Miscellaneous Grain | 3rd | 7.2% | Louisiana | 38.3% |
| 33 | Perfumery, Cosmetic, etc | 3rd | 10.0% | New Jersey | 17.3% |
| 73 | Iron and Steel Products | 4th | 7.0% | Texas | 20.5% |
| 38 | Miscellaneous Chemical Products | 8th | 3.4% | Texas | 15.9% |
| 34 | Soap, Waxes, Lubricating Preparations, etc | 1st | 15.2% | Ohio | 15.2% |
| 40 | Rubber and Articles Thereof | 3rd | 7.0% | Texas | 18.7% |
| 72 | Iron and Steel | 5th | 6.4% | California | 13.3% |
| 27 | Mineral Fuel, Oil, etc | 16th | 0.3% | Texas | 62.9% |
| 30 | Pharmaceutical Products | 15th | 1.3% | Puerto Rico | 23.8% |
| 32 | Tanning, Dye, Paint, Putty | 1st | 8.8% | Ohio | 8.8% |
| 29 | Organic Chemicals | 12th | 1.6% | Texas | 44.4% |
| 24 | Tobacco and Manufactured Substitutes | 1st | 30.9% | Ohio | 30.9% |
| 48 | Paper, Paperboard, Articles of Paper Pulp | 12th | 3.6% | Georgia | 11.9% |
| 83 | Miscellaneous Articles of Base Metal | 3rd | 9.0% | Texas | 14.0% |

Nesoi - Not elsewhere specified or indicated

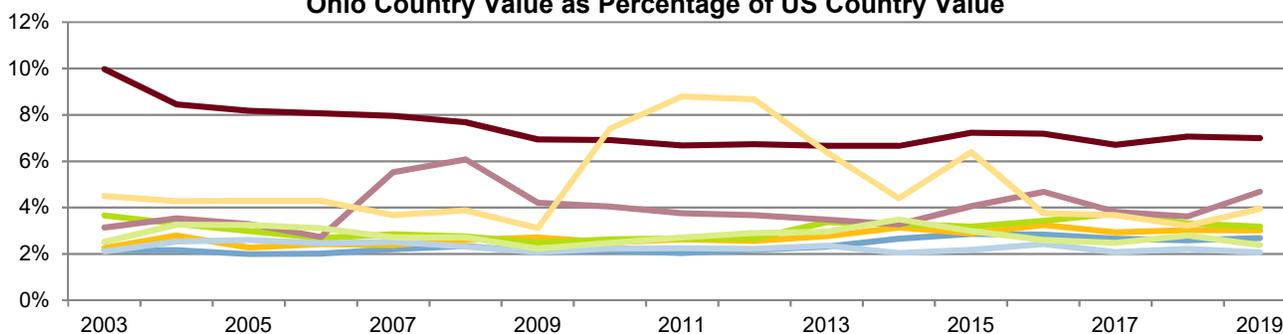
U.S. Distribution of Ohio's Top Twenty Exports



Ohio's Top 8 Destinations: 2019

| Destination | Value of Ohio Exports (billions) | % of Ohio Exports | % Chng 18 to 19 | US Rank | Value of US Exports (billions) | % of US Exports | % Chng 18 to 19 |
|-----------------------|----------------------------------|-------------------|-----------------|---------|--------------------------------|-----------------|-----------------|
| Total Exports | \$52.99 | 100.0% | -2.6% | | \$1,645.17 | 100.0% | -1.2% |
| Canada | \$20.47 | 38.6% | -3.4% | 1st | \$292.38 | 17.8% | -2.5% |
| Mexico | \$6.88 | 13.0% | 0.2% | 2nd | \$256.37 | 15.6% | -3.4% |
| China | \$3.22 | 6.1% | -11.5% | 3rd | \$106.63 | 6.5% | -11.3% |
| United Kingdom | \$2.20 | 4.1% | 0.0% | 5th | \$69.16 | 4.2% | 4.3% |
| Brazil | \$2.02 | 3.8% | 41.3% | 9th | \$43.08 | 2.6% | 8.9% |
| Japan | \$1.55 | 2.9% | -7.3% | 4th | \$74.65 | 4.5% | -0.8% |
| France | \$1.49 | 2.8% | 26.2% | 10th | \$37.77 | 2.3% | 3.2% |
| Germany | \$1.44 | 2.7% | -11.0% | 6th | \$60.30 | 3.7% | 4.4% |
| Remainder | \$13.72 | 25.9% | -6.1% | | \$704.83 | 42.8% | 0.0% |

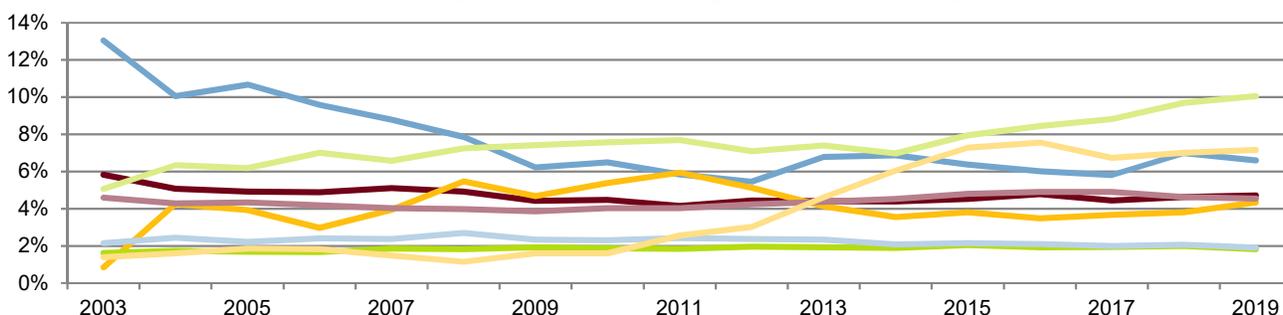
Ohio Country Value as Percentage of US Country Value



Ohio's Top 8 Exported Products: 2019

| Harmonized Schedule Code | Commodity | Value of Ohio Exports (billions) | % of Ohio Exports | % Chng 18 to 19 | US Rank | Value of US Exports (billions) | % of US Exports | % Chng 18 to 19 |
|--------------------------|--------------------------|----------------------------------|-------------------|-----------------|---------|--------------------------------|-----------------|-----------------|
| | Total Exports | \$52.99 | 100.0% | -2.6% | | \$1,645.17 | 100.0% | -1.2% |
| 84 | Industrial Machinery | \$9.70 | 18.3% | -1.8% | 1st | \$205.88 | 12.5% | -3.5% |
| 87 | Vehicles and Parts | \$8.77 | 16.6% | -4.0% | 5th | \$133.04 | 8.1% | 1.8% |
| 88 | Aircraft and Parts | \$5.91 | 11.2% | 11.1% | 4th | \$136.04 | 8.3% | -2.4% |
| 85 | Electric Machinery | \$3.18 | 6.0% | -9.9% | 3rd | \$173.19 | 10.5% | -1.8% |
| 39 | Plastics | \$2.95 | 5.6% | -4.3% | 7th | \$64.90 | 3.9% | -2.5% |
| 90 | Optic, Med. Instruments | \$1.74 | 3.3% | -6.1% | 6th | \$90.78 | 5.5% | 1.3% |
| 12 | Oil Seed, Misc. Grain | \$1.71 | 3.2% | 8.9% | 13th | \$23.89 | 1.5% | 6.6% |
| 33 | Perfumery, Cosmetic, etc | \$1.39 | 2.6% | 5.4% | 20th | \$13.86 | 0.8% | 1.7% |
| Multi | Remaining commodities | \$17.62 | 33.3% | -5.8% | | \$803.59 | 48.8% | -1.3% |

