



Research Office, Ohio Department of Development
A State Affiliate of the U.S. Census Bureau

Ohio Exports Report: 2021

August 2022



Ohio Exports 2021

Executive Summary



Ohio merchandise exports were valued at \$50.7 billion in 2021, an increase of 12.2 percent from 2020. By comparison, the United States experienced an increase of 22.8 percent in exports since 2020.

According to this report, in 2021:

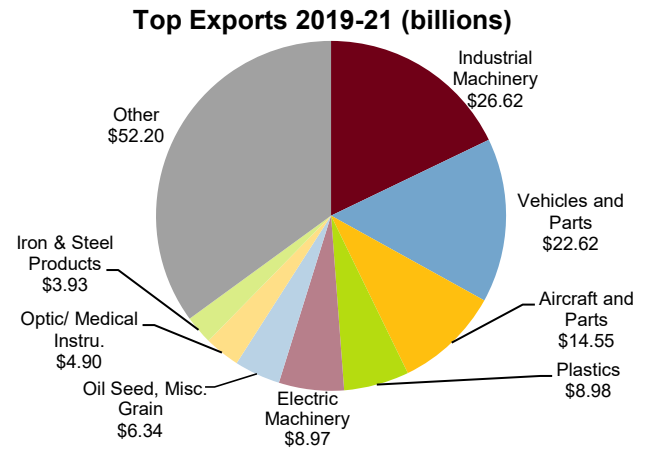
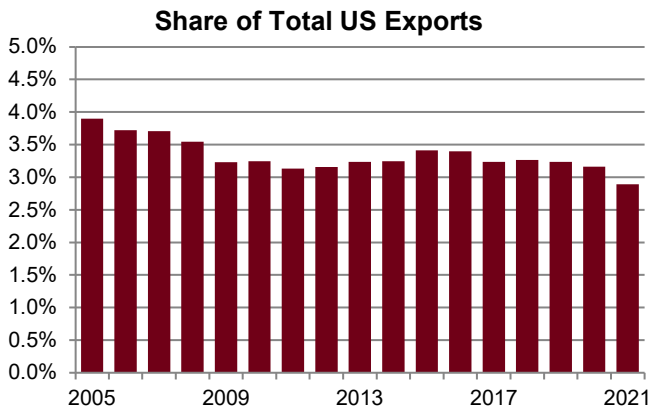
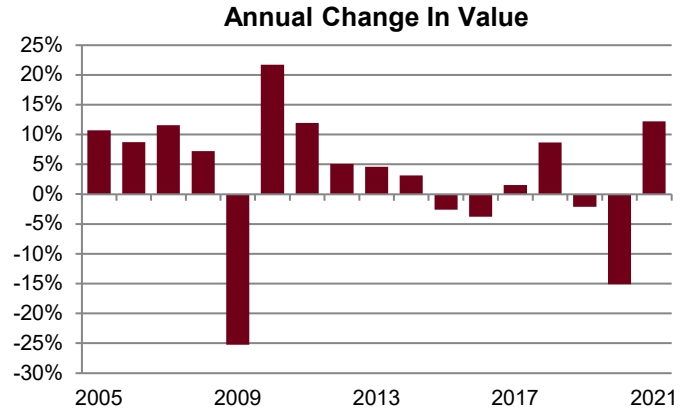
- Ohio was the 9th largest exporting state.
- 211 countries and territories received exports from Ohio.
- 10 countries received more than \$1 billion in Ohio exports.
- 44 of the 98 commodity groups recorded exports exceeding \$100 million with 13 surpassing \$1 billion.

Leading Destinations:

- Exports to Canada totaled \$18.4 billion, 36.2 percent of the state figure. By comparison, U.S. exports to Canada made up 17.8 percent of the national total.
- Shipments to Mexico, Ohio's second largest market, totaled \$6.3 billion. This figure is an increase of 24.1 percent from 2020.
- Asian countries received 15 percent of Ohio's shipments. China was Ohio's third largest market at \$3.7 billion, an increase of 3.4 percent. Japan was Ohio's fifth largest market in 2021 at \$1.7 billion.
- European countries accounted for 16.6 percent of Ohio's exports. The four largest markets were United Kingdom (\$1.5 billion), Netherlands (\$1.4 billion), Germany (\$1.2 billion), and France (\$1.1 billion). Total shipments to Europe increased 22.3 percent from 2020.
- Exports to Southeast Asia accounted for 6.2 percent (\$3.2 billion) of the state figure, an increase of 17.3 percent. Exports to the Middle East and Oceania both saw a large annual increase of 20.2 percent and 18.7 percent, respectively.

Top Products:

- Industrial machinery was Ohio's leading export (\$8.3 billion). Ohio was 5th among the 50 states in this category with 4.0 percent of the U.S. total.
- The top six categories (industrial machinery, vehicles, aircraft, plastics, electrical machinery, and oil seed) accounted for 56.8 percent (\$28.8 billion) of the state total.
- Ohio leads the nation in exports of soaps/cleaning preparations/waxes (14.9 percent of U.S. total) and 2nd in paints/dyes/putty (8.3 percent of U.S. total).
- Six of the top 10 commodities saw annual increases with somewhat volatile pharmaceutical products seeing the largest increase at 142.3 percent. Vehicles bounced back from the pandemic year increasing 31.9 percent but still \$1.0 billion below the 2019 level.



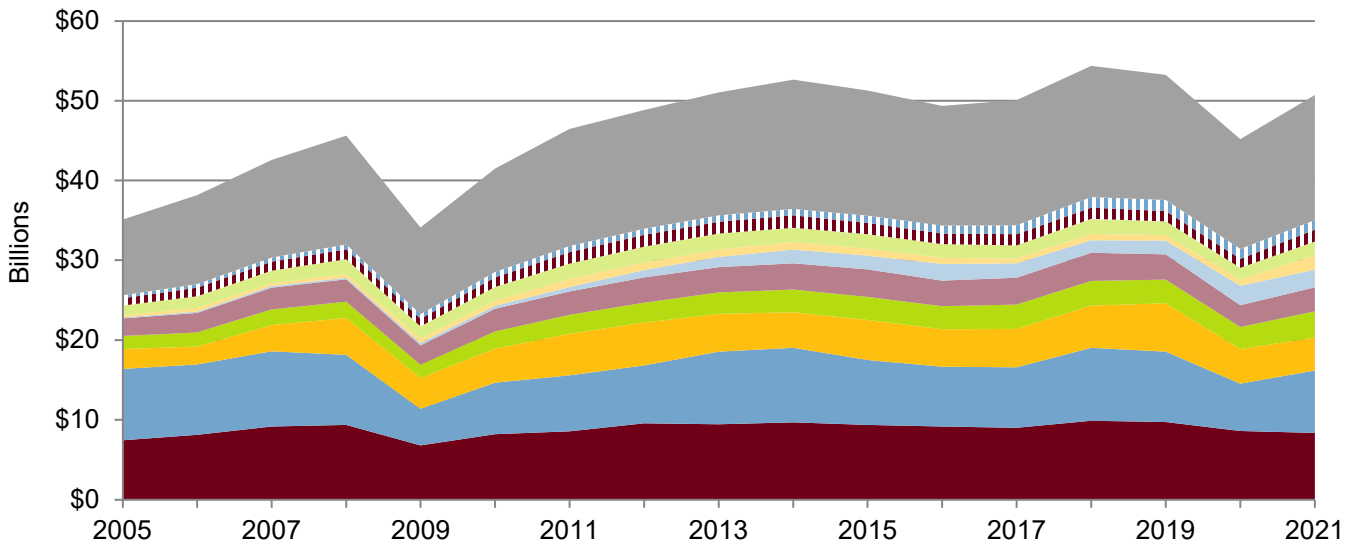
Ohio's Top 20 Exported Commodities: 2021

Harmonized Schedule Code

| | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|--|-------------------------|-------------------------|-------------------------|------------------|
| Total All Commodities | \$53,224,595,333 | \$45,182,684,455 | \$50,701,551,708 | 12.2% |
| 84 Industrial Machinery, Including Computers | \$9,708,515,758 | \$8,570,925,457 | \$8,341,996,850 | -2.7% |
| 87 Vehicles and Parts | \$8,849,140,728 | \$5,939,065,157 | \$7,833,512,227 | 31.9% |
| 88 Aircraft; Spacecraft and Parts | \$6,054,013,292 | \$4,358,880,143 | \$4,138,679,007 | -5.1% |
| 39 Plastics and Articles Thereof | \$2,955,002,769 | \$2,748,080,684 | \$3,273,267,353 | 19.1% |
| 85 Electric Machinery; Sound Equip.; TV Equip. | \$3,177,930,785 | \$2,756,046,674 | \$3,031,415,317 | 10.0% |
| 12 Oil Seed, Miscellaneous Grain | \$1,708,840,572 | \$2,440,097,100 | \$2,195,554,055 | -10.0% |
| 30 Pharmaceutical Products | \$672,964,164 | \$759,192,324 | \$1,839,235,674 | 142.3% |
| 90 Optic, Photo; Medical Instruments | \$1,739,154,976 | \$1,461,729,905 | \$1,694,252,146 | 15.9% |
| 73 Iron and Steel Products | \$1,301,561,035 | \$1,150,979,684 | \$1,480,258,670 | 28.6% |
| 33 Essential Oils, Perfumery, Cosmetic, etc | \$1,391,911,891 | \$1,232,539,319 | \$1,206,591,935 | -2.1% |
| 38 Miscellaneous Chemical Products | \$1,064,219,991 | \$1,048,821,634 | \$1,149,013,860 | 9.6% |
| 34 Soap, Waxes, Lubricating Preparations, etc | \$1,052,559,461 | \$1,274,825,081 | \$1,144,599,593 | -10.2% |
| 72 Iron and Steel | \$913,365,976 | \$713,360,795 | \$1,087,428,714 | 52.4% |
| 40 Rubber and Articles Thereof | \$944,499,483 | \$758,823,908 | \$892,003,695 | 17.6% |
| 29 Organic Chemicals | \$647,422,038 | \$492,599,121 | \$669,307,877 | 35.9% |
| 32 Tanning, Dye, Paint, Putty | \$661,472,265 | \$609,568,088 | \$658,846,645 | 8.1% |
| 27 Mineral Fuel, Oil, etc | \$683,037,425 | \$436,088,486 | \$644,535,136 | 47.8% |
| 48 Paper, Paperboard, Articles of Paper Pulp | \$543,830,421 | \$532,798,429 | \$533,921,094 | 0.2% |
| 76 Aluminum and Articles Thereof | \$430,407,579 | \$380,429,470 | \$527,413,080 | 38.6% |
| 70 Glass and Glassware | \$419,386,722 | \$470,999,715 | \$490,998,126 | 4.2% |
| Multi Remaining commodities | \$8,305,358,002 | \$7,046,833,281 | \$7,868,720,654 | 11.7% |

Ohio Exports

Exported Products Over \$1.2 Billion Value: 2021



| Harmonized Schedule Code | | 2021 Value | % of All Exports |
|--------------------------|--|------------------|------------------|
| 84 | Industrial Machinery, Incl. Computers | \$8,341,996,850 | 16.5% |
| 87 | Vehicles and Parts | \$7,833,512,227 | 15.5% |
| 88 | Aircraft; Spacecraft and Parts | \$4,138,679,007 | 8.2% |
| 39 | Plastics and Articles Thereof | \$3,273,267,353 | 6.5% |
| 85 | Electric Machinery; Sound/TV Equip. | \$3,031,415,317 | 6.0% |
| 12 | Oil Seed, Miscellaneous Grain | \$2,195,554,055 | 4.3% |
| 30 | Pharmaceutical Products | \$1,839,235,674 | 3.6% |
| 90 | Optic, Photo; Medical Instruments | \$1,694,252,146 | 3.3% |
| 73 | Iron and Steel Products | \$1,480,258,670 | 2.9% |
| 33 | Essential Oils, Perfumery, Cosmetic, etc | \$1,206,591,935 | 2.4% |
| Multi | Remaining commodities | \$15,666,788,474 | 30.9% |

Top 10 Trading Partners - 2021

| | 2021 Value | Pct of 2021 Total |
|----------------|------------------|-------------------|
| Total | 50,701,551,708 | |
| Canada | \$18,375,364,841 | 36.2% |
| Mexico | \$6,289,782,564 | 12.4% |
| China | \$3,748,128,932 | 7.4% |
| Brazil | \$1,867,082,726 | 3.7% |
| Japan | \$1,666,125,762 | 3.3% |
| United Kingdom | \$1,482,994,372 | 2.9% |
| Netherlands | \$1,384,179,757 | 2.7% |
| Germany | \$1,248,010,834 | 2.5% |
| France | \$1,134,430,932 | 2.2% |
| Korea | \$1,018,768,314 | 2.0% |
| Others | \$12,486,682,674 | 24.6% |

Top 10 Trading Partners - 2019 to 2021

| | 2019 to 2021 Value | Pct of 3-yr Total |
|----------------|--------------------|-------------------|
| Total | \$149,108,831,496 | |
| Canada | \$56,581,192,011 | 37.9% |
| Mexico | \$18,242,853,960 | 12.2% |
| China | \$10,612,210,217 | 7.1% |
| Brazil | \$5,787,263,509 | 3.9% |
| United Kingdom | \$5,166,500,241 | 3.5% |
| Japan | \$4,748,758,978 | 3.2% |
| Germany | \$3,774,166,634 | 2.5% |
| France | \$3,634,969,746 | 2.4% |
| Netherlands | \$3,053,386,306 | 2.0% |
| Korea | \$2,984,686,524 | 2.0% |
| Others | \$34,522,843,370 | 23.2% |

Machinery, Including Computers (HS 84) Exports

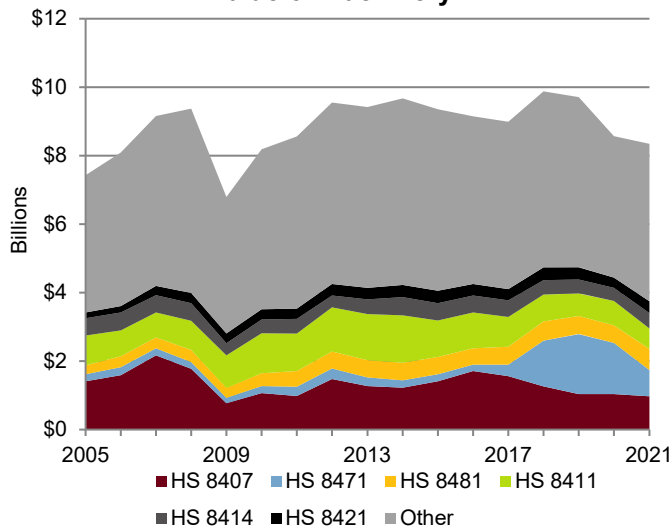


Harmonized
Tariff Schedule

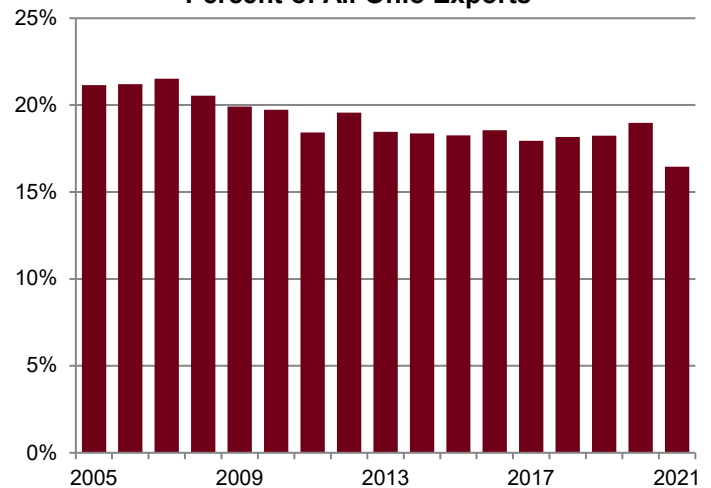
| | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|--|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$9,708,515,758 | \$8,570,925,457 | \$8,341,996,850 | -2.7% |
| 8407 Spark Ignition; Piston Engines | \$1,032,856,702 | \$1,034,836,848 | \$965,405,559 | -6.7% |
| 8471 Automatic Data Process Machines | \$1,755,570,555 | \$1,496,644,191 | \$768,051,864 | -48.7% |
| 8481 Taps, Cocks, Valves for Pipes, Tanks | \$526,585,388 | \$509,021,843 | \$617,343,576 | 21.3% |
| 8411 Turbojets and Other Gas Turbines, Parts | \$659,289,017 | \$713,341,570 | \$595,612,525 | -16.5% |
| 8414 Air Related Pumps/Compressors | \$407,764,116 | \$384,212,631 | \$454,284,057 | 18.2% |
| 8421 Centrifuges/Filters for Liquid or Gases | \$360,385,349 | \$293,601,877 | \$340,408,636 | 15.9% |
| 8413 Liquid Pumps/Elevators | \$380,394,360 | \$285,378,532 | \$327,249,705 | 14.7% |
| 8419 Machinery for Temperature Changing | \$226,646,469 | \$176,618,604 | \$255,333,330 | 44.6% |
| 8409 Parts for Engines of Heading 8407 or 8408 | \$296,156,535 | \$220,857,274 | \$238,534,037 | 8.0% |
| 8483 Transmission Products | \$240,751,060 | \$219,660,841 | \$234,059,138 | 6.6% |
| 8431 Parts for Machinery of Headings 8425 to 8430 | \$188,371,556 | \$180,045,683 | \$221,897,579 | 23.2% |
| 8479 Machines Having Individual Functions Nesoi | \$264,771,205 | \$199,388,766 | \$200,293,967 | 0.5% |
| 8482 Ball or Roller Bearings | \$164,435,845 | \$140,084,373 | \$183,786,056 | 31.2% |
| 8450 Washing Machines | \$177,990,845 | \$187,435,999 | \$181,489,024 | -3.2% |
| 8466 Parts for Machine Tools of Head 8456 to 8465 | \$183,564,754 | \$153,121,918 | \$178,448,258 | 16.5% |
| 8486 Machines to Manu. Semiconductor Wafers, etc | \$69,598,014 | \$122,256,594 | \$161,798,138 | 32.3% |
| 8427 Fork-Lift Trucks/Trucks with Lifts | \$260,559,833 | \$177,208,137 | \$157,108,205 | -11.3% |
| 8477 Machinery for Working Rubber & Plastic Nesoi | \$152,637,169 | \$124,376,984 | \$141,726,579 | 13.9% |
| 8415 Air Conditioning Machines | \$223,964,564 | \$174,616,868 | \$141,493,709 | -19.0% |
| Multi Remaining commodities | \$2,136,222,422 | \$1,778,215,924 | \$1,977,672,908 | 11.2% |

Nesoi - Not elsewhere specified or indicated

Value of Machinery



Percent of All Ohio Exports



Top 5 Trading Partners - 2021

| | 2021 Value | Pct of Total |
|--------|-----------------|-----------------|
| Total | \$8,341,996,850 | |
| Canada | \$3,458,585,001 | 41.5% |
| Mexico | \$1,148,873,396 | 13.8% |
| China | \$418,479,356 | 5.0% |
| Japan | \$248,258,043 | 3.0% |
| Korea | \$210,413,897 | 2.5% |
| Others | \$2,857,387,157 | 34.3% |

Top 5 Trading Partners - 2019 to 2021

| | 2019 to 2021 Value | Pct of 3-yr Total |
|----------------|-----------------------|----------------------|
| Total | \$26,621,438,065 | |
| Canada | \$12,002,092,529 | 45.1% |
| Mexico | \$3,618,110,053 | 13.6% |
| China | \$1,154,548,406 | 4.3% |
| United Kingdom | \$738,363,266 | 2.8% |
| Japan | \$697,070,042 | 2.6% |
| Others | \$8,411,253,769 | 31.6% |

Vehicles and Parts (HS 87) Exports

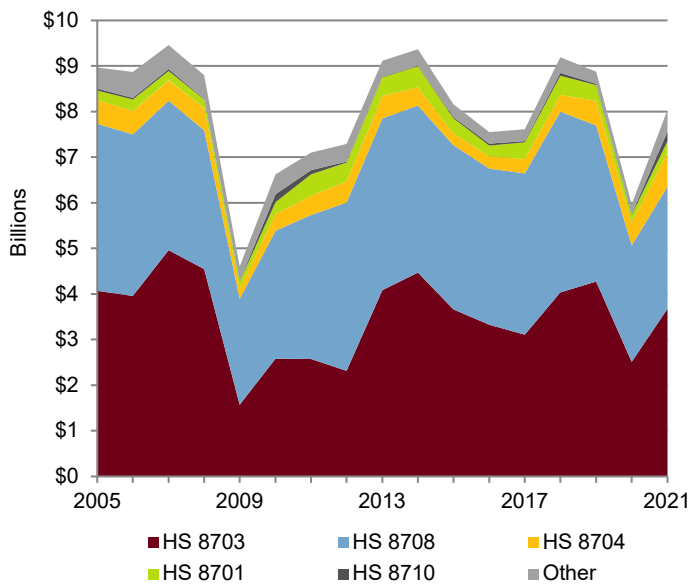


Harmonized Tariff
Schedule

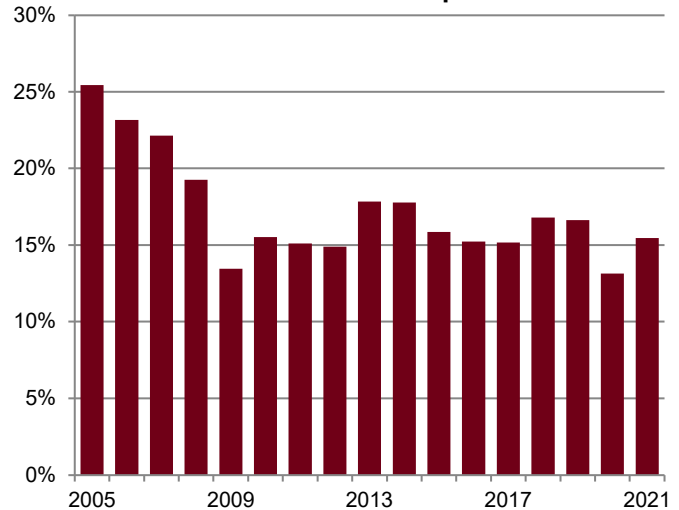
| | | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|--------------|--|------------------------|------------------------|------------------------|---------------------|
| TOTAL | | \$8,849,140,728 | \$5,939,065,157 | \$7,833,512,227 | 31.9% |
| 8703 | Passenger Cars & Vehicles | \$4,271,442,689 | \$2,513,104,404 | \$3,675,863,453 | 46.3% |
| 8708 | Parts & Accessories for Headings 8701-8705 | \$3,423,214,427 | \$2,550,105,948 | \$2,684,407,463 | 5.3% |
| 8704 | Motor Vehicles for Transport of Goods | \$546,745,838 | \$502,221,821 | \$743,005,499 | 47.9% |
| 8701 | Tractors | \$341,601,396 | \$165,645,460 | \$253,084,810 | 52.8% |
| 8710 | Tank & Other Armored Fight Vehicles | \$24,867,421 | \$25,503,044 | \$210,994,151 | 727.3% |
| 8716 | Trailers; Non-Mechanical | \$178,398,536 | \$136,532,018 | \$196,762,827 | 44.1% |
| 8705 | Special Purpose Motor Vehicles Nesoi | \$20,736,590 | \$13,884,969 | \$21,417,339 | 54.2% |
| 8714 | Parts & Accessories for Motorcycles | \$14,360,489 | \$14,004,238 | \$19,143,946 | 36.7% |
| 8707 | Bodies for Motor Vehicles: 8701-8705 | \$7,309,843 | \$6,653,246 | \$12,405,620 | 86.5% |
| 8711 | Motorcycles | \$4,674,242 | \$2,230,647 | \$7,893,572 | 253.9% |
| 8709 | Various Work-Related Vehicles | \$5,938,818 | \$3,138,547 | \$3,225,078 | 2.8% |
| 8713 | Carriages for Disabled Persons | \$2,814,650 | \$1,664,358 | \$2,030,087 | 22.0% |
| 8715 | Baby Carriages/Strollers | \$2,058,795 | \$1,953,672 | \$1,412,811 | -27.7% |
| 8702 | Transport Vehicles for > Ten Persons | \$2,114,148 | \$1,544,243 | \$1,406,057 | -8.9% |
| 8712 | Bicycles & Other Cycles with No Motor | \$2,063,326 | \$807,255 | \$323,764 | -59.9% |
| 8706 | Chassis with Engine | \$799,520 | \$71,287 | \$135,750 | 90.4% |

Nesoi - Not elsewhere specified or indicated

Value of Vehicles and Parts



Percent of All Ohio Exports



Top 5 Trading Partners - 2021

| | 2021 Value | Pct of Total |
|--------|-----------------|-----------------|
| Total | \$7,833,512,227 | |
| Canada | \$3,505,371,866 | 44.7% |
| Mexico | \$1,344,729,782 | 17.2% |
| Japan | \$287,408,696 | 3.7% |
| Korea | \$259,242,702 | 3.3% |
| Kuwait | \$254,345,617 | 3.2% |
| Others | \$2,182,413,564 | 27.9% |

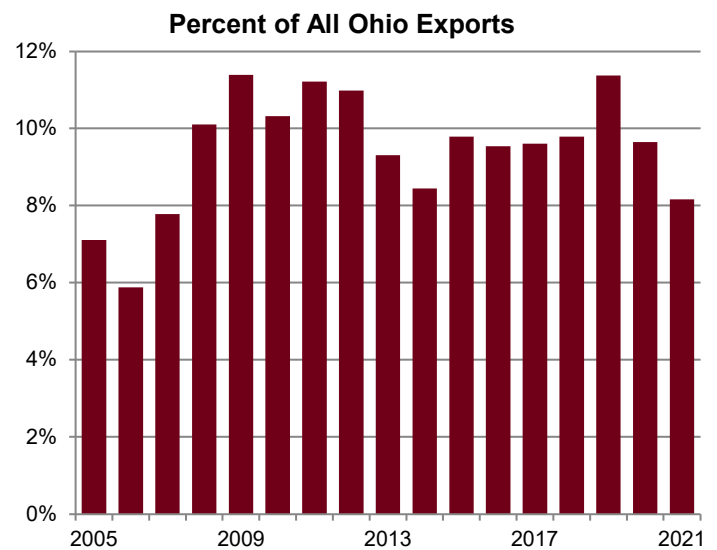
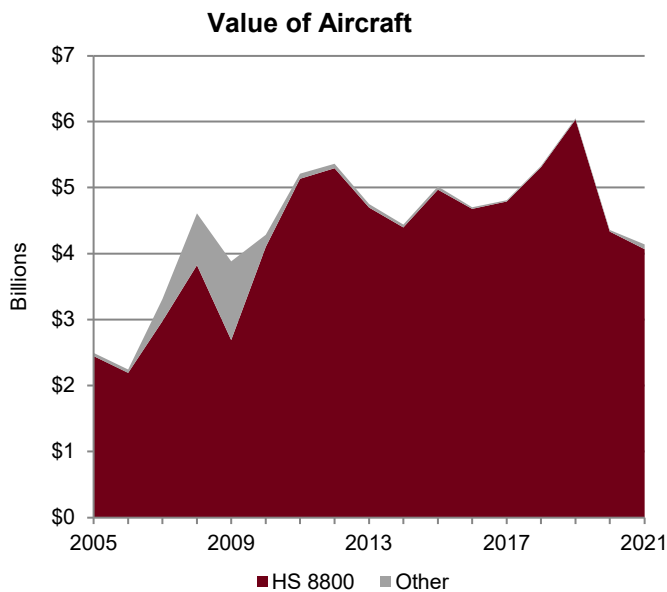
Top 5 Trading Partners - 2019 to 2021

| | 2019 to 2021 Value | Pct of 3-yr Total |
|--------|-----------------------|----------------------|
| Total | \$22,621,718,112 | |
| Canada | \$11,295,724,122 | 49.9% |
| Mexico | \$3,813,253,619 | 16.9% |
| Japan | \$851,713,950 | 3.8% |
| Korea | \$798,188,317 | 3.5% |
| China | \$609,275,747 | 2.7% |
| Others | \$5,253,562,357 | 23.2% |

Aircraft; Spacecraft & Parts (HS 88) Exports



| Harmonized Tariff Schedule | | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|----------------------------|--|------------------------|------------------------|------------------------|------------------|
| | TOTAL | \$6,054,013,292 | \$4,358,880,143 | \$4,138,679,007 | -5.1% |
| 8800 | Civilian Aircraft, Engines, and Parts | \$6,030,512,350 | \$4,331,483,910 | \$4,067,770,356 | -6.1% |
| 8803 | Parts of Balloons, Aircraft, Spacecraft | \$23,250,690 | \$27,378,827 | \$70,872,533 | 158.9% |
| 8804 | Parachutes | \$22,925 | \$0 | \$18,738 | n.a. |
| 8805 | Aircraft Launch Gear; Deck-Arrestor Gear | \$12,650 | \$9,406 | \$17,380 | 84.8% |
| 8801 | Balloons/Dirigibles; Gliders | \$214,677 | \$8,000 | \$0 | -100.0% |



Top 5 Trading Partners - 2021

| | 2021 Value | Pct of Total |
|----------------|-----------------|--------------|
| Total | \$4,138,679,007 | |
| Brazil | \$1,165,285,973 | 28.2% |
| Canada | \$662,578,996 | 16.0% |
| United Kingdom | \$363,277,531 | 8.8% |
| France | \$351,136,435 | 8.5% |
| China | \$301,403,498 | 7.3% |
| Others | \$1,294,996,574 | 31.3% |

Top 5 Trading Partners - 2019 to 2021

| | 2019 to 2021 Value | Pct of 3-yr Total |
|----------------|--------------------|-------------------|
| Total | \$14,551,572,442 | |
| Brazil | \$3,768,210,617 | 25.9% |
| Canada | \$1,993,634,243 | 13.7% |
| France | \$1,506,131,056 | 10.4% |
| United Kingdom | \$1,398,676,238 | 9.6% |
| China | \$1,233,025,494 | 8.5% |
| Others | \$4,651,894,794 | 32.0% |

