Michigan's Exports to China

Michigan's goods and services exports to China supported 24,550 American jobs in 2021.

Change (2021-2022): -2%

Growth (2020-2021): 5%

**Top Goods Export Markets, 2022**
1. Canada $26.2 billion
2. Mexico $11.8 billion
3. China $5.1 billion
4. Germany $1.9 billion
5. Korea $1.6 billion

**Top Goods Exports to China, 2022**
1. Motor vehicle parts $510 million
2. Oilseeds & grains $508 million
3. Motor vehicles $207 million
4. Glass & glass products $181 million
5. Pharmaceuticals & medicines $160 million

5% of Michigan's global goods exports went to China in 2022

Note: Full-year services export data are available only through year-end 2021

**Top Services Export Markets, 2021**
1. Canada $2.0 billion
2. Ireland $926 million
3. United Kingdom $850 million
4. Switzerland $780 million
5. China $771 million

**Top Services Exports to China, 2021**
1. Education $518 million
2. Royalties from industrial processes $105 million
3. Misc. business, prof. & tech. services $50 million
4. Trademark royalties $49 million
5. Arch., eng. & other tech. services $41 million

6% of Michigan's global services exports went to China in 2021

Source: Estimated by Trade Partnership Worldwide (Washington, DC)
Michigan's 1st District Exports to China

**Michigan's 1st District goods and services exports to China supported 1,210 American jobs in 2021.**

**Goods ($ million)**

<table>
<thead>
<tr>
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**Services ($ million)**

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</table>

**Growth (2021-2022): 6%**

**Change (2020-2021): -8%**

**Top Goods Export Markets, 2022**

1. Canada $1.5 billion
2. Mexico $494 million
5. China $165 million
4. Germany $98 million
5. Japan $88 million

**Top Goods Exports to China, 2022**

1. Oilseeds & grains $44 million
2. Glass & glass products $15 million
5. Misc. general purpose machinery $11 million
4. Sawmill & wood products $11 million
5. Timber & logs $8.1 million

**Top Services Export Markets, 2021**

1. Canada $46 million
2. Mexico $59 million
5. United Kingdom $55 million
4. Ireland $24 million
5. China $23 million

**Top Services Exports to China, 2021**

1. Education $7.1 million
2. Trademark royalties $2.7 million
5. Equip. installation & maintenance $2.3 million
4. Royalties from industrial processes $1.7 million
5. Misc. personal & recreational $1.5 million

**5% of MI-1 global goods exports went to China in 2022**

**5% of MI-1 global services exports went to China in 2021**

*Note: Full-year services export data are available only through year-end 2021*

*Source: Estimated by Trade Partnership Worldwide (Washington, DC)*
Michigan's 2nd District Exports to China

Michigan's 2nd District goods and services exports to China supported 2,260 American jobs in 2021.

**Goods**

($ million)

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<thead>
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<th></th>
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Growth (2021-2022): 5%

**Services**

($ million)

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Growth (2020-2021): 2%

**Top Goods Export Markets, 2022**

1. Canada $2.0 billion
2. Mexico $893 million
3. China $501 million
4. Germany $159 million
5. Japan $151 million

**Top Goods Exports to China, 2022**

1. Oilseeds & grains $120 million
2. Motor vehicle parts $17 million
3. Glass & glass products $16 million
4. Pharmaceuticals & medicines $12 million
5. Electrical equipment & components $8.8 million

7% of MI-2 global goods exports went to China in 2022

**Top Services Export Markets, 2021**

1. United Kingdom $28 million
2. Ireland $26 million
3. Switzerland $26 million
4. Mexico $25 million
5. China $25 million

**Top Services Exports to China, 2021**

1. Education $7.2 million
2. Royalties from industrial processes $4.0 million
3. Trademark royalties $2.4 million
4. Equip. installation & maintenance $2.5 million
5. Misc. business, prof. & tech. services $2.3 million

7% of MI-2 global services exports went to China in 2021

Note: Full-year services export data are available only through year-end 2021
Source: Estimated by Trade Partnership Worldwide (Washington, DC)
Michigan's 3\textsuperscript{rd} District
Exports to China

Michigan's 3\textsuperscript{rd} District goods and services exports to China supported 2,660 American jobs in 2021.