Ohio Commodity Value as Percentage of US Commodity Value



Ohio and U.S. Exports by Country

Value in Millions

| | Ohio | | | Ohio's Share of U.S. | US | | |
|----------------------|--------------------|---------------------|-------------------|----------------------------|-----------------------|-----------------------|-------------------|
| | 2019 | Total 2017-19 | Change 2018-19 | | 2019 | Total 2017-19 | Change 2018-19 |
| Total | \$52,987.23 | \$157,461.00 | -2.6% | 3.2% | \$1,645,174.33 | \$4,857,639.82 | -1.2% |
| Canada | \$20,468.70 | \$60,605.35 | -3.4% | 7.0% | \$292,381.89 | \$874,623.07 | -2.5% |
| Mexico | \$6,882.56 | \$20,241.33 | 0.2% | 2.7% | \$256,374.09 | \$765,324.39 | -3.4% |
| China | \$3,217.14 | \$10,666.63 | -11.5% | 3.0% | \$106,626.77 | \$356,572.50 | -11.3% |
| United Kingdom | \$2,198.37 | \$6,499.84 | 0.0% | 3.2% | \$69,156.51 | \$191,725.94 | 4.3% |
| Brazil | \$2,021.18 | \$4,874.76 | 41.3% | 4.7% | \$43,083.30 | \$119,973.69 | 8.9% |
| Japan | \$1,549.02 | \$4,624.80 | -7.3% | 2.1% | \$74,652.75 | \$217,467.14 | -0.8% |
| France | \$1,489.85 | \$3,905.93 | 26.2% | 3.9% | \$37,770.91 | \$107,983.08 | 3.2% |
| Germany | \$1,441.37 | \$4,398.46 | -11.0% | 2.4% | \$60,296.24 | \$172,010.04 | 4.4% |
| Korea, Republic Of | \$1,072.23 | \$3,129.79 | 10.4% | 1.9% | \$56,897.33 | \$161,754.31 | 0.7% |
| Netherlands | \$940.56 | \$2,600.13 | -2.3% | 1.8% | \$51,232.69 | \$141,410.58 | 5.2% |
| Taiwan | \$671.20 | \$1,677.17 | 19.9% | 2.1% | \$31,218.81 | \$87,515.15 | 2.2% |
| Singapore | \$647.84 | \$1,868.34 | -0.3% | 2.1% | \$31,549.57 | \$93,945.76 | -3.7% |
| United Arab Emirates | \$628.13 | \$1,921.32 | -8.2% | 3.1% | \$20,038.10 | \$59,628.07 | 2.7% |
| Australia | \$619.05 | \$1,967.11 | -11.9% | 2.4% | \$26,025.18 | \$75,853.48 | 2.8% |
| Belgium | \$611.07 | \$2,117.89 | -27.2% | 1.8% | \$34,768.98 | \$96,119.87 | 10.6% |
| Italy | \$608.39 | \$1,709.27 | -1.8% | 2.6% | \$23,790.18 | \$64,978.95 | 4.4% |
| India | \$551.13 | \$1,667.58 | -1.4% | 1.6% | \$34,409.59 | \$93,560.65 | 2.7% |
| Saudi Arabia | \$489.25 | \$1,270.57 | 15.2% | 3.4% | \$14,289.21 | \$44,245.35 | 5.1% |
| Thailand | \$421.30 | \$1,378.79 | -13.6% | 3.2% | \$13,307.86 | \$36,779.22 | 6.9% |
| Malaysia | \$358.61 | \$1,038.81 | -5.1% | 2.7% | \$13,120.00 | \$39,004.48 | 0.8% |
| Hong Kong | \$336.63 | \$1,513.34 | -39.8% | 1.1% | \$30,800.05 | \$107,965.02 | -17.4% |
| Switzerland | \$309.63 | \$1,102.26 | -7.0% | 1.7% | \$17,917.30 | \$61,784.26 | -19.2% |
| Egypt | \$278.10 | \$498.61 | 72.4% | 5.1% | \$5,485.81 | \$14,527.02 | 8.6% |
| Spain | \$265.10 | \$760.33 | 11.2% | 1.8% | \$15,101.43 | \$39,258.18 | 15.4% |
| Sweden | \$229.03 | \$652.09 | -2.6% | 5.3% | \$4,356.13 | \$12,559.99 | -2.5% |
| Chile | \$221.64 | \$587.87 | 4.7% | 1.4% | \$15,776.20 | \$44,785.29 | 2.6% |
| Israel | \$218.74 | \$644.59 | 0.9% | 1.5% | \$14,376.81 | \$40,631.58 | 4.9% |
| Indonesia | \$203.14 | \$760.76 | -34.9% | 2.6% | \$7,758.07 | \$22,792.87 | -5.1% |
| Poland | \$197.13 | \$527.53 | 3.2% | 3.3% | \$5,963.33 | \$15,838.90 | 11.4% |
| Kuwait | \$185.65 | \$453.40 | 78.5% | 5.9% | \$3,173.44 | \$11,254.82 | 6.4% |
| Russia | \$182.01 | \$520.21 | -9.3% | 3.1% | \$5,786.75 | \$19,448.65 | -13.1% |
| Colombia | \$181.82 | \$502.39 | 8.8% | 1.2% | \$14,780.14 | \$43,313.11 | -2.5% |
| Vietnam | \$169.15 | \$551.90 | -26.2% | 1.6% | \$10,883.07 | \$28,692.35 | 12.5% |
| Turkey | \$158.48 | \$647.68 | -37.3% | 1.6% | \$10,044.69 | \$30,077.87 | -2.1% |
| Bangladesh | \$151.95 | \$493.50 | 12.7% | 6.5% | \$2,327.03 | \$5,882.31 | 11.8% |
| Argentina | \$141.28 | \$690.59 | -61.5% | 1.7% | \$8,078.86 | \$27,608.27 | -18.6% |
| Philippines | \$131.52 | \$426.10 | -16.0% | 1.5% | \$8,660.37 | \$25,830.70 | -0.7% |
| Panama | \$121.14 | \$318.89 | -2.6% | 1.6% | \$7,720.66 | \$20,848.54 | 12.9% |
| Hungary | \$120.49 | \$398.32 | 6.4% | 6.3% | \$1,917.54 | \$5,558.51 | 9.4% |
| Qatar | \$116.29 | \$341.12 | -5.7% | 1.8% | \$6,458.79 | \$14,010.81 | 45.9% |
| Ireland | \$114.52 | \$308.81 | 17.8% | 1.3% | \$9,031.70 | \$30,464.58 | -15.8% |
| South Africa | \$112.85 | \$409.27 | -23.1% | 2.1% | \$5,333.72 | \$15,901.67 | -3.3% |
| Guatemala | \$104.21 | \$292.35 | 1.5% | 1.5% | \$6,830.47 | \$20,350.90 | 2.6% |
| Peru | \$93.45 | \$329.66 | -17.5% | 1.0% | \$9,687.25 | \$28,079.60 | -0.4% |
| Pakistan | \$91.13 | \$296.69 | 27.4% | 3.5% | \$2,621.68 | \$8,278.53 | -8.0% |

continued

Ohio and U.S. Exports by Country

Value in Millions

| | Ohio | | | Ohio's Share of U.S. | US | | |
|---------------------|---------|------------------|-------------------|----------------------------|------------|------------------|-------------------|
| | 2019 | Total 2017-19 | Change 2018-19 | | 2019 | Total 2017-19 | Change 2018-19 |
| Dominican Republic | \$88.40 | \$237.99 | 1.2% | 1.0% | \$9,207.77 | \$26,004.76 | 2.9% |
| Finland | \$82.25 | \$255.47 | -27.3% | 4.7% | \$1,763.48 | \$5,149.89 | -6.0% |
| New Zealand | \$77.65 | \$233.21 | -4.5% | 2.0% | \$3,950.19 | \$11,935.04 | -2.7% |
| Costa Rica | \$76.01 | \$242.61 | -19.0% | 1.2% | \$6,205.93 | \$18,849.06 | -4.5% |
| Czech Republic | \$60.42 | \$172.51 | 2.3% | 2.2% | \$2,790.47 | \$8,067.48 | -7.1% |
| Oman | \$59.54 | \$305.60 | -60.7% | 3.1% | \$1,937.70 | \$6,337.22 | -19.8% |
| Norway | \$54.50 | \$159.87 | -15.2% | 1.4% | \$3,873.28 | \$14,738.11 | -28.5% |
| Luxembourg | \$54.38 | \$123.71 | 24.9% | 2.8% | \$1,922.45 | \$4,085.02 | 77.3% |
| Nigeria | \$50.48 | \$133.95 | 8.7% | 1.6% | \$3,178.33 | \$8,037.94 | 18.3% |
| Trinidad And Tobago | \$48.31 | \$107.30 | 62.7% | 1.7% | \$2,819.99 | \$6,752.77 | 33.3% |
| Honduras | \$44.97 | \$124.76 | 0.4% | 0.8% | \$5,475.10 | \$16,129.23 | -2.0% |
| Austria | \$44.49 | \$148.84 | -16.9% | 0.8% | \$5,747.81 | \$13,585.92 | 61.3% |
| Morocco | \$44.10 | \$119.04 | -3.3% | 1.3% | \$3,479.29 | \$8,708.39 | 15.6% |
| Bahrain | \$41.74 | \$108.85 | -5.1% | 3.0% | \$1,407.87 | \$4,348.10 | -31.1% |
| Ethiopia | \$40.77 | \$134.71 | 84.6% | 4.0% | \$1,021.00 | \$3,206.40 | -22.0% |
| Denmark | \$40.01 | \$132.57 | -17.3% | 1.3% | \$3,159.87 | \$7,959.88 | 22.0% |
| Portugal | \$39.64 | \$110.31 | 28.8% | 2.3% | \$1,722.37 | \$4,487.99 | 9.5% |
| Ecuador | \$38.65 | \$125.49 | -17.1% | 0.7% | \$5,533.29 | \$16,262.34 | -6.2% |
| Jamaica | \$36.74 | \$124.88 | -17.5% | 1.5% | \$2,498.73 | \$7,220.84 | -4.3% |
| El Salvador | \$35.52 | \$105.36 | -7.5% | 1.1% | \$3,378.78 | \$9,849.06 | -0.6% |
| Lithuania | \$31.03 | \$86.04 | 2.5% | 3.3% | \$933.51 | \$2,249.22 | 32.1% |
| Haiti | \$30.52 | \$124.91 | -27.2% | 2.5% | \$1,235.44 | \$4,050.22 | -11.2% |
| Romania | \$29.91 | \$89.60 | 1.7% | 3.2% | \$942.54 | \$3,010.56 | -15.4% |
| Tunisia | \$27.51 | \$109.22 | -33.0% | 6.0% | \$461.07 | \$1,603.13 | -22.8% |
| Ukraine | \$27.35 | \$92.22 | -16.9% | 1.2% | \$2,354.83 | \$6,629.53 | -5.3% |
| Ghana | \$19.93 | \$53.37 | 22.9% | 2.4% | \$837.42 | \$2,465.70 | 8.9% |
| Uzbekistan | \$17.47 | \$31.02 | 95.8% | 3.5% | \$505.55 | \$938.16 | 70.5% |
| Bahamas | \$16.53 | \$39.88 | 36.6% | 0.5% | \$3,317.58 | \$9,378.38 | 10.5% |
| Slovenia | \$16.14 | \$27.68 | 126.4% | 4.7% | \$344.60 | \$1,037.93 | 7.1% |
| Jordan | \$15.26 | \$280.67 | -70.9% | 1.0% | \$1,474.45 | \$4,976.48 | -6.8% |
| Uruguay | \$15.17 | \$47.82 | -5.4% | 0.9% | \$1,710.62 | \$4,684.48 | 23.4% |
| Greece | \$15.02 | \$33.08 | 73.5% | 1.0% | \$1,443.62 | \$3,481.99 | 33.2% |
| Iraq | \$14.75 | \$32.19 | 25.5% | 1.2% | \$1,277.91 | \$3,794.98 | -2.6% |
| Lebanon | \$14.22 | \$49.49 | -29.7% | 1.4% | \$1,037.46 | \$3,587.18 | -21.9% |
| Macau | \$13.74 | \$39.79 | -8.6% | 2.4% | \$572.25 | \$1,676.17 | -4.9% |
| Estonia | \$12.38 | \$36.31 | -2.7% | 3.0% | \$410.17 | \$1,030.32 | 18.5% |
| Angola | \$11.86 | \$14.65 | 623.8% | 2.2% | \$536.17 | \$1,870.85 | 2.1% |
| Slovakia | \$11.50 | \$36.93 | 8.5% | 3.0% | \$389.07 | \$1,120.05 | 34.5% |
| Guyana | \$10.69 | \$33.25 | -3.1% | 1.6% | \$672.11 | \$1,590.50 | 24.3% |
| Paraguay | \$9.92 | \$23.38 | 49.4% | 0.5% | \$2,118.08 | \$7,087.78 | -6.2% |
| Iceland | \$9.09 | \$20.10 | 68.4% | 1.6% | \$555.01 | \$1,609.62 | -15.3% |
| Nicaragua | \$8.81 | \$46.88 | -39.3% | 0.5% | \$1,652.46 | \$4,868.36 | 1.4% |
| Sri Lanka | \$8.48 | \$27.61 | -13.1% | 2.2% | \$390.34 | \$1,098.11 | 5.1% |
| Kazakhstan | \$7.39 | \$20.73 | -2.5% | 1.0% | \$736.90 | \$2,018.60 | 1.0% |
| Gibraltar | \$7.19 | \$8.05 | 860.1% | 0.5% | \$1,421.70 | \$3,889.94 | 7.0% |
| Cayman Islands | \$7.19 | \$19.03 | 13.6% | 0.6% | \$1,129.28 | \$2,965.95 | 18.8% |