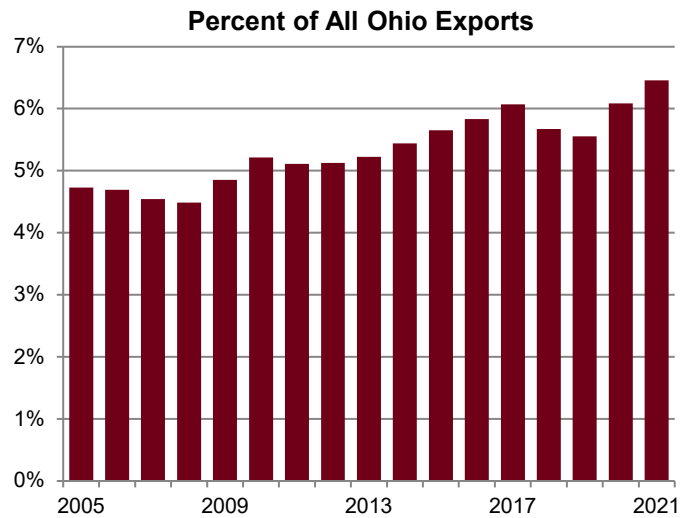
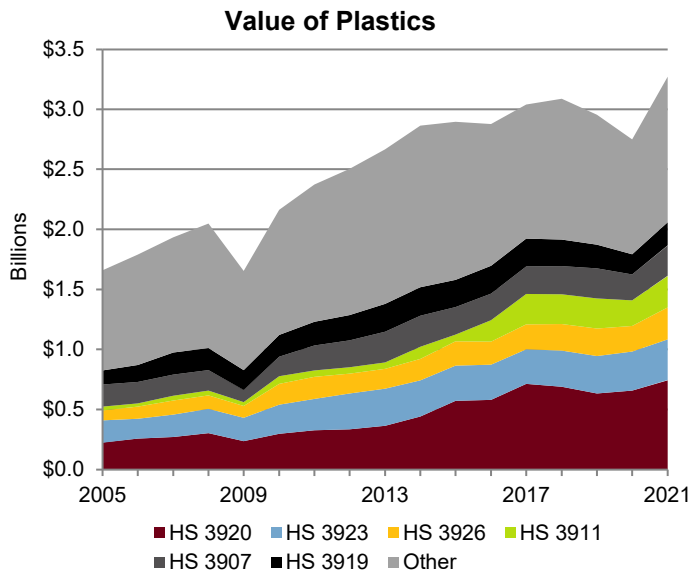
Plastics & Articles Thereof (HS 39) Exports



Harmonized
Tariff Schedule

| | | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|--------------|--|------------------------|------------------------|------------------------|---------------------|
| TOTAL | | \$2,955,002,769 | \$2,748,080,684 | \$3,273,267,353 | 19.1% |
| 3920 | Plates, Sheets, Film Not Supported/Combined | \$633,418,439 | \$658,063,074 | \$744,902,479 | 13.2% |
| 3923 | Containers (Boxes, Bags Etc), Closures | \$311,059,111 | \$323,620,437 | \$339,933,863 | 5.0% |
| 3926 | Articles of Plastics (Inc Polymers & Resins) Nesoi | \$230,458,170 | \$214,014,707 | \$265,375,942 | 24.0% |
| 3911 | Petro Resins, Polysulfides Nesoi in primary form | \$249,184,256 | \$212,102,148 | \$262,852,873 | 23.9% |
| 3907 | Polyethers/Expoxides/Polyesters in primary forms | \$250,312,918 | \$216,102,309 | \$252,668,826 | 16.9% |
| 3919 | Self-Adhesive Plates, Sheets, Film Etc | \$198,802,441 | \$168,563,930 | \$194,365,831 | 15.3% |
| 3902 | Polymers of Propylene/Olefins in primary form | \$148,090,963 | \$115,796,314 | \$161,662,629 | 39.6% |
| 3921 | Plates, Sheets, Film, Foil & Strip Nesoi | \$135,844,093 | \$108,311,657 | \$141,159,738 | 30.3% |
| 3904 | Polymers of Vinyl Chloride Etc. in primary form | \$98,608,292 | \$90,620,242 | \$132,905,391 | 46.7% |
| 3903 | Polymers of Styrene in primary form | \$133,239,063 | \$99,518,181 | \$125,000,811 | 25.6% |
| 3917 | Tubes, Pipes & Hoses & Their Fittings | \$95,072,406 | \$98,510,241 | \$105,878,908 | 7.5% |
| 3909 | Amino-Resins/Phenolics/Polyurethanes, prim form | \$94,496,616 | \$73,505,615 | \$102,130,279 | 38.9% |
| 3901 | Polymers of Ethylene in primary form | \$54,242,149 | \$49,783,451 | \$73,550,059 | 47.7% |
| 3924 | Tableware & Other Household Articles Etc | \$58,318,288 | \$65,229,038 | \$71,192,228 | 9.1% |
| 3906 | Acrylic Polymers in primary form | \$64,756,789 | \$72,280,724 | \$67,126,134 | -7.1% |
| 3910 | Silicones in primary forms | \$41,423,574 | \$44,234,938 | \$57,041,117 | 29.0% |
| 3916 | Monofilament, Cross-Section >1mm, Rods, Sticks | \$38,673,428 | \$36,418,061 | \$46,625,773 | 28.0% |
| 3925 | Builders Ware (doors, shutters, blinds), Nesoi | \$39,933,361 | \$29,983,734 | \$41,278,396 | 37.7% |
| 3908 | Polyamides in primary form | \$36,064,062 | \$34,795,437 | \$40,805,901 | 17.3% |
| Multi | Remaining commodities | \$43,004,350 | \$36,626,446 | \$46,810,175 | 27.8% |

Nesoi - Not elsewhere specified or indicated



Top 5 Trading Partners - 2021

| | 2021 Value | Pct of Total |
|---------|-----------------|-----------------|
| Total | \$3,273,267,353 | |
| Canada | \$1,115,105,288 | 34.1% |
| Mexico | \$535,520,128 | 16.4% |
| China | \$480,744,010 | 14.7% |
| Belgium | \$173,680,453 | 5.3% |
| Taiwan | \$156,112,090 | 4.8% |
| Others | \$812,105,384 | 24.8% |

Top 5 Trading Partners - 2019 to 2021

| | 2019 to 2021 Value | Pct of 3-yr Total |
|---------|-----------------------|----------------------|
| Total | \$8,976,350,806 | |
| Canada | \$3,049,977,136 | 34.0% |
| Mexico | \$1,569,861,397 | 17.5% |
| China | \$1,202,484,210 | 13.4% |
| Belgium | \$469,906,364 | 5.2% |
| Taiwan | \$399,149,307 | 4.4% |
| Others | \$2,284,972,392 | 25.5% |

Electrical Machinery (HS 85) Exports

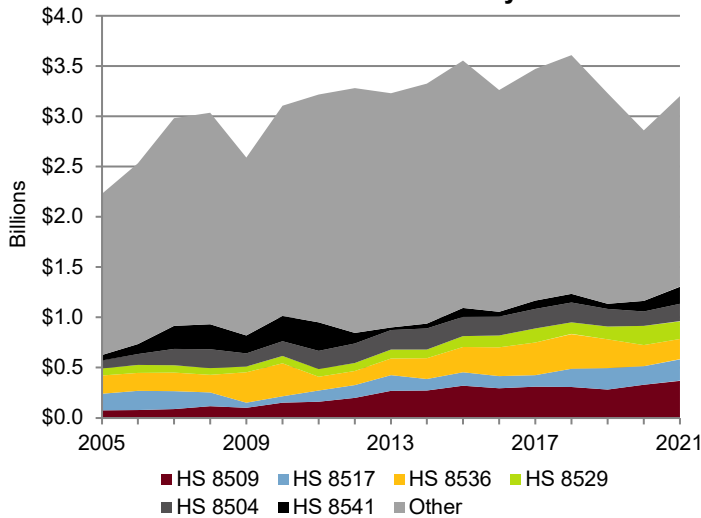


Harmonized Tariff
Schedule

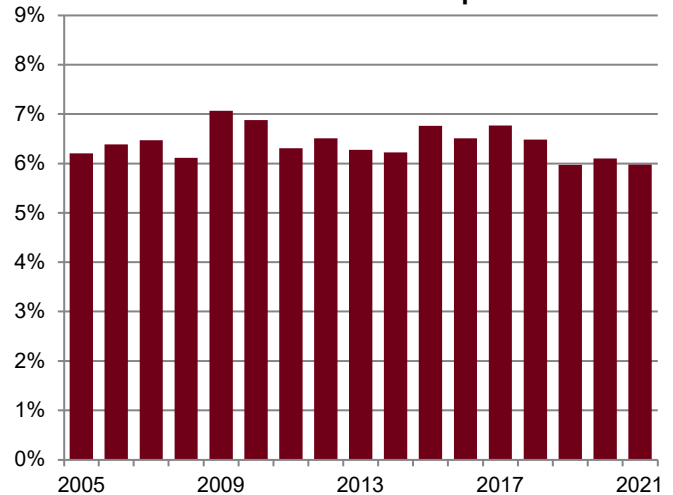
| | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|--|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$3,177,930,785 | \$2,756,046,674 | \$3,031,415,317 | 10.0% |
| 8509 Electro-Mechanical Domestic Appliances | \$280,567,920 | \$329,799,670 | \$369,167,504 | 11.9% |
| 8517 Apparatus for Telephony (wired or wireless) | \$215,204,103 | \$185,193,713 | \$214,163,760 | 15.6% |
| 8536 Apparatus for Switching (fuses,relays,plugs) | \$284,640,053 | \$207,174,360 | \$200,402,571 | -3.3% |
| 8529 Parts for Television, Radio, Radar Apparatus | \$126,945,359 | \$191,305,450 | \$178,185,442 | -6.9% |
| 8504 Electrical Transformers, Converters, Inductors | \$176,421,847 | \$145,284,392 | \$173,078,707 | 19.1% |
| 8541 Semiconductor Devices; Light-Emitting Diodes | \$51,522,566 | \$103,278,733 | \$170,422,233 | 65.0% |
| 8544 Insulated Wire, Cable, Optical Fiber Cables | \$195,572,814 | \$129,145,553 | \$157,071,376 | 21.6% |
| 8537 Boards, Panels, Consoles, Electrical Switches | \$179,054,369 | \$139,309,632 | \$150,118,627 | 7.8% |
| 8526 Radar Appar./Radio Navig. Aid/Remote Control | \$141,959,985 | \$141,561,858 | \$140,480,266 | -0.8% |
| 8543 Elec. machines with Individual Functions Nesoi | \$91,758,379 | \$84,141,049 | \$120,412,804 | 43.1% |
| 8501 Electric Motors And Generators | \$101,531,837 | \$106,228,309 | \$119,691,048 | 12.7% |
| 8512 Light Equip./Wipers/Defrosters for Vehicles | \$141,725,983 | \$122,580,937 | \$113,745,838 | -7.2% |
| 8515 Electric, Laser or Other Light or Photon Beam | \$107,247,588 | \$93,727,467 | \$105,103,502 | 12.1% |
| 8511 Electric Ignition Equipment | \$78,092,214 | \$74,636,995 | \$85,848,069 | 15.0% |
| 8507 Electric Storage Batteries, Including Separators | \$116,620,673 | \$65,475,669 | \$69,988,157 | 6.9% |
| 8516 Elec. Water, Space & Soil Heaters; Etc. | \$52,385,989 | \$50,402,146 | \$63,254,766 | 25.5% |
| 8538 Parts for Headings 8535, 8536 & 8537 | \$59,535,720 | \$53,208,790 | \$58,528,827 | 10.0% |
| 8542 Electronic Integrated Circuits; parts thereof | \$109,852,647 | \$49,427,673 | \$54,762,233 | 10.8% |
| 8531 Elec. Sound/Visual Signaling Apparatus (alarms) | \$53,945,710 | \$35,316,993 | \$45,996,884 | 30.2% |
| Multi Remaining commodities | \$613,345,029 | \$448,847,285 | \$440,992,703 | -1.7% |

Nesoi - Not elsewhere specified or indicated

Value of Electrical Machinery



Percent of All Ohio Exports



Top 5 Trading Partners - 2021

| | 2021 Value | Pct of Total |
|-------------|-----------------|-----------------|
| Total | \$3,031,415,317 | |
| Canada | \$895,581,851 | 29.5% |
| Mexico | \$336,170,658 | 11.1% |
| Belgium | \$178,986,450 | 5.9% |
| Netherlands | \$167,338,758 | 5.5% |
| China | \$166,048,187 | 5.5% |
| Others | \$1,287,289,413 | 42.5% |

Top 5 Trading Partners - 2019 to 2021

| | 2019 to 2021 Value | Pct of 3-yr Total |
|-------------|-----------------------|----------------------|
| Total | \$8,965,392,776 | |
| Canada | \$2,954,301,478 | 33.0% |
| Mexico | \$1,294,494,840 | 14.4% |
| Belgium | \$416,361,822 | 4.6% |
| Netherlands | \$436,838,881 | 4.9% |
| China | \$461,810,545 | 5.2% |
| Others | \$3,401,585,210 | 37.9% |

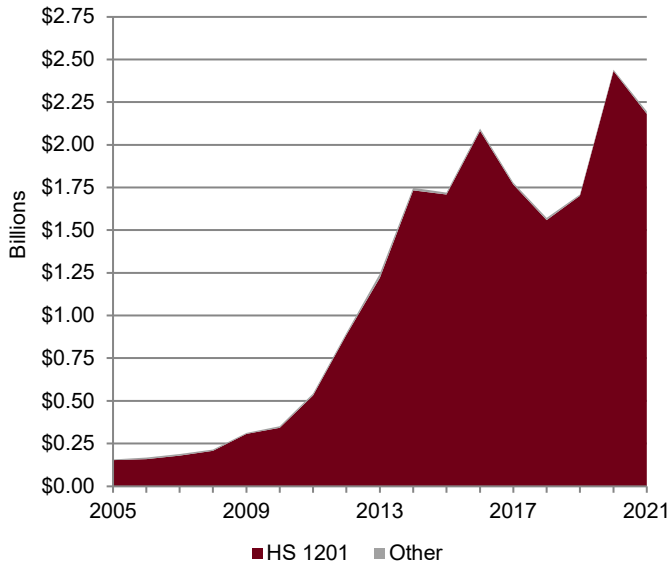
Oil Seed, Misc. Grain, Fruit (HS 12) Exports



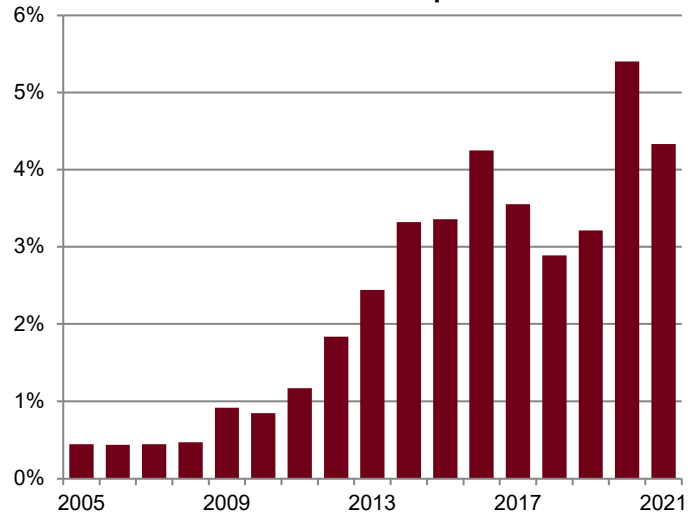
Harmonized
Tariff Schedule

| | | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|--------------|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | | \$1,708,840,572 | \$2,440,097,100 | \$2,195,554,055 | -10.0% |
| 1201 | Soybeans, Whether or Not Broken | \$1,700,581,291 | \$2,432,842,239 | \$2,181,136,450 | -10.3% |
| 1209 | Seeds, Fruit and Spores, For Sowing | \$4,108,985 | \$4,893,206 | \$6,524,487 | 33.3% |
| 1211 | Plants etc for Pharmacy, Perfume, Insecticides | \$2,381,622 | \$1,410,544 | \$3,893,843 | 176.1% |
| 1208 | Flour & Meal Of Oil Seed (no mustard seed) | \$518,954 | \$230,499 | \$2,878,002 | 1148.6% |
| 1212 | Locust Beans, Sugar Beet; Fruit Pits Etc. | \$38,861 | \$153,734 | \$645,546 | 319.9% |
| 1210 | Hop Cones, Fresh or Dried; Lupulin | \$124,071 | \$147,798 | \$210,373 | 42.3% |
| 1206 | Sunflower Seeds, Whether or Not Broken | \$59,308 | \$93,487 | \$111,105 | 18.8% |
| 1204 | Flaxseed (Linseed), Whether or Not Broken | \$18,375 | \$66,962 | \$88,689 | 32.4% |
| 1202 | Peanuts (Ground-Nuts), Raw | \$77,991 | \$0 | \$21,717 | n.a. |
| 1207 | Oil Seeds & Oleaginous Fruits Nesoi, Broken/Not | \$2,510 | \$68,508 | \$17,628 | -74.3% |
| 1214 | Rutabagas, Hay, Clover & Other Forage Products | \$225,100 | \$185,073 | \$17,413 | -90.6% |
| 1213 | Cereal Straw & Husks Unprepared | \$0 | \$5,050 | \$8,802 | 74.3% |
| 1205 | Rape or Colza Seeds, Whether or Not Broken | \$703,504 | \$0 | \$0 | n.a. |

Value of Oil Seeds, etc.



Percent of All Ohio Exports



Top 5 Trading Partners - 2021

| | 2021 Value | Pct of Total |
|-----------|-----------------|-----------------|
| Total | \$2,195,554,055 | |
| China | \$630,607,150 | 28.7% |
| Mexico | \$252,391,455 | 11.5% |
| Egypt | \$225,734,071 | 10.3% |
| Pakistan | \$201,957,826 | 9.2% |
| Indonesia | \$168,216,887 | 7.7% |
| Others | \$716,646,666 | 32.6% |

Top 5 Trading Partners - 2019 to 2021

| | 2019 to 2021 Value | Pct of 3-yr Total |
|-----------|-----------------------|----------------------|
| Total | \$6,344,491,727 | |
| China | \$2,210,141,936 | 34.8% |
| Egypt | \$810,387,343 | 12.8% |
| Mexico | \$706,553,712 | 11.1% |
| Pakistan | \$367,601,730 | 5.8% |
| Indonesia | \$308,183,885 | 4.9% |
| Others | \$1,941,623,121 | 30.6% |

Pharmaceutical Products (HS 30) Exports

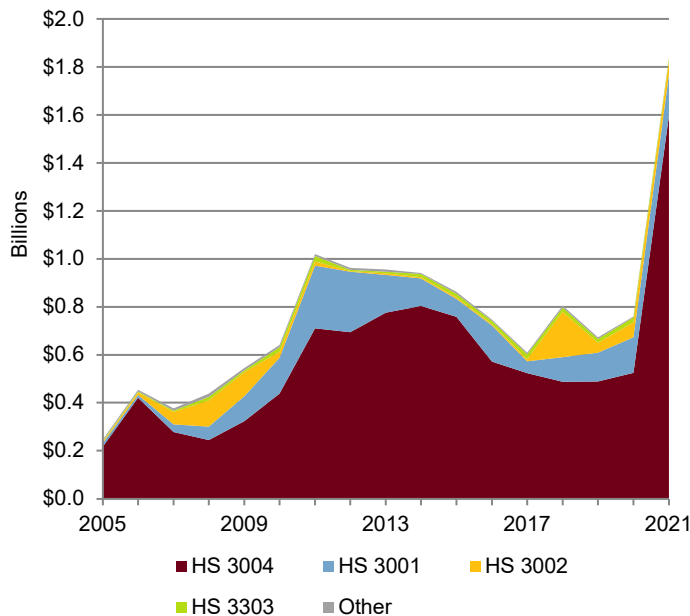


Harmonized
Tariff Schedule

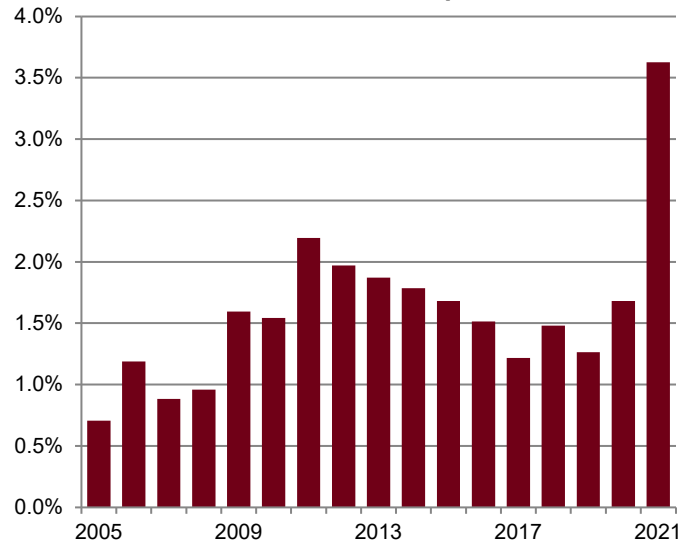
| | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|--|----------------------|----------------------|------------------------|---------------------|
| TOTAL | \$672,964,164 | \$759,192,324 | \$1,839,235,674 | 142.3% |
| 3004 Medicaments Nesoi, In Measured Doses | \$489,174,474 | \$524,682,199 | \$1,595,719,136 | 204.1% |
| 3001 Glands/Organs & Extracts; For Organtherapy | \$119,038,211 | \$147,536,333 | \$172,826,175 | 17.1% |
| 3002 Human Blood; Animal Blood; Vaccines Etc | \$42,080,666 | \$63,694,061 | \$56,872,479 | -10.7% |
| 3003 Medicaments Nesoi, Not Measured Doses | \$15,972,847 | \$19,113,432 | \$10,765,563 | -43.7% |
| 3005 Wadding, Gauze, Bandages Etc | \$3,912,038 | \$3,012,953 | \$2,225,771 | -26.1% |
| 3006 Other Pharmaceutical Goods | \$2,785,928 | \$1,153,346 | \$826,550 | -28.3% |

Nesoi - Not elsewhere specified or indicated

Value of Soap/Wax Products



Percent of All Ohio Exports



Top 5 Trading Partners - 2021

| | 2021 Value | Pct of Total |
|-------------|-----------------|-----------------|
| Total | \$1,839,235,674 | |
| Netherlands | \$595,178,574 | 32.4% |
| Canada | \$352,514,645 | 19.2% |
| Belgium | \$194,749,153 | 10.6% |
| Mexico | \$133,815,924 | 7.3% |
| Switzerland | \$115,438,382 | 6.3% |
| Others | \$447,538,996 | 24.3% |

Top 5 Trading Partners - 2019 to 2021

| | 2019 to 2021 Value | Pct of 3-yr Total |
|-------------|-----------------------|----------------------|
| Total | \$3,271,392,162 | |
| Netherlands | \$636,652,306 | 19.5% |
| Canada | \$502,643,925 | 15.4% |
| Switzerland | \$474,240,707 | 14.5% |
| Sweden | \$328,916,662 | 10.1% |
| Belgium | \$304,427,084 | 9.3% |
| Others | \$1,024,511,478 | 31.3% |

Optic, Photo; Medical Instruments (HS 90) Exports

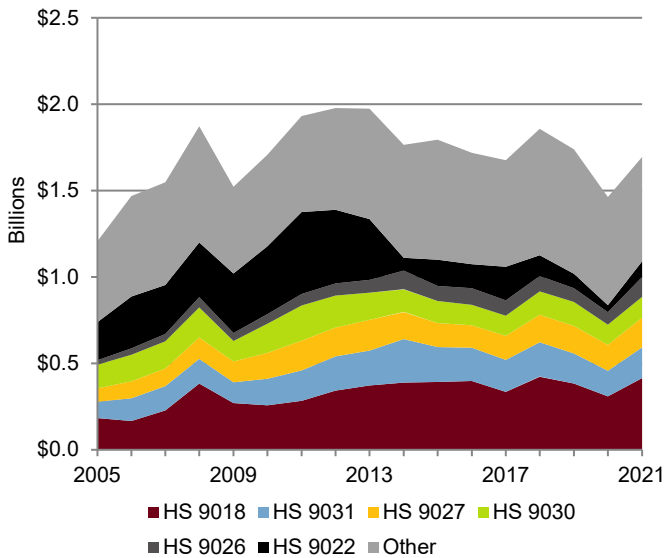


Harmonized
Tariff Schedule

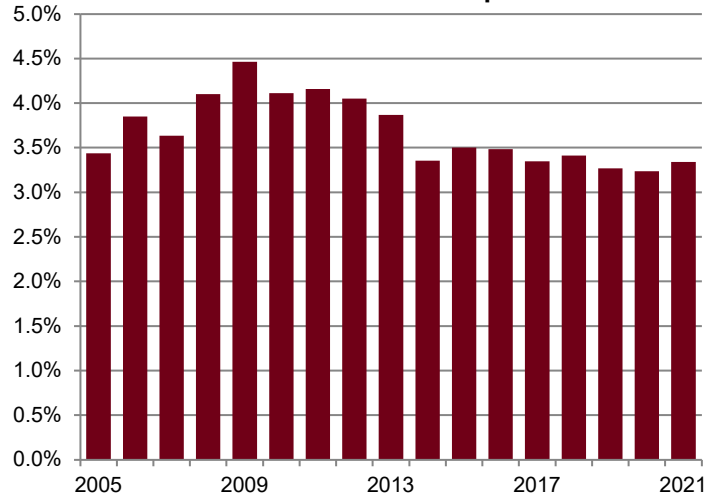
| | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$1,739,154,976 | \$1,461,729,905 | \$1,694,252,146 | 15.9% |
| 9018 Medical, Surgical, Dental or Vet Instruments | \$382,911,555 | \$308,303,658 | \$413,391,248 | 34.1% |
| 9031 Measuring or Checking Instruments Nesoi | \$173,942,936 | \$148,476,567 | \$178,486,048 | 20.2% |
| 9027 Instru./Apparatus for Physical/Chemical Analysis | \$159,592,411 | \$150,818,822 | \$172,411,176 | 14.3% |
| 9030 Oscilloscopes, Spectrum Analyzers etc | \$137,677,294 | \$115,988,482 | \$119,709,024 | 3.2% |
| 9026 Instruments for Measuring Liquids and Gases | \$80,386,581 | \$72,528,080 | \$115,782,315 | 59.6% |
| 9022 X-Ray Etc Apparatus; Tubes, Panels, Screen etc | \$82,981,723 | \$40,494,183 | \$90,012,917 | 122.3% |
| 9032 Automatic Regulating or Control Instruments | \$123,294,591 | \$81,513,526 | \$83,797,449 | 2.8% |
| 9001 Optic Fibers; Polarizing Sheets; Optic Elements | \$86,852,268 | \$62,123,477 | \$77,481,015 | 24.7% |
| 9015 Survey/Hydro./ Meteorological Instruments | \$71,558,899 | \$76,221,969 | \$74,835,599 | -1.8% |
| 9029 Revolution/Production Counters, Odometers etc | \$101,997,469 | \$78,212,021 | \$67,500,193 | -13.7% |
| 9013 Liquid Crystal Devices Nesoi; Lasers | \$53,855,808 | \$49,876,704 | \$60,126,594 | 20.6% |
| 9004 Spectacles, Goggles etc, Corrective, Protective etc | \$34,039,015 | \$76,342,334 | \$39,069,531 | -48.8% |
| 9021 Orthopedic Appliances; Artificial Body Parts; etc | \$72,077,933 | \$40,453,430 | \$37,727,133 | -6.7% |
| 9024 Machines for Testing Mechanical Properties | \$29,580,320 | \$23,951,458 | \$30,730,195 | 28.3% |
| 9023 Instruments/Models for Demonstrational Use | \$28,379,194 | \$29,203,241 | \$29,081,563 | -0.4% |
| 9019 Mechano-therapy & oth. respiration apparatus, etc | \$18,725,416 | \$33,992,059 | \$24,893,744 | -26.8% |
| 9017 Drawing, Math, Measuring Instruments Etc Nesoi | \$12,744,902 | \$19,007,021 | \$16,300,608 | -14.2% |
| 9025 Hydrometers, Thermometers, Pyrometers etc | \$22,091,946 | \$15,155,862 | \$14,930,634 | -1.5% |
| Multi Remaining commodities | \$66,464,715 | \$39,067,011 | \$47,985,160 | 22.8% |

Nesoi - Not elsewhere specified or indicated

Value of Optic/Photo/Med. Instruments



Percent of All Ohio Exports



Top 5 Trading Partners - 2021

| | 2021 Value | Pct of Total |
|---------|-----------------|-----------------|
| Total | \$1,694,252,146 | |
| Canada | \$302,452,410 | 17.9% |
| China | \$219,150,384 | 12.9% |
| Mexico | \$110,809,786 | 6.5% |
| Japan | \$91,653,819 | 5.4% |
| Germany | \$89,512,230 | 5.3% |
| Others | \$880,673,517 | 52.0% |

Top 5 Trading Partners - 2019 to 2021

| | 2019 to 2021 Value | Pct of 3-yr Total |
|---------|-----------------------|----------------------|
| Total | \$4,895,137,027 | |
| Canada | \$869,833,321 | 17.8% |
| China | \$554,986,996 | 11.3% |
| Mexico | \$333,198,355 | 6.8% |
| Germany | \$286,440,716 | 5.9% |
| Japan | \$263,928,892 | 5.4% |
| Others | \$2,586,748,747 | 52.8% |

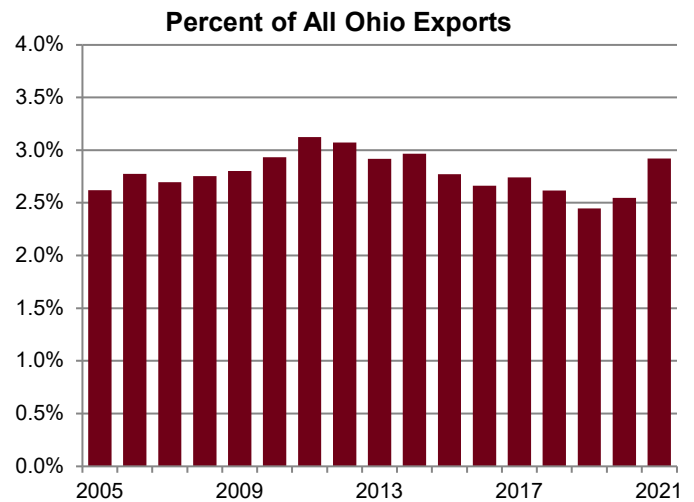
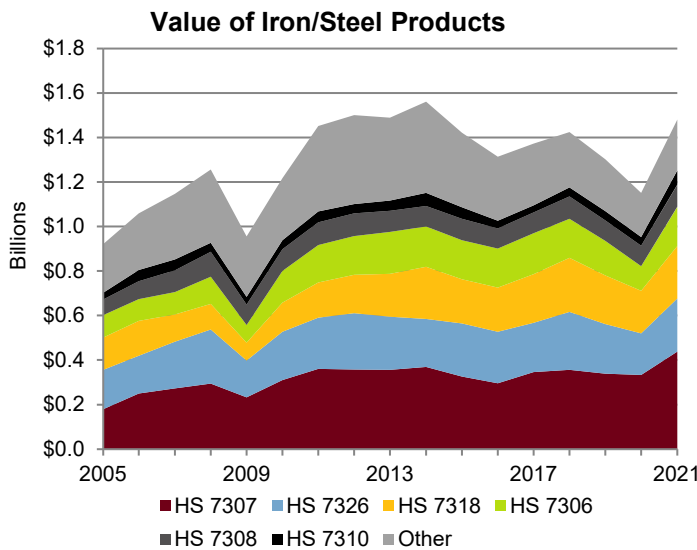
Iron And Steel Products (HS 73) Exports