**Goods**

($ million)

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Change (2021-2022): -7%

**Services**

($ million)

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<tr>
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Growth (2020-2021): 7%

**Top Goods Export Markets, 2022**


**Top Goods Exports to China, 2022**


5% of MI-3 global goods exports went to China in 2022

**Top Services Export Markets, 2021**


**Top Services Exports to China, 2021**


6% of MI-3 global services exports went to China in 2021

Note: Full-year services export data are available only through year-end 2021. Source: Estimated by Trade Partnership Worldwide (Washington, DC)
# Michigan's 4th District Exports to China

*Michigan's 4th District goods and services exports to China supported 2,700 American jobs in 2021.*

### Goods ($ million)

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<td>2020</td>
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<tr>
<td>2021</td>
<td>$467</td>
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</table>

Growth (2021-2022): **14%**

### Services ($ million)

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<tbody>
<tr>
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<tr>
<td>2020</td>
<td>$57</td>
</tr>
<tr>
<td>2021</td>
<td>$57</td>
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</tbody>
</table>

Change (2020-2021): **-1%**

### Top Goods Export Markets, 2022

1. Canada          $2.4 billion  
2. Mexico          $1.5 billion  
3. China           $467 million   
4. Germany         $445 million   
5. Japan           $294 million   

### Top Goods Exports to China, 2022

1. Pharmaceuticals & medicines  $91 million  
2. Glass & glass products       $77 million  
3. Motor vehicle parts          $51 million  
4. Meat products                $28 million  
5. Oilseeds & grains            $25 million  

6% of MI-4 global goods exports went to China in 2022

### Top Services Export Markets, 2021

1. Ireland          $105 million  
2. Switzerland      $96 million   
3. China            $57 million   
4. Singapore        $45 million   
5. Canada           $41 million   

### Top Services Exports to China, 2021

1. Education        $24 million   
2. Royalties from industrial processes $19 million  
3. Trademark royalties  $5.6 million  
4. Misc. business, prof. & tech. services $2.9 million  
5. Equip. installation & maintenance $1.6 million  

8% of MI-4 global services exports went to China in 2021

---

*Note: Full-year services export data are available only through year-end 2021*

*Source: Estimated by Trade Partnership Worldwide (Washington, DC)*
Michigan's 5th District Exports to China

Michigan's 5th District goods and services exports to China supported 2,850 American jobs in 2021.

**Goods ($ million)**

<table>
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**Growth (2021-2022): 1%**

**Top Goods Export Markets, 2022**

1. Canada $2.4 billion
2. Mexico $1.2 billion
3. China $586 million
4. Japan $252 million
5. Germany $205 million

**Top Goods Exports to China, 2022**

1. Oilseeds & grains $156 million
2. Motor vehicle parts $42 million
3. Glass & glass products $24 million
4. Nonferrous metal products $22 million
5. Resins & synthetic fibers $15 million

6% of MI-5 global goods exports went to China in 2022

**Services ($ million)**

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**Growth (2020-2021): 9%**

**Top Services Export Markets, 2021**

1. Switzerland $55 million
2. Ireland $52 million
3. China $27 million
4. United Kingdom $27 million
5. Mexico $25 million

**Top Services Exports to China, 2021**

1. Education $9.8 million
2. Royalties from industrial processes $5.7 million
3. Trademark royalties $2.8 million
4. Misc. business, prof. & tech. services $2.4 million
5. Equip. installation & maintenance $1.8 million

7% of MI-5 global services exports went to China in 2021

Note: Full-year services export data are available only through year-end 2021.

Source: Estimated by Trade Partnership Worldwide (Washington, DC)
Michigan's 6th District Exports to China

Michigan's 6th District goods and services exports to China supported 2,380 American jobs in 2021.