continued

Ohio and U.S. Exports by Country

Value in Millions

| | Ohio | | | Ohio's Share of U.S. | US | | |
|------------------------|--------|------------------|-------------------|----------------------------|------------|------------------|-------------------|
| | 2019 | Total 2017-19 | Change 2018-19 | | 2019 | Total 2017-19 | Change 2018-19 |
| Kenya | \$6.96 | \$93.76 | 62.3% | 1.8% | \$391.03 | \$1,210.53 | 7.0% |
| Bolivia | \$6.73 | \$19.98 | 4.2% | 1.3% | \$537.97 | \$1,694.19 | -4.2% |
| Latvia | \$6.66 | \$18.80 | -9.2% | 1.2% | \$541.50 | \$1,433.03 | 6.2% |
| Algeria | \$6.42 | \$24.63 | -14.3% | 0.6% | \$999.32 | \$3,322.21 | -20.8% |
| Aruba | \$6.42 | \$12.20 | 77.2% | 1.2% | \$519.24 | \$2,088.94 | -13.8% |
| Barbados | \$6.17 | \$19.40 | 1.9% | 1.1% | \$568.65 | \$1,690.60 | -4.7% |
| Afghanistan | \$6.08 | \$11.02 | 123.5% | 0.8% | \$750.62 | \$2,919.54 | -38.8% |
| Ivory Coast | \$6.06 | \$9.69 | 260.0% | 2.2% | \$278.45 | \$909.92 | -10.0% |
| Senegal | \$5.98 | \$12.31 | 57.2% | 3.0% | \$198.31 | \$695.35 | -31.4% |
| Serbia | \$5.29 | \$17.11 | -1.9% | 3.5% | \$150.61 | \$441.93 | -9.1% |
| Brunei | \$5.10 | \$7.45 | 309.6% | 1.8% | \$285.07 | \$672.08 | 7.2% |
| Belize | \$4.72 | \$12.36 | 30.4% | 1.2% | \$393.10 | \$1,094.64 | -3.4% |
| Bulgaria | \$4.55 | \$11.46 | 1.7% | 1.0% | \$462.39 | \$1,213.88 | 25.0% |
| Mongolia | \$4.41 | \$7.48 | 81.4% | 2.3% | \$192.70 | \$395.78 | 59.4% |
| Cambodia | \$4.28 | \$16.09 | -48.8% | 0.8% | \$513.42 | \$1,359.30 | 15.2% |
| Venezuela | \$4.15 | \$25.88 | -18.6% | 0.3% | \$1,272.23 | \$11,519.08 | -79.2% |
| Sint Maarten | \$4.15 | \$10.49 | 20.0% | 0.6% | \$688.87 | \$1,910.20 | 2.4% |
| Togo | \$3.94 | \$4.79 | 596.1% | 0.9% | \$430.79 | \$1,529.41 | -32.9% |
| Croatia | \$3.92 | \$9.79 | 29.0% | 0.5% | \$712.98 | \$1,774.67 | 15.9% |
| Macedonia | \$3.91 | \$7.01 | 138.2% | 10.2% | \$38.42 | \$121.07 | -7.1% |
| Grenada | \$3.83 | \$7.23 | 139.6% | 3.2% | \$118.19 | \$340.40 | -0.7% |
| Bermuda | \$3.76 | \$10.15 | 19.8% | 0.7% | \$577.65 | \$1,882.61 | -5.5% |
| Liechtenstein | \$3.57 | \$7.15 | 57.8% | 19.8% | \$18.06 | \$95.15 | -63.4% |
| Iran | \$3.39 | \$8.47 | 124.1% | 4.6% | \$73.14 | \$634.91 | -82.8% |
| Curacao | \$3.12 | \$8.35 | 30.0% | 0.8% | \$396.04 | \$1,801.98 | -43.7% |
| Cyprus | \$3.10 | \$7.15 | 47.0% | 1.5% | \$203.82 | \$418.50 | 54.1% |
| Bosnia And Herzegovina | \$3.06 | \$3.33 | 2585.8% | 5.1% | \$60.30 | \$133.11 | 32.1% |
| Uganda | \$2.92 | \$4.85 | 201.4% | 2.8% | \$104.50 | \$299.86 | 19.4% |
| Benin | \$2.90 | \$5.29 | 115.1% | 1.1% | \$267.02 | \$771.02 | 5.0% |
| Nepal | \$2.78 | \$7.11 | 61.2% | 2.3% | \$123.00 | \$254.34 | 121.7% |
| Malta | \$2.77 | \$7.03 | 11.3% | 1.9% | \$143.65 | \$637.71 | -28.5% |
| French Polynesia | \$2.63 | \$5.18 | 44.6% | 0.4% | \$651.18 | \$1,058.74 | 126.3% |
| Guinea | \$2.58 | \$6.26 | 18.6% | 2.1% | \$125.29 | \$355.37 | -1.4% |
| Sierra Leone | \$2.47 | \$5.98 | 16.5% | 3.2% | \$78.36 | \$228.96 | 9.7% |
| Burma (Myanmar) | \$2.37 | \$8.38 | -5.0% | 0.7% | \$344.99 | \$817.48 | 32.1% |
| East Timor | \$2.25 | \$2.82 | 601.1% | 47.0% | \$4.79 | \$8.86 | 219.0% |
| Suriname | \$2.01 | \$4.20 | 97.3% | 0.5% | \$375.75 | \$1,123.33 | -3.2% |
| Belarus | \$1.94 | \$7.73 | -49.2% | 1.6% | \$125.04 | \$330.20 | -5.6% |
| Tanzania | \$1.93 | \$6.43 | 24.1% | 0.6% | \$332.20 | \$809.40 | 0.1% |
| Mauritania | \$1.73 | \$3.74 | 69.1% | 1.9% | \$90.94 | \$307.18 | 2.9% |
| Libya | \$1.73 | \$7.48 | -35.9% | 0.4% | \$413.44 | \$792.10 | 69.6% |
| Gabon | \$1.66 | \$2.55 | 150.2% | 1.3% | \$129.35 | \$331.37 | 14.5% |
| Turkmenistan | \$1.66 | \$4.18 | 190.7% | 5.9% | \$28.27 | \$341.35 | -8.5% |
| Cameroon | \$1.66 | \$3.33 | 99.4% | 0.8% | \$200.43 | \$552.53 | 3.7% |
| Georgia | \$1.65 | \$7.88 | -64.5% | 0.2% | \$768.45 | \$1,628.96 | 60.9% |
| French Guiana | \$1.62 | \$2.22 | 174.2% | 0.3% | \$572.90 | \$965.77 | 148.9% |