Harmonized
Tariff Schedule

| | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$1,301,561,035 | \$1,150,979,684 | \$1,480,258,670 | 28.6% |
| 7307 Tube Or Pipe Fittings | \$339,442,268 | \$332,767,912 | \$438,047,364 | 31.6% |
| 7326 Articles of Iron or Steel, Nesoi | \$221,924,562 | \$187,283,213 | \$239,256,023 | 27.8% |
| 7318 Screws, Bolts, Nuts, Washers Etc | \$219,214,468 | \$190,611,005 | \$235,039,921 | 23.3% |
| 7306 Tubes, Pipes & Hollow Profiles Nesoi | \$155,013,726 | \$111,298,323 | \$176,422,831 | 58.5% |
| 7308 Structures Nesoi & Parts Thereof | \$92,106,550 | \$92,186,423 | \$99,074,330 | 7.5% |
| 7310 Tanks Etc, <= 300 Liter Capacity | \$40,740,564 | \$38,891,730 | \$64,891,330 | 66.9% |
| 7311 Containers for Compressed Liquified Gas | \$45,478,938 | \$41,714,177 | \$44,701,829 | 7.2% |
| 7304 Tubes, Pipes Etc, Seamless | \$46,246,425 | \$36,296,611 | \$38,556,064 | 6.2% |
| 7320 Springs & Leaves for Springs | \$29,419,713 | \$24,239,482 | \$33,044,025 | 36.3% |
| 7325 Cast Articles Nesoi | \$15,461,267 | \$10,676,664 | \$13,662,096 | 28.0% |
| 7303 Tubes, Pipes And Hollow Profiles Of Cast Iron | \$11,763,230 | \$6,759,802 | \$13,288,310 | 96.6% |
| 7315 Chain & Parts | \$11,196,152 | \$11,710,490 | \$13,202,055 | 12.7% |
| 7309 Tanks Etc, Over 300 Liter Capacity | \$7,078,452 | \$10,465,135 | \$10,237,318 | -2.2% |
| 7312 Stranded Wire, Ropes Etc, Not Elec. Insulated | \$8,128,527 | \$7,459,843 | \$8,878,178 | 19.0% |
| 7324 Sanitary Ware (sinks/baths) & Parts | \$9,563,247 | \$7,041,907 | \$8,025,490 | 14.0% |
| 7323 Table, Kitchen, Household Articles | \$10,232,729 | \$9,039,571 | \$7,793,592 | -13.8% |
| 7314 Cloth, Grill, Netting, Fencing, Etc; Of Iron Or Steel | \$6,409,612 | \$5,407,669 | \$7,426,607 | 37.3% |
| 7301 Sheet Piling, Welded Angles Etc | \$6,081,923 | \$5,197,197 | \$6,907,215 | 32.9% |
| 7321 Stoves, Ranges etc, Nonelectric Domestic & Parts | \$4,033,134 | \$4,126,408 | \$5,870,306 | 42.3% |
| Multi Remaining commodities | \$22,025,548 | \$17,806,122 | \$15,933,786 | -10.5% |

Nesoi - Not elsewhere specified or indicated



Top 5 Trading Partners - 2021

| | 2021 Value | Pct of Total |
|-------------|-----------------|-----------------|
| Total | \$1,480,258,670 | |
| Canada | \$540,837,880 | 36.5% |
| Mexico | \$342,066,925 | 23.1% |
| China | \$96,609,741 | 6.5% |
| Japan | \$76,605,832 | 5.2% |
| Netherlands | \$65,387,996 | 4.4% |
| Others | \$358,750,296 | 24.2% |

Top 5 Trading Partners - 2019 to 2021

| | 2019 to 2021 Value | Pct of 3-yr Total |
|-------------|-----------------------|----------------------|
| Total | \$3,932,799,389 | |
| Canada | \$1,499,129,825 | 38.1% |
| Mexico | \$871,059,415 | 22.1% |
| China | \$208,901,627 | 5.3% |
| Japan | \$202,221,147 | 5.1% |
| Netherlands | \$192,880,233 | 4.9% |
| Others | \$958,607,142 | 24.4% |

Cosmetics, Perfumery, Essential Oils (HS 33) Exports

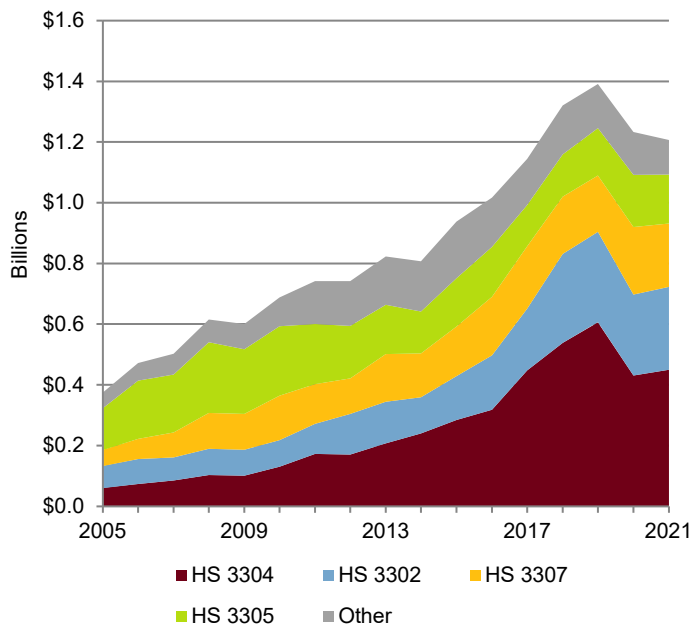


Harmonized
Tariff Schedule

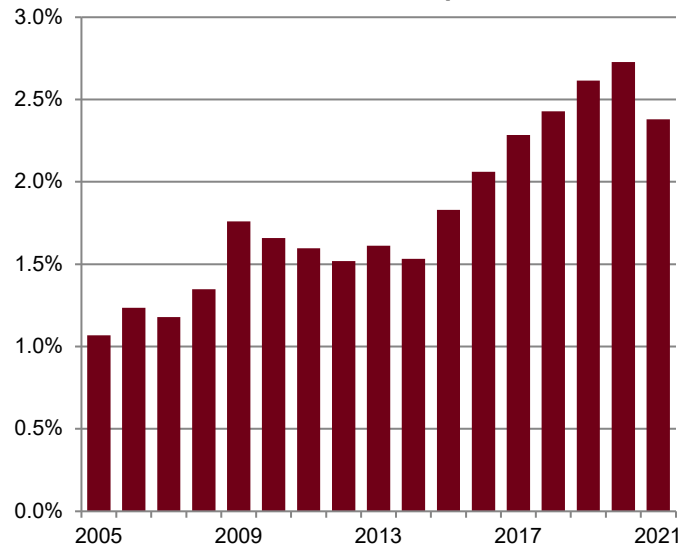
| | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$1,391,911,891 | \$1,232,539,319 | \$1,206,591,935 | -2.1% |
| 3304 Beauty, Make-Up & Skin-Care Preparations | \$606,267,870 | \$430,951,217 | \$450,069,597 | 4.4% |
| 3302 Odoriferous Mixtures; Industry & Beverage Mfg | \$298,062,483 | \$266,363,967 | \$272,344,940 | 2.2% |
| 3307 Shaving/Bath Preparations; Toilet Preps Nesoi | \$185,281,134 | \$222,508,554 | \$208,780,028 | -6.2% |
| 3305 Preparations for use on the Hair | \$156,129,401 | \$172,137,310 | \$161,179,810 | -6.4% |
| 3306 Preparations, Oral Dental Hygiene; Dental Floss | \$76,738,267 | \$106,743,122 | \$90,489,361 | -15.2% |
| 3303 Perfumes and Toilet Waters | \$40,582,264 | \$19,494,126 | \$14,028,608 | -28.0% |
| 3301 Essential Oils, Resinoids | \$28,850,472 | \$14,341,023 | \$9,699,591 | -32.4% |

Nesoi - Not elsewhere specified or indicated

Value of Cosmetic Products



Percent of All Ohio Exports



Top 5 Trading Partners - 2021

| | 2021 Value | Pct of Total |
|-----------|-----------------|-----------------|
| Total | \$1,206,591,935 | |
| Canada | \$482,530,836 | 40.0% |
| Russia | \$77,146,976 | 6.4% |
| France | \$60,089,749 | 5.0% |
| Mexico | \$55,647,367 | 4.6% |
| Australia | \$53,569,153 | 4.4% |
| Others | \$477,607,854 | 39.6% |

Top 5 Trading Partners - 2019 to 2021

| | 2019 to 2021 Value | Pct of 3-yr Total |
|-----------|-----------------------|----------------------|
| Total | \$3,831,043,145 | |
| Canada | \$1,495,098,413 | 39.0% |
| Singapore | \$259,228,739 | 6.8% |
| France | \$241,325,901 | 6.3% |
| Mexico | \$206,868,086 | 5.4% |
| Russia | \$186,946,627 | 4.9% |
| Others | \$1,441,575,379 | 37.6% |

Employment and Businesses Related to Exports



Goods exported from Ohio supported an estimated 195,000 jobs in 2020. Eighty-nine percent of these jobs were supported by manufactured goods exports.

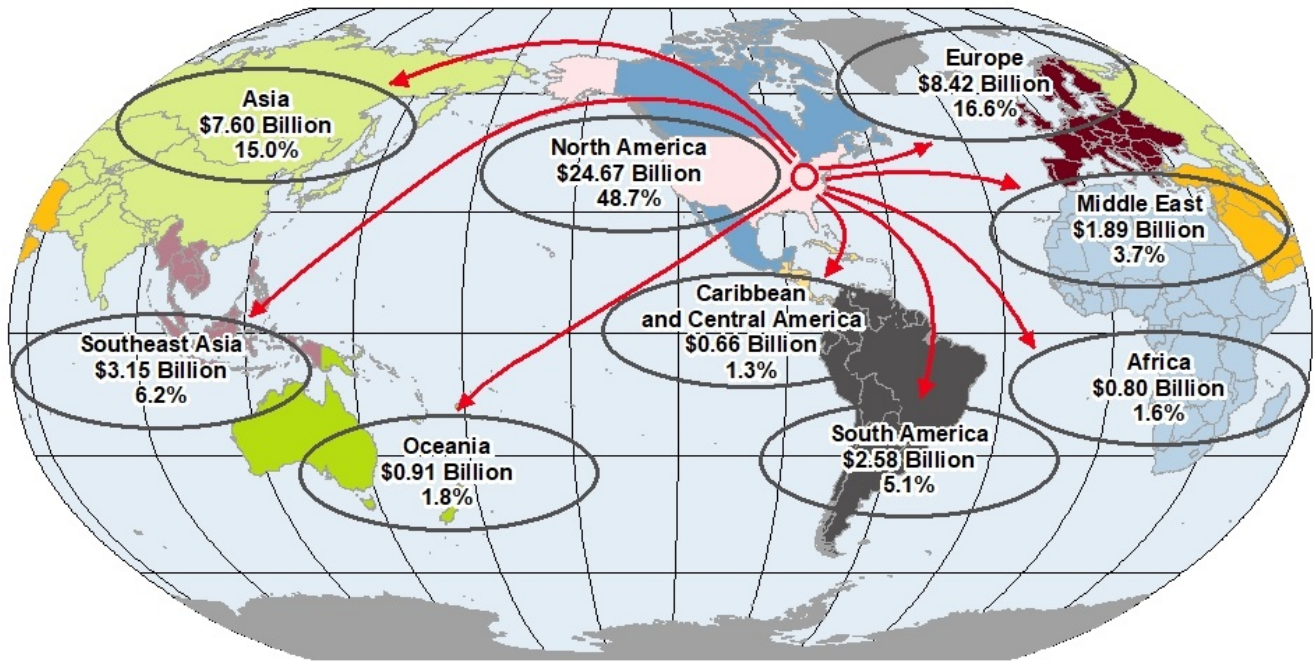
A total of 16,343 companies exported from Ohio in 2019. Of those, 14,410 (88 percent) were small and medium-sized enterprises with fewer than 500 employees.

Small and medium-sized firms generated 22.1 percent of Ohio's total exports of merchandise in 2019.

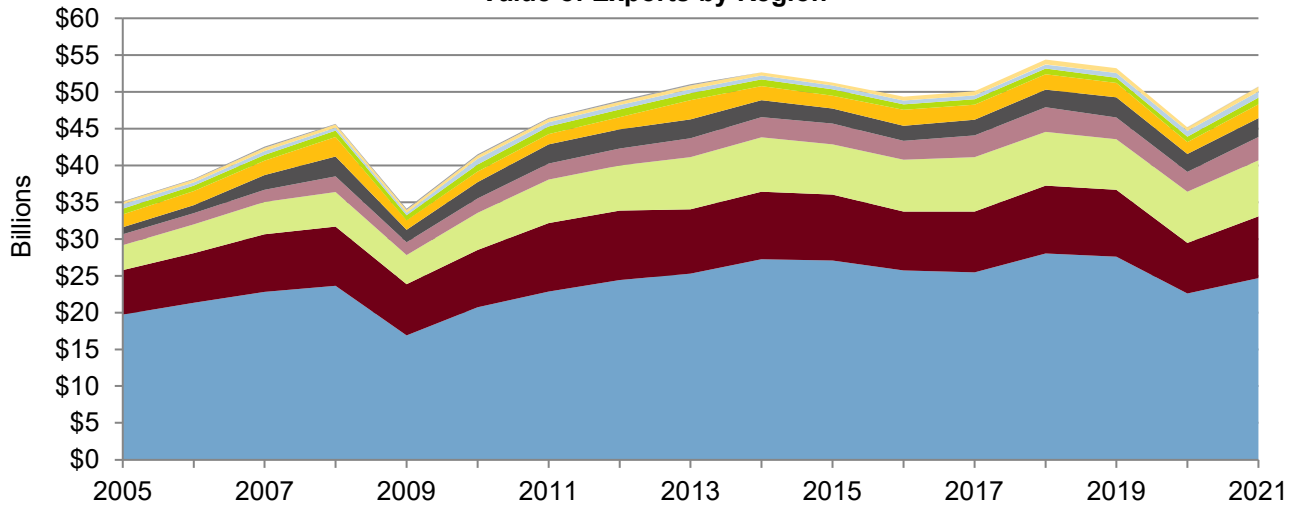
Source: International Trade Administration and Bureau of the Census, U.S. Department of Commerce; <https://www.census.gov/foreign-trade/Press-Release/edb/2019/index.html>
<https://www.trade.gov/feature-article/otea-publications>

Ohio Exports

Regional Destinations: 2021



Value of Exports by Region



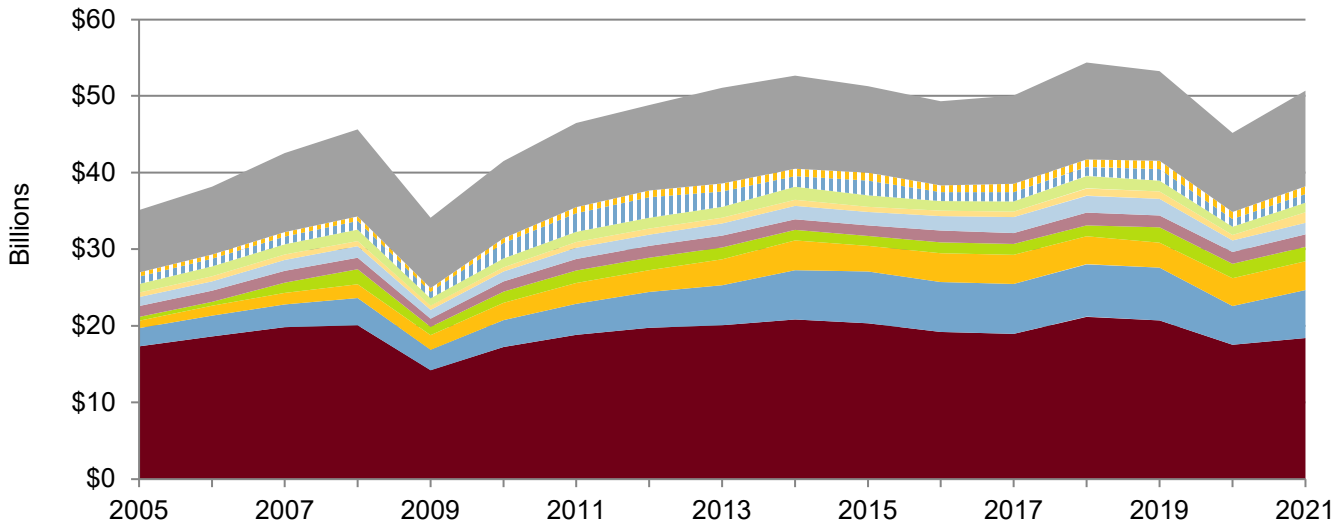
| | 2019 | 2020 | 2021 | % of 2021 Exports | % Chng. 20 to 21 |
|---------------------------|------------------|------------------|------------------|-------------------|------------------|
| North America | \$27,588,873,139 | \$22,578,880,019 | \$24,668,301,324 | 48.7% | 9.3% |
| Europe | \$9,072,939,145 | \$6,885,718,493 | \$8,423,363,082 | 16.6% | 22.3% |
| Asia | \$6,894,298,274 | \$6,948,039,283 | \$7,601,103,257 | 15.0% | 9.4% |
| Southeast Asia | \$2,965,627,001 | \$2,688,389,207 | \$3,153,199,924 | 6.2% | 17.3% |
| South America | \$2,748,582,392 | \$2,470,488,367 | \$2,577,417,108 | 5.1% | 4.3% |
| Middle East | \$1,938,868,895 | \$1,573,241,289 | \$1,890,598,130 | 3.7% | 20.2% |
| Oceania | \$703,486,409 | \$767,967,455 | \$911,895,792 | 1.8% | 18.7% |
| Africa | \$646,416,027 | \$763,033,737 | \$797,401,720 | 1.6% | 4.5% |
| Caribbean/Central America | \$656,394,847 | \$502,704,267 | \$661,099,305 | 1.3% | 31.5% |
| Unidentified/Other | \$9,109,204 | \$4,222,338 | \$17,172,066 | 0.0% | 306.7% |

Ohio Export Destinations

Top 10 Destinations: 2020

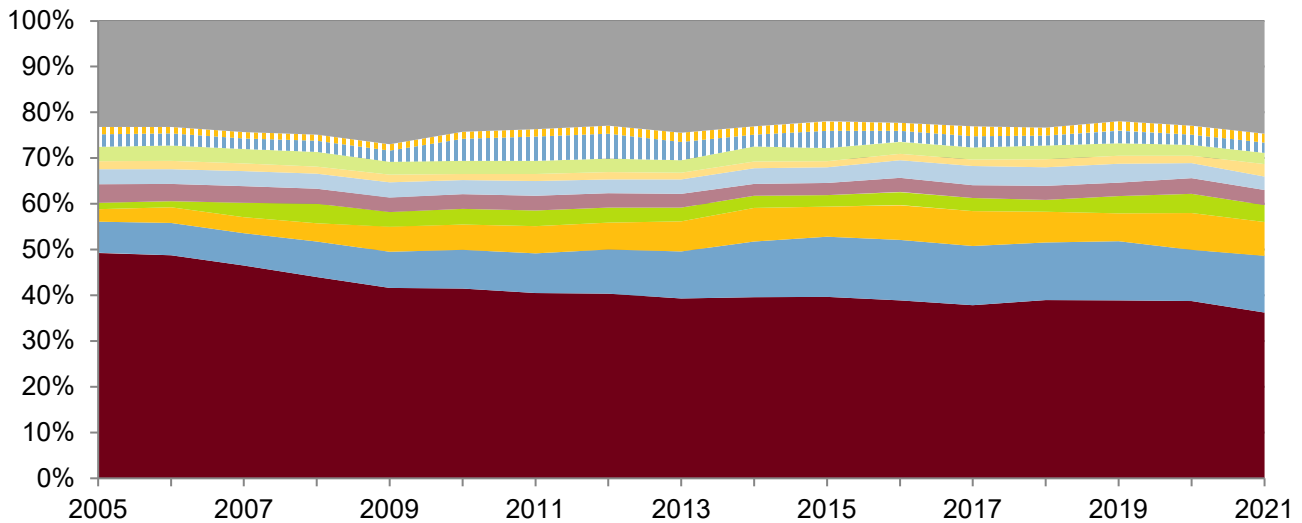


Value of Exports

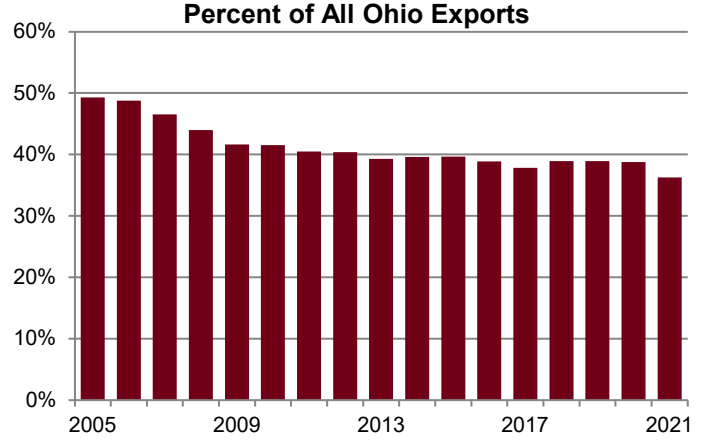
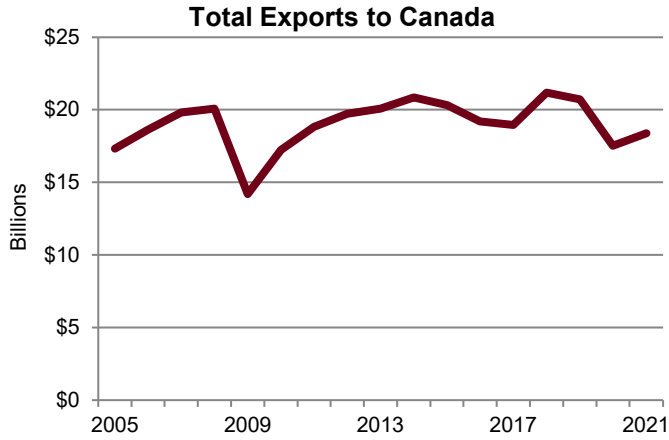


| Destination | 2021 Value | % of All Exports | % Change 20 to 21 |
|----------------|------------------|------------------|-------------------|
| Canada | \$18,375,364,841 | 36.2% | 5.0% |
| Mexico | \$6,289,782,564 | 12.4% | 24.1% |
| China | \$3,748,128,932 | 7.4% | 3.4% |
| Brazil | \$1,867,082,726 | 3.7% | -1.7% |
| Japan | \$1,666,125,762 | 3.3% | 8.2% |
| United Kingdom | \$1,482,994,372 | 2.9% | -0.2% |
| Netherlands | \$1,384,179,757 | 2.7% | 88.2% |
| Germany | \$1,248,010,834 | 2.5% | 15.5% |
| France | \$1,134,430,932 | 2.2% | 11.9% |
| Korea | \$1,018,768,314 | 2.0% | 15.3% |
| Remainder | \$12,486,682,674 | 24.6% | 20.7% |

Distribution of Exports



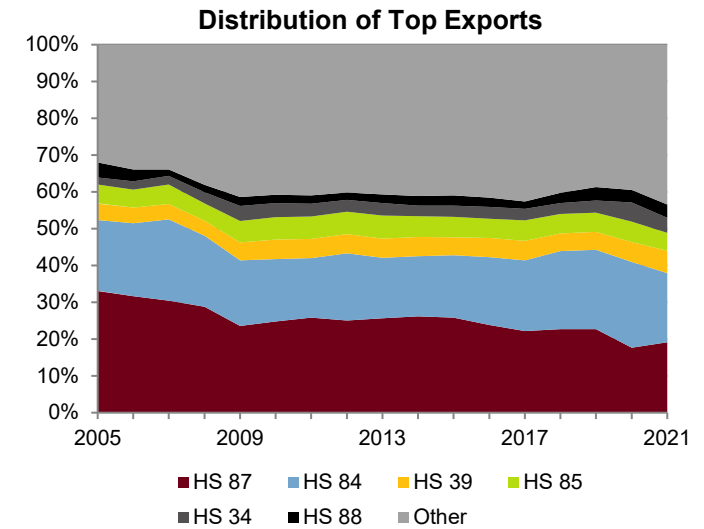
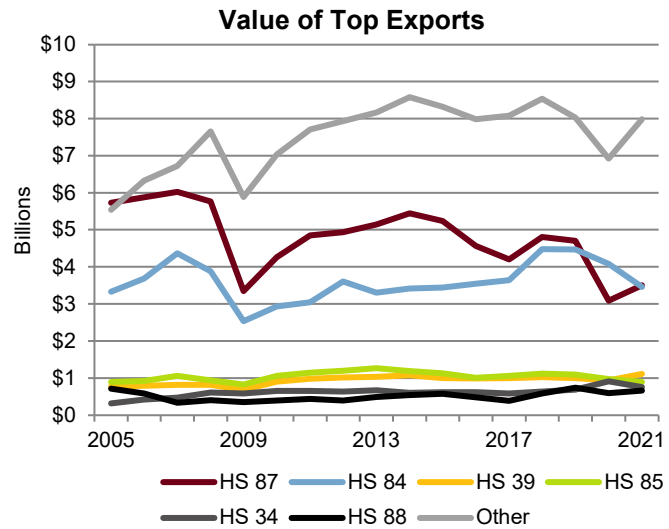
Exports to Canada



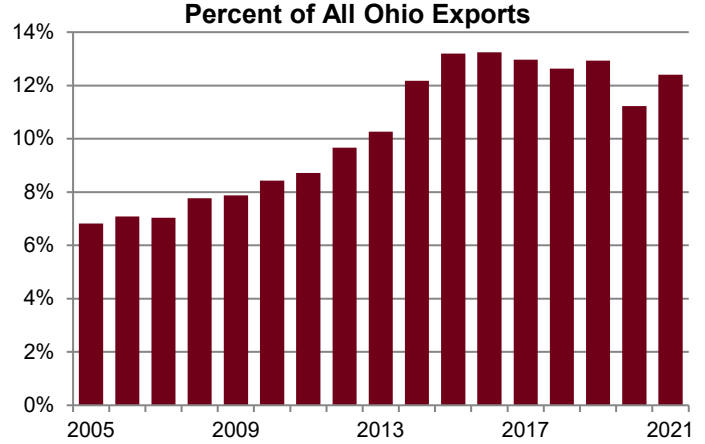
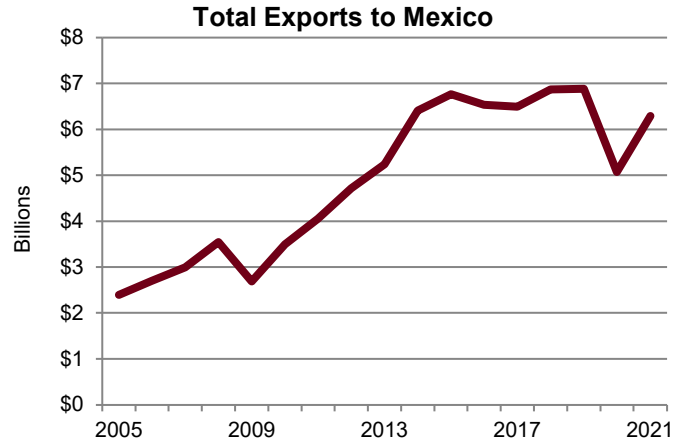
Harmonized
Tariff Schedule

| | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|---|-------------------------|-------------------------|-------------------------|---------------------|
| TOTAL | \$20,702,226,459 | \$17,503,600,711 | \$18,375,364,841 | 5.0% |
| 87 Vehicles and Parts | \$4,698,142,709 | \$3,092,209,547 | \$3,505,371,866 | 13.4% |
| 84 Industrial Machinery, Including Computers | \$4,465,249,094 | \$4,078,258,434 | \$3,458,585,001 | -15.2% |
| 39 Plastics and Articles Thereof | \$997,473,570 | \$937,398,278 | \$1,115,105,288 | 19.0% |
| 85 Electric Machinery; Sound Equip.; TV Equip. | \$1,089,762,428 | \$968,957,199 | \$895,581,851 | -7.6% |
| 34 Soap, Waxes, Lubricating Preparations, etc | \$685,606,179 | \$911,759,213 | \$751,850,900 | -17.5% |
| 88 Aircraft; Spacecraft and Parts | \$738,902,075 | \$592,153,172 | \$662,578,996 | 11.9% |
| 72 Iron and Steel | \$527,450,500 | \$416,448,062 | \$646,541,536 | 55.3% |
| 73 Iron and Steel Products | \$514,891,284 | \$443,400,661 | \$540,837,880 | 22.0% |
| 33 Essential Oils, Perfumery, Cosmetic, etc | \$466,238,852 | \$546,328,725 | \$482,530,836 | -11.7% |
| 27 Mineral Fuel, Oil, etc | \$446,073,201 | \$349,819,101 | \$470,567,887 | 34.5% |
| 48 Paper, Paperboard, Articles of Paper Pulp | \$368,482,733 | \$397,153,173 | \$373,553,029 | -5.9% |
| 40 Rubber and Articles Thereof | \$479,033,331 | \$354,538,582 | \$368,107,343 | 3.8% |
| 30 Pharmaceutical Products | \$67,482,420 | \$82,646,860 | \$352,514,645 | 326.5% |
| 38 Miscellaneous Chemical Products | \$269,193,711 | \$288,590,346 | \$319,674,760 | 10.8% |
| 90 Optic, Photo; Medical Instruments | \$299,465,473 | \$267,915,438 | \$302,452,410 | 12.9% |
| Multi Remaining commodities | \$4,588,778,899 | \$3,776,023,920 | \$4,129,510,613 | 9.4% |