**Goods** ($ million)

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Change (2021-2022): -5%

**Services** ($ million)

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Growth (2020-2021): 14%

**Top Goods Export Markets, 2022**

1. Canada   $2.4 billion
2. Mexico   $721 million
3. China    $157 million
4. Korea    $146 million
5. Australia $123 million

**Top Goods Exports to China, 2022**

1. Motor vehicles $56 million
2. Resins & synthetic fibers $27 million
3. Motor vehicle parts $18 million
4. Engines & turbines $15 million
5. Navigational & meas. instruments $14 million

3% of MI-6 global goods exports went to China in 2022

**Top Services Export Markets, 2021**

1. China     $180 million
2. Ireland   $117 million
3. India     $98 million
4. Canada    $95 million
5. United Kingdom   $82 million

**Top Services Exports to China, 2021**

1. Education $145 million
2. Royalties from industrial processes $5.8 million
3. Arch., eng. & other tech. services $4.6 million
4. Trademark royalties $3.9 million
5. Misc. business, prof. & tech. services $3.9 million

13% of MI-6 global services exports went to China in 2021

Note: Full-year services export data are available only through year-end 2021
Source: Estimated by Trade Partnership Worldwide (Washington, DC)
Michigan's 7th District
Exports to China

Michigan's 7th District goods and services exports to China supported 1,870 American jobs in 2021.

**Goods**
($ million)

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Change (2021-2022): -2%

**Services**
($ million)

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Change (2020-2021): -12%

**Top Goods Export Markets, 2022**

1. Canada  $1.4 billion
2. Mexico   $529 million
3. China    $169 million
4. Japan    $86 million
5. Germany  $82 million

**Top Services Export Markets, 2021**

1. China    $85 million
2. United Kingdom  $76 million
3. Canada   $70 million
4. Ireland  $69 million
5. Switzerland  $50 million

**Top Goods Exports to China, 2022**

1. Oilseeds & grains  $47 million
2. Motor vehicle parts $35 million
3. Pharmaceuticals & medicines  $16 million
4. Motor vehicles      $14 million
5. Electrical equipment $7.0 million

**Top Services Exports to China, 2021**

1. Education   $61 million
2. Royalties from industrial processes  $5.0 million
3. Trademark royalties  $5.4 million
4. Insurance services  $2.2 million
5. Misc. business, prof. & tech. services  $2.0 million

5% of MI-7 global goods exports went to China in 2022

10% of MI-7 global services exports went to China in 2021

Note: Full-year services export data are available only through year-end 2021
Source: Estimated by Trade Partnership Worldwide (Washington, DC)
Michigan's 8th District
Exports to China

Michigan's 8th District goods and services exports to China supported 1,310 American jobs in 2021.

Growth (2021-2022): 0%

Top Goods Export Markets, 2022
1. Canada $1.8 billion
2. Mexico $897 million
3. China $206 million
4. Germany $125 million
5. Korea $115 million

Top Goods Exports to China, 2022
1. Resins & synthetic fibers $48 million
2. Oilseeds & grains $45 million
3. Motor vehicles $21 million
4. Motor vehicle parts $19 million
5. Glass & glass products $17 million

5% of MI-8 global goods exports went to China in 2022

Change (2020-2021): -2%

Top Services Export Markets, 2021
1. Switzerland $37 million
2. Ireland $37 million
3. United Kingdom $55 million
4. Mexico $50 million
5. China $27 million

Top Services Exports to China, 2021
1. Education $6.5 million
2. Royalties from industrial processes $5.8 million
3. Misc. business, prof. & tech. services $4.2 million
4. Trademark royalties $3.0 million
5. Equip. installation & maintenance $1.4 million

6% of MI-8 global services exports went to China in 2021

Note: Full-year services export data are available only through year-end 2021
Source: Estimated by Trade Partnership Worldwide (Washington, DC)
Michigan's 9th District
Exports to China

Michigan's 9th District goods and services exports to China supported 2,090 American jobs in 2021.