continued

Ohio and U.S. Exports by Country

Value in Millions

| | Ohio | | | Ohio's Share of U.S. | US | | |
|---------------------------------|--------|------------------|-------------------|----------------------------|----------|------------------|-------------------|
| | 2019 | Total 2017-19 | Change 2018-19 | | 2019 | Total 2017-19 | Change 2018-19 |
| Madagascar | \$1.52 | \$3.96 | 32.9% | 2.3% | \$66.37 | \$233.20 | -41.6% |
| St. Lucia | \$1.50 | \$4.70 | 73.2% | 0.2% | \$852.29 | \$2,002.61 | 39.8% |
| Fiji | \$1.47 | \$4.20 | -2.5% | 1.4% | \$103.18 | \$274.74 | -1.7% |
| Burkina Faso | \$1.40 | \$2.63 | 143.3% | 2.1% | \$66.90 | \$187.45 | 12.4% |
| British Virgin Islands | \$1.32 | \$3.34 | 17.1% | 0.2% | \$580.46 | \$1,801.94 | -29.5% |
| Mauritius | \$1.09 | \$3.94 | -27.8% | 1.2% | \$87.17 | \$271.95 | -29.3% |
| Liberia | \$1.03 | \$2.91 | 17.6% | 0.9% | \$113.84 | \$448.87 | -42.1% |
| Azerbaijan | \$1.02 | \$25.63 | -95.5% | 0.3% | \$375.42 | \$1,043.91 | 19.6% |
| Mozambique | \$0.87 | \$2.40 | -6.8% | 0.4% | \$195.74 | \$557.43 | 6.1% |
| Gambia | \$0.81 | \$2.09 | 1.5% | 1.8% | \$44.99 | \$125.52 | 9.0% |
| Antigua And Barbuda | \$0.81 | \$2.35 | -19.8% | 0.2% | \$478.08 | \$1,416.76 | -6.8% |
| Anguilla | \$0.80 | \$2.12 | -18.9% | 0.9% | \$88.57 | \$263.68 | -23.4% |
| New Caledonia | \$0.79 | \$1.59 | 79.7% | 1.1% | \$74.45 | \$197.76 | 16.4% |
| Turks And Caicos Islands | \$0.78 | \$4.36 | -63.5% | 0.2% | \$346.45 | \$1,072.71 | -2.8% |
| Papua New Guinea | \$0.76 | \$8.27 | -14.3% | 0.8% | \$95.27 | \$288.12 | 9.5% |
| St.Christopher-Nevis | \$0.67 | \$1.85 | -17.8% | 0.3% | \$210.20 | \$663.11 | 0.4% |
| Zambia | \$0.65 | \$1.98 | -18.8% | 0.7% | \$99.31 | \$379.84 | -49.2% |
| Congo, Democratic Republic Of T | \$0.59 | \$1.86 | 12.4% | 0.5% | \$131.01 | \$285.27 | 68.0% |
| Djibouti | \$0.58 | \$0.87 | 638.6% | 0.4% | \$154.08 | \$424.13 | 36.7% |
| Federated States Of Micronesia | \$0.54 | \$0.97 | 104.8% | 1.2% | \$45.15 | \$136.72 | -3.4% |
| Martinique | \$0.52 | \$0.82 | 367.7% | 0.4% | \$133.52 | \$547.96 | -46.0% |
| St. Vincent | \$0.51 | \$1.50 | 60.0% | 0.5% | \$102.05 | \$265.77 | 23.9% |
| Albania | \$0.44 | \$1.36 | 68.6% | 0.5% | \$85.66 | \$206.95 | 44.7% |
| British Indian Ocean Terr. | \$0.43 | \$0.75 | 690.3% | 1.9% | \$23.02 | \$68.56 | 150.2% |
| Dominica | \$0.42 | \$7.09 | -89.9% | 0.1% | \$346.21 | \$689.46 | 96.4% |
| Namibia | \$0.40 | \$1.59 | -27.0% | 0.2% | \$194.64 | \$519.30 | -7.1% |
| Republic Of Yemen | \$0.32 | \$0.56 | 396.5% | 0.1% | \$270.22 | \$660.49 | 41.3% |
| Reunion | \$0.32 | \$0.55 | 1395.1% | 3.6% | \$8.94 | \$25.94 | 3.7% |
| Botswana | \$0.30 | \$3.78 | -86.0% | 0.3% | \$104.50 | \$279.45 | 27.6% |
| Somalia | \$0.27 | \$0.69 | 14.6% | 0.3% | \$105.43 | \$225.48 | 113.2% |
| Rwanda | \$0.27 | \$0.98 | -30.9% | 1.4% | \$18.86 | \$110.25 | -25.3% |
| Maldives | \$0.27 | \$2.64 | -70.4% | 0.7% | \$39.41 | \$111.51 | 4.5% |
| Guadeloupe | \$0.26 | \$1.08 | 139.9% | 0.1% | \$194.00 | \$757.48 | -39.3% |
| Chad | \$0.25 | \$0.39 | 147.6% | 0.3% | \$84.65 | \$168.65 | 60.7% |
| Mali | \$0.25 | \$2.59 | -69.4% | 0.4% | \$67.94 | \$208.65 | -13.8% |
| Swaziland | \$0.23 | \$0.96 | -36.8% | 1.2% | \$19.75 | \$77.22 | -40.9% |
| Zimbabwe | \$0.20 | \$1.72 | -73.7% | 0.5% | \$39.15 | \$112.81 | 16.0% |
| Laos | \$0.20 | \$0.37 | 127.1% | 1.2% | \$17.07 | \$58.73 | 6.7% |
| Niger | \$0.19 | \$0.48 | 68.9% | 0.3% | \$75.94 | \$181.97 | 23.0% |
| Equatorial Guinea | \$0.16 | \$0.17 | 2797.7% | 0.1% | \$214.77 | \$466.10 | 54.1% |
| Moldova | \$0.14 | \$0.65 | -60.3% | 0.7% | \$20.47 | \$51.51 | 52.5% |
| Congo, Republic Of The Congo | \$0.14 | \$0.85 | -64.3% | 0.1% | \$105.33 | \$323.10 | 4.9% |
| Seychelles | \$0.14 | \$0.64 | -45.2% | 0.7% | \$18.28 | \$48.14 | 27.1% |
| Central African Republic | \$0.11 | \$0.60 | 3.0% | 0.3% | \$36.99 | \$58.05 | 274.4% |
| Armenia | \$0.10 | \$0.58 | -46.1% | 0.2% | \$52.90 | \$154.49 | 13.6% |
| West Bank Admin By Israel | \$0.09 | \$0.12 | n.a. | 2.7% | \$3.25 | \$7.61 | 49.9% |