Nesoi - Not elsewhere specified or indicated



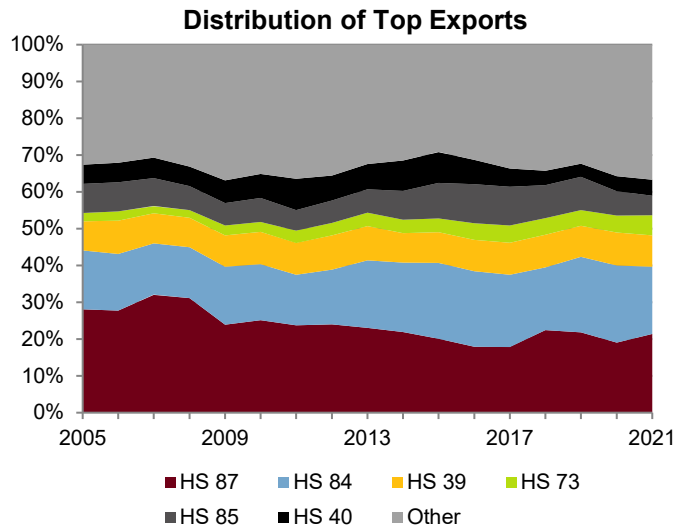
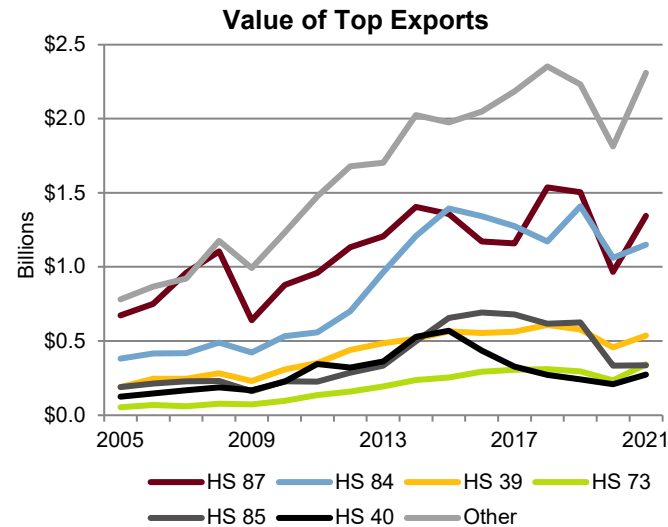
Exports to Mexico



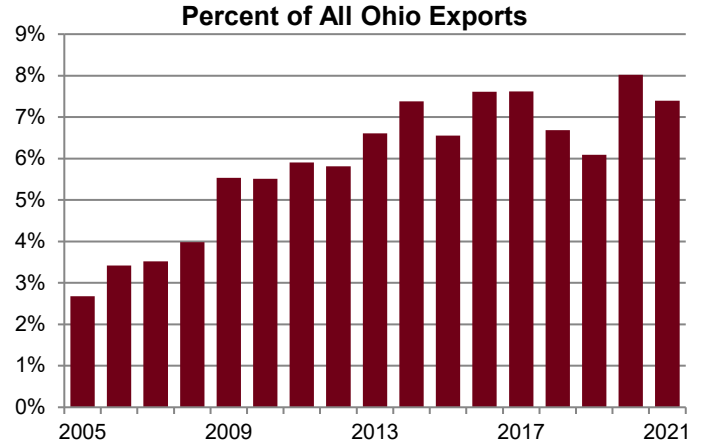
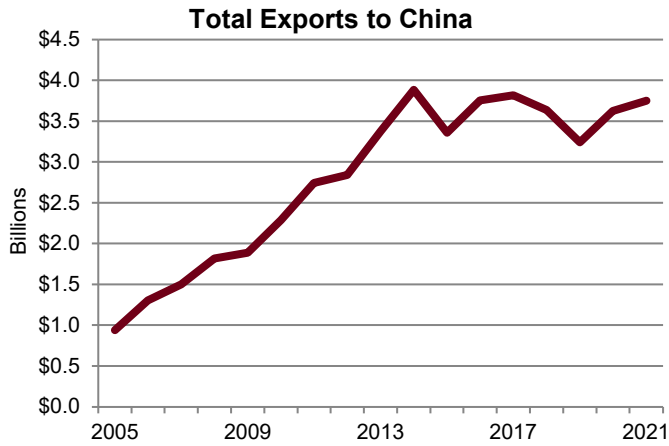
Harmonized
Tariff Schedule

| | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$6,882,879,525 | \$5,070,191,871 | \$6,289,782,564 | 24.1% |
| 87 Vehicles and Parts | \$1,503,165,256 | \$965,358,581 | \$1,344,729,782 | 39.3% |
| 84 Industrial Machinery, Including Computers | \$1,408,762,387 | \$1,060,474,270 | \$1,148,873,396 | 8.3% |
| 39 Plastics and Articles Thereof | \$578,520,300 | \$455,820,969 | \$535,520,128 | 17.5% |
| 73 Iron and Steel Products | \$294,829,192 | \$234,163,298 | \$342,066,925 | 46.1% |
| 85 Electric Machinery; Sound Equip.; TV Equip. | \$625,667,967 | \$332,656,215 | \$336,170,658 | 1.1% |
| 40 Rubber and Articles Thereof | \$241,415,152 | \$209,105,250 | \$273,934,813 | 31.0% |
| 88 Aircraft; Spacecraft and Parts | \$270,759,802 | \$164,071,576 | \$269,724,955 | 64.4% |
| 12 Oil Seed, Miscellaneous Grain | \$216,248,911 | \$237,913,346 | \$252,391,455 | 6.1% |
| 72 Iron and Steel | \$215,834,572 | \$147,180,844 | \$231,063,608 | 57.0% |
| 32 Tanning, Dye, Paint, Putty | \$210,861,721 | \$197,973,265 | \$213,045,924 | 7.6% |
| 38 Miscellaneous Chemical Products | \$146,078,626 | \$132,949,461 | \$168,326,819 | 26.6% |
| 30 Pharmaceutical Products | \$6,012,153 | \$40,161,904 | \$133,815,924 | 233.2% |
| 90 Optic, Photo; Medical Instruments | \$123,227,542 | \$99,161,027 | \$110,809,786 | 11.7% |
| 34 Soap, Waxes, Lubricating Preparations, etc | \$86,769,427 | \$82,173,003 | \$87,541,239 | 6.5% |
| 76 Aluminum and Articles Thereof | \$68,272,378 | \$63,785,361 | \$84,955,853 | 33.2% |
| Multi Remaining commodities | \$886,454,139 | \$647,243,501 | \$756,811,299 | 16.9% |

Nesoi - Not elsewhere specified or indicated



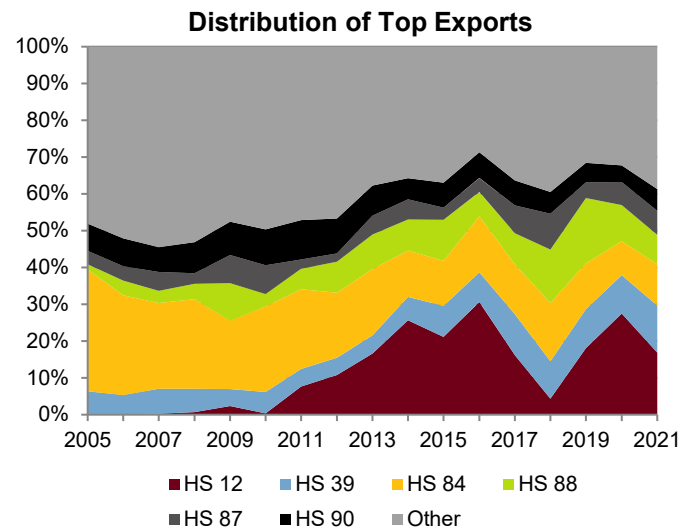
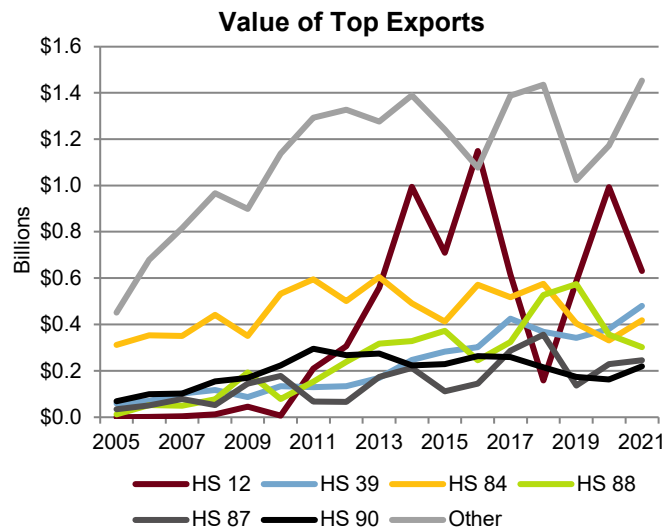
Exports to China



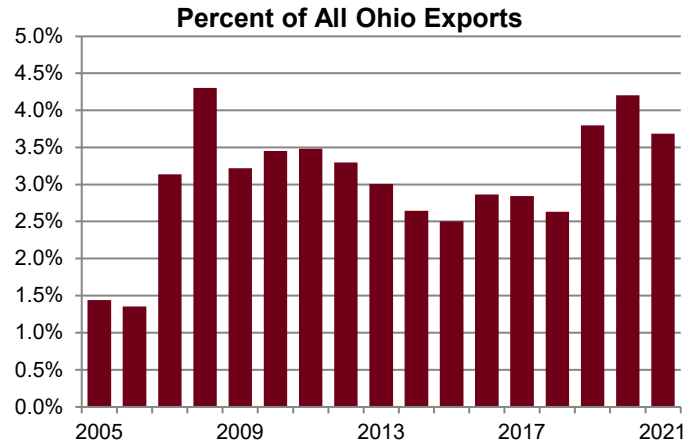
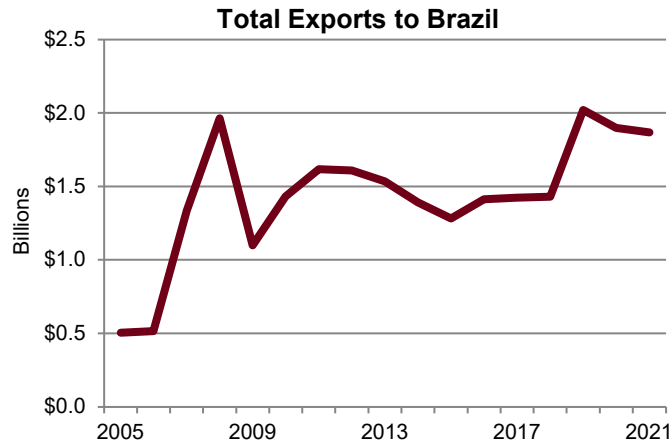
Harmonized
Tariff Schedule

| | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$3,240,179,815 | \$3,623,901,470 | \$3,748,128,932 | 3.4% |
| 12 Oil Seed, Miscellaneous Grain | \$586,164,098 | \$993,370,688 | \$630,607,150 | -36.5% |
| 39 Plastics and Articles Thereof | \$341,354,928 | \$380,385,272 | \$480,744,010 | 26.4% |
| 84 Industrial Machinery, Including Computers | \$404,550,518 | \$331,518,532 | \$418,479,356 | 26.2% |
| 88 Aircraft; Spacecraft and Parts | \$575,375,160 | \$356,246,836 | \$301,403,498 | -15.4% |
| 87 Vehicles and Parts | \$135,707,503 | \$228,720,214 | \$244,848,030 | 7.1% |
| 90 Optic, Photo; Medical Instruments | \$173,922,082 | \$161,914,530 | \$219,150,384 | 35.3% |
| 85 Electric Machinery; Sound Equip.; TV Equip. | \$154,990,145 | \$140,772,213 | \$166,048,187 | 18.0% |
| 10 Cereals | \$94,500 | \$80,455,223 | \$143,721,249 | 78.6% |
| 38 Miscellaneous Chemical Products | \$99,787,825 | \$128,621,497 | \$117,083,483 | -9.0% |
| 73 Iron and Steel Products | \$57,067,549 | \$55,224,337 | \$96,609,741 | 74.9% |
| 28 Inorganic Chemicals; Rare-Earths | \$58,885,167 | \$71,930,207 | \$93,043,003 | 29.4% |
| 44 Wood and Articles of Wood; Wood Charcoal | \$73,778,839 | \$70,185,878 | \$90,396,950 | 28.8% |
| 29 Organic Chemicals | \$70,985,965 | \$51,614,799 | \$74,461,655 | 44.3% |
| 30 Pharmaceutical Products | \$41,232,609 | \$21,671,836 | \$56,337,354 | 160.0% |
| 75 Nickel and Articles Thereof | \$6,467,547 | \$43,061,383 | \$47,226,155 | 9.7% |
| Multi Remaining commodities | \$459,815,380 | \$508,208,025 | \$567,968,727 | 11.8% |

Nesoi - Not elsewhere specified or indicated



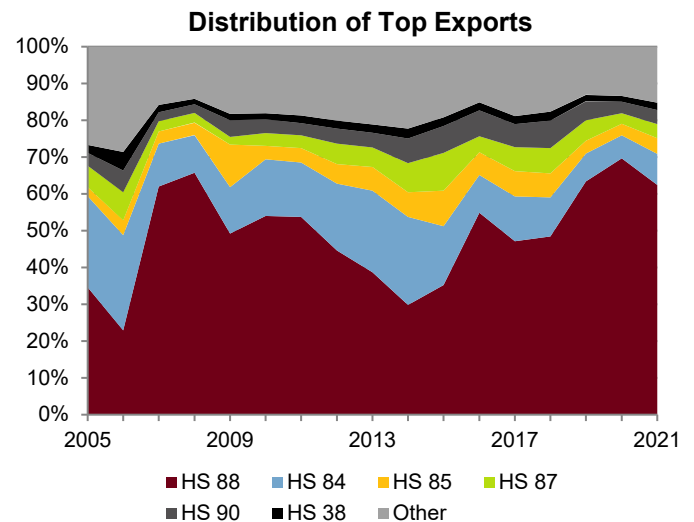
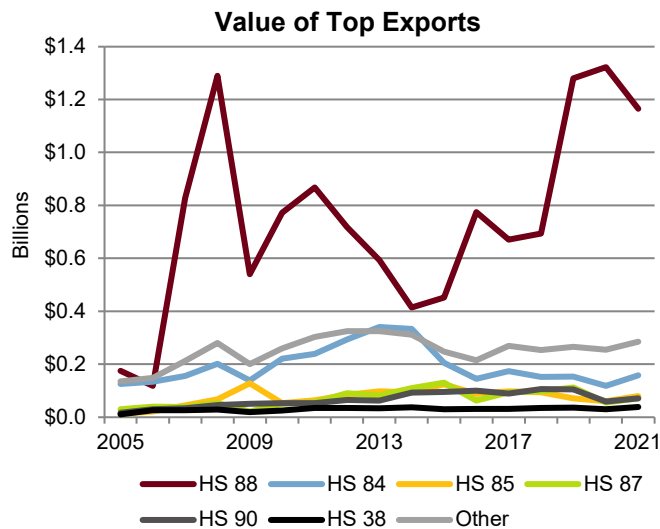
Exports to Brazil



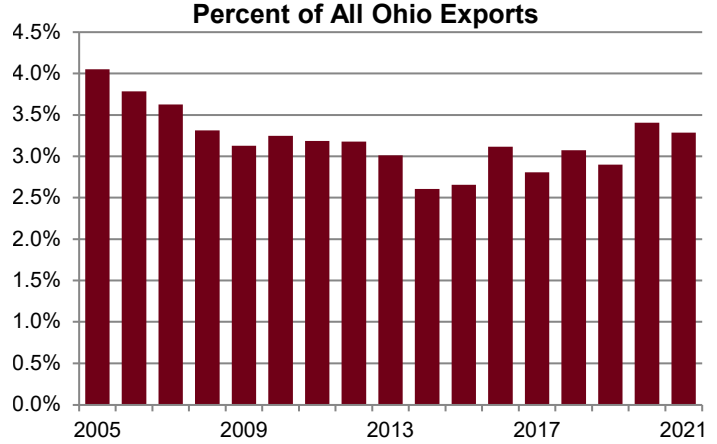
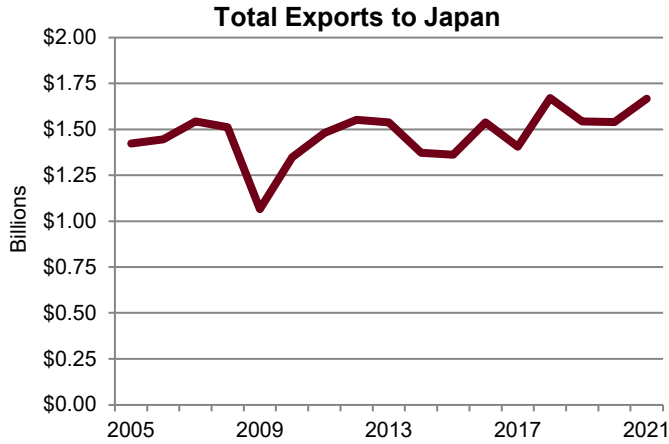
Harmonized
Tariff Schedule

| | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$2,021,274,595 | \$1,898,906,188 | \$1,867,082,726 | -1.7% |
| 88 Aircraft; Spacecraft and Parts | \$1,280,234,056 | \$1,322,690,588 | \$1,165,285,973 | -11.9% |
| 84 Industrial Machinery, Including Computers | \$153,313,942 | \$118,355,176 | \$157,201,132 | 32.8% |
| 85 Electric Machinery; Sound Equip.; TV Equip. | \$70,813,274 | \$59,600,647 | \$79,728,944 | 33.8% |
| 87 Vehicles and Parts | \$111,641,504 | \$54,385,709 | \$71,112,195 | 30.8% |
| 90 Optic, Photo; Medical Instruments | \$105,052,533 | \$58,972,692 | \$71,035,013 | 20.5% |
| 38 Miscellaneous Chemical Products | \$35,382,284 | \$29,872,638 | \$38,478,058 | 28.8% |
| 39 Plastics and Articles Thereof | \$30,701,507 | \$35,811,480 | \$37,278,358 | 4.1% |
| 27 Mineral Fuel, Oil, etc | \$1,976,498 | \$4,637,215 | \$26,163,379 | 464.2% |
| 73 Iron and Steel Products | \$18,431,901 | \$17,574,942 | \$22,887,515 | 30.2% |
| 32 Tanning, Dye, Paint, Putty | \$12,309,484 | \$12,803,249 | \$17,882,111 | 39.7% |
| 40 Rubber and Articles Thereof | \$13,247,626 | \$9,891,183 | \$16,987,750 | 71.7% |
| 75 Nickel and Articles Thereof | \$4,929,802 | \$9,261,120 | \$16,404,002 | 77.1% |
| 29 Organic Chemicals | \$14,601,889 | \$23,873,419 | \$15,322,530 | -35.8% |
| 34 Soap, Waxes, Lubricating Preparations, etc | \$24,724,704 | \$11,319,026 | \$13,443,698 | 18.8% |
| 33 Essential Oils, Perfumery, Cosmetic, etc | \$9,055,472 | \$9,939,714 | \$11,600,401 | 16.7% |
| Multi Remaining commodities | \$134,858,119 | \$119,917,390 | \$106,271,667 | -11.4% |

Nesoi - Not elsewhere specified or indicated



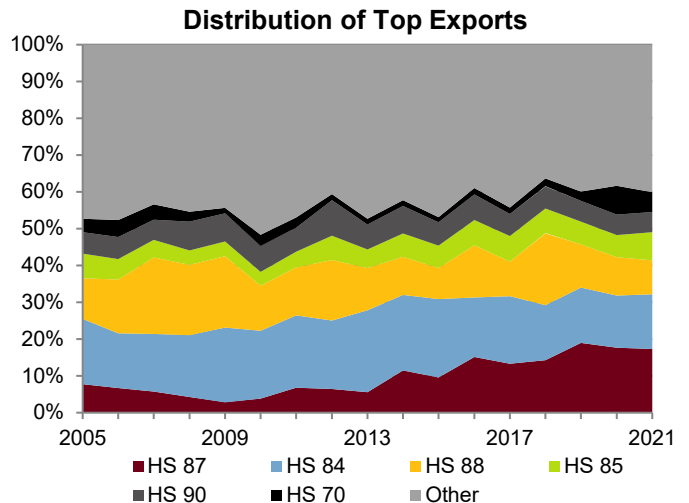
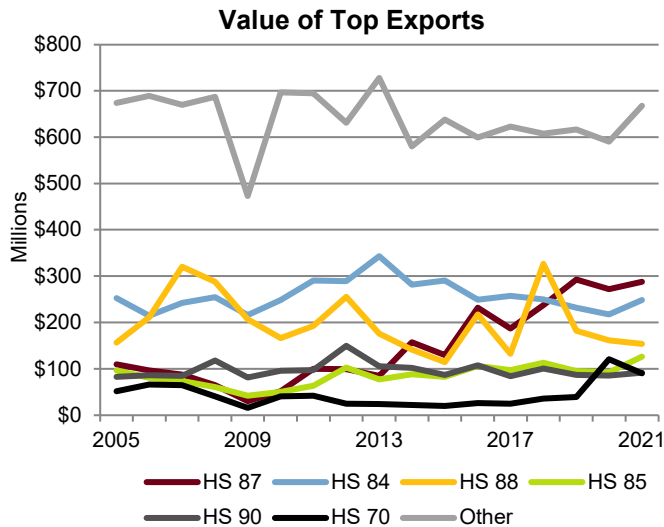
Exports to Japan



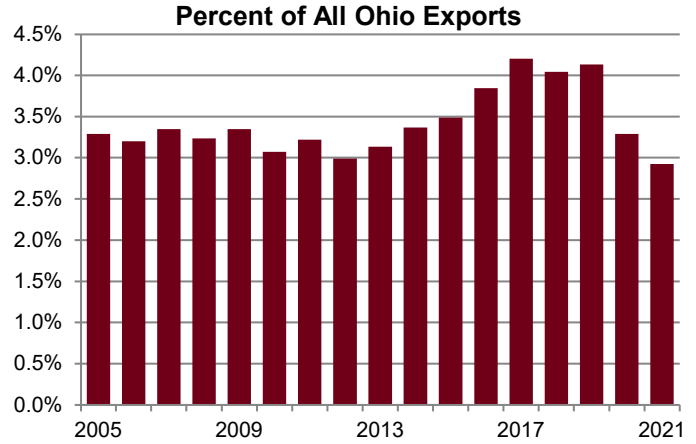
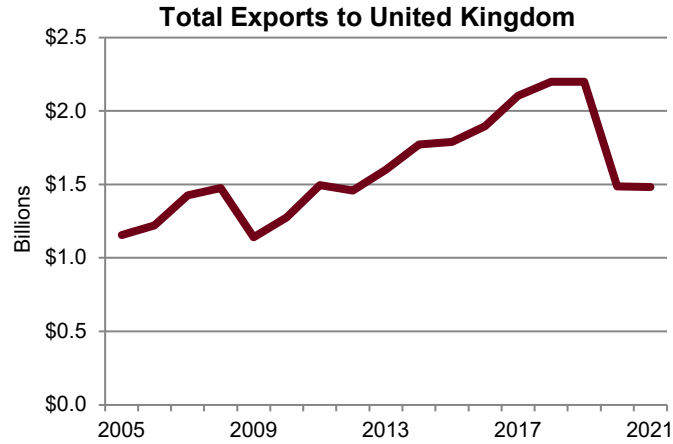
Harmonized
Tariff Schedule

| | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$1,543,220,496 | \$1,539,412,720 | \$1,666,125,762 | 8.2% |
| 87 Vehicles and Parts | \$292,582,036 | \$271,723,218 | \$287,408,696 | 5.8% |
| 84 Industrial Machinery, Including Computers | \$231,630,500 | \$217,181,499 | \$248,258,043 | 14.3% |
| 88 Aircraft; Spacecraft and Parts | \$181,746,534 | \$161,357,235 | \$153,902,131 | -4.6% |
| 85 Electric Machinery; Sound Equip.; TV Equip. | \$94,878,467 | \$92,462,172 | \$126,674,511 | 37.0% |
| 90 Optic, Photo; Medical Instruments | \$86,953,105 | \$85,321,968 | \$91,653,819 | 7.4% |
| 70 Glass and Glassware | \$39,105,254 | \$120,825,287 | \$90,413,360 | -25.2% |
| 73 Iron and Steel Products | \$57,155,561 | \$68,459,754 | \$76,605,832 | 11.9% |
| 39 Plastics and Articles Thereof | \$74,276,553 | \$67,500,357 | \$72,840,756 | 7.9% |
| 38 Miscellaneous Chemical Products | \$50,645,974 | \$52,996,444 | \$61,209,491 | 15.5% |
| 30 Pharmaceutical Products | \$22,864,671 | \$24,427,702 | \$52,677,482 | 115.6% |
| 12 Oil Seed, Miscellaneous Grain | \$80,481,693 | \$41,874,806 | \$50,179,657 | 19.8% |
| 40 Rubber and Articles Thereof | \$8,943,284 | \$29,359,845 | \$34,698,111 | 18.2% |
| 29 Organic Chemicals | \$26,689,637 | \$31,077,926 | \$29,469,470 | -5.2% |
| 83 Miscellaneous Articles of Base Metal | \$9,716,980 | \$16,175,485 | \$26,108,090 | 61.4% |
| 33 Essential Oils, Perfumery, Cosmetic, etc | \$46,747,697 | \$27,054,015 | \$25,385,785 | -6.2% |
| Multi Remaining commodities | \$238,802,550 | \$231,615,007 | \$238,640,528 | 3.0% |

Nesoi - Not elsewhere specified or indicated



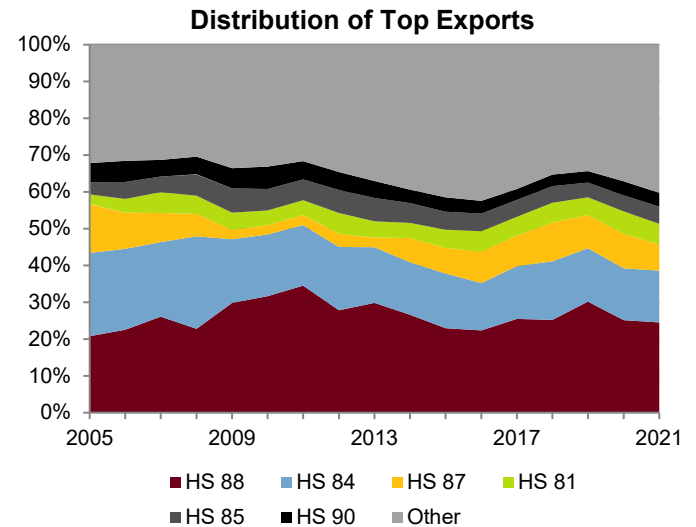
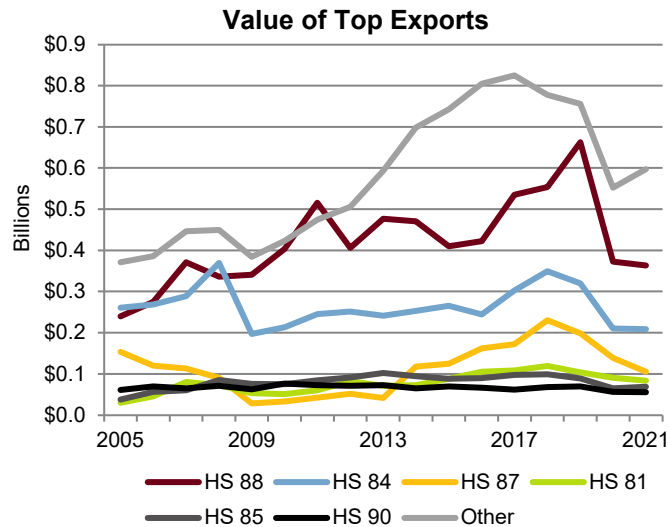
Exports to the United Kingdom



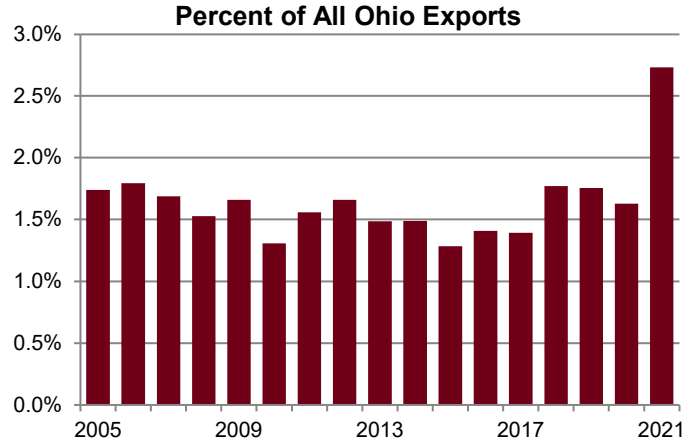
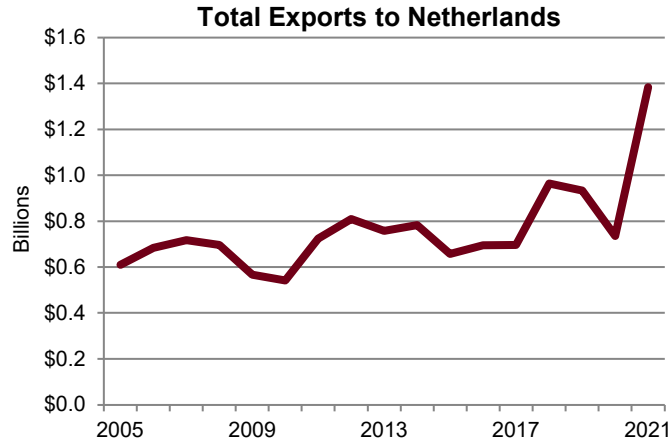
Harmonized
Tariff Schedule

| | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$2,198,076,133 | \$1,485,429,736 | \$1,482,994,372 | -0.2% |
| 88 Aircraft; Spacecraft and Parts | \$662,855,421 | \$372,543,286 | \$363,277,531 | -2.5% |
| 84 Industrial Machinery, Including Computers | \$319,633,267 | \$210,157,970 | \$208,572,029 | -0.8% |
| 87 Vehicles and Parts | \$198,696,212 | \$138,729,143 | \$105,598,886 | -23.9% |
| 81 Base Metals Nesoi; Cermet; Articles Thereof | \$103,552,287 | \$90,831,635 | \$83,180,058 | -8.4% |
| 85 Electric Machinery; Sound Equip.; TV Equip. | \$88,622,323 | \$64,518,990 | \$68,993,238 | 6.9% |
| 90 Optic, Photo; Medical Instruments | \$69,165,587 | \$56,539,018 | \$55,864,978 | -1.2% |
| 75 Nickel and Articles Thereof | \$4,587,180 | \$20,642,882 | \$48,650,643 | 135.7% |
| 39 Plastics and Articles Thereof | \$61,097,217 | \$44,009,121 | \$46,739,360 | 6.2% |
| 73 Iron and Steel Products | \$37,735,198 | \$28,081,573 | \$41,814,536 | 48.9% |
| 12 Oil Seed, Miscellaneous Grain | \$219,299 | \$224,944 | \$30,267,967 | 13355.8% |
| 33 Essential Oils, Perfumery, Cosmetic, etc | \$24,165,602 | \$20,478,104 | \$29,397,948 | 43.6% |
| 82 Tools, Implements, Cutlery of Base Metals | \$24,287,768 | \$18,074,229 | \$19,795,574 | 9.5% |
| 76 Aluminum and Articles Thereof | \$21,769,041 | \$15,869,661 | \$17,815,836 | 12.3% |
| 61 Apparel Articles, etc, Knit or Crochet | \$27,214,451 | \$11,794,882 | \$17,353,268 | 47.1% |
| 62 Apparel Articles, etc, Not Knit or Crochet | \$24,332,598 | \$11,421,997 | \$17,221,529 | 50.8% |
| Multi Remaining commodities | \$530,142,682 | \$381,512,301 | \$328,450,991 | -13.9% |