Change (2021-2022): -6%

**Goods** ($ million)

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**Services** ($ million)

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Growth (2020-2021): 7%

**Top Goods Export Markets, 2022**

1. Canada  $3.0 billion
2. Mexico  $755 million
3. China   $258 million
4. Korea   $169 million
5. Australia $150 million

**Top Goods Exports to China, 2022**

1. Oilseeds & grains $95 million
2. Motor vehicle parts $50 million
3. Motor vehicles    $59 million
4. Nonferrous metal products $9.9 million
5. Meat products     $5.6 million

4% of MI-9 global goods exports went to China in 2022

**Top Services Export Markets, 2021**

1. Canada  $505 million
2. United Kingdom $50 million
3. Switzerland $44 million
4. China $42 million
5. Ireland $42 million

**Top Services Exports to China, 2021**

1. Misc. freight & port services $16 million
2. Royalties from industrial processes $5.8 million
3. Arch., eng. & other tech. services $4.8 million
4. Misc. business, prof. & tech. services $5.5 million
5. Trademark royalties     $2.8 million

4% of MI-9 global services exports went to China in 2021

Note: Full-year services export data are available only through year-end 2021
Source: Estimated by Trade Partnership Worldwide (Washington, DC)
Michigan's 10th District Exports to China

Michigan's 10th District goods and services exports to China supported 1,720 American jobs in 2021.

**Goods ($ million)**

<table>
<thead>
<tr>
<th>Year</th>
<th>Value</th>
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<tbody>
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<td>2020</td>
<td>$254</td>
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<tr>
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Change (2021-2022): -19%

**Services ($ million)**

<table>
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<tbody>
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<tr>
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</tr>
<tr>
<td>2021</td>
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</table>

Growth (2020-2021): 8%

**Top Goods Export Markets, 2022**

1. Canada: $1.9 billion
2. Mexico: $1.0 billion
3. China: $207 million
4. Germany: $107 million
5. Spain: $100 million

**Top Services Export Markets, 2021**

1. Canada: $62 million
2. United Kingdom: $55 million
3. Switzerland: $55 million
4. Ireland: $52 million
5. China: $38 million

**Top Goods Exports to China, 2022**

1. Motor vehicle parts: $97 million
2. Misc. general purpose machinery: $18 million
3. Motor vehicles: $15 million
4. Electrical equipment: $10 million
5. Bolts, nuts & misc. turned prods: $9.9 million

5% of MI-10 global goods exports went to China in 2022

**Top Services Exports to China, 2021**

1. Arch., eng. & other tech. services: $9.5 million
2. Royalties from industrial processes: $7.7 million
3. Misc. business, prof. & tech. services: $5.0 million
4. Equip. installation & maintenance: $4.6 million
5. Trademark royalties: $4.2 million

6% of MI-10 global services exports went to China in 2021

Note: Full-year services export data are available only through year-end 2021
Source: Estimated by Trade Partnership Worldwide (Washington, DC)
Michigan's 11th District
Exports to China

Michigan's 11th District goods and services exports to China supported 1,540 American jobs in 2021.

**Goods ($ million)**

- 2012: $126
- 2013: $141
- 2014: $162
- 2015: $172
- 2016: $197
- 2017: $187
- 2018: $136
- 2019: $146
- 2020: $184
- 2021: $166

Change (2021-2022): -10%

**Services ($ million)**

- 2012: $72
- 2013: $75
- 2014: $84
- 2015: $94
- 2016: $101
- 2017: $98
- 2018: $100
- 2019: $99
- 2020: $79
- 2021: $86

Growth (2020-2021): 9%

**Top Goods Export Markets, 2022**

1. Canada: $823 million
2. Mexico: $723 million
3. China: $166 million
4. Germany: $107 million
5. Japan: $79 million

**Top Goods Exports to China, 2022**

1. Motor vehicle parts: $57 million
2. Basic chemicals: $19 million
3. Misc. general purpose machinery: $15 million
4. Misc. manufactured commodities: $11 million
5. Paints, coatings & adhesives: $9.1 million