continued

Ohio and U.S. Exports by Country

Value in Millions

| | Ohio | | | Ohio's Share of U.S. | US | | |
|----------------------------|--------|------------------|-------------------|----------------------------|----------|------------------|-------------------|
| | 2019 | Total 2017-19 | Change 2018-19 | | 2019 | Total 2017-19 | Change 2018-19 |
| Mayotte | \$0.07 | \$0.07 | n.a. | 4.3% | \$1.70 | \$3.06 | 95.6% |
| Marshall Islands | \$0.07 | \$0.16 | 472.8% | 0.1% | \$100.06 | \$947.14 | -65.5% |
| Montenegro | \$0.06 | \$0.21 | -46.8% | 0.3% | \$18.47 | \$91.31 | -71.0% |
| Montserrat | \$0.06 | \$0.11 | 54.4% | 0.4% | \$15.85 | \$43.08 | -9.5% |
| Sudan | \$0.05 | \$6.02 | -99.1% | 0.1% | \$74.41 | \$239.11 | -21.9% |
| Tajikistan | \$0.05 | \$0.12 | -4.4% | 0.4% | \$11.19 | \$43.63 | -22.2% |
| Solomon Islands | \$0.05 | \$0.09 | n.a. | 0.2% | \$19.83 | \$40.85 | 69.2% |
| Vanuatu | \$0.03 | \$0.07 | -21.6% | 0.6% | \$4.65 | \$22.72 | -54.9% |
| Lesotho | \$0.02 | \$0.06 | 14.1% | 2.0% | \$1.21 | \$5.43 | -47.6% |
| Andorra | \$0.02 | \$0.21 | -87.4% | 0.7% | \$3.35 | \$9.70 | 9.3% |
| Faroe Islands | \$0.02 | \$0.10 | -47.7% | 0.7% | \$3.17 | \$7.61 | 31.6% |
| Cabo Verde | \$0.02 | \$0.18 | -9.6% | 0.3% | \$7.77 | \$25.48 | -9.2% |
| Malawi | \$0.02 | \$1.26 | -97.6% | 0.1% | \$22.83 | \$67.95 | 32.4% |
| Burundi | \$0.02 | \$0.26 | -88.6% | 0.7% | \$2.45 | \$25.13 | -83.1% |
| Greenland | \$0.02 | \$0.04 | -18.4% | 0.1% | \$18.56 | \$38.33 | 87.7% |
| Kosovo | \$0.02 | \$0.06 | 3.0% | 0.1% | \$16.03 | \$44.99 | -15.1% |
| South Sudan | \$0.01 | \$0.33 | -94.7% | 0.1% | \$22.31 | \$59.35 | -4.9% |
| Palau | \$0.01 | \$0.17 | -88.0% | 0.1% | \$19.58 | \$59.64 | -5.1% |
| Bhutan | \$0.01 | \$0.21 | -70.0% | 0.4% | \$2.84 | \$93.63 | -94.9% |
| Sao Tome And Principe | \$0.01 | \$0.01 | n.a. | 0.3% | \$2.70 | \$7.91 | 30.4% |
| St. Pierre And Miquelon | \$0.01 | \$0.01 | n.a. | 7.5% | \$0.09 | \$0.61 | -33.0% |
| Cocos Islands | \$0.01 | \$0.03 | n.a. | 7.3% | \$0.08 | \$0.88 | -75.9% |
| Guinea-Bissau | \$0.01 | \$0.08 | -91.9% | 0.5% | \$1.24 | \$23.55 | -93.3% |
| Comoros | \$0.01 | \$0.09 | n.a. | 0.3% | \$1.51 | \$5.67 | -45.5% |
| Cook Islands | \$0.00 | \$0.01 | n.a. | 0.0% | \$10.65 | \$23.10 | 47.6% |
| Heard And Mcdonald Islands | \$0.00 | \$0.01 | -51.7% | 3.7% | \$0.12 | \$0.36 | 4.6% |
| Tonga | \$0.00 | \$0.08 | -94.8% | 0.0% | \$20.42 | \$61.27 | -15.3% |
| Syria | \$0.00 | \$0.58 | -99.2% | 0.0% | \$8.60 | \$66.08 | -83.0% |
| Cuba | \$0.00 | \$4.97 | -100.0% | 0.0% | \$286.80 | \$853.96 | 4.0% |
| Monaco | \$0.00 | \$0.15 | -100.0% | 0.0% | \$75.97 | \$347.62 | -66.9% |
| Western Samoa | \$0.00 | \$0.11 | -100.0% | 0.0% | \$52.68 | \$130.08 | 34.7% |
| Kyrgyzstan | \$0.00 | \$0.18 | -100.0% | 0.0% | \$20.95 | \$64.04 | 23.1% |
| Gaza Strip Admin By Israel | \$0.00 | \$0.05 | -100.0% | 0.0% | \$0.08 | \$1.12 | -84.2% |
| Fr.Sthern.,Antarctic Lands | \$0.00 | \$0.02 | -100.0% | 0.0% | \$6.81 | \$10.47 | 732.0% |
| Eritrea | \$0.00 | \$0.06 | -100.0% | 0.0% | \$14.32 | \$27.53 | 74.9% |
| Tokelau Islands | \$0.00 | \$0.06 | n.a. | 0.0% | \$0.43 | \$23.38 | -98.0% |
| St. Helena | \$0.00 | \$0.01 | n.a. | 0.0% | \$0.57 | \$1.88 | -20.4% |
| Falkland Islands | \$0.00 | \$0.01 | n.a. | 0.0% | \$0.32 | \$1.01 | 47.8% |
| Kiribati | \$0.00 | \$0.00 | n.a. | 0.0% | \$2.19 | \$11.56 | -50.7% |
| San Marino | \$0.00 | \$0.00 | n.a. | 0.0% | \$31.69 | \$35.36 | 1922.4% |
| Western Sahara | \$0.00 | \$0.00 | n.a. | 0.0% | \$21.20 | \$21.88 | 8053.3% |
| Svalbard, Jan Mayen Island | \$0.00 | \$0.00 | n.a. | 0.0% | \$4.19 | \$9.73 | 17.8% |
| Christmas Island | \$0.00 | \$0.00 | n.a. | 0.0% | \$1.60 | \$2.85 | 105.3% |
| Nauru | \$0.00 | \$0.00 | n.a. | 0.0% | \$1.23 | \$2.23 | 54.6% |
| Tuvalu Islands | \$0.00 | \$0.00 | n.a. | 0.0% | \$0.83 | \$2.99 | -38.8% |
| Vatican City | \$0.00 | \$0.00 | n.a. | 0.0% | \$0.72 | \$2.05 | 291.1% |

continued

Ohio and U.S. Exports by Country

Value in Millions

| | Ohio | | | Ohio's Share of U.S. | US | | |
|-------------------|--------|------------------|-------------------|----------------------------|--------|------------------|-------------------|
| | 2019 | Total 2017-19 | Change 2018-19 | | 2019 | Total 2017-19 | Change 2018-19 |
| Wallis And Futuna | \$0.00 | \$0.00 | n.a. | 0.0% | \$0.47 | \$1.96 | -60.3% |
| Niue | \$0.00 | \$0.00 | n.a. | 0.0% | \$0.25 | \$1.60 | -80.0% |
| Norfolk Island | \$0.00 | \$0.00 | n.a. | 0.0% | \$0.01 | \$0.35 | -93.6% |
| Pitcairn Island | \$0.00 | \$0.00 | n.a. | 0.0% | \$0.01 | \$0.09 | -92.6% |
| North Korea | \$0.00 | \$0.00 | n.a. | n.a. | \$0.00 | \$0.01 | -100.0% |

Ohio and U.S. Exports by Commodity

Value in Millions

| Harmonized Tariff Schedule | | Ohio | | | Ohio's Share of U.S. | US | | |
|--|---|--------------------|---------------------|-------------------|----------------------------|-----------------------|-----------------------|-------------------|
| | | 2019 | Total 2017-19 | Change 2018-19 | | 2019 | Total 2017-19 | Change 2018-19 |
| | Total | \$52,987.23 | \$157,461.00 | -2.6% | 3.2% | \$1,645,174.33 | \$4,857,639.82 | -1.2% |
| Section I: Live Animals; Animal Products | | | | | | | | |
| 01 | Live Animals | \$8.28 | \$33.16 | -43.1% | 0.8% | \$1,053.28 | \$3,166.85 | -4.8% |
| 02 | Meat | \$83.11 | \$248.55 | -2.6% | 0.5% | \$17,661.59 | \$51,328.99 | 2.3% |
| 03 | Fish & Crustaceans | \$1.95 | \$10.07 | -43.0% | 0.0% | \$4,878.74 | \$15,523.80 | -7.1% |
| 04 | Dairy Products; Eggs; Honey; Edible Animal Products Nesoi | \$29.88 | \$122.73 | -43.8% | 0.6% | \$4,968.49 | \$14,065.12 | 7.5% |
| 05 | Products Of Animal Origin, Nesoi | \$86.17 | \$237.23 | 10.6% | 6.6% | \$1,302.61 | \$3,755.72 | 0.0% |
| Section Totals | | \$209.38 | \$651.74 | -10.7% | 0.7% | \$29,864.71 | \$87,840.48 | 1.1% |
| Section II: Vegetable Products | | | | | | | | |
| 06 | Live Trees, Plants, Bulbs Etc.; Cut Flowers Etc. | \$13.51 | \$39.92 | -1.5% | 3.0% | \$456.03 | \$1,363.47 | -0.9% |
| 07 | Edible Vegetables & Certain Roots & Tubers | \$78.88 | \$223.87 | -1.7% | 1.7% | \$4,685.87 | \$13,976.00 | 4.0% |
| 08 | Edible Fruit & Nuts; Citrus Fruit Or Melon Peel | \$1.26 | \$5.81 | -18.7% | 0.0% | \$15,089.57 | \$44,660.97 | 2.7% |
| 09 | Coffee, Tea, Mate & Spices | \$5.49 | \$22.13 | -14.6% | 0.5% | \$1,095.16 | \$3,415.46 | -4.8% |
| 10 | Cereals | \$58.35 | \$181.72 | 5.8% | 0.3% | \$16,881.21 | \$56,504.59 | -19.7% |
| 11 | Milling Products; Malt; Starch; Inulin; Wheat Gluten | \$9.86 | \$22.89 | 60.6% | 1.0% | \$950.49 | \$2,779.81 | 3.7% |
| 12 | Oil Seeds Etc.; Miscellaneous Grain, Seed, Fruit, Plant Etc | \$1,713.49 | \$5,065.18 | 8.9% | 7.2% | \$23,892.19 | \$72,700.20 | 6.6% |
| 13 | Lac; Gums, Resins & Other Vegetable Sap & Extract | \$28.77 | \$56.92 | 81.3% | 4.3% | \$666.98 | \$1,919.40 | -3.4% |
| 14 | Vegetable Plaiting Materials & Products Nesoi | \$0.30 | \$1.72 | -52.3% | 1.1% | \$27.02 | \$104.90 | -29.8% |
| Section Totals | | \$1,909.91 | \$5,620.17 | 9.0% | 3.0% | \$63,744.53 | \$197,424.80 | -3.3% |
| Section III: Animal or Vegetable Fats and Oils and Their Cleavage Products; Prepared Edible Fats; Animal or Vegetable Waxes | | | | | | | | |
| 15 | Animal Or Vegetable Fats, Oils & Waxes | \$53.14 | \$146.63 | 10.9% | 1.7% | \$3,087.49 | \$9,568.98 | -2.4% |
| Section Totals | | \$53.14 | \$146.63 | 10.9% | 1.7% | \$3,087.49 | \$9,568.98 | -2.4% |