Nesoi - Not elsewhere specified or indicated



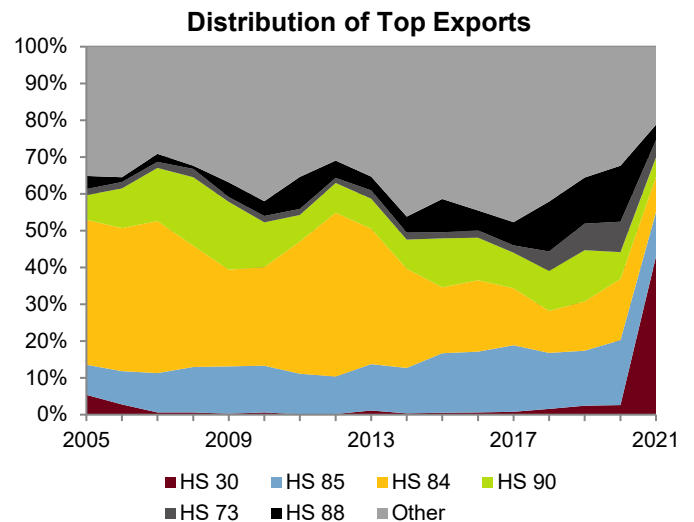
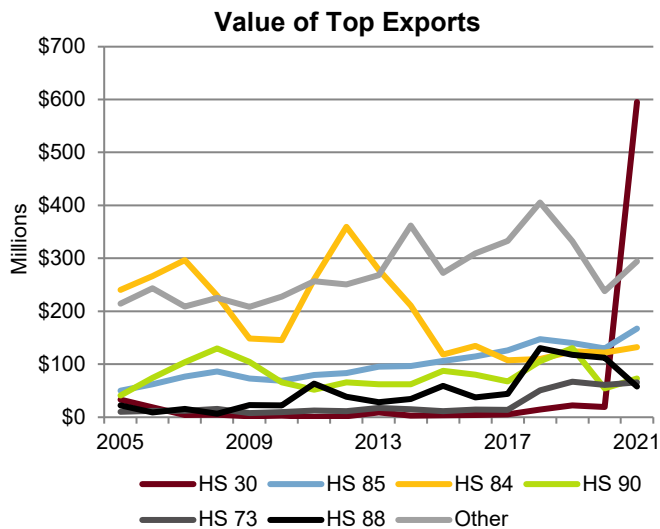
Exports to Netherlands



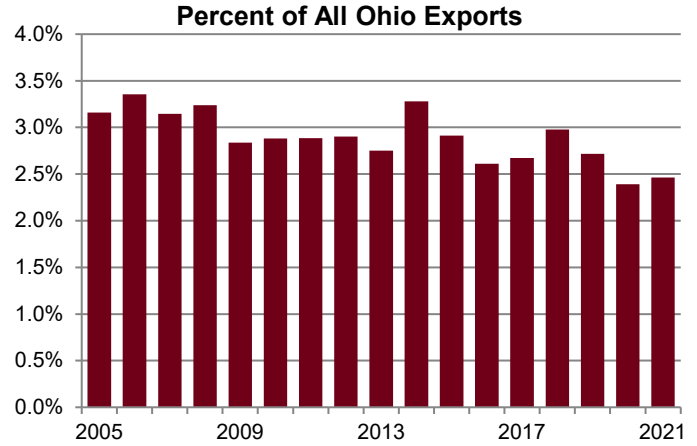
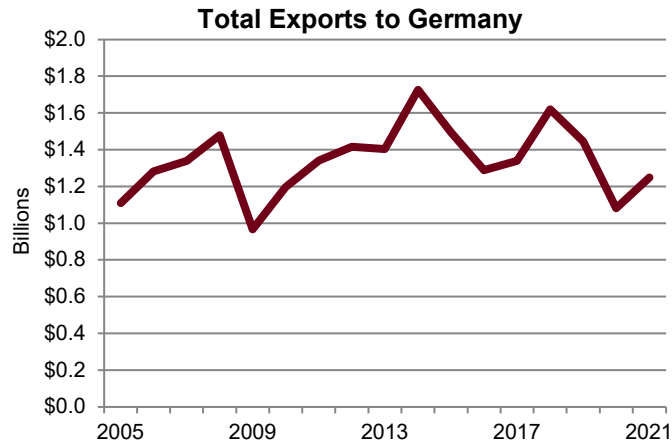
Harmonized
Tariff Schedule

| | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|---|----------------------|----------------------|------------------------|---------------------|
| TOTAL | \$933,847,999 | \$735,358,550 | \$1,384,179,757 | 88.2% |
| 30 Pharmaceutical Products | \$22,268,225 | \$19,205,507 | \$595,178,574 | 2999.0% |
| 85 Electric Machinery; Sound Equip.; TV Equip. | \$140,026,947 | \$129,473,176 | \$167,338,758 | 29.2% |
| 84 Industrial Machinery, Including Computers | \$124,479,455 | \$122,027,956 | \$131,847,302 | 8.0% |
| 90 Optic, Photo; Medical Instruments | \$130,354,484 | \$53,998,618 | \$72,781,454 | 34.8% |
| 73 Iron and Steel Products | \$67,007,989 | \$60,484,248 | \$65,387,996 | 8.1% |
| 88 Aircraft; Spacecraft and Parts | \$117,469,109 | \$112,264,315 | \$57,504,565 | -48.8% |
| 39 Plastics and Articles Thereof | \$32,869,753 | \$36,146,703 | \$44,469,793 | 23.0% |
| 29 Organic Chemicals | \$38,019,587 | \$27,990,922 | \$33,534,350 | 19.8% |
| 34 Soap, Waxes, Lubricating Preparations, etc | \$27,742,924 | \$24,068,972 | \$28,449,649 | 18.2% |
| 38 Miscellaneous Chemical Products | \$20,844,033 | \$11,250,789 | \$20,775,714 | 84.7% |
| 87 Vehicles and Parts | \$8,621,762 | \$5,568,677 | \$17,842,550 | 220.4% |
| 32 Tanning, Dye, Paint, Putty | \$18,072,057 | \$16,413,660 | \$14,912,798 | -9.1% |
| 27 Mineral Fuel, Oil, etc | \$32,794,691 | \$6,093,548 | \$14,064,801 | 130.8% |
| 40 Rubber and Articles Thereof | \$3,488,054 | \$8,184,182 | \$11,631,906 | 42.1% |
| 12 Oil Seed, Miscellaneous Grain | \$6,016,743 | \$7,773,520 | \$10,815,557 | 39.1% |
| Multi Remaining commodities | \$143,772,186 | \$94,413,757 | \$97,643,990 | 3.4% |

Nesoi - Not elsewhere specified or indicated



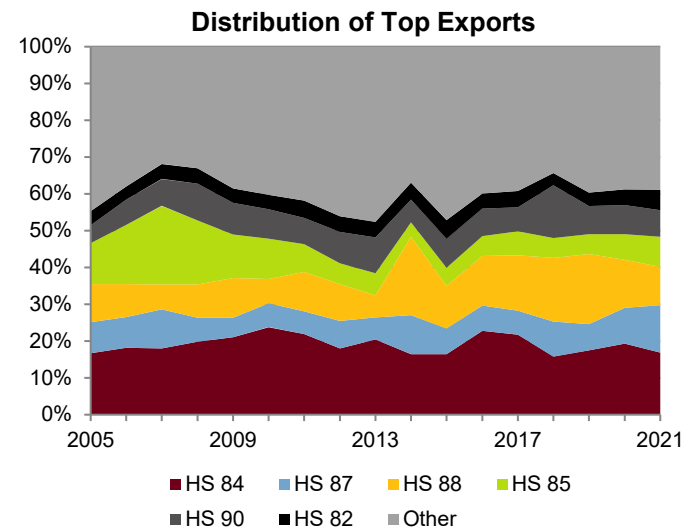
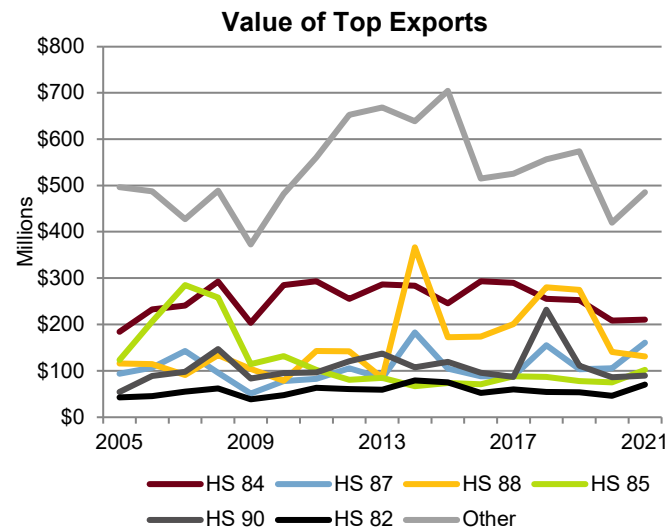
Exports to Germany



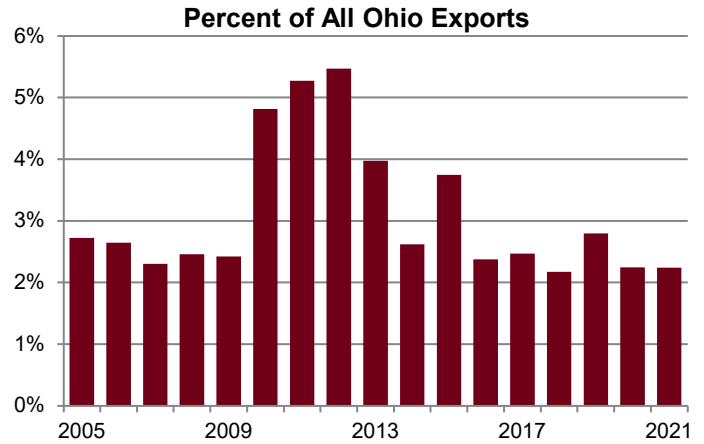
Harmonized
Tariff Schedule

| | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|--|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$1,445,665,213 | \$1,080,490,587 | \$1,248,010,834 | 15.5% |
| 84 Industrial Machinery, Including Computers | \$252,295,207 | \$208,258,143 | \$210,067,752 | 0.9% |
| 87 Vehicles and Parts | \$103,196,631 | \$105,303,714 | \$160,699,266 | 52.6% |
| 88 Aircraft; Spacecraft and Parts | \$274,720,823 | \$140,532,075 | \$130,610,622 | -7.1% |
| 85 Electric Machinery; Sound Equip.; TV Equip. | \$77,733,106 | \$75,169,906 | \$102,069,166 | 35.8% |
| 90 Optic, Photo; Medical Instruments | \$111,107,503 | \$85,820,983 | \$89,512,230 | 4.3% |
| 82 Tools, Implements, Cutlery of Base Metals | \$53,203,235 | \$45,639,267 | \$69,947,489 | 53.3% |
| 29 Organic Chemicals | \$88,768,961 | \$67,330,905 | \$66,812,701 | -0.8% |
| 39 Plastics and Articles Thereof | \$63,223,561 | \$47,626,067 | \$59,314,622 | 24.5% |
| 74 Copper and Articles Thereof | \$39,404,238 | \$31,994,217 | \$36,563,991 | 14.3% |
| 38 Miscellaneous Chemical Products | \$17,971,779 | \$21,767,674 | \$25,540,584 | 17.3% |
| 73 Iron and Steel Products | \$22,351,714 | \$17,508,601 | \$23,328,663 | 33.2% |
| 33 Essential Oils, Perfumery, Cosmetic, etc | \$28,946,575 | \$9,405,878 | \$22,192,280 | 135.9% |
| 30 Pharmaceutical Products | \$27,419,231 | \$42,110,959 | \$18,447,848 | -56.2% |
| 68 Articles of Stone, Plaster, Cement, Asbestos | \$13,000,879 | \$13,446,713 | \$15,741,027 | 17.1% |
| 28 Inorganic Chemicals; Rare-Earths | \$15,041,407 | \$10,093,118 | \$14,061,648 | 39.3% |
| Multi Remaining commodities | \$257,280,363 | \$158,482,367 | \$203,100,945 | 28.2% |

Nesoi - Not elsewhere specified or indicated



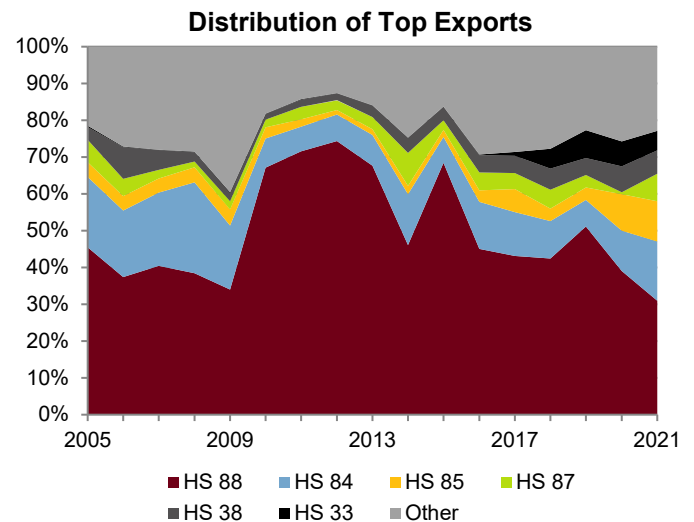
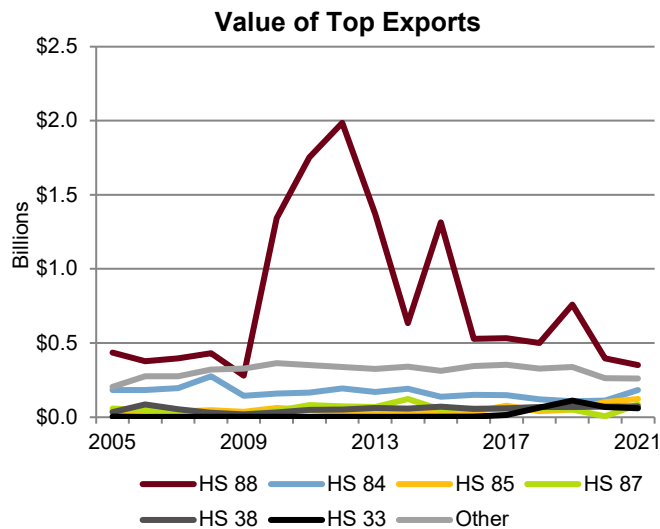
Exports to France



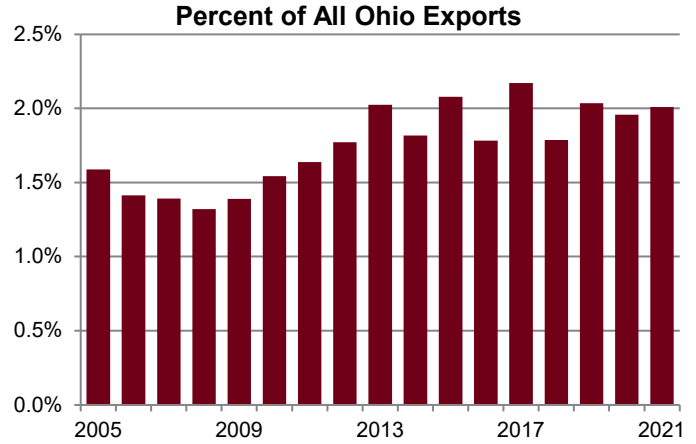
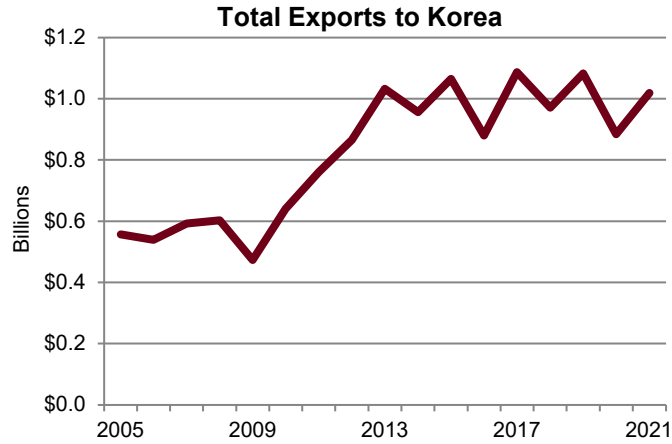
Harmonized
Tariff Schedule

| | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|---|------------------------|------------------------|------------------------|---------------------|
| TOTAL | \$1,487,198,555 | \$1,013,340,259 | \$1,134,430,932 | 11.9% |
| 88 Aircraft; Spacecraft and Parts | \$759,592,672 | \$395,401,949 | \$351,136,435 | -11.2% |
| 84 Industrial Machinery, Including Computers | \$108,012,602 | \$111,002,430 | \$182,943,233 | 64.8% |
| 85 Electric Machinery; Sound Equip.; TV Equip. | \$49,787,699 | \$100,449,531 | \$123,585,441 | 23.0% |
| 87 Vehicles and Parts | \$50,173,059 | \$5,477,615 | \$85,203,491 | 1455.5% |
| 38 Miscellaneous Chemical Products | \$68,585,386 | \$70,800,243 | \$71,516,175 | 1.0% |
| 33 Essential Oils, Perfumery, Cosmetic, etc | \$112,381,487 | \$68,854,665 | \$60,089,749 | -12.7% |
| 90 Optic, Photo; Medical Instruments | \$39,927,805 | \$35,125,597 | \$46,351,870 | 32.0% |
| 39 Plastics and Articles Thereof | \$35,744,595 | \$27,127,587 | \$27,399,511 | 1.0% |
| 81 Base Metals Nesoi; Cermet; Articles Thereof | \$69,402,056 | \$33,883,296 | \$26,696,542 | -21.2% |
| 29 Organic Chemicals | \$14,891,920 | \$12,780,348 | \$19,520,024 | 52.7% |
| 73 Iron and Steel Products | \$11,913,440 | \$10,670,510 | \$15,623,659 | 46.4% |
| 76 Aluminum and Articles Thereof | \$30,266,760 | \$11,803,128 | \$10,090,742 | -14.5% |
| 75 Nickel and Articles Thereof | \$1,695,364 | \$12,050,330 | \$8,058,046 | -33.1% |
| 70 Glass and Glassware | \$12,313,622 | \$17,861,172 | \$7,652,709 | -57.2% |
| 28 Inorganic Chemicals; Rare-Earths | \$6,369,723 | \$7,569,576 | \$5,763,225 | -23.9% |
| Multi Remaining commodities | \$116,140,365 | \$92,482,282 | \$92,800,080 | 0.3% |

Nesoi - Not elsewhere specified or indicated



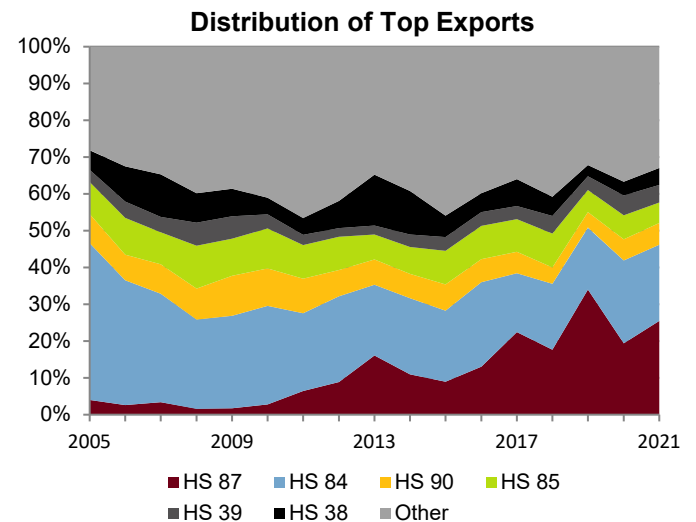
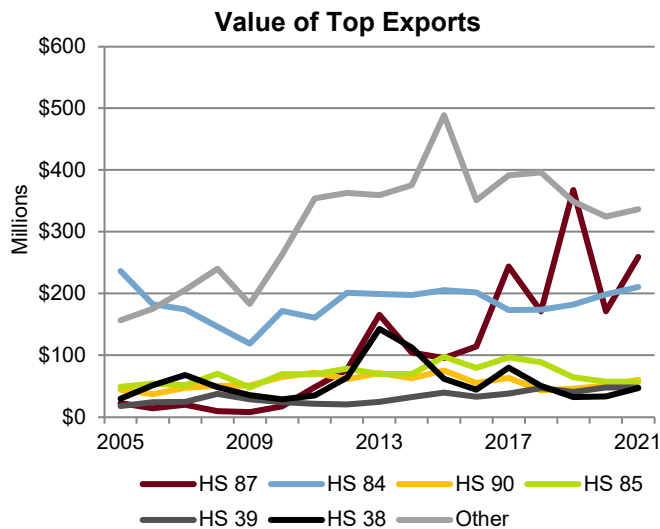
Exports to Korea



Harmonized
Tariff Schedule

| | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|---|------------------------|----------------------|------------------------|---------------------|
| TOTAL | \$1,082,333,959 | \$883,584,251 | \$1,018,768,314 | 15.3% |
| 87 Vehicles and Parts | \$367,877,789 | \$171,067,826 | \$259,242,702 | 51.5% |
| 84 Industrial Machinery, Including Computers | \$181,880,399 | \$198,677,602 | \$210,413,897 | 5.9% |
| 90 Optic, Photo; Medical Instruments | \$45,799,794 | \$51,103,237 | \$60,346,113 | 18.1% |
| 85 Electric Machinery; Sound Equip.; TV Equip. | \$64,664,343 | \$57,229,402 | \$57,207,426 | 0.0% |
| 39 Plastics and Articles Thereof | \$40,878,780 | \$47,907,622 | \$48,220,361 | 0.7% |
| 38 Miscellaneous Chemical Products | \$32,507,208 | \$33,161,372 | \$46,909,700 | 41.5% |
| 70 Glass and Glassware | \$11,096,673 | \$18,255,163 | \$25,903,260 | 41.9% |
| 73 Iron and Steel Products | \$18,001,036 | \$22,190,744 | \$24,133,728 | 8.8% |
| 29 Organic Chemicals | \$18,206,062 | \$18,949,065 | \$21,912,644 | 15.6% |
| 34 Soap, Waxes, Lubricating Preparations, etc | \$22,044,532 | \$25,715,913 | \$19,533,126 | -24.0% |
| 30 Pharmaceutical Products | \$18,215,460 | \$18,683,861 | \$19,489,866 | 4.3% |
| 88 Aircraft; Spacecraft and Parts | \$50,886,183 | \$41,770,400 | \$18,909,446 | -54.7% |
| 2 Meat | \$14,398,135 | \$10,703,220 | \$15,911,145 | 48.7% |
| 32 Tanning, Dye, Paint, Putty | \$14,555,620 | \$9,719,428 | \$14,625,212 | 50.5% |
| 12 Oil Seed, Miscellaneous Grain | \$3,243,380 | \$2,186,843 | \$12,892,605 | 489.6% |
| Multi Remaining commodities | \$178,078,565 | \$156,262,553 | \$163,117,083 | 4.4% |

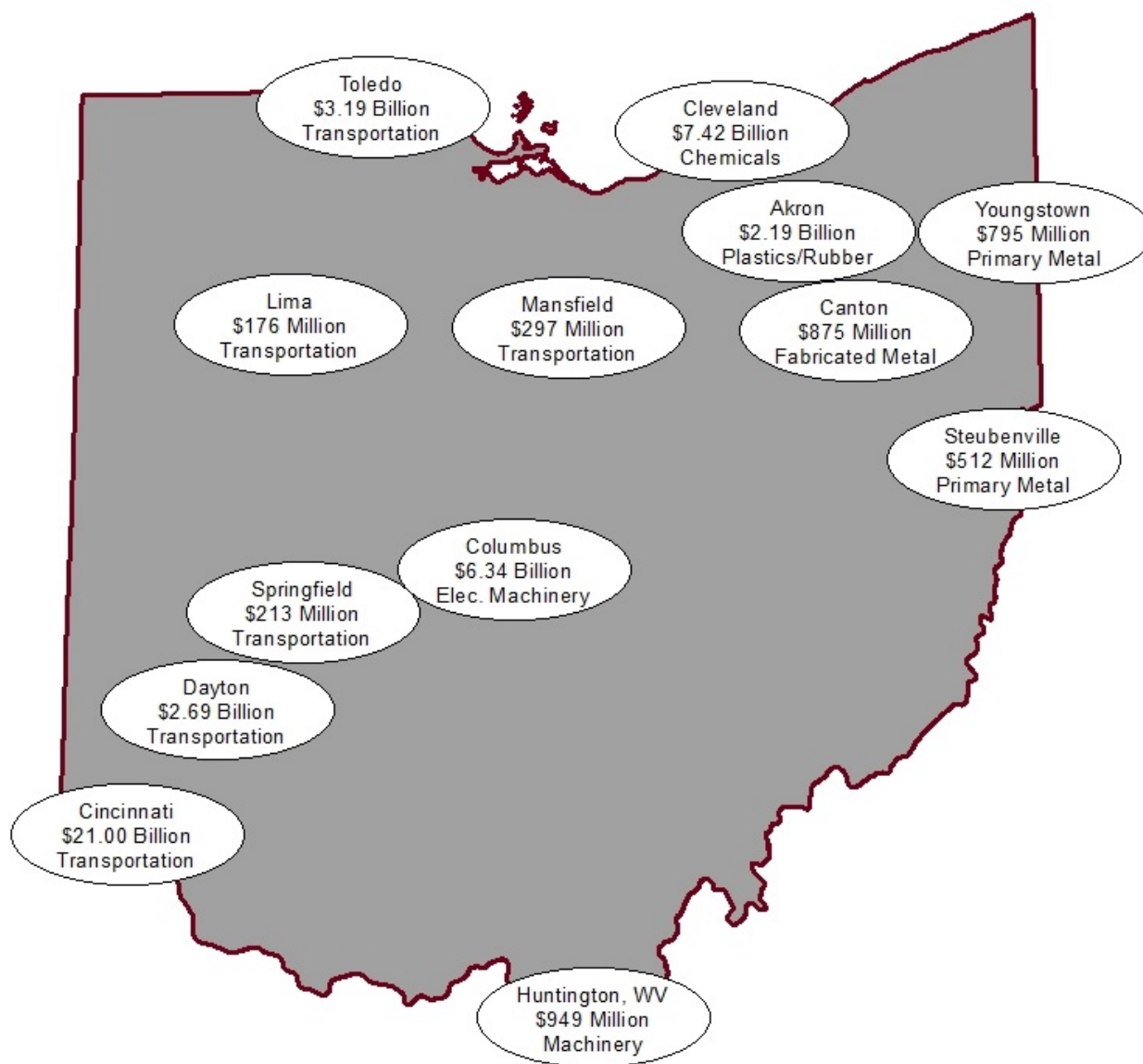
Nesoi - Not elsewhere specified or indicated



Metropolitan Area Exports: 2020



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

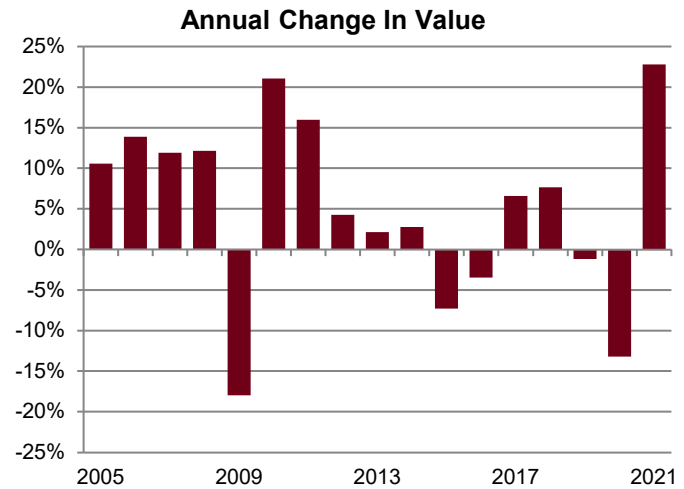


The Cincinnati-Middletown Metropolitan Area had exports of \$21.0 billion in 2020, which led the 13 metropolitan areas in Ohio. This figure represented a 27.0 percent decrease over the previous year. More than 50 percent, \$10.5 billion, of the exports were in the transportation equipment sector with chemicals a distant second at \$3.6 billion.

The Cleveland-Elyria-Mentor Metropolitan Area was second in exports at \$7.4 billion, a decrease of 16 percent since 2019. Chemicals accounted for 17 percent of exports followed closely by fabricated metal products.

Third in exports was the Columbus Metropolitan Area at \$6.3 billion, a decrease of 13.6 percent. Twenty-eight percent of the exports, \$1.8 billion, were in the computers/electric machinery sector. Chemicals accounted for \$979 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.