**Top Services Export Markets, 2021**

1. Canada: $195 million
2. Ireland: $167 million
3. United Kingdom: $165 million
4. Switzerland: $156 million
5. China: $86 million

**Top Services Exports to China, 2021**

1. Royalties from industrial processes: $17 million
2. Arch., eng. & other tech. services: $15 million
3. Education: $9.7 million
4. Misc. business, prof. & tech. services: $8.6 million
5. Trademark royalties: $6.8 million

6% of MI-11 global goods exports went to China in 2022

5% of MI-11 global services exports went to China in 2021

Note: Full-year services export data are available only through year-end 2021
Source: Estimated by Trade Partnership Worldwide (Washington, DC)
Michigan's 12th District Exports to China

*Michigan's 12th District goods and services exports to China supported 1,040 American jobs in 2021.*

**Goods**
($ million)

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Change (2021-2022): -4%

**Services**
($ million)

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Growth (2020-2021): 5%

**Top Goods Export Markets, 2022**
1. Canada  $1.5 billion
2. Mexico   $485 million
3. China    $121 million
4. Korea    $87 million
5. Germany  $84 million

**Top Goods Exports to China, 2022**
1. Motor vehicle parts  $28 million
2. Engines & turbines   $19 million
3. Motor vehicles       $18 million
4. Basic chemicals      $14 million
5. Paints, coatings & adhesives $4.5 million

4% of MI-12 global goods exports went to China in 2022

**Top Services Export Markets, 2021**
1. Canada  $116 million
2. United Kingdom $105 million
3. Ireland   $105 million
4. Switzerland $77 million
5. China     $64 million

**Top Services Exports to China, 2021**
1. Education $21 million
2. Royalties from industrial processes $8.9 million
3. Trademark royalties $4.9 million
4. Misc. business, prof. & tech. services $4.2 million
5. Arch., eng. & other tech. services $4.0 million

5% of MI-12 global services exports went to China in 2021

Note: Full-year services export data are available only through year-end 2021
Source: Estimated by Trade Partnership Worldwide (Washington, DC)
Michigan's 13th District Exports to China

Michigan's 13th District goods and services exports to China supported 930 American jobs in 2021.

**Goods**

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Change (2021-2022): -9%

**Services**

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</tbody>
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Change (2020-2021): -8%

**Top Goods Export Markets, 2022**

1. Canada $2.9 billion
2. Mexico $467 million
3. Korea $178 million
4. Australia $144 million
5. China $111 million
6. Canada $467 million
7. Mexico $178 million
8. Australia $144 million
9. China $111 million
10. Mexico $178 million
11. Australia $144 million

**Top Goods Exports to China, 2022**

1. Motor vehicles $47 million
2. Basic chemicals $14 million
3. Motor vehicle parts $10 million
4. Resins & synthetic fiber $7.7 million
5. Engines & turbines $5.8 million
6. Engines & turbines $5.8 million

2% of MI-13 global goods exports went to China in 2022

**Top Services Export Markets, 2021**

1. Canada $755 million
2. United Kingdom $79 million
3. Ireland $77 million
4. China $68 million
5. Mexico $66 million
6. Canada $755 million
7. United Kingdom $79 million
8. Ireland $77 million
9. China $68 million
10. Mexico $66 million

**Top Services Exports to China, 2021**

1. Misc. freight & port services $22 million
2. Education $17 million
3. Royalties from industrial processes $4.6 million
4. Trademark royalties $3.6 million
5. Misc. financial services $3.0 million
6. Misc. freight & port services $22 million
7. Education $17 million
8. Royalties from industrial processes $4.6 million
9. Trademark royalties $3.6 million
10. Misc. financial services $3.0 million

4% of MI-13 global services exports went to China in 2021

Note: Full-year services export data are available only through year-end 2021. Source: Estimated by Trade Partnership Worldwide (Washington, DC)