Nesoi - Not elsewhere specified or indicated

continued

Ohio and U.S. Exports by Commodity

Value in Millions

| Harmonized Tariff Schedule | | Ohio | | | Ohio's Share of U.S. | US | | |
|---|---|-------------------|-------------------|-------------------|----------------------------|---------------------|---------------------|-------------------|
| | | 2019 | Total 2017-19 | Change 2018-19 | | 2019 | Total 2017-19 | Change 2018-19 |
| Section IV: Prepared Foodstuffs; Beverages, Spirits, and Vinegar; Tobacco and Manufactured Tobacco Substitutes | | | | | | | | |
| 16 | Edible Preparations Of Meat, Fish, Crustaceans Etc | \$168.24 | \$508.83 | -2.3% | 8.1% | \$2,067.77 | \$6,413.95 | -5.3% |
| 17 | Sugars & Sugar Confectionary | \$41.67 | \$145.20 | -6.7% | 2.2% | \$1,923.24 | \$5,953.79 | -4.2% |
| 18 | Cocoa & Cocoa Preparations | \$7.91 | \$29.09 | -41.8% | 0.4% | \$1,921.53 | \$5,848.74 | -0.8% |
| 19 | Preparations Of Cereal, Flour, Starch Or Milk; Bakers Wares | \$205.72 | \$632.68 | -8.7% | 4.9% | \$4,224.98 | \$12,452.00 | 1.5% |
| 20 | Preparations Vegetables, Fruit, Nuts Or Other Plant Parts | \$76.18 | \$228.29 | 4.3% | 1.5% | \$4,965.14 | \$15,032.15 | -2.2% |
| 21 | Miscellaneous Edible Preparations | \$268.11 | \$681.37 | 25.2% | 2.9% | \$9,374.20 | \$26,804.01 | 5.1% |
| 22 | Beverages, Spirits & Vinegar | \$77.30 | \$203.81 | 21.5% | 0.9% | \$8,276.01 | \$25,283.95 | -5.0% |
| 23 | Food Industry Residues & Waste; Prepared Animal Feed | \$312.52 | \$873.22 | 1.2% | 3.0% | \$10,430.28 | \$31,138.62 | -6.4% |
| 24 | Tobacco & Manufactured Tobacco Substitutes | \$556.83 | \$1,922.24 | -26.2% | 30.9% | \$1,803.11 | \$6,307.88 | -22.4% |
| Section Totals | | \$1,714.49 | \$5,224.74 | -8.3% | 3.8% | \$44,986.25 | \$135,235.09 | -3.2% |
| Section V: Mineral Products | | | | | | | | |
| 25 | Salt; Sulfur; Earth & Stone; Lime & Cement Plaster | \$74.18 | \$211.22 | 19.1% | 2.9% | \$2,597.17 | \$8,448.30 | -13.7% |
| 26 | Ores, Slag & Ash | \$139.45 | \$389.16 | -4.5% | 1.9% | \$7,379.68 | \$20,146.05 | 9.2% |
| 27 | Mineral Fuel, Oil Etc.; Bitumin Substances; Mineral Wax | \$683.05 | \$1,795.26 | 16.7% | 0.3% | \$199,735.69 | \$531,499.17 | 3.7% |
| Section Totals | | \$896.67 | \$2,395.64 | 13.0% | 0.4% | \$209,712.53 | \$560,093.52 | 3.6% |

continued

Ohio and U.S. Exports by Commodity

Value in Millions

| Harmonized Tariff Schedule | | Ohio | | | Ohio's Share of U.S. | US | | |
|--|--|-------------------|--------------------|-------------------|----------------------------|---------------------|---------------------|-------------------|
| | | 2019 | Total 2017-19 | Change 2018-19 | | 2019 | Total 2017-19 | Change 2018-19 |
| Section VI: Products of the Chemical or Allied Industries | | | | | | | | |
| 28 | Inorganic Chemicals; Precious & Rare-Earth Metals & Radioactive Compounds | \$245.89 | \$747.18 | -9.0% | 2.1% | \$11,474.94 | \$36,328.68 | -7.9% |
| 29 | Organic Chemicals | \$646.79 | \$1,995.59 | -2.8% | 1.6% | \$39,327.26 | \$115,946.05 | -2.5% |
| 30 | Pharmaceutical Products | \$672.85 | \$2,086.56 | -16.4% | 1.3% | \$53,561.67 | \$146,843.65 | 10.8% |
| 31 | Fertilizers | \$39.90 | \$126.62 | -4.7% | 1.0% | \$4,134.41 | \$12,064.25 | -0.6% |
| 32 | Tanning & Dye Extracts Etc; Dye, Paint, Putty Etc; Inks | \$661.40 | \$1,850.34 | 10.6% | 8.8% | \$7,548.29 | \$23,398.11 | -5.5% |
| 33 | Essential Oils Etc; Perfumery, Cosmetic Preparations | \$1,392.52 | \$3,857.48 | 5.4% | 10.0% | \$13,857.68 | \$40,432.93 | 1.7% |
| 34 | Soap Etc; Waxes, Polish Etc; Candles; Dental Preparations | \$1,052.18 | \$2,943.75 | 6.4% | 15.2% | \$6,927.24 | \$21,405.63 | -4.7% |
| 35 | Albuminoidal Substances; Modified Starch; Glue; Enzymes | \$154.64 | \$444.19 | -0.3% | 4.2% | \$3,688.44 | \$10,867.04 | 2.9% |
| 36 | Explosives; Pyrotechnics; Matches; Pyrophoric Alloys Etc | \$10.08 | \$36.00 | -33.9% | 1.3% | \$760.88 | \$2,307.01 | 0.0% |
| 37 | Photographic Or Cinematographic Goods | \$22.96 | \$111.90 | -46.4% | 1.0% | \$2,297.27 | \$6,709.07 | 3.5% |
| 38 | Miscellaneous Chemical Products | \$1,064.16 | \$3,082.27 | 0.4% | 3.4% | \$31,065.80 | \$89,041.82 | 2.5% |
| Section Totals | | \$5,963.36 | \$17,281.88 | 0.0% | 3.4% | \$174,643.90 | \$505,344.25 | 2.1% |
| Section VII: Plastics and Articles Thereof; Rubber and Articles Thereof | | | | | | | | |
| 39 | Plastics & Articles Thereof | \$2,954.07 | \$9,078.42 | -4.3% | 4.6% | \$64,904.03 | \$193,398.10 | -2.5% |
| 40 | Rubber & Articles Thereof | \$931.07 | \$3,163.41 | -14.6% | 7.0% | \$13,206.99 | \$40,623.19 | -5.5% |
| Section Totals | | \$3,885.15 | \$12,241.83 | -7.0% | 5.0% | \$78,111.02 | \$234,021.29 | -3.0% |

continued

Ohio and U.S. Exports by Commodity

Value in Millions

| Harmonized Tariff Schedule | | Ohio | | | Ohio's Share of U.S. | US | | |
|--|---|-----------------|-------------------|-------------------|----------------------------|--------------------|--------------------|-------------------|
| | | 2019 | Total 2017-19 | Change 2018-19 | | 2019 | Total 2017-19 | Change 2018-19 |
| Section VIII: Raw Hides and Skins, Leather, Furskins and Articles Thereof; Saddlery and Harness; Travel Goods, Handbags and Similar Containers | | | | | | | | |
| 41 | Raw Hides & Skins & Leather | \$4.60 | \$16.32 | -29.8% | 0.3% | \$1,700.31 | \$6,609.35 | -23.1% |
| 42 | Leather Articles; Saddlery Etc; Handbags | \$86.15 | \$214.40 | 32.8% | 5.2% | \$1,666.08 | \$4,915.10 | -1.7% |
| 43 | Furskins & Artificial Fur; Manufactures Thereof | \$3.77 | \$12.27 | -52.2% | 2.6% | \$144.93 | \$632.02 | -27.6% |
| Section Totals | | \$94.53 | \$242.99 | 19.2% | 2.7% | \$3,511.32 | \$12,156.47 | -14.5% |
| Section IX: Wood and Articles of Wood; Wood Charcoal; Cork and Articles of Cork; Manufacturers of Straw, Esparto or Other Plaiting Materials; Basketware and Wickerwork | | | | | | | | |
| 44 | Wood & Articles Of Wood; Wood Charcoal | \$262.06 | \$933.75 | -19.5% | 3.2% | \$8,280.27 | \$27,923.89 | -16.1% |
| 45 | Cork & Articles Of Cork | \$0.21 | \$0.41 | 114.9% | 0.9% | \$23.23 | \$71.33 | -0.8% |
| 46 | Manufactures Of Straw, Esparto Etc.; Basketware & Wickerwork | \$0.78 | \$1.49 | 215.4% | 4.4% | \$17.85 | \$56.51 | -12.9% |
| Section Totals | | \$263.06 | \$935.64 | -19.3% | 3.2% | \$8,321.35 | \$28,051.73 | -16.0% |
| Section X: Pulp of Wood or Other Fibrous Cellulosic Material; Waste and Scrap of Paper or Paperboard; Paper and Paperboard and Articles Thereof | | | | | | | | |
| 47 | Wood Pulp Etc; Recovered (Waste & Scrap) Paper & Paperboard | \$37.94 | \$156.02 | -29.3% | 0.4% | \$8,518.12 | \$26,695.78 | -9.5% |
| 48 | Paper & Paperboard & Articles (Including Paper Pulp Articles) | \$543.71 | \$1,686.05 | -4.2% | 3.6% | \$15,066.62 | \$47,226.48 | -8.1% |
| 49 | Printed Books, Newspapers Etc; Manuscripts Etc | \$81.05 | \$317.74 | -24.6% | 1.9% | \$4,226.35 | \$13,018.00 | -2.5% |
| Section Totals | | \$662.70 | \$2,159.80 | -9.1% | 2.4% | \$27,811.09 | \$86,940.25 | -7.7% |