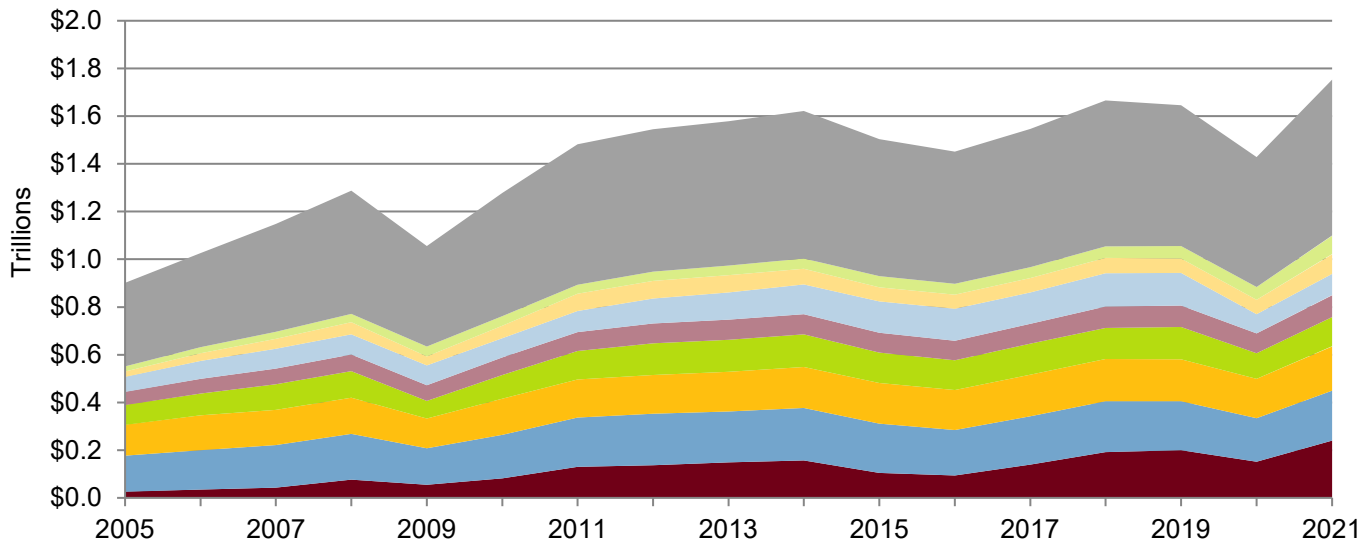


US Top 25 Exported Commodities: 2021

| Harmonized Schedule Code | | 2019 | 2020 | 2021 | % Chng. 20 to 21 |
|------------------------------|---------------------------------------|----------------------------|----------------------------|----------------------------|------------------|
| Total All Commodities | | \$1,645,940,338,649 | \$1,428,518,279,410 | \$1,754,300,367,662 | 22.8% |
| 27 | Mineral Fuel, Oil, etc | \$199,579,032,839 | \$151,385,073,305 | \$240,348,491,463 | 58.8% |
| 84 | Industrial Machinery, Incl. Computers | \$206,120,078,859 | \$182,771,282,496 | \$209,410,339,385 | 14.6% |
| 85 | Electric Machinery; Sound/TV Equip. | \$175,732,488,496 | \$165,082,786,322 | \$185,778,022,195 | 12.5% |
| 87 | Vehicles and Parts | \$134,157,024,433 | \$106,509,592,985 | \$122,827,854,117 | 15.3% |
| 90 | Optic, Photo; Medical Instruments | \$90,831,237,421 | \$83,219,928,684 | \$91,627,570,681 | 10.1% |
| 88 | Aircraft; Spacecraft and Parts | \$136,585,012,598 | \$81,344,483,637 | \$89,518,426,499 | 10.0% |
| 71 | Precious Stones/Metals; Jewelry | \$59,700,341,082 | \$59,821,807,922 | \$82,367,397,545 | 37.7% |
| 30 | Pharmaceutical Products | \$53,154,387,713 | \$53,741,221,865 | \$77,849,065,767 | 44.9% |
| 39 | Plastics and Articles Thereof | \$65,000,576,041 | \$60,206,857,227 | \$74,313,449,402 | 23.4% |
| 29 | Organic Chemicals | \$38,877,863,696 | \$33,585,777,406 | \$43,083,944,423 | 28.3% |
| 38 | Miscellaneous Chemical Products | \$30,637,868,944 | \$31,259,135,307 | \$36,893,595,863 | 18.0% |
| 12 | Oil Seed, Miscellaneous Grain | \$23,906,954,705 | \$30,827,077,932 | \$33,042,607,568 | 7.2% |
| 10 | Cereals | \$16,919,452,633 | \$19,350,314,695 | \$30,352,566,753 | 56.9% |
| 2 | Meat | \$17,662,154,684 | \$18,144,174,790 | \$22,124,261,969 | 21.9% |
| 73 | Iron and Steel Products | \$18,702,606,170 | \$16,024,535,845 | \$19,291,438,603 | 20.4% |
| 72 | Iron and Steel | \$14,347,017,485 | \$12,298,809,443 | \$18,675,763,906 | 51.9% |
| 48 | Paper, Paperboard, etc | \$15,062,094,436 | \$13,793,073,245 | \$15,357,618,010 | 11.3% |
| 8 | Edible Fruit and Nuts | \$15,083,792,889 | \$14,302,646,069 | \$15,061,749,815 | 5.3% |
| 33 | Essential Oils, Cosmetics, etc | \$13,837,086,450 | \$12,344,302,539 | \$13,578,568,252 | 10.0% |
| 28 | Inorganic Chemicals; Rare-Earths | \$11,449,506,654 | \$11,037,333,811 | \$13,499,058,942 | 22.3% |
| 40 | Rubber and Articles Thereof | \$13,226,604,045 | \$11,191,149,495 | \$13,153,623,236 | 17.5% |
| 23 | Food Ind. Residues; Animal Feed | \$10,371,647,921 | \$10,904,882,054 | \$13,119,395,636 | 20.3% |
| 76 | Aluminum and Articles Thereof | \$10,933,822,694 | \$9,381,517,767 | \$12,033,894,954 | 28.3% |
| 21 | Miscellaneous Edible Preparations | \$9,420,416,138 | \$9,304,948,974 | \$10,487,862,122 | 12.7% |
| 74 | Copper and Articles Thereof | \$7,306,117,635 | \$6,456,457,305 | \$10,394,754,624 | 61.0% |
| Multi | Remaining commodities | \$257,335,151,988 | \$224,229,108,290 | \$260,109,045,932 | 16.0% |

Nesoi - Not elsewhere specified or indicated

US Exports
Top 8 Exported Products: 2021



| Harmonized Schedule Code | | 2021 Value | % of All Exports |
|------------------------------|----------------------------------|----------------------------|------------------|
| Total All Commodities | | \$1,754,300,367,662 | |
| 27 | Mineral Fuel, Oil, etc | \$240,348,491,463 | 13.7% |
| 84 | Ind. Machinery, Incl. Computers | \$209,410,339,385 | 11.9% |
| 85 | Elec. Machinery; Sound/TV Equip. | \$185,778,022,195 | 10.6% |
| 87 | Vehicles and Parts | \$122,827,854,117 | 7.0% |
| 90 | Optic, Med. Instruments | \$91,627,570,681 | 5.2% |
| 88 | Aircraft; Spacecraft and Parts | \$89,518,426,499 | 5.1% |
| 71 | Precious Stones/Metals; Jewelry | \$82,367,397,545 | 4.7% |
| 30 | Pharmaceutical Products | \$77,849,065,767 | 4.4% |
| Multi | Remaining commodities | \$654,573,200,010 | 37.3% |

Top 10 Trading Partners - 2021

| | 2021 Value | Pct of Total |
|----------------|---------------------|--------------|
| Total | \$1,645,940,338,649 | |
| Canada | \$292,820,257,565 | 17.8% |
| Mexico | \$256,676,487,323 | 15.6% |
| China | \$106,481,217,316 | 6.5% |
| Japan | \$74,479,657,382 | 4.5% |
| Korea | \$56,504,331,987 | 3.4% |
| Germany | \$60,403,911,977 | 3.7% |
| United Kingdom | \$69,079,944,687 | 4.2% |
| Netherlands | \$50,680,611,888 | 3.1% |
| Brazil | \$42,862,723,730 | 2.6% |
| India | \$34,222,774,808 | 2.1% |
| Others | \$601,728,419,986 | 36.6% |

Top 10 Trading Partners - 2019 to 2021

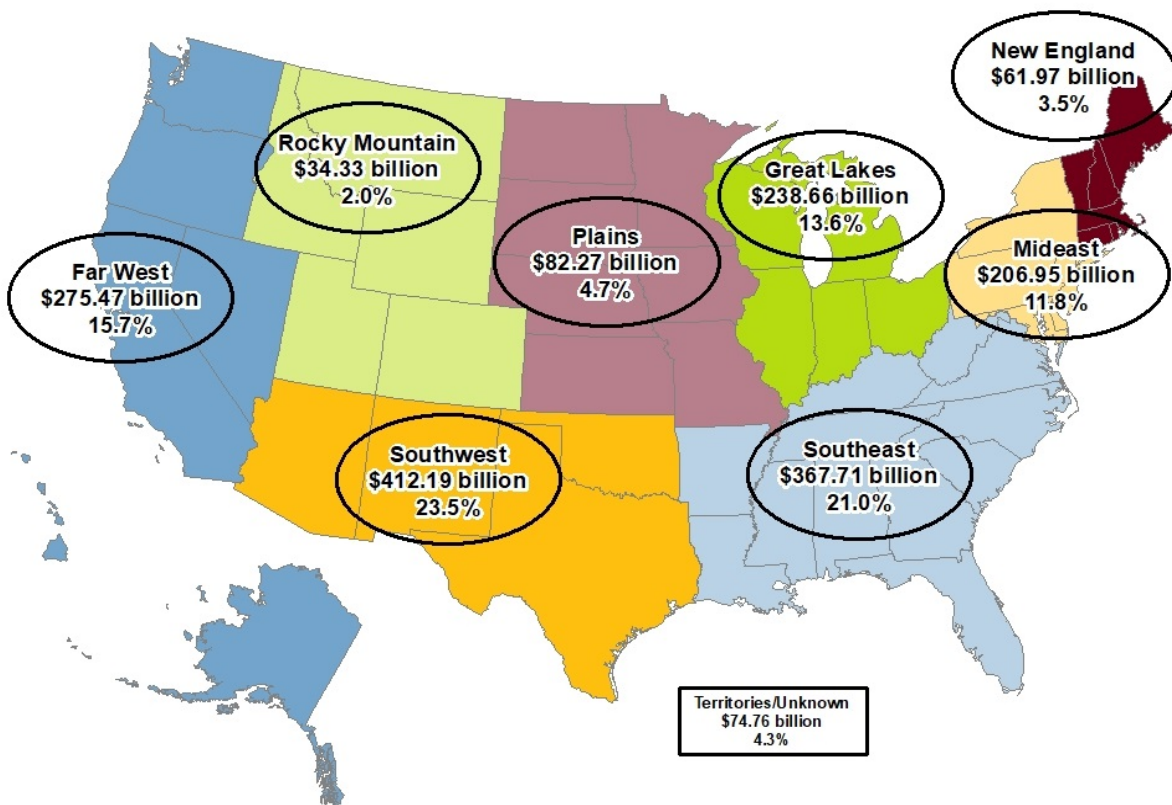
| | 2019 to 2021 Value | Pct of 3-yr Total |
|----------------|---------------------|-------------------|
| Total | \$4,828,758,985,721 | |
| Canada | \$856,790,606,782 | 17.7% |
| Mexico | \$744,608,874,549 | 15.4% |
| China | \$382,467,225,890 | 7.9% |
| Japan | \$213,062,045,401 | 4.4% |
| United Kingdom | \$188,979,268,838 | 3.9% |
| Germany | \$183,738,122,850 | 3.8% |
| Korea | \$173,421,363,760 | 3.6% |
| Netherlands | \$148,501,349,348 | 3.1% |
| Brazil | \$124,378,042,422 | 2.6% |
| India | \$101,353,005,023 | 2.1% |
| Others | \$1,711,459,080,858 | 35.4% |

Regional Exports

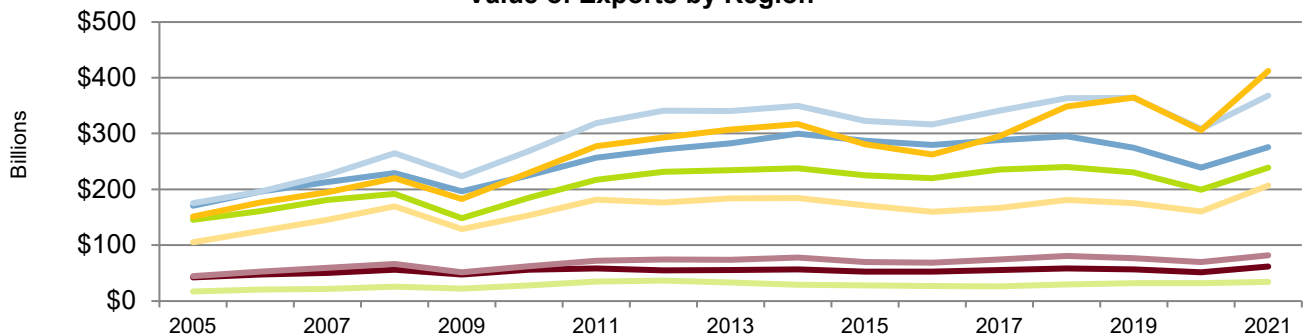


| | 2020 | 2021 | % Share U.S. | % Chng. 20 to 21 | Top Export | % Share Region |
|---------------------|----------------------------|----------------------------|---------------|------------------|-------------------------------|----------------|
| U.S. | \$1,428,518,279,410 | \$1,754,300,367,662 | 100.0% | 22.8% | Mineral Fuel, Oil, etc | 13.7% |
| Far West | \$238,935,979,578 | \$275,473,643,308 | 15.7% | 15.3% | Electric Machinery | 17.2% |
| Great Lakes | \$199,127,767,330 | \$238,661,811,613 | 13.6% | 19.9% | Vehicles and Parts | 18.3% |
| Mideast | \$160,376,595,210 | \$206,945,403,463 | 11.8% | 29.0% | Prec. Stones; Jewelry | 24.6% |
| New England | \$51,238,595,038 | \$61,965,210,309 | 3.5% | 20.9% | Industrial Machinery | 18.2% |
| Plains | \$69,637,968,024 | \$82,265,272,968 | 4.7% | 18.1% | Industrial Machinery | 12.9% |
| Rocky Mountain | \$31,901,958,338 | \$34,334,396,432 | 2.0% | 7.6% | Prec. Stones; Jewelry | 26.2% |
| Southeast | \$308,256,474,274 | \$367,706,280,652 | 21.0% | 19.3% | Mineral Fuel, Oil, etc | 12.7% |
| Southwest | \$305,874,707,998 | \$412,186,620,308 | 23.5% | 34.8% | Mineral Fuel, Oil, etc | 39.9% |
| Territories/Unknown | \$63,168,233,620 | \$74,761,728,609 | 4.3% | 18.4% | --- | --- |

Value and Share of US Exports by Region: 2021



Value of Exports by Region



Exports by State
Value and Top Export



| | 2020 | 2021 | % Share U.S. | % Chng. 20 to 21 | Top Export | % Share State |
|----------------------|----------------------------|----------------------------|-----------------|---------------------|-------------------------------|------------------|
| U.S. | \$1,428,518,279,410 | \$1,754,300,367,662 | 100.0% | 22.8% | Mineral Fuel, Oil, etc | 13.7% |
| Texas | \$276,589,756,187 | \$376,330,591,225 | 21.5% | 36.1% | Mineral Fuel, Oil, etc | 43.4% |
| California | \$155,924,771,378 | \$174,926,665,896 | 10.0% | 12.2% | Industrial Machinery | 16.9% |
| New York | \$65,611,282,817 | \$90,142,157,286 | 5.1% | 37.4% | Prec. Stones; Jewelry | 37.7% |
| Louisiana | \$58,590,369,482 | \$76,364,272,095 | 4.4% | 30.3% | Mineral Fuel, Oil, etc | 45.3% |
| Illinois | \$53,251,948,303 | \$66,027,467,853 | 3.8% | 24.0% | Industrial Machinery | 17.4% |
| Michigan | \$44,709,537,078 | \$55,965,921,369 | 3.2% | 25.2% | Vehicles and Parts | 34.6% |
| Florida | \$45,746,202,578 | \$55,749,056,517 | 3.2% | 21.9% | Electric Machinery | 18.5% |
| Washington | \$41,133,144,811 | \$53,749,196,008 | 3.1% | 30.7% | Aircraft and Parts | 24.8% |
| Ohio | \$45,182,684,455 | \$50,701,551,708 | 2.9% | 12.2% | Industrial Machinery | 16.5% |
| New Jersey | \$37,998,833,543 | \$49,398,222,199 | 2.8% | 30.0% | Prec. Stones; Jewelry | 30.8% |
| Pennsylvania | \$37,408,306,049 | \$44,707,249,699 | 2.5% | 19.5% | Industrial Machinery | 11.5% |
| Georgia | \$38,584,805,287 | \$42,416,380,968 | 2.4% | 9.9% | Aircraft and Parts | 18.2% |
| Indiana | \$35,496,114,599 | \$41,155,726,811 | 2.3% | 15.9% | Vehicles and Parts | 19.8% |
| Tennessee | \$28,167,100,187 | \$34,695,140,081 | 2.0% | 23.2% | Optic, Med. Instruments | 17.9% |
| North Carolina | \$28,465,070,498 | \$33,462,278,048 | 1.9% | 17.6% | Pharmaceutical Products | 19.1% |
| Massachusetts | \$24,900,193,791 | \$32,417,334,186 | 1.8% | 30.2% | Industrial Machinery | 18.9% |
| Oregon | \$26,587,692,994 | \$29,923,107,449 | 1.7% | 12.5% | Electric Machinery | 46.4% |
| South Carolina | \$30,291,262,537 | \$29,655,640,087 | 1.7% | -2.1% | Vehicles and Parts | 42.0% |
| Kentucky | \$24,601,803,394 | \$29,562,530,786 | 1.7% | 20.2% | Aircraft and Parts | 26.7% |
| Wisconsin | \$20,487,482,895 | \$24,811,143,872 | 1.4% | 21.1% | Industrial Machinery | 23.0% |
| Arizona | \$20,201,412,098 | \$24,167,665,597 | 1.4% | 19.6% | Electric Machinery | 29.3% |
| Minnesota | \$20,175,075,219 | \$23,462,699,948 | 1.3% | 16.3% | Industrial Machinery | 17.6% |
| Alabama | \$17,392,250,250 | \$20,932,326,120 | 1.2% | 20.4% | Vehicles and Parts | 40.4% |
| Virginia | \$16,373,268,988 | \$20,035,358,734 | 1.1% | 22.4% | Mineral Fuel, Oil, etc | 17.0% |
| Utah | \$17,688,497,359 | \$18,105,537,166 | 1.0% | 2.4% | Prec. Stones; Jewelry | 47.1% |
| Maryland | \$12,676,402,057 | \$16,418,371,507 | 0.9% | 29.5% | Aircraft and Parts | 18.4% |
| Iowa | \$12,640,112,107 | \$15,755,684,827 | 0.9% | 24.6% | Industrial Machinery | 13.5% |
| Missouri | \$12,867,813,273 | \$15,487,015,260 | 0.9% | 20.4% | Vehicles and Parts | 16.3% |
| Connecticut | \$13,826,895,335 | \$14,541,771,348 | 0.8% | 5.2% | Aircraft and Parts | 31.1% |
| Mississippi | \$10,288,938,474 | \$12,887,995,673 | 0.7% | 25.3% | Mineral Fuel, Oil, etc | 28.7% |
| Kansas | \$10,405,315,895 | \$12,540,570,549 | 0.7% | 20.5% | Aircraft and Parts | 17.1% |
| Nevada | \$10,359,007,369 | \$10,545,989,269 | 0.6% | 1.8% | Electric Machinery | 30.4% |
| Colorado | \$8,174,413,550 | \$9,072,620,747 | 0.5% | 11.0% | Meat | 20.3% |
| Nebraska | \$6,989,490,258 | \$7,965,628,322 | 0.5% | 14.0% | Meat | 26.7% |
| New Hampshire | \$5,456,216,815 | \$6,365,590,589 | 0.4% | 16.7% | Industrial Machinery | 23.6% |
| West Virginia | \$4,562,407,633 | \$6,341,081,354 | 0.4% | 39.0% | Mineral Fuel, Oil, etc | 42.7% |
| Oklahoma | \$5,395,544,897 | \$6,227,528,420 | 0.4% | 15.4% | Industrial Machinery | 27.9% |
| Alaska | \$4,611,480,333 | \$5,988,929,156 | 0.3% | 29.9% | Ores, Slag, Ash | 35.5% |
| Arkansas | \$5,192,994,966 | \$5,604,220,189 | 0.3% | 7.9% | Aircraft and Parts | 15.9% |
| New Mexico | \$3,687,994,816 | \$5,460,835,066 | 0.3% | 48.1% | Electric Machinery | 37.9% |
| North Dakota | \$5,170,829,490 | \$5,195,813,335 | 0.3% | 0.5% | Mineral Fuel, Oil, etc | 48.2% |
| Delaware | \$3,911,636,095 | \$4,744,774,350 | 0.3% | 21.3% | Plastics | 13.6% |
| Idaho | \$3,407,043,547 | \$3,752,419,608 | 0.2% | 10.1% | Electric Machinery | 18.5% |
| Maine | \$2,339,476,910 | \$3,105,221,687 | 0.2% | 32.7% | Fish & Crustaceans | 21.0% |
| Rhode Island | \$2,357,707,290 | \$2,950,118,572 | 0.2% | 25.1% | Prec. Stones; Jewelry | 37.7% |
| Vermont | \$2,358,104,897 | \$2,585,173,927 | 0.1% | 9.6% | Electric Machinery | 50.8% |
| Montana | \$1,467,549,622 | \$1,975,476,522 | 0.1% | 34.6% | Mineral Fuel, Oil, etc | 16.5% |
| South Dakota | \$1,389,331,782 | \$1,857,860,727 | 0.1% | 33.7% | Meat | 19.9% |
| District Of Columbia | \$2,770,134,649 | \$1,534,628,422 | 0.1% | -44.6% | Aircraft and Parts | 36.4% |
| Wyoming | \$1,164,454,260 | \$1,428,342,389 | 0.1% | 22.7% | Inorg. Chem.; Rare-Earths | 67.7% |
| Hawaii | \$319,882,693 | \$339,755,530 | 0.0% | 6.2% | Iron and Steel | 16.7% |
| Territory/Unknown | \$63,168,233,620 | \$74,761,728,609 | 4.3% | 18.4% | --- | --- |

Ohio's Top Twenty Exports: 2021

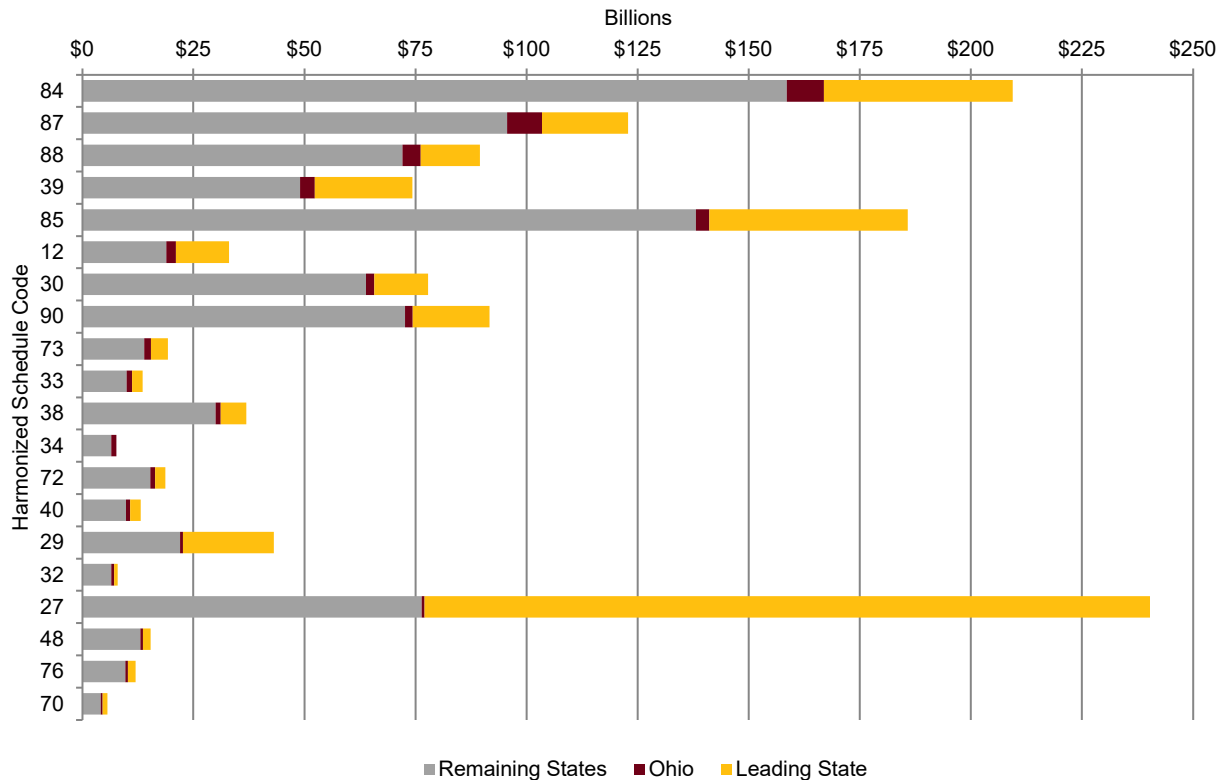
State Rank and Share of U.S. Exports



| 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 | 5th | 4.0% | Texas | 20.3% |
| 87 | Vehicles and Parts | 7th | 6.4% | Michigan | 15.8% |
| 88 | Aircraft; Spacecraft and Parts | 8th | 4.6% | Washington | 14.9% |
| 39 | Plastics and Articles Thereof | 3rd | 4.4% | Texas | 29.6% |
| 85 | Electric Machinery; Sound Equip.; TV Equip. | 15th | 1.6% | Texas | 24.0% |
| 12 | Oil Seed, Miscellaneous Grain | 3rd | 6.6% | Louisiana | 36.2% |
| 30 | Pharmaceutical Products | 13th | 2.4% | Puerto Rico | 15.6% |
| 90 | Optic, Photo; Medical Instruments | 16th | 1.8% | California | 18.9% |
| 73 | Iron and Steel Products | 4th | 7.7% | Texas | 19.9% |
| 33 | Essential Oils, Perfumery, Cosmetic, etc | 5th | 8.9% | New Jersey | 17.4% |
| 38 | Miscellaneous Chemical Products | 10th | 3.1% | Texas | 15.5% |
| 34 | Soap, Waxes, Lubricating Preparations, etc | 1st | 14.9% | Ohio | 14.9% |
| 72 | Iron and Steel | 5th | 5.8% | California | 12.3% |
| 40 | Rubber and Articles Thereof | 4th | 6.8% | Texas | 18.2% |
| 29 | Organic Chemicals | 11th | 1.6% | Texas | 47.4% |
| 32 | Tanning, Dye, Paint, Putty | 2nd | 8.3% | Mississippi | 9.7% |
| 27 | Mineral Fuel, Oil, etc | 20th | 0.3% | Texas | 67.9% |
| 48 | Paper, Paperboard, Articles of Paper Pulp | 11th | 3.5% | Georgia | 11.2% |
| 76 | Aluminum and Articles Thereof | 5th | 4.4% | California | 14.9% |
| 70 | Glass and Glassware | 2nd | 8.7% | Michigan | 18.2% |

Nesoi - Not elsewhere specified or indicated

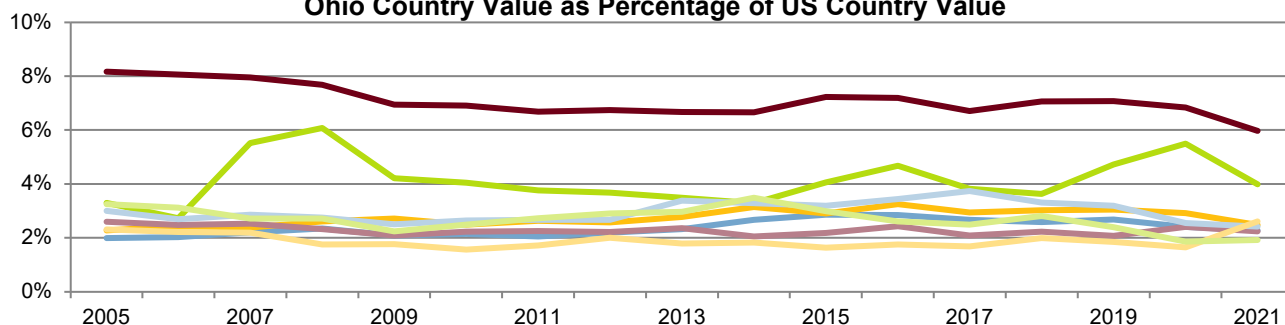
U.S. Distribution of Ohio's Top Twenty Exports



Ohio's Top 8 Destinations: 2021

| Destination | Value of Ohio Exports (billions) | % of Ohio Exports | % Chng 20 to 21 | US Rank | Value of US Exports (billions) | % of US Exports | % Chng 20 to 21 |
|-----------------------|----------------------------------|-------------------|-----------------|---------|--------------------------------|-----------------|-----------------|
| Total Exports | \$50.70 | 100.0% | 12.2% | | \$1,754.30 | 100.0% | 22.8% |
| Canada | \$18.38 | 36.2% | 5.0% | 1st | \$307.76 | 17.5% | 20.1% |
| Mexico | \$6.29 | 12.4% | 24.1% | 2nd | \$276.49 | 15.8% | 30.8% |
| China | \$3.75 | 7.4% | 3.4% | 3rd | \$151.44 | 8.6% | 21.6% |
| Brazil | \$1.87 | 3.7% | -1.7% | 9th | \$46.93 | 2.7% | 35.7% |
| Japan | \$1.67 | 3.3% | 8.2% | 4th | \$74.56 | 4.3% | 16.5% |
| United Kingdom | \$1.48 | 2.9% | -0.2% | 7th | \$61.43 | 3.5% | 5.0% |
| Netherlands | \$1.38 | 2.7% | 88.2% | 8th | \$53.08 | 3.0% | 18.6% |
| Germany | \$1.25 | 2.5% | 15.5% | 6th | \$65.33 | 3.7% | 12.6% |
| Remainder | \$14.64 | 28.9% | 19.6% | | \$717.27 | 40.9% | 24.4% |

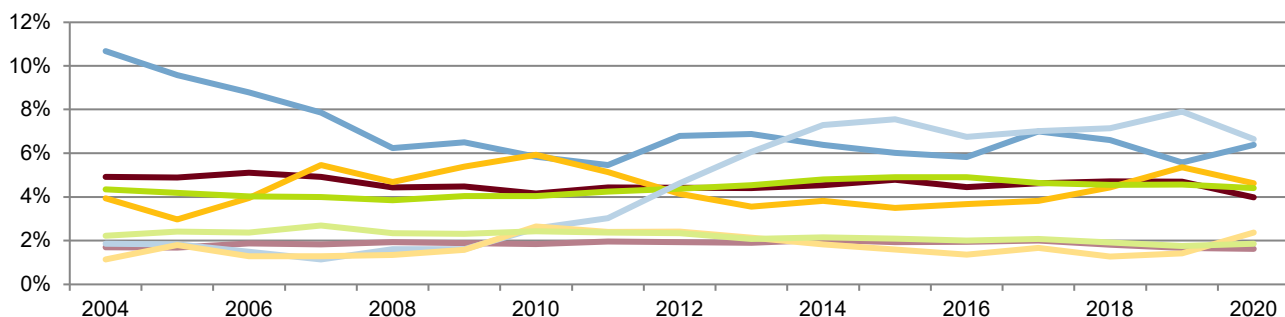
Ohio Country Value as Percentage of US Country Value



Ohio's Top 8 Exported Products: 2021

| Harmonized Schedule Code | Commodity | Value of Ohio Exports (billions) | % of Ohio Exports | % Chng 20 to 21 | US Rank | Value of US Exports (billions) | % of US Exports | % Chng 20 to 21 |
|--------------------------|-------------------------|----------------------------------|-------------------|-----------------|---------|--------------------------------|-----------------|-----------------|
| | Total Exports | \$50.70 | 100.0% | 12.2% | | \$1,754.30 | 100.0% | 22.8% |
| 84 | Industrial Machinery | \$8.34 | 16.5% | -2.7% | 2nd | \$209.41 | 11.9% | 14.6% |
| 87 | Vehicles and Parts | \$7.83 | 15.5% | 31.9% | 4th | \$122.83 | 7.0% | 15.3% |
| 88 | Aircraft and Parts | \$4.14 | 8.2% | -5.1% | 6th | \$89.52 | 5.1% | 10.0% |
| 39 | Plastics | \$3.27 | 6.5% | 19.1% | 9th | \$74.31 | 4.2% | 23.4% |
| 85 | Electric Machinery | \$3.03 | 6.0% | 10.0% | 3rd | \$185.78 | 10.6% | 12.5% |
| 12 | Oil Seed, Misc. Grain | \$2.20 | 4.3% | -10.0% | 13th | \$33.04 | 1.9% | 7.2% |
| 30 | Pharmaceutical Products | \$1.84 | 3.6% | 142.3% | 8th | \$77.85 | 4.4% | 44.9% |
| 90 | Optic, Med. Instruments | \$1.69 | 3.3% | 15.9% | 5th | \$91.63 | 5.2% | 10.1% |
| Multi | Remaining commodities | \$18.35 | 36.2% | 13.7% | | \$869.93 | 49.6% | 30.9% |

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 | | |
|----------------------------|--------------------|---------------------|-------------------|----------------------------|-----------------------|-----------------------|-------------------|
| | 2021 | Total 2019-21 | Change 2020-21 | | 2021 | Total 2019-21 | Change 2020-21 |
| Total | \$50,701.55 | \$149,108.83 | 12.2% | 2.9% | \$1,754,300.37 | \$4,828,758.99 | 22.8% |
| Afghanistan | \$1.76 | \$16.59 | -80.0% | 0.7% | \$235.67 | \$1,664.55 | -64.9% |
| Albania | \$0.98 | \$2.26 | 15.9% | 1.0% | \$96.31 | \$239.66 | 68.7% |
| Algeria | \$34.06 | \$55.77 | 122.8% | 4.3% | \$783.93 | \$2,519.22 | 6.7% |
| Andorra | \$0.00 | \$0.16 | -100.0% | 0.0% | \$4.69 | \$11.72 | 27.3% |
| Angola | \$10.29 | \$23.61 | 603.5% | 2.3% | \$445.47 | \$1,450.12 | -5.2% |
| Anguilla | \$0.36 | \$1.33 | 104.5% | 0.5% | \$79.70 | \$200.51 | 69.4% |
| Antigua And Barbuda | \$0.71 | \$1.80 | 150.2% | 0.1% | \$570.49 | \$1,351.01 | 96.1% |
| Argentina | \$156.09 | \$430.47 | 17.3% | 2.0% | \$7,762.22 | \$21,793.13 | 31.4% |
| Armenia | \$1.66 | \$2.14 | 341.2% | 3.7% | \$44.55 | \$125.38 | 59.5% |
| Aruba | \$5.22 | \$16.44 | 9.5% | 1.0% | \$542.88 | \$1,411.60 | 75.9% |
| Australia | \$825.65 | \$2,129.90 | 20.5% | 3.1% | \$26,453.92 | \$75,694.47 | 13.2% |
| Austria | \$60.42 | \$151.54 | 29.6% | 1.5% | \$3,935.28 | \$13,073.72 | 14.7% |
| Azerbaijan | \$2.22 | \$4.51 | 73.5% | 1.7% | \$131.66 | \$667.95 | -18.7% |
| Bahamas | \$11.12 | \$38.68 | 1.1% | 0.4% | \$2,898.95 | \$9,061.35 | 3.4% |
| Bahrain | \$30.06 | \$108.80 | -18.7% | 3.2% | \$934.11 | \$3,225.53 | 5.6% |
| Bangladesh | \$91.72 | \$380.47 | -33.2% | 3.9% | \$2,350.51 | \$6,541.57 | 26.9% |
| Barbados | \$5.89 | \$18.24 | -4.1% | 0.8% | \$753.65 | \$1,826.18 | 49.3% |
| Belarus | \$2.60 | \$6.07 | 70.2% | 1.2% | \$218.02 | \$464.83 | 79.1% |
| Belgium | \$896.50 | \$2,065.50 | 60.6% | 2.7% | \$33,720.95 | \$96,026.10 | 22.3% |
| Belize | \$3.42 | \$11.88 | -8.8% | 0.8% | \$412.20 | \$1,213.12 | 4.3% |
| Benin | \$2.49 | \$8.42 | -17.2% | 0.9% | \$292.30 | \$755.48 | 48.6% |
| Bermuda | \$3.15 | \$12.00 | -38.0% | 0.6% | \$551.43 | \$1,589.05 | 20.1% |
| Bhutan | \$0.29 | \$0.34 | 655.8% | 4.8% | \$5.92 | \$11.61 | 107.2% |
| Bolivia | \$5.49 | \$16.89 | 17.3% | 1.0% | \$552.21 | \$1,551.50 | 23.5% |
| Bosnia And Herzegovina | \$0.16 | \$3.75 | -70.2% | 0.3% | \$51.69 | \$133.61 | 139.2% |
| Botswana | \$0.16 | \$0.73 | -38.9% | 0.3% | \$52.88 | \$206.03 | 8.7% |
| Brazil | \$1,867.08 | \$5,787.26 | -1.7% | 4.0% | \$46,934.96 | \$124,378.04 | 35.7% |
| British Indian Ocean Terr. | \$0.25 | \$0.84 | 55.4% | 4.1% | \$6.08 | \$36.39 | -16.7% |
| British Virgin Islands | \$0.84 | \$2.64 | 74.5% | 0.3% | \$273.13 | \$1,137.24 | -3.7% |
| Brunei | \$2.04 | \$14.62 | -72.8% | 2.0% | \$100.39 | \$534.68 | -31.4% |
| Bulgaria | \$7.91 | \$19.86 | 6.8% | 2.3% | \$339.01 | \$1,176.54 | -9.6% |
| Burkina Faso | \$0.54 | \$2.65 | -24.3% | 0.6% | \$96.61 | \$234.82 | 34.3% |
| Burma (Myanmar) | \$0.66 | \$5.23 | -70.3% | 0.3% | \$213.35 | \$899.65 | -37.1% |
| Burundi | \$0.15 | \$0.32 | -7.1% | 3.3% | \$4.45 | \$12.31 | -17.7% |
| Cabo Verde | \$0.00 | \$0.00 | n.a. | 0.0% | \$12.59 | \$27.69 | 81.9% |
| Cambodia | \$17.79 | \$32.73 | 66.8% | 4.3% | \$415.56 | \$1,273.57 | 20.8% |
| Cameroon | \$2.17 | \$5.90 | 5.3% | 1.5% | \$148.75 | \$536.18 | -20.6% |
| Canada | \$18,375.36 | \$56,581.19 | 5.0% | 6.0% | \$307,758.09 | \$856,790.61 | 20.1% |
| Cayman Islands | \$5.95 | \$19.77 | -9.6% | 0.5% | \$1,166.91 | \$3,044.21 | 55.1% |
| Central African Republic | \$0.08 | \$0.52 | -75.0% | 0.5% | \$17.37 | \$50.17 | 9.8% |
| Chad | \$0.03 | \$0.38 | -61.9% | 0.1% | \$41.78 | \$172.53 | -9.4% |
| Chile | \$211.84 | \$589.97 | 35.6% | 1.2% | \$17,338.20 | \$45,518.58 | 39.1% |
| China | \$3,748.13 | \$10,612.21 | 3.4% | 2.5% | \$151,442.17 | \$382,467.23 | 21.6% |
| Christmas Island | \$0.07 | \$0.12 | 68.8% | 10.0% | \$0.73 | \$4.30 | -63.2% |
| Cocos Islands | \$0.04 | \$0.04 | n.a. | 7.4% | \$0.51 | \$0.71 | 321.0% |

continued

Ohio and U.S. Exports by Country

Value in Millions

| | Ohio | | | Ohio's Share of U.S. | US | | |
|---------------------------------|------------|------------------|-------------------|----------------------------|-------------|------------------|-------------------|
| | 2021 | Total 2019-21 | Change 2020-21 | | 2021 | Total 2019-21 | Change 2020-21 |
| Colombia | \$161.45 | \$475.83 | 21.7% | 1.0% | \$16,686.50 | \$43,378.73 | 39.9% |
| Comoros | \$0.00 | \$0.01 | n.a. | 0.0% | \$1.80 | \$4.73 | 27.9% |
| Congo, Democratic Repub. of the | \$0.67 | \$2.80 | -56.4% | 0.3% | \$213.15 | \$497.02 | 40.3% |
| Congo, Republic Of The | \$0.87 | \$1.21 | 341.9% | 0.8% | \$113.60 | \$321.60 | 14.6% |
| Cook Islands | \$0.00 | \$0.01 | -100.0% | 0.0% | \$4.19 | \$18.09 | 28.8% |
| Costa Rica | \$107.27 | \$267.10 | 28.0% | 1.5% | \$7,344.94 | \$19,237.42 | 29.5% |
| Croatia | \$2.31 | \$10.13 | -40.7% | 0.3% | \$751.26 | \$1,778.38 | 137.5% |
| Cuba | \$0.21 | \$0.21 | n.a. | 0.1% | \$326.99 | \$790.14 | 85.1% |
| Curacao | \$3.25 | \$8.78 | 35.3% | 0.9% | \$342.32 | \$1,102.24 | -2.2% |
| Cyprus | \$4.27 | \$11.01 | 17.3% | 1.7% | \$246.84 | \$554.21 | 139.7% |
| Czech Republic | \$53.04 | \$163.64 | 5.8% | 1.4% | \$3,660.96 | \$9,424.27 | 23.2% |
| Denmark | \$60.85 | \$151.84 | 19.2% | 1.7% | \$3,543.82 | \$9,680.61 | 20.5% |
| Djibouti | \$0.32 | \$1.25 | -7.4% | 0.2% | \$186.61 | \$521.06 | 1.2% |
| Dominica | \$0.45 | \$1.10 | 98.0% | 0.1% | \$373.06 | \$716.46 | 270.2% |
| Dominican Republic | \$105.45 | \$273.14 | 34.0% | 1.0% | \$10,673.21 | \$27,381.65 | 42.3% |
| East Timor | \$0.14 | \$3.29 | -84.9% | 1.2% | \$11.12 | \$25.20 | 19.8% |
| Ecuador | \$35.18 | \$99.76 | 35.6% | 0.7% | \$5,009.32 | \$14,717.34 | 21.2% |
| Egypt | \$367.41 | \$1,080.33 | -15.5% | 6.3% | \$5,848.89 | \$16,052.17 | 24.3% |
| El Salvador | \$29.23 | \$91.90 | 8.1% | 0.7% | \$4,115.61 | \$10,065.59 | 59.3% |
| Equatorial Guinea | \$0.22 | \$0.39 | 4027.3% | 0.4% | \$51.49 | \$359.05 | -45.0% |
| Eritrea | \$0.01 | \$0.02 | 21.0% | 0.0% | \$26.74 | \$59.73 | 43.2% |
| Estonia | \$11.52 | \$32.15 | 39.6% | 2.6% | \$449.79 | \$1,205.52 | 30.3% |
| Ethiopia | \$51.43 | \$134.98 | 20.2% | 8.9% | \$575.13 | \$2,496.94 | -36.9% |
| Falkland Islands | \$0.00 | \$0.00 | n.a. | 0.0% | \$0.34 | \$0.96 | 9.9% |
| Faroe Islands | \$0.01 | \$0.06 | -58.2% | 0.4% | \$3.04 | \$9.00 | 8.8% |
| Federated States Of Micronesia | \$0.08 | \$0.83 | -61.2% | 0.2% | \$49.42 | \$152.52 | -14.5% |
| Fiji | \$0.52 | \$2.42 | 20.0% | 0.3% | \$180.49 | \$322.91 | 356.9% |
| Finland | \$69.83 | \$197.97 | 52.2% | 4.0% | \$1,727.34 | \$5,091.13 | 8.3% |
| Fr.Sthern.,Antarctic Lands | \$0.07 | \$0.07 | n.a. | 2.8% | \$2.59 | \$10.28 | 193.4% |
| France | \$1,134.43 | \$3,634.97 | 11.9% | 3.8% | \$29,893.29 | \$94,842.80 | 9.6% |
| French Guiana | \$0.10 | \$1.75 | 220.2% | 0.1% | \$190.90 | \$1,005.71 | -60.4% |
| French Polynesia | \$2.49 | \$8.33 | -22.4% | 1.9% | \$129.01 | \$906.41 | 2.0% |
| Gabon | \$1.12 | \$4.60 | -38.7% | 0.9% | \$129.29 | \$350.97 | 40.0% |
| Gambia | \$1.16 | \$2.87 | 29.3% | 2.2% | \$53.61 | \$140.06 | 29.2% |
| Gaza Strip Admin By Israel | \$0.00 | \$0.01 | -100.0% | 0.0% | \$0.18 | \$0.51 | -29.3% |
| Georgia | \$26.31 | \$29.01 | 2407.2% | 4.0% | \$656.55 | \$1,861.18 | 50.6% |
| Germany | \$1,248.01 | \$3,774.17 | 15.5% | 1.9% | \$65,332.52 | \$183,738.12 | 12.6% |
| Ghana | \$28.48 | \$71.68 | 22.5% | 3.0% | \$957.44 | \$2,626.39 | 15.5% |
| Gibraltar | \$11.07 | \$23.42 | 114.3% | 1.4% | \$775.23 | \$2,862.25 | -6.4% |
| Greece | \$20.92 | \$49.82 | 50.6% | 1.3% | \$1,556.21 | \$4,401.37 | 10.9% |
| Greenland | \$0.15 | \$0.22 | 172.9% | 1.1% | \$13.13 | \$38.63 | 89.2% |
| Grenada | \$4.83 | \$11.59 | 64.3% | 3.9% | \$124.56 | \$342.47 | 25.9% |
| Guadeloupe | \$0.15 | \$0.64 | -34.7% | 0.1% | \$272.20 | \$722.04 | 11.7% |
| Guatemala | \$103.19 | \$292.42 | 21.8% | 1.3% | \$8,070.17 | \$20,716.99 | 38.1% |
| Guinea | \$4.94 | \$10.85 | 48.6% | 3.3% | \$151.62 | \$415.13 | 11.9% |
| Guinea-Bissau | \$0.02 | \$0.06 | -44.7% | 0.6% | \$3.33 | \$8.24 | -9.1% |

continued

Ohio and U.S. Exports by Country

Value in Millions

| | Ohio | | | Ohio's Share of U.S. | US | | |
|----------------------------|------------|------------------|-------------------|----------------------------|-------------|------------------|-------------------|
| | 2021 | Total 2019-21 | Change 2020-21 | | 2021 | Total 2019-21 | Change 2020-21 |
| Guyana | \$12.40 | \$30.95 | 59.3% | 1.2% | \$1,012.35 | \$2,338.88 | 54.7% |
| Haiti | \$29.54 | \$84.02 | 23.3% | 2.2% | \$1,322.43 | \$3,982.64 | -5.4% |
| Heard And Mcdonald Islands | \$0.00 | \$0.00 | n.a. | 0.0% | \$0.14 | \$0.43 | -20.2% |
| Honduras | \$52.10 | \$139.35 | 23.3% | 0.8% | \$6,392.90 | \$16,004.22 | 52.5% |
| Hong Kong | \$278.58 | \$882.43 | 4.2% | 0.9% | \$29,894.02 | \$84,531.42 | 25.4% |
| Hungary | \$111.03 | \$301.51 | 58.8% | 3.8% | \$2,908.27 | \$6,934.26 | 37.7% |
| Iceland | \$16.96 | \$30.21 | 306.7% | 2.7% | \$628.87 | \$1,476.36 | 115.0% |
| India | \$555.83 | \$1,535.39 | 29.7% | 1.4% | \$40,052.17 | \$101,353.01 | 47.9% |
| Indonesia | \$350.36 | \$824.09 | 28.8% | 3.7% | \$9,378.76 | \$24,488.99 | 27.1% |
| Iran | \$0.00 | \$3.41 | -100.0% | 0.0% | \$39.33 | \$152.36 | 8.2% |
| Iraq | \$11.33 | \$35.19 | 24.5% | 1.4% | \$802.68 | \$2,761.69 | 4.3% |
| Ireland | \$111.77 | \$340.57 | -2.3% | 0.8% | \$13,784.56 | \$34,249.29 | 29.2% |
| Israel | \$238.22 | \$636.57 | 32.5% | 1.9% | \$12,861.94 | \$40,423.31 | 14.6% |
| Italy | \$531.99 | \$1,675.69 | -2.4% | 2.5% | \$21,660.53 | \$65,256.00 | 8.8% |
| Ivory Coast | \$2.25 | \$9.62 | 75.2% | 0.6% | \$359.40 | \$856.69 | 64.3% |
| Jamaica | \$26.31 | \$90.28 | -3.3% | 1.3% | \$1,975.39 | \$6,117.70 | 18.9% |
| Japan | \$1,666.13 | \$4,748.76 | 8.2% | 2.2% | \$74,564.69 | \$213,062.05 | 16.5% |
| Jordan | \$22.54 | \$51.08 | 70.3% | 1.9% | \$1,203.19 | \$4,013.75 | -8.7% |
| Kazakhstan | \$7.27 | \$19.16 | 61.5% | 0.9% | \$807.81 | \$2,057.47 | 58.6% |
| Kenya | \$6.00 | \$16.60 | 48.4% | 1.1% | \$561.64 | \$1,334.85 | 50.9% |
| Kiribati | \$0.00 | \$0.00 | n.a. | 0.2% | \$1.94 | \$5.84 | 13.0% |
| Korea, Republic Of | \$1,018.77 | \$2,984.69 | 15.3% | 1.5% | \$65,942.40 | \$173,421.36 | 29.4% |
| Kosovo | \$0.02 | \$0.05 | 27.8% | 0.1% | \$31.35 | \$80.71 | -5.8% |
| Kuwait | \$282.33 | \$551.53 | 237.9% | 9.3% | \$3,037.95 | \$8,414.48 | 37.7% |
| Kyrgyzstan | \$0.47 | \$0.91 | 9.1% | 1.4% | \$34.07 | \$87.38 | 4.9% |
| Laos | \$0.20 | \$0.56 | 29.3% | 0.6% | \$33.49 | \$75.12 | 36.4% |
| Latvia | \$3.37 | \$14.40 | -23.0% | 0.8% | \$413.24 | \$1,271.42 | 35.0% |
| Lebanon | \$5.33 | \$30.76 | -52.5% | 0.8% | \$664.78 | \$2,346.49 | -1.9% |
| Lesotho | \$0.05 | \$0.11 | 82.6% | 1.6% | \$3.24 | \$6.65 | 48.0% |
| Liberia | \$0.83 | \$2.48 | 31.0% | 0.6% | \$139.60 | \$346.65 | 49.8% |
| Libya | \$5.03 | \$8.16 | 259.5% | 1.7% | \$295.29 | \$997.32 | 1.8% |
| Liechtenstein | \$2.56 | \$9.01 | -11.1% | 5.6% | \$45.48 | \$103.57 | 13.5% |
| Lithuania | \$48.32 | \$104.26 | 94.3% | 3.9% | \$1,237.28 | \$3,191.94 | 21.2% |
| Luxembourg | \$19.61 | \$94.18 | -2.8% | 1.3% | \$1,531.48 | \$4,805.28 | 13.3% |
| Macau | \$1.75 | \$18.82 | -47.5% | 0.8% | \$219.56 | \$974.65 | 19.9% |
| Macedonia | \$3.58 | \$11.10 | -0.7% | 7.9% | \$45.48 | \$127.87 | 4.0% |
| Madagascar | \$1.13 | \$3.75 | 2.4% | 2.0% | \$56.22 | \$158.88 | 56.3% |
| Malawi | \$0.59 | \$0.71 | 440.7% | 2.5% | \$23.32 | \$59.30 | 77.0% |
| Malaysia | \$432.67 | \$1,123.17 | 29.9% | 2.9% | \$15,174.24 | \$40,664.03 | 23.4% |
| Maldives | \$0.50 | \$1.03 | 90.1% | 1.2% | \$41.28 | \$105.34 | 67.3% |
| Mali | \$0.57 | \$1.43 | -6.2% | 0.6% | \$98.59 | \$263.42 | 1.9% |
| Malta | \$1.44 | \$6.57 | -39.2% | 1.1% | \$130.09 | \$411.49 | -5.8% |
| Marshall Islands | \$0.01 | \$0.17 | -86.1% | 0.0% | \$237.85 | \$462.79 | 98.6% |
| Martinique | \$0.30 | \$1.00 | 57.4% | 0.2% | \$162.50 | \$412.69 | 38.0% |
| Mauritania | \$3.22 | \$7.15 | 46.7% | 2.4% | \$131.59 | \$350.33 | 2.8% |
| Mauritius | \$1.45 | \$3.96 | 1.9% | 1.8% | \$78.38 | \$231.48 | 58.0% |

continued

Ohio and U.S. Exports by Country

Value in Millions

| | Ohio | | | Ohio's Share of U.S. | US | | |
|-----------------------|------------|------------------|-------------------|----------------------------|--------------|------------------|-------------------|
| | 2021 | Total 2019-21 | Change 2020-21 | | 2021 | Total 2019-21 | Change 2020-21 |
| Mayotte | \$0.08 | \$0.15 | n.a. | 1.2% | \$6.59 | \$9.33 | 531.6% |
| Mexico | \$6,289.78 | \$18,242.85 | 24.1% | 2.3% | \$276,491.02 | \$744,608.87 | 30.8% |
| Moldova | \$0.55 | \$0.88 | 205.5% | 1.5% | \$37.97 | \$108.39 | -24.0% |
| Monaco | \$0.00 | \$0.10 | -95.1% | 0.0% | \$63.57 | \$167.24 | 28.3% |
| Mongolia | \$1.68 | \$10.60 | -62.6% | 1.1% | \$148.46 | \$459.04 | 26.1% |
| Montenegro | \$0.00 | \$0.15 | -100.0% | 0.0% | \$11.91 | \$66.88 | -67.4% |
| Montserrat | \$0.00 | \$0.07 | -32.6% | 0.0% | \$10.27 | \$37.71 | -11.5% |
| Morocco | \$16.55 | \$75.07 | 14.9% | 0.6% | \$2,794.50 | \$8,597.19 | 21.4% |
| Mozambique | \$0.74 | \$2.09 | 56.8% | 0.4% | \$191.24 | \$514.94 | 50.1% |
| Namibia | \$3.41 | \$3.99 | 1791.9% | 3.7% | \$93.05 | \$344.15 | 54.8% |
| Nauru | \$0.00 | \$0.00 | -100.0% | 0.0% | \$1.31 | \$3.15 | 116.3% |
| Nepal | \$0.69 | \$4.49 | -31.6% | 0.4% | \$196.66 | \$412.82 | 110.0% |
| Netherlands | \$1,384.18 | \$3,053.39 | 88.2% | 2.6% | \$53,080.08 | \$148,501.35 | 18.6% |
| New Caledonia | \$0.93 | \$2.27 | 66.4% | 1.3% | \$72.53 | \$207.50 | 19.9% |
| New Zealand | \$81.11 | \$234.78 | 6.9% | 2.2% | \$3,724.04 | \$10,866.97 | 16.5% |
| Nicaragua | \$14.20 | \$32.44 | 53.5% | 0.7% | \$2,152.94 | \$5,196.78 | 51.0% |
| Niger | \$1.22 | \$1.68 | 357.2% | 0.9% | \$137.43 | \$373.81 | -4.9% |
| Nigeria | \$57.04 | \$159.52 | 9.8% | 1.5% | \$3,887.04 | \$9,886.31 | 38.8% |
| Niue | \$0.00 | \$0.00 | n.a. | 0.0% | \$0.09 | \$0.52 | -47.0% |
| Norfolk Island | \$0.00 | \$0.00 | n.a. | 0.0% | \$4.54 | \$16.26 | -61.2% |
| Norway | \$64.79 | \$153.75 | 88.0% | 1.6% | \$3,956.31 | \$10,612.29 | 43.2% |
| Oman | \$33.65 | \$147.33 | -37.8% | 2.4% | \$1,397.17 | \$4,463.66 | 23.7% |
| Pakistan | \$247.64 | \$469.71 | 89.1% | 6.9% | \$3,614.39 | \$9,173.32 | 24.1% |
| Palau | \$0.11 | \$0.18 | 104.9% | 0.4% | \$26.60 | \$67.28 | 26.0% |
| Panama | \$112.78 | \$287.67 | 111.1% | 1.4% | \$8,133.22 | \$21,328.09 | 43.8% |
| Papua New Guinea | \$0.78 | \$4.07 | -69.3% | 1.8% | \$44.11 | \$201.82 | -29.4% |
| Paraguay | \$13.39 | \$33.56 | 30.6% | 0.7% | \$2,055.25 | \$5,430.67 | 62.2% |
| Peru | \$95.03 | \$271.23 | 14.5% | 0.9% | \$10,323.19 | \$27,551.32 | 36.4% |
| Philippines | \$130.32 | \$371.05 | 19.6% | 1.4% | \$9,290.21 | \$25,652.02 | 20.3% |
| Pitcairn Island | \$0.00 | \$0.00 | n.a. | 0.0% | \$0.01 | \$0.01 | n.a. |
| Poland | \$185.75 | \$535.14 | 22.0% | 3.2% | \$5,843.13 | \$16,854.07 | 15.8% |
| Portugal | \$88.26 | \$163.33 | 149.1% | 3.7% | \$2,369.25 | \$5,748.21 | 42.4% |
| Qatar | \$38.51 | \$284.69 | -70.6% | 1.5% | \$2,580.75 | \$12,447.71 | -24.3% |
| Republic Of Yemen | \$0.31 | \$2.53 | -83.6% | 0.1% | \$271.37 | \$870.12 | -17.5% |
| Reunion | \$0.02 | \$1.05 | -96.4% | 0.3% | \$9.56 | \$26.30 | 22.6% |
| Romania | \$33.88 | \$87.34 | 43.8% | 2.4% | \$1,411.72 | \$3,284.67 | 52.9% |
| Russia | \$220.68 | \$577.70 | 27.0% | 3.5% | \$6,387.06 | \$17,063.49 | 30.6% |
| Rwanda | \$0.72 | \$1.23 | 191.3% | 1.4% | \$49.88 | \$96.12 | 82.0% |
| San Marino | \$0.31 | \$0.40 | 244.4% | 0.5% | \$61.72 | \$95.48 | 2895.5% |
| Sao Tome And Principe | \$0.00 | \$0.01 | n.a. | 0.0% | \$3.26 | \$6.69 | 344.5% |
| Saudi Arabia | \$410.45 | \$1,308.74 | -1.8% | 3.7% | \$11,132.97 | \$36,745.47 | 0.0% |
| Senegal | \$7.14 | \$18.82 | 25.3% | 1.9% | \$382.00 | \$859.93 | 35.9% |
| Serbia | \$8.04 | \$18.13 | 67.5% | 4.4% | \$181.26 | \$473.69 | 27.9% |
| Seychelles | \$0.30 | \$0.52 | 287.9% | 2.7% | \$11.37 | \$46.79 | -33.4% |
| Sierra Leone | \$6.28 | \$12.31 | 77.1% | 5.5% | \$114.66 | \$266.72 | 55.3% |
| Singapore | \$598.24 | \$1,809.52 | 6.2% | 1.7% | \$35,285.47 | \$93,409.49 | 31.0% |