continued

Ohio and U.S. Exports by Commodity

Value in Millions

| Harmonized Tariff Schedule | | Ohio | | | Ohio's Share of U.S. | US | | |
|---|---|-----------------|-------------------|-------------------|----------------------------|--------------------|--------------------|-------------------|
| | | 2019 | Total 2017-19 | Change 2018-19 | | 2019 | Total 2017-19 | Change 2018-19 |
| Section XI: Textile and Textile Articles | | | | | | | | |
| 50 | Silk, Including Yarns & Woven Fabric Thereof | \$0.02 | \$0.20 | -81.9% | 0.3% | \$7.46 | \$28.52 | -6.4% |
| 51 | Wool & Animal Hair, Including Yarn & Woven Fabric | \$0.11 | \$0.58 | -63.8% | 0.2% | \$60.18 | \$211.59 | -21.1% |
| 52 | Cotton, Including Yarn & Woven Fabric Thereof | \$7.53 | \$15.09 | 54.2% | 0.1% | \$7,905.84 | \$23,918.72 | -5.6% |
| 53 | Other Vegetable Textile Fibers Nesoi; Paper Yarns & Woven Fabric | \$0.73 | \$2.55 | -21.6% | 4.1% | \$17.80 | \$57.73 | -10.3% |
| 54 | Manmade Filaments | \$4.04 | \$17.48 | -32.1% | 0.2% | \$1,711.71 | \$5,253.49 | -3.0% |
| 55 | Manmade Staple Fibers | \$16.24 | \$53.40 | -17.4% | 0.7% | \$2,215.00 | \$6,659.07 | -2.8% |
| 56 | Wadding, Felt Etc; Special Yarns; Twine, Ropes Etc. | \$52.90 | \$168.46 | -10.6% | 2.2% | \$2,423.59 | \$7,311.83 | -2.3% |
| 57 | Carpets & Other Textile Floor Coverings | \$17.80 | \$56.70 | -4.5% | 2.0% | \$909.95 | \$2,887.01 | -6.9% |
| 58 | Special Woven Fabrics; Tufted Fabrics; Lace; Tapestries Etc | \$7.25 | \$22.54 | -12.1% | 1.5% | \$467.81 | \$1,464.40 | -7.3% |
| 59 | Impregnated/Coated Textile Fabrics; Textile Articles For Industrial Use | \$49.66 | \$149.98 | -11.4% | 2.3% | \$2,149.09 | \$6,779.38 | -8.1% |
| 60 | Knitted Or Crocheted Fabrics | \$2.35 | \$7.26 | -10.7% | 0.3% | \$824.55 | \$2,575.79 | -5.1% |
| 61 | Apparel Articles & Accessories, Knit Or Crochet | \$203.34 | \$571.69 | 11.2% | 6.9% | \$2,961.05 | \$8,551.01 | 1.9% |
| 62 | Apparel Articles & Accessories, Not Knit Or Crochet | \$213.71 | \$675.01 | -17.7% | 9.5% | \$2,243.55 | \$6,932.20 | -6.1% |
| 63 | Textile Articles Nesoi; Needlecraft Sets; Worn Textile Articles | \$28.31 | \$92.37 | -0.5% | 1.3% | \$2,220.36 | \$6,537.65 | 1.9% |
| Section Totals | | \$604.01 | \$1,833.29 | -6.7% | 2.3% | \$26,117.92 | \$79,168.40 | -3.9% |

Nesoi - Not elsewhere specified or indicated

continued

Ohio and U.S. Exports by Commodity

Value in Millions

| Harmonized Tariff Schedule | | Ohio | | | Ohio's Share of U.S. | US | | |
|---|--|-----------------|-------------------|-------------------|----------------------------|--------------------|---------------------|-------------------|
| | | 2019 | Total 2017-19 | Change 2018-19 | | 2019 | Total 2017-19 | Change 2018-19 |
| Section XII: Footwear, Headgear, Umbrellas, Sun Umbrellas, Walking Sticks, Seasticks, Whips, Riding-Crops and Parts Thereof; Prepared Feathers and Articles Made Therewith; Artificial Flowers; Articles of Human Hair | | | | | | | | |
| 64 | Footwear, Gaiters Etc. & Parts Thereof | \$25.37 | \$148.96 | -64.8% | 1.6% | \$1,635.10 | \$4,629.82 | 4.7% |
| 65 | Headgear & Parts Thereof | \$19.28 | \$62.81 | -18.9% | 5.8% | \$334.03 | \$964.49 | 1.5% |
| 66 | Umbrellas, Walking-Sticks, Riding-Crops Etc, Parts | \$0.52 | \$1.50 | -2.0% | 1.3% | \$39.21 | \$114.36 | 6.4% |
| 67 | Prepared Feathers, Down Etc; Artificial Flowers; Human Hair Articles | \$1.58 | \$3.74 | 34.1% | 1.1% | \$148.91 | \$462.79 | -7.6% |
| Section Totals | | \$46.74 | \$217.00 | -52.1% | 2.2% | \$2,157.25 | \$6,171.46 | 3.3% |
| Section XIII: Articles of Stone, Plaster, Cement, Asbestos, Mica or Similar Materials; Ceramic Products; Glass and Glassware | | | | | | | | |
| 68 | Articles Of Stone, Plaster, Cement, Asbestos, Mica Etc. | \$220.34 | \$699.65 | -8.8% | 5.5% | \$4,017.21 | \$12,075.01 | -2.1% |
| 69 | Ceramic Products | \$74.52 | \$236.28 | -12.9% | 3.6% | \$2,097.19 | \$6,080.17 | 2.1% |
| 70 | Glass And Glassware | \$419.64 | \$1,351.86 | -9.0% | 7.6% | \$5,540.94 | \$17,180.54 | -4.6% |
| Section Totals | | \$714.51 | \$2,287.79 | -9.4% | 6.1% | \$11,655.33 | \$35,335.71 | -2.6% |
| Section XIV: Natural or Cultured Pearls, Precious or Semiprecious Stones, Precious Metals, Metals Clad With Precious Metal, and Articles Thereof; Imitation Jewelry; Coin | | | | | | | | |
| 71 | Natural/Cultured Pearls, Precious Stones/Metals; Coin | \$133.33 | \$462.60 | -16.8% | 0.2% | \$59,609.83 | \$183,664.29 | -6.6% |
| Section Totals | | \$133.33 | \$462.60 | -16.8% | 0.2% | \$59,609.83 | \$183,664.29 | -6.6% |

continued

Ohio and U.S. Exports by Commodity

Value in Millions

| Harmonized Tariff Schedule | | Ohio | | | Ohio's Share of U.S. | US | | |
|---|--|--------------------|--------------------|-------------------|----------------------------|---------------------|-----------------------|-------------------|
| | | 2019 | Total 2017-19 | Change 2018-19 | | 2019 | Total 2017-19 | Change 2018-19 |
| Section XV: Base Metals and Articles of Base Metal | | | | | | | | |
| 72 | Iron & Steel | \$914.14 | \$3,194.19 | -17.8% | 6.4% | \$14,378.70 | \$46,980.45 | -12.8% |
| 73 | Articles Of Iron Or Steel | \$1,301.21 | \$4,098.09 | -8.7% | 7.0% | \$18,687.07 | \$56,386.04 | -3.0% |
| 74 | Copper & Articles Thereof | \$294.66 | \$927.50 | -11.6% | 4.0% | \$7,313.54 | \$22,912.64 | -13.1% |
| 75 | Nickel & Articles Thereof | \$121.09 | \$351.66 | -1.0% | 3.9% | \$3,118.56 | \$7,884.81 | 13.0% |
| 76 | Aluminum & Articles Thereof | \$429.44 | \$1,526.26 | -24.5% | 3.9% | \$10,937.90 | \$35,112.38 | -13.1% |
| 78 | Lead & Articles Thereof | \$3.85 | \$10.99 | -10.8% | 2.6% | \$149.40 | \$609.85 | -48.8% |
| 79 | Zinc & Articles Thereof | \$5.64 | \$22.79 | -30.9% | 1.5% | \$363.70 | \$1,242.78 | -14.9% |
| 80 | Tin & Articles Thereof | \$3.82 | \$15.46 | -35.3% | 2.4% | \$161.64 | \$462.37 | 6.8% |
| 81 | Base Metals Nesoi; Cermets; Articles Thereof | \$299.49 | \$927.18 | -4.9% | 9.5% | \$3,168.89 | \$9,225.91 | -0.4% |
| 82 | Tools, Cutlery Etc. Of Base Metal & Parts Thereof | \$440.22 | \$1,294.73 | 1.2% | 9.5% | \$4,618.32 | \$14,099.19 | -4.4% |
| 83 | Miscellaneous Articles Of Base Metal | \$466.66 | \$1,403.32 | -5.1% | 9.0% | \$5,181.12 | \$15,158.43 | 1.1% |
| Section Totals | | \$4,280.21 | \$13,772.19 | -11.2% | 6.3% | \$68,078.84 | \$210,074.86 | -7.4% |
| Section XVI: Machinery and Mechanical Appliances; Electrical Equipment; Parts Thereof; Sound Recorders and Reproducers, Television Image and Sound Recorders and Reproducers, and Parts and Accessories of Such Articles | | | | | | | | |
| 84 | Industrial Machinery, Including Computers | \$9,701.24 | \$28,565.84 | -1.8% | 4.7% | \$205,879.70 | \$621,317.65 | -3.5% |
| 85 | Electric Machinery; Sound Equipment; TV Equipment; Parts | \$3,176.09 | \$10,089.47 | -9.9% | 1.8% | \$173,185.14 | \$523,787.09 | -1.8% |
| Section Totals | | \$12,877.32 | \$38,655.30 | -3.9% | 3.4% | \$379,064.84 | \$1,145,104.74 | -2.7% |
| Section XVII: Vehicles, Aircraft, Vessels and Associated Transport Equipment | | | | | | | | |
| 86 | Railway Stock Etc; Traffic Signal Equipment | \$114.21 | \$324.77 | 2.1% | 3.3% | \$3,450.23 | \$9,976.19 | 3.4% |
| 87 | Vehicles, Except Railway & Parts Etc | \$8,772.12 | \$25,494.93 | -4.0% | 6.6% | \$133,040.76 | \$394,178.24 | 1.8% |
| 88 | Aircraft, Spacecraft, & Parts Thereof | \$5,914.31 | \$16,047.82 | 11.1% | 4.3% | \$136,043.36 | \$406,602.68 | -2.4% |
| 89 | Ships, Boats & Floating Structures | \$5.61 | \$18.07 | -11.9% | 0.2% | \$2,365.41 | \$7,133.37 | -9.1% |
| Section Totals | | \$14,806.25 | \$41,885.58 | 1.6% | 5.4% | \$274,899.75 | \$817,890.48 | -0.4% |

Nesoi - Not elsewhere specified or indicated

continued

Ohio and U.S. Exports by Commodity

Value in Millions

| Harmonized Tariff Schedule | | Ohio | | | Ohio's Share of U.S. | US | | |
|---|--|-------------------|-------------------|-------------------|----------------------------|--------------------|---------------------|-------------------|
| | | 2019 | Total 2017-19 | Change 2018-19 | | 2019 | Total 2017-19 | Change 2018-19 |
| Section XVIII: Optical, Photographic, Cinematographic, Measuring, Checking, Precision, Medical or Surgical Instruments and Apparatus; Clocks and Watches; Musical Instruments; Parts and Accessories Thereof | | | | | | | | |
| 90 | Optic, Photo Etc, Medical Or Surgical Instruments Etc | \$1,740.58 | \$5,270.53 | -6.1% | 1.9% | \$90,782.75 | \$264,066.12 | 1.3% |
| 91 | Clocks & Watches & Parts Thereof | \$5.53 | \$14.42 | 18.3% | 0.3% | \$1,664.12 | \$4,602.76 | 7.5% |
| 92 | Musical Instruments; Parts & Accessories Thereof | \$8.77 | \$23.03 | 20.3% | 1.1% | \$793.33 | \$2,263.25 | 5.9% |
| Section Totals | | \$1,754.88 | \$5,307.98 | -6.0% | 1.9% | \$93,240.21 | \$270,932.12 | 1.4% |
| Section XIX: Arms and Ammunition; Parts and Accessories Thereof | | | | | | | | |
| 93 | Arms & Ammunition; Parts & Accessories Thereof | \$37.51 | \$80.98 | 143.0% | 0.6% | \$6,124.80 | \$16,977.28 | 10.0% |
| Section Totals | | \$37.51 | \$80.98 | 143.0% | 0.6% | \$6,124.80 | \$16,977.28 | 10.0% |
| Section XX: Miscellaneous Manufactured Articles | | | | | | | | |
| 94 | Furniture; Bedding Etc; Lamps Nesoi Etc; Prefabricated Buildings | \$462.82 | \$1,492.61 | -3.6% | 4.5% | \$10,219.95 | \$31,871.77 | -5.7% |
| 95 | Toys, Games & Sport Equipment; Parts & Accessories | \$142.49 | \$473.41 | -22.6% | 2.2% | \$6,386.77 | \$20,074.39 | -5.8% |
| 96 | Miscellaneous Manufactured Articles | \$304.37 | \$1,007.66 | -17.6% | 12.5% | \$2,434.71 | \$7,410.74 | -4.5% |
| Section Totals | | \$909.69 | \$2,973.68 | -12.0% | 4.8% | \$19,041.43 | \$59,356.89 | -5.6% |
| Section XXI: Works of Art, Collectors' Pieces and Antiques | | | | | | | | |
| 97 | Works Of Art, Collectors Pieces And Antiques | \$40.07 | \$104.24 | -4.9% | 0.3% | \$12,950.38 | \$39,246.22 | -11.0% |
| Section Totals | | \$40.07 | \$104.24 | -4.9% | 0.3% | \$12,950.38 | \$39,246.22 | -11.0% |
| Section XXII: Special Classification Provisions | | | | | | | | |
| 98 | Special Classification Provisions, Nesoi | \$1,130.31 | \$2,979.30 | 15.3% | 2.3% | \$48,439.56 | \$137,040.49 | 5.0% |
| Section Totals | | \$1,130.31 | \$2,979.30 | 15.3% | 2.3% | \$48,439.56 | \$137,040.49 | 5.0% |

Nesoi - Not elsewhere specified or indicated

Guide to Export Data

Prepared by the U.S. Department of Commerce, International Trade Administration

State Export Data (Origin state based)

The Census Bureau's Origin of Movement (OM) series is based on information supplied by U.S. exporters on official Shippers Export Declarations (SEDs) for goods leaving the United States. All statistics in the OM series are on a free-alongside-ship (f.a.s.) basis and include both domestic exports and re-exports.

The OM series seeks to measure state exports on the basis of transportation origin – i.e., the location from which exports begin their journey to the port (or other point) of exit from the United States.

The OM series covers exports of merchandise only. Exports of services are excluded from the data.

The OM series covers direct exports only. A direct export is one consisting of final goods shipped to a destination outside the United States. So-called indirect exports are excluded from the data. Indirect exports are typically intermediate goods, parts, or other inputs that are shipped within the United States, and subsequently incorporated in final export goods. Such shipments represent domestic transactions – they are not considered exports in U.S. trade statistics.

Cross-border shipments made by foreign affiliates of U.S. companies (e.g., a shipment from a French subsidiary to a German customer) are not U.S. exports. These transactions may affect the finances of U.S. firms and reflect a global business strategy, but they are not exports. Exports include only goods and services that are outbound from the United States and which transit its borders.

The OM series was not designed to measure the state distribution of U.S. export production or export-related jobs. The focus is transportation origin, not manufacturing origin.

There are nonetheless many cases when the state origin of movement and the state of production happen to be the same. The origin of movement and origin of production often coincide because many manufacturers ship exports directly from the factory gate or from a nearby distribution facility.

There is no listing of states for which the Origin of Movement series is a good proxy for export production. Additional research is needed in this area. As a general rule, however, it appears that the OM series is indicative of export production when (1) intermediaries are minor exporters in a state, (2) manufacturers – especially single-establishment firms – dominate exports, and (3) the state is a known producer of the goods being exported.

The OM series in some cases will show considerable manufactured exports from states known to have little manufacturing capability. This is partly attributable to export marketing by in-state intermediaries. These exporters frequently ship manufactures produced by out-of-state suppliers from in-state distribution centers. Another factor is shipments of manufactures from in-state warehouses and other distribution centers that are arranged by exporters located out of state. In both cases, manufactured exports from the non-industrial state are magnified on an origin-of-movement basis.

Another limitation of the OM series is that, in certain cases, it falls short of its goal of measuring transportation origin. The problem stems from the fact that many intermediaries have traditionally listed the state which they are located - which is not necessarily the origin of movement – as the “state of origin” on SEDs. For many other transactions, intermediaries specify the state location of the port of exit – which very often is not the state where goods began their export journey.

The result is significant inconsistencies in the state-level allocation of exports sold by intermediaries. The primary impact is on the state distribution of non-manufactured exports,

where intermediaries are overwhelmingly dominant. Most affected is the allocation of exports of farm products, minerals, and other bulk commodities – virtually all of which are sold abroad by intermediaries. The impact on manufactured exports is much more limited, due to the fact that intermediaries account for only about one-third of U.S. exports of manufactures.

The most visible result of the problem is a tendency to understate exports from agricultural states and inflate exports from states having ports that handle high-value shipments of farm products (e.g., Louisiana).

Yet another data issue is that some shippers fail to fill in the “state of origin” block on the SED, or furnish invalid or illegible entries. Consequently, the Census Bureau is presently unable to determine the state origin of movement for about five percent of the value of U.S. exports.

Metropolitan Export Data (ZIP code based)

All metropolitan export numbers were tabulated by matching the five-digit ZIP codes entered on the U.S. export declarations with the five-digit ZIP codes specified for each metropolitan area using concordance files from the Census Bureau’s Geography Division and the U.S. Postal Service.

In 2005, there were cases where two or more adjacent metro areas share the same five-digit ZIP code where it is impossible to assign export transactions for the ZIP code to any single metropolitan area. In such cases, export transactions for the ZIP code in question were assigned to a catch-all “crossovers” category. The crossovers category in 2005 accounted for about 2 percent of total merchandise exports. In 2006, the Office of Management and Budget eliminated this issue and assigned a single metropolitan area to each five-digit ZIP code.

Regarding comparability with other U.S. trade data, the export figures can be used in conjunction with the **OM-ZIP-based state-level data** issued by the U.S. Census Bureau. Using these data together it is possible to show Cleveland’s share of Ohio’s export sales.

For the metro areas for which it is possible to release some export data, disclosure regulations still limit or prevent the release of much detail on foreign markets and the industry composition of exports. Manufactured product detail, even for the largest exporting metropolitan area, is limited to broad three-digit NAICS categories. Information on market destinations, while generally more complete than data on product composition, is also subject to important disclosure-induced limitations.

For additional information on the Origin of Movement series, visit the Census Bureau’s website at <http://www.census.gov/foreign-trade/aip/elom.html> .