continued

Ohio and U.S. Exports by Country

Value in Millions

| | Ohio | | | Ohio's Share of U.S. | US | | |
|----------------------------|------------|------------------|-------------------|----------------------------|-------------|------------------|-------------------|
| | 2021 | Total 2019-21 | Change 2020-21 | | 2021 | Total 2019-21 | Change 2020-21 |
| Sint Maarten | \$2.12 | \$7.87 | 33.9% | 0.5% | \$385.51 | \$1,412.35 | 15.1% |
| Slovakia | \$16.23 | \$39.87 | 33.6% | 4.8% | \$335.86 | \$1,058.18 | 0.8% |
| Slovenia | \$11.90 | \$33.42 | 121.4% | 4.9% | \$242.58 | \$885.15 | -18.7% |
| Solomon Islands | \$0.04 | \$0.12 | -5.1% | 0.3% | \$14.74 | \$39.23 | 215.8% |
| Somalia | \$2.87 | \$3.89 | 284.1% | 5.3% | \$54.11 | \$216.20 | -4.8% |
| South Africa | \$133.95 | \$357.72 | 20.8% | 2.4% | \$5,479.21 | \$15,221.93 | 25.2% |
| South Sudan | \$0.07 | \$0.30 | -68.4% | 0.1% | \$58.92 | \$126.14 | 29.8% |
| Spain | \$262.69 | \$740.96 | 23.3% | 1.6% | \$16,332.15 | \$44,732.73 | 25.1% |
| Sri Lanka | \$7.27 | \$22.04 | 15.6% | 1.9% | \$389.17 | \$1,138.17 | 8.4% |
| St. Helena | \$0.03 | \$0.03 | n.a. | 0.3% | \$13.26 | \$18.69 | 173.2% |
| St. Lucia | \$0.50 | \$2.63 | -21.8% | 0.1% | \$535.22 | \$1,977.84 | -13.8% |
| St. Pierre And Miquelon | \$0.00 | \$0.01 | n.a. | 0.0% | \$0.00 | \$0.36 | -98.5% |
| St. Vincent | \$0.93 | \$2.64 | -22.9% | 0.9% | \$102.28 | \$282.89 | 31.8% |
| St.Christopher-Nevis | \$0.23 | \$1.73 | -71.5% | 0.2% | \$144.08 | \$476.87 | 5.9% |
| Sudan | \$0.00 | \$0.09 | -100.0% | 0.0% | \$153.14 | \$298.70 | 114.3% |
| Suriname | \$0.93 | \$4.60 | -44.0% | 0.3% | \$300.76 | \$950.42 | 12.5% |
| Svalbard, Jan Mayen Island | \$0.00 | \$0.00 | n.a. | 0.0% | \$1.50 | \$6.28 | 154.1% |
| Swaziland | \$0.60 | \$1.09 | 137.7% | 1.6% | \$36.96 | \$78.07 | 72.6% |
| Sweden | \$174.83 | \$596.44 | -9.2% | 3.3% | \$5,262.68 | \$14,402.38 | 10.3% |
| Switzerland | \$271.26 | \$882.06 | -9.9% | 1.1% | \$23,637.93 | \$59,660.78 | 30.9% |
| Syria | \$0.05 | \$0.06 | n.a. | 4.5% | \$1.18 | \$11.79 | -41.3% |
| Taiwan | \$712.09 | \$1,999.48 | 15.9% | 1.9% | \$36,837.94 | \$98,252.85 | 21.9% |
| Tajikistan | \$0.17 | \$1.34 | -85.3% | 1.1% | \$15.20 | \$34.11 | 100.8% |
| Tanzania | \$1.60 | \$4.77 | 27.6% | 0.6% | \$282.57 | \$858.30 | 16.2% |
| Thailand | \$396.05 | \$1,144.80 | 20.8% | 3.1% | \$12,652.44 | \$37,199.09 | 12.3% |
| Togo | \$1.16 | \$5.93 | 41.4% | 0.5% | \$235.36 | \$983.18 | -24.2% |
| Tokelau Islands | \$0.00 | \$0.00 | n.a. | 0.0% | \$0.17 | \$0.86 | 98.4% |
| Tonga | \$0.00 | \$0.01 | n.a. | 0.0% | \$18.91 | \$53.98 | 28.9% |
| Trinidad And Tobago | \$33.78 | \$110.51 | 19.8% | 1.3% | \$2,675.69 | \$7,893.16 | 11.5% |
| Tunisia | \$34.55 | \$85.41 | 47.9% | 7.4% | \$466.14 | \$1,356.29 | 8.6% |
| Turkey | \$279.14 | \$598.97 | 73.3% | 2.3% | \$11,905.34 | \$31,924.13 | 19.2% |
| Turkmenistan | \$0.02 | \$1.79 | -79.6% | 0.0% | \$78.88 | \$140.29 | 139.8% |
| Turks And Caicos Islands | \$0.80 | \$2.31 | 9.9% | 0.2% | \$379.31 | \$985.44 | 46.0% |
| Tuvalu Islands | \$0.00 | \$0.00 | n.a. | 0.0% | \$0.49 | \$3.00 | -71.1% |
| Uganda | \$0.59 | \$4.50 | -40.4% | 0.4% | \$167.43 | \$366.62 | 76.5% |
| Ukraine | \$23.46 | \$65.53 | 59.4% | 0.9% | \$2,525.14 | \$6,890.19 | 32.4% |
| United Arab Emirates | \$534.22 | \$1,631.74 | 13.8% | 3.1% | \$17,064.14 | \$51,780.99 | 15.7% |
| United Kingdom | \$1,482.99 | \$5,166.50 | -0.2% | 2.4% | \$61,425.14 | \$188,979.27 | 5.0% |
| Uruguay | \$13.75 | \$41.40 | 11.1% | 0.8% | \$1,798.60 | \$4,632.05 | 47.8% |
| Uzbekistan | \$1.65 | \$19.72 | 177.8% | 0.4% | \$401.26 | \$1,087.87 | 121.6% |
| Vanuatu | \$0.04 | \$0.07 | n.a. | 1.0% | \$4.45 | \$16.11 | -36.6% |
| Vatican City | \$0.00 | \$0.00 | n.a. | 0.0% | \$0.34 | \$1.38 | 9.3% |
| Venezuela | \$4.68 | \$12.81 | 17.9% | 0.3% | \$1,613.75 | \$4,046.05 | 42.8% |
| Vietnam | \$232.21 | \$577.27 | 31.6% | 2.1% | \$11,010.74 | \$31,748.05 | 11.0% |
| Wallis And Futuna | \$0.00 | \$0.00 | n.a. | 0.0% | \$0.03 | \$0.66 | -80.9% |
| West Bank Admin By Israel | \$0.19 | \$0.29 | 2081.2% | 9.3% | \$2.09 | \$7.48 | 1.4% |

continued

Ohio and U.S. Exports by Country

Value in Millions

| | Ohio | | | Ohio's Share of U.S. | US | | |
|----------------|--------|------------------|-------------------|----------------------------|---------|------------------|-------------------|
| | 2021 | Total 2019-21 | Change 2020-21 | | 2021 | Total 2019-21 | Change 2020-21 |
| Western Sahara | \$0.00 | \$0.00 | n.a. | n.a. | \$0.00 | \$28.02 | -100.0% |
| Western Samoa | \$0.13 | \$0.18 | 152.3% | 0.4% | \$33.40 | \$112.52 | 26.9% |
| Zambia | \$0.40 | \$1.89 | -51.7% | 0.4% | \$94.13 | \$265.38 | 31.1% |
| Zimbabwe | \$0.34 | \$1.49 | -63.5% | 0.8% | \$45.13 | \$131.37 | -2.5% |

Ohio and U.S. Exports by Commodity

Value in Millions

| Harmonized Tariff Schedule | | Ohio | | | Ohio's Share of U.S. | US | | |
|--|---|--------------------|---------------------|-------------------|----------------------------|-----------------------|-----------------------|-------------------|
| | | 2021 | Total 2019-21 | Change 2020-21 | | 2021 | Total 2019-21 | Change 2020-21 |
| | Total | \$50,701.55 | \$149,108.83 | 12.2% | 2.9% | \$1,754,300.37 | \$4,828,758.99 | 22.8% |
| Section I: Live Animals; Animal Products | | | | | | | | |
| 01 | Live Animals | \$18.14 | \$40.40 | 29.8% | 1.4% | \$1,279.59 | \$3,273.43 | 32.5% |
| 02 | Meat | \$100.32 | \$276.06 | 8.3% | 0.5% | \$22,124.26 | \$57,930.59 | 21.9% |
| 03 | Fish & Crustaceans | \$1.40 | \$4.45 | 27.1% | 0.0% | \$4,854.29 | \$13,750.69 | 21.0% |
| 04 | Dairy Products; Eggs; Honey; Edible Animal Products Nesoi | \$34.34 | \$87.54 | 47.0% | 0.5% | \$6,483.00 | \$16,856.09 | 19.7% |
| 05 | Products Of Animal Origin, Nesoi | \$101.29 | \$269.74 | 23.4% | 8.2% | \$1,241.82 | \$3,694.49 | 8.0% |
| Section Totals | | \$255.49 | \$678.18 | 19.9% | 0.7% | \$35,982.97 | \$95,505.29 | 21.2% |
| Section II: Vegetable Products | | | | | | | | |
| 06 | Live Trees, Plants, Bulbs Etc.; Cut Flowers Etc. | \$18.98 | \$45.68 | 44.0% | 3.6% | \$520.81 | \$1,407.43 | 21.3% |
| 07 | Edible Vegetables & Certain Roots & Tubers | \$91.90 | \$246.56 | 21.9% | 1.9% | \$4,927.47 | \$14,452.21 | 1.8% |
| 08 | Edible Fruit & Nuts; Citrus Fruit Or Melon Peel | \$1.47 | \$4.21 | -0.6% | 0.0% | \$15,061.75 | \$44,448.19 | 5.3% |
| 09 | Coffee, Tea, Mate & Spices | \$11.27 | \$22.74 | 75.3% | 1.0% | \$1,096.18 | \$3,234.15 | 5.0% |
| 10 | Cereals | \$314.27 | \$523.91 | 108.2% | 1.0% | \$30,352.57 | \$66,622.33 | 56.9% |
| 11 | Milling Products; Malt; Starch; Inulin; Wheat Gluten | \$7.19 | \$22.27 | 38.0% | 0.7% | \$1,045.68 | \$2,960.52 | 8.4% |
| 12 | Oil Seeds Etc.; Miscellaneous Grain, Seed, Fruit, Plant Etc | \$2,195.55 | \$6,344.49 | -10.0% | 6.6% | \$33,042.61 | \$87,776.64 | 7.2% |
| 13 | Lac; Gums, Resins & Other Vegetable Sap & Extract | \$12.53 | \$59.80 | -32.3% | 2.0% | \$634.68 | \$1,904.71 | 5.1% |
| 14 | Vegetable Plaiting Materials & Products Nesoi | \$0.38 | \$0.88 | 92.2% | 1.2% | \$32.51 | \$88.43 | 12.5% |
| Section Totals | | \$2,653.56 | \$7,270.53 | -2.1% | 3.1% | \$86,714.25 | \$222,894.61 | 19.8% |
| 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 | \$91.39 | \$211.89 | 35.7% | 2.1% | \$4,279.47 | \$10,953.62 | 19.3% |
| Section Totals | | \$91.39 | \$211.89 | 35.7% | 2.1% | \$4,279.47 | \$10,953.62 | 19.3% |

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 | | |
|---|---|-------------------|-------------------|-------------------|----------------------------|---------------------|---------------------|-------------------|
| | | 2021 | Total 2019-21 | Change 2020-21 | | 2021 | Total 2019-21 | Change 2020-21 |
| Section IV: Prepared Foodstuffs; Beverages, Spirits, and Vinegar; Tobacco and Manufactured Tobacco Substitutes | | | | | | | | |
| 16 | Edible Preparations Of Meat, Fish, Crustaceans Etc | \$181.87 | \$491.51 | 28.6% | 7.8% | \$2,341.86 | \$6,373.10 | 19.3% |
| 17 | Sugars & Sugar Confectionary | \$31.75 | \$99.53 | 21.4% | 1.5% | \$2,068.25 | \$5,834.53 | 12.7% |
| 18 | Cocoa & Cocoa Preparations | \$11.29 | \$28.79 | 17.9% | 0.6% | \$1,979.98 | \$5,588.47 | 17.7% |
| 19 | Preparations Of Cereal, Flour, Starch Or Milk; Bakers Wares | \$211.58 | \$634.88 | -1.3% | 4.9% | \$4,356.78 | \$12,912.30 | 1.9% |
| 20 | Preparations Vegetables, Fruit, Nuts Or Other Plant Parts | \$74.40 | \$219.88 | 7.4% | 1.5% | \$5,005.35 | \$14,479.24 | 11.2% |
| 21 | Miscellaneous Edible Preparations | \$309.19 | \$892.76 | -2.3% | 2.9% | \$10,487.86 | \$29,213.23 | 12.7% |
| 22 | Beverages, Spirits & Vinegar | \$89.39 | \$255.07 | 1.1% | 1.1% | \$8,460.68 | \$24,122.03 | 10.0% |
| 23 | Food Industry Residues & Waste; Prepared Animal Feed | \$414.06 | \$1,076.09 | 18.3% | 3.2% | \$13,119.40 | \$34,395.93 | 20.3% |
| 24 | Tobacco & Manufactured Tobacco Substitutes | \$76.13 | \$714.94 | -5.7% | 6.5% | \$1,166.03 | \$4,018.57 | 11.3% |
| Section Totals | | \$1,399.66 | \$4,413.45 | 8.0% | 2.9% | \$48,986.18 | \$136,937.39 | 13.4% |
| Section V: Mineral Products | | | | | | | | |
| 25 | Salt; Sulfur; Earth & Stone; Lime & Cement Plaster | \$108.15 | \$275.57 | 17.3% | 3.8% | \$2,832.30 | \$7,647.70 | 28.2% |
| 26 | Ores, Slag & Ash | \$98.43 | \$366.64 | -25.8% | 1.2% | \$8,488.98 | \$22,286.91 | 30.3% |
| 27 | Mineral Fuel, Oil Etc.; Bituminous Substances; Mineral Wax | \$644.54 | \$1,763.66 | 47.8% | 0.3% | \$240,348.49 | \$591,312.60 | 58.8% |
| Section Totals | | \$851.11 | \$2,405.87 | 28.8% | 0.3% | \$251,669.77 | \$621,247.20 | 57.2% |

continued

Ohio and U.S. Exports by Commodity

Value in Millions

| Harmonized Tariff Schedule | | Ohio | | | Ohio's Share of U.S. | US | | |
|--|--|-------------------|--------------------|-------------------|----------------------------|---------------------|---------------------|-------------------|
| | | 2021 | Total 2019-21 | Change 2020-21 | | 2021 | Total 2019-21 | Change 2020-21 |
| Section VI: Products of the Chemical or Allied Industries | | | | | | | | |
| 28 | Inorganic Chemicals; Precious & Rare-Earth Metals & Radioactive Compounds | \$281.12 | \$765.23 | 18.5% | 2.1% | \$13,499.06 | \$35,985.90 | 22.3% |
| 29 | Organic Chemicals | \$669.31 | \$1,809.33 | 35.9% | 1.6% | \$43,083.94 | \$115,547.59 | 28.3% |
| 30 | Pharmaceutical Products | \$1,839.24 | \$3,271.39 | 142.3% | 2.4% | \$77,849.07 | \$184,744.68 | 44.9% |
| 31 | Fertilizers | \$68.59 | \$161.71 | 28.9% | 1.5% | \$4,621.06 | \$12,309.59 | 30.3% |
| 32 | Tanning & Dye Extracts Etc; Dye, Paint, Putty Etc; Inks | \$658.85 | \$1,929.89 | 8.1% | 8.3% | \$7,967.68 | \$22,243.69 | 18.0% |
| 33 | Essential Oils Etc; Perfumery, Cosmetic Preparations | \$1,206.59 | \$3,831.04 | -2.1% | 8.9% | \$13,578.57 | \$39,759.96 | 10.0% |
| 34 | Soap Etc; Waxes, Polish Etc; Candles; Dental Preparations | \$1,144.60 | \$3,471.98 | -10.2% | 14.9% | \$7,686.22 | \$21,561.48 | 10.8% |
| 35 | Albuminoidal Substances; Modified Starch; Glue; Enzymes | \$186.66 | \$504.99 | 14.4% | 4.0% | \$4,685.91 | \$12,122.56 | 25.0% |
| 36 | Explosives; Pyrotechnics; Matches; Pyrophoric Alloys Etc | \$10.35 | \$31.26 | -2.5% | 1.6% | \$656.46 | \$2,020.84 | 8.7% |
| 37 | Photographic Or Cinematographic Goods | \$15.24 | \$53.85 | -2.6% | 0.7% | \$2,293.36 | \$6,637.55 | 12.0% |
| 38 | Miscellaneous Chemical Products | \$1,149.01 | \$3,262.06 | 9.6% | 3.1% | \$36,893.60 | \$98,790.60 | 18.0% |
| Section Totals | | \$7,229.56 | \$19,092.72 | 22.6% | 3.4% | \$212,814.92 | \$551,724.42 | 28.5% |
| Section VII: Plastics and Articles Thereof; Rubber and Articles Thereof | | | | | | | | |
| 39 | Plastics & Articles Thereof | \$3,273.27 | \$8,976.35 | 19.1% | 4.4% | \$74,313.45 | \$199,520.88 | 23.4% |
| 40 | Rubber & Articles Thereof | \$892.00 | \$2,595.33 | 17.6% | 6.8% | \$13,153.62 | \$37,571.38 | 17.5% |
| Section Totals | | \$4,165.27 | \$11,571.68 | 18.8% | 4.8% | \$87,467.07 | \$237,092.26 | 22.5% |

continued

Ohio and U.S. Exports by Commodity

Value in Millions

| Harmonized Tariff Schedule | | Ohio | | | Ohio's Share of U.S. | US | | |
|--|---|-----------------|-------------------|-------------------|----------------------------|--------------------|--------------------|-------------------|
| | | 2021 | Total 2019-21 | Change 2020-21 | | 2021 | Total 2019-21 | Change 2020-21 |
| 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 | \$3.64 | \$10.95 | 35.2% | 0.2% | \$1,863.08 | \$4,824.98 | 48.1% |
| 42 | Leather Articles; Saddlery Etc; Handbags | \$41.41 | \$166.43 | 5.2% | 2.9% | \$1,434.67 | \$4,369.47 | 12.8% |
| 43 | Furskins & Artificial Fur; Manufactures Thereof | \$1.69 | \$5.50 | 3356.1% | 1.2% | \$142.97 | \$446.52 | -9.9% |
| Section Totals | | \$46.73 | \$182.88 | 11.0% | 1.4% | \$3,440.72 | \$9,640.97 | 28.0% |
| 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 | \$302.65 | \$806.38 | 25.2% | 3.1% | \$9,743.09 | \$25,729.29 | 27.2% |
| 45 | Cork & Articles Of Cork | \$0.08 | \$0.34 | 92.9% | 0.4% | \$21.10 | \$63.82 | 8.4% |
| 46 | Manufactures Of Straw, Esparto Etc.; Basketware & Wickerwork | \$1.11 | \$2.49 | 83.6% | 4.1% | \$27.02 | \$65.22 | 31.7% |
| Section Totals | | \$303.84 | \$809.21 | 25.3% | 3.1% | \$9,791.21 | \$25,858.32 | 27.1% |
| 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 | \$36.52 | \$114.46 | -10.4% | 0.4% | \$9,575.72 | \$25,648.82 | 26.1% |
| 48 | Paper & Paperboard & Articles (Including Paper Pulp Articles) | \$533.92 | \$1,610.55 | 0.2% | 3.5% | \$15,357.62 | \$44,212.79 | 11.3% |
| 49 | Printed Books, Newspapers Etc; Manuscripts Etc | \$61.51 | \$213.83 | -13.6% | 1.5% | \$4,209.95 | \$12,109.66 | 14.9% |
| Section Totals | | \$631.96 | \$1,938.84 | -2.0% | 2.2% | \$29,143.29 | \$81,971.27 | 16.3% |

continued

Ohio and U.S. Exports by Commodity

Value in Millions

| Harmonized Tariff Schedule | | Ohio | | | Ohio's Share of U.S. | US | | |
|---|---|-----------------|-------------------|-------------------|----------------------------|--------------------|--------------------|-------------------|
| | | 2021 | Total 2019-21 | Change 2020-21 | | 2021 | Total 2019-21 | Change 2020-21 |
| Section XI: Textile and Textile Articles | | | | | | | | |
| 50 | Silk, Including Yarns & Woven Fabric Thereof | \$0.00 | \$0.06 | -100.0% | 0.0% | \$5.54 | \$17.40 | 24.3% |
| 51 | Wool & Animal Hair, Including Yarn & Woven Fabric | \$0.01 | \$0.13 | 385.3% | 0.0% | \$61.28 | \$166.92 | 34.8% |
| 52 | Cotton, Including Yarn & Woven Fabric Thereof | \$10.28 | \$25.76 | 24.4% | 0.1% | \$7,129.54 | \$22,023.53 | 1.9% |
| 53 | Other Vegetable Textile Fibers Nesoi; Paper Yarns & Woven Fabric | \$1.17 | \$2.68 | 49.6% | 5.4% | \$21.70 | \$61.42 | -1.0% |
| 54 | Manmade Filaments | \$6.26 | \$15.73 | 14.8% | 0.4% | \$1,469.32 | \$4,473.08 | 13.8% |
| 55 | Manmade Staple Fibers | \$5.24 | \$30.73 | -43.3% | 0.3% | \$2,092.23 | \$6,088.65 | 17.3% |
| 56 | Wadding, Felt Etc; Special Yarns; Twine, Ropes Etc. | \$63.16 | \$166.45 | 25.3% | 2.4% | \$2,605.90 | \$7,422.75 | 8.7% |
| 57 | Carpets & Other Textile Floor Coverings | \$14.17 | \$47.69 | -9.8% | 1.8% | \$776.61 | \$2,460.80 | 0.4% |
| 58 | Special Woven Fabrics; Tufted Fabrics; Lace; Tapestries Etc | \$7.63 | \$20.81 | 32.9% | 1.9% | \$403.75 | \$1,209.20 | 19.5% |
| 59 | Impregnated/Coated Textile Fabrics; Textile Articles For Industrial Use | \$50.02 | \$143.74 | 13.5% | 2.4% | \$2,089.03 | \$6,130.97 | 10.4% |
| 60 | Knitted Or Crocheted Fabrics | \$3.98 | \$9.14 | 42.9% | 0.5% | \$821.83 | \$2,303.85 | 25.1% |
| 61 | Apparel Articles & Accessories, Knit Or Crochet | \$131.94 | \$442.14 | 24.5% | 4.4% | \$3,030.77 | \$8,311.28 | 30.9% |
| 62 | Apparel Articles & Accessories, Not Knit Or Crochet | \$125.71 | \$456.17 | 8.3% | 5.8% | \$2,163.57 | \$6,200.44 | 21.0% |
| 63 | Textile Articles Nesoi; Needlecraft Sets; Worn Textile Articles | \$46.79 | \$110.55 | 32.0% | 1.6% | \$2,892.58 | \$7,579.02 | 17.6% |
| Section Totals | | \$466.36 | \$1,471.79 | 16.6% | 1.8% | \$25,563.64 | \$74,449.31 | 12.3% |

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 | | |
|---|--|-----------------|-------------------|-------------------|----------------------------|--------------------|---------------------|-------------------|
| | | 2021 | Total 2019-21 | Change 2020-21 | | 2021 | Total 2019-21 | Change 2020-21 |
| 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 | \$19.50 | \$59.47 | 33.6% | 1.7% | \$1,150.01 | \$3,923.14 | 1.2% |
| 65 | Headgear & Parts Thereof | \$22.77 | \$64.29 | 2.4% | 6.3% | \$363.05 | \$990.08 | 22.4% |
| 66 | Umbrellas, Walking-Sticks, Riding-Crops Etc, Parts | \$0.23 | \$1.06 | -22.3% | 0.5% | \$44.90 | \$118.12 | 32.4% |
| 67 | Prepared Feathers, Down Etc; Artificial Flowers; Human Hair Articles | \$1.93 | \$4.70 | 61.8% | 1.5% | \$131.55 | \$399.29 | 11.3% |
| Section Totals | | \$44.43 | \$129.52 | 15.9% | 2.6% | \$1,689.51 | \$5,430.62 | 6.6% |
| 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. | \$248.85 | \$680.86 | 17.9% | 6.5% | \$3,853.83 | \$11,134.01 | 18.2% |
| 69 | Ceramic Products | \$87.28 | \$234.64 | 19.5% | 3.8% | \$2,291.79 | \$6,199.22 | 27.1% |
| 70 | Glass And Glassware | \$491.00 | \$1,381.38 | 4.2% | 8.7% | \$5,651.74 | \$16,147.19 | 14.2% |
| Section Totals | | \$827.13 | \$2,296.88 | 9.5% | 7.0% | \$11,797.36 | \$33,480.42 | 17.8% |
| 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 | \$116.52 | \$337.20 | 33.4% | 0.1% | \$82,367.40 | \$201,889.55 | 37.7% |
| Section Totals | | \$116.52 | \$337.20 | 33.4% | 0.1% | \$82,367.40 | \$201,889.55 | 37.7% |

continued

Ohio and U.S. Exports by Commodity

Value in Millions

| Harmonized Tariff Schedule | | Ohio | | | Ohio's Share of U.S. | US | | |
|---|--|--------------------|--------------------|-------------------|----------------------------|---------------------|-----------------------|-------------------|
| | | 2021 | Total 2019-21 | Change 2020-21 | | 2021 | Total 2019-21 | Change 2020-21 |
| Section XV: Base Metals and Articles of Base Metal | | | | | | | | |
| 72 | Iron & Steel | \$1,087.43 | \$2,714.16 | 52.4% | 5.8% | \$18,675.76 | \$45,321.59 | 51.9% |
| 73 | Articles Of Iron Or Steel | \$1,480.26 | \$3,932.80 | 28.6% | 7.7% | \$19,291.44 | \$54,018.58 | 20.4% |
| 74 | Copper & Articles Thereof | \$405.51 | \$984.18 | 42.5% | 3.9% | \$10,394.75 | \$24,157.33 | 61.0% |
| 75 | Nickel & Articles Thereof | \$236.23 | \$541.42 | 28.5% | 10.7% | \$2,204.62 | \$7,538.29 | -0.4% |
| 76 | Aluminum & Articles Thereof | \$527.41 | \$1,338.25 | 38.6% | 4.4% | \$12,033.89 | \$32,349.24 | 28.3% |
| 78 | Lead & Articles Thereof | \$2.67 | \$8.31 | 49.3% | 1.0% | \$270.87 | \$570.75 | 78.9% |
| 79 | Zinc & Articles Thereof | \$8.68 | \$17.96 | 138.9% | 2.1% | \$408.98 | \$1,037.83 | 54.4% |
| 80 | Tin & Articles Thereof | \$5.57 | \$13.42 | 38.4% | 2.3% | \$238.45 | \$545.25 | 64.8% |
| 81 | Base Metals Nesoi; Cermets; Articles Thereof | \$186.80 | \$689.35 | -9.2% | 7.9% | \$2,374.52 | \$8,018.49 | -4.2% |
| 82 | Tools, Cutlery Etc. Of Base Metal & Parts Thereof | \$440.24 | \$1,281.34 | 10.0% | 9.3% | \$4,759.26 | \$13,293.47 | 22.1% |
| 83 | Miscellaneous Articles Of Base Metal | \$459.21 | \$1,327.74 | 14.6% | 9.2% | \$4,983.60 | \$14,525.21 | 14.6% |
| Section Totals | | \$4,840.02 | \$12,848.93 | 29.8% | 6.4% | \$75,636.15 | \$201,376.03 | 31.2% |
| 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 | \$8,342.00 | \$26,621.44 | -2.7% | 4.0% | \$209,410.34 | \$598,301.70 | 14.6% |
| 85 | Electric Machinery; Sound Equipment; TV Equipment; Parts | \$3,031.42 | \$8,965.39 | 10.0% | 1.6% | \$185,778.02 | \$526,593.30 | 12.5% |
| Section Totals | | \$11,373.41 | \$35,586.83 | 0.4% | 2.9% | \$395,188.36 | \$1,124,895.00 | 13.6% |
| Section XVII: Vehicles, Aircraft, Vessels and Associated Transport Equipment | | | | | | | | |
| 86 | Railway Stock Etc; Traffic Signal Equipment | \$73.36 | \$268.89 | -13.6% | 2.8% | \$2,653.17 | \$8,865.37 | -2.3% |
| 87 | Vehicles, Except Railway & Parts Etc | \$7,833.51 | \$22,621.72 | 31.9% | 6.4% | \$122,827.85 | \$363,494.47 | 15.3% |
| 88 | Aircraft, Spacecraft, & Parts Thereof | \$4,138.68 | \$14,551.57 | -5.1% | 4.6% | \$89,518.43 | \$307,447.92 | 10.0% |
| 89 | Ships, Boats & Floating Structures | \$8.72 | \$20.39 | 43.9% | 0.4% | \$2,310.97 | \$6,679.34 | 15.7% |
| Section Totals | | \$12,054.27 | \$37,462.57 | 16.0% | 5.5% | \$217,310.43 | \$686,487.11 | 12.8% |

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 | | |
|---|--|-------------------|-------------------|-------------------|----------------------------|--------------------|---------------------|-------------------|
| | | 2021 | Total 2019-21 | Change 2020-21 | | 2021 | Total 2019-21 | Change 2020-21 |
| 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 | \$1,694.25 | \$4,895.14 | 15.9% | 1.8% | \$91,627.57 | \$265,678.74 | 10.1% |
| 91 | Clocks & Watches & Parts Thereof | \$6.83 | \$17.09 | 45.0% | 0.4% | \$1,519.66 | \$4,432.92 | 21.1% |
| 92 | Musical Instruments; Parts & Accessories Thereof | \$9.37 | \$25.67 | 24.6% | 1.1% | \$851.69 | \$2,332.76 | 23.8% |
| Section Totals | | \$1,710.46 | \$4,937.89 | 16.0% | 1.8% | \$93,998.92 | \$272,444.41 | 10.4% |
| Section XIX: Arms and Ammunition; Parts and Accessories Thereof | | | | | | | | |
| 93 | Arms & Ammunition; Parts & Accessories Thereof | \$18.07 | \$97.78 | -57.2% | 0.4% | \$4,245.18 | \$14,506.19 | -1.0% |
| Section Totals | | \$18.07 | \$97.78 | -57.2% | 0.4% | \$4,245.18 | \$14,506.19 | -1.0% |
| Section XX: Miscellaneous Manufactured Articles | | | | | | | | |
| 94 | Furniture; Bedding Etc; Lamps Nesoi Etc; Prefabricated Buildings | \$325.56 | \$1,136.60 | -5.1% | 3.5% | \$9,277.42 | \$28,032.93 | 9.0% |
| 95 | Toys, Games & Sport Equipment; Parts & Accessories | \$161.47 | \$428.44 | 29.8% | 2.4% | \$6,789.42 | \$18,534.50 | 26.7% |
| 96 | Miscellaneous Manufactured Articles | \$298.79 | \$950.93 | -14.1% | 12.8% | \$2,336.07 | \$7,036.75 | 2.9% |
| Section Totals | | \$785.83 | \$2,515.97 | -3.6% | 4.3% | \$18,402.91 | \$53,604.18 | 14.0% |
| Section XXI: Works of Art, Collectors' Pieces and Antiques | | | | | | | | |
| 97 | Works Of Art, Collectors Pieces And Antiques | \$30.22 | \$118.64 | -37.2% | 0.3% | \$8,679.82 | \$29,476.66 | 6.1% |
| Section Totals | | \$30.22 | \$118.64 | -37.2% | 0.3% | \$8,679.82 | \$29,476.66 | 6.1% |
| Section XXII: Special Classification Provisions | | | | | | | | |
| 98 | Special Classification Provisions, Nesoi | \$806.27 | \$2,729.58 | 1.5% | 1.6% | \$49,130.84 | \$136,894.18 | 19.7% |
| Section Totals | | \$806.27 | \$2,729.58 | 1.5% | 1.6% | \$49,130.84 | \$136,894.18 | 19.7% |

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 <https://www.census.gov/foreign-trade/guide/index.html>.