TRADE: GROWTH WAS COMMON EVERYWHERE

The value of chemical exports and imports increased, but U.S. trade deficit ballooned

WORLDWIDE TRADE in chemicals posted good, and sometimes very good, increases last year as the value of both exports and imports in major producing countries rose.

In the U.S., total chemical exports rose 9.1% from the previous year to $123.1 billion, while imports increased 13.6% to $128.3 billion.

Inorganic chemical exports showed the largest increase among the chemical sectors, rising 22.0% to $7.9 billion. Plastics and fertilizers also scored double-digit growth in 2005. Exports of plastics in primary form rose 15.9% to $21.5 million, while exports of plastics in nonprimary form increased 10.2% to $8.0 billion. Fertilizer exports rose 12.5% to $3.2 billion.

The organic chemicals sector, which has the largest export value among the nine chemical sectors, saw an export increase of just 1.7% to $26.8 billion.

The growth in chemical imports last year was widespread throughout the industry, with all but one of the sectors showing increases greater than 10%. The organic chemicals sector was the exception, with only 8.3% growth to $38.1 billion.

Fertilizers saw the largest import growth, rising 46.2% to $3.7 billion, followed by plastics in primary form, which increased 28.0% to $11.1 billion. Imports in the largest importing sector, pharmaceuticals, rose 11.2% to $39.0 billion.

The disparity between import and export growth rates in 2005 led to a huge increase in the U.S. chemical trade deficit. After dropping to just $82.0 million in 2004 from the previous year, the deficit swelled to $3.2 billion last year. As in the past, deficits in both the organic chemicals and pharmaceuticals sectors were greater than the sum for all sectors. Pharmaceuticals posted the largest deficit, $11.3 billion, up from $11.1 billion in 2004. The organic chemicals deficit of $11.3 billion was well above the $8.8 billion seen in the previous year. The only other deficit was in fertilizers: $496 million, compared with a surplus of $316 million the year before.

In Canada, overall chemical exports increased 10.4% to $22.1 billion, while imports rose less than half that rate, 5.1%, to $20.8 billion. The result was a trade deficit of only $8.7 billion, lower than the $9.3 billion deficit in the previous year.

In the U.S., total chemical exports rose 13.9% to $8.6 billion. The organic chemicals sector, which sends more product abroad than any other sector, saw exports increase 18.7% to $50.6 billion. This trade produced a trade surplus of $125 million, compared with a deficit of $63.5 million the year before.

In Europe, six countries showed positive export and import growth, but in most cases, imports rose faster than exports. Within the group, Germany, as usual, had the largest exports, $1,292 billion, up 4.4% from the prior year. Imports rose 9.6%, to $91.2 billion.

Belgium achieved the largest growth in both exports and imports. Exports rose 12.0% to $104.3 billion, and imports increased 15.4% to $87.9 billion. Spain followed closely, recording an 11.7% increase in exports to $22.0 billion and a 7.0% rise in imports to $32.5 billion. The Netherlands did not provide trade data this year.

In Japan, chemical exports for 2005 rose 9.0% from the previous year to $68.2 billion. Imports of chemicals into Japan increased 10.4% to $45.2 billion. The result was a 16.8% decline in the county’s chemical trade surplus to $22.9 billion.

The largest growth in both chemical exports and imports was in the synthetic resins sector. Japanese exports of resins rose 13.3% to $17.4 billion while imports increased 13.9% to $8.6 billion. The organic chemicals sector, which sends more product abroad than any other sector, saw exports increase 8.3% to $17.9 billion, but imports also went up, by 7.9% to $11.5 billion.

South Korea reports that total chemical exports rose 20.0% to $27.7 billion and imports increased 18.6% to $24.5 billion. Petrochemical exports grew 22.3% to $20.8 billion, and imports totaled $9.5 billion, 18.6% ahead of 2004.

China’s exports increased 29.6% last year to $31.9 billion, and imports increased 18.7% to $50.6 billion. This trade produced

FACTS & FIGURES

U.S. TOTAL TRADE
Chemical industry kept the number two spot among exporting sectors

<table>
<thead>
<tr>
<th></th>
<th>$ BILLIONS</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>U.S. EXPORTS</td>
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<td>$351.8</td>
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<td>$433.7</td>
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<td>Miscellaneous manufactures</td>
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<td>$129.2</td>
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<td>Food &amp; live animals</td>
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<td>$103.3</td>
<td>$123.1</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<td>Crude materials, inedible [except fuels]</td>
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<td>$132.1</td>
<td>$143.7</td>
<td>$161.2</td>
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<td>Beverages &amp; tobacco</td>
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<td>$136.2</td>
<td>$145.2</td>
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<td>Animal &amp; vegetable oils, fats &amp; waxes</td>
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<td>$145.2</td>
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<td>Other</td>
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<td></td>
<td>$168.3</td>
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<td>TOTAL</td>
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<td>$817.9</td>
<td>$904.5</td>
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<td></td>
<td>$1,259.4</td>
<td>$1,469.6</td>
<td>$1,671.0</td>
<td></td>
</tr>
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</table>

SOURCE: Department of Commerce
a deficit of $18.7 billion, up from $18.0 billion in 2004.

Exports of organic chemicals, China’s largest chemical trade sector, increased by 33.2% to $12.1 billion, and imports rose 17.5% to $28.0 billion.

### U.S. CHEMICAL TRADE, BY REGION

Both imports from and exports to China and Latin America rose sharply

<table>
<thead>
<tr>
<th>Region</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>CHANGE, 2004–05</th>
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<td>Europe</td>
<td></td>
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<td>IMPORTS</td>
<td>$26,312</td>
<td>$52,683</td>
<td>$30,796</td>
<td>$61,304</td>
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<tr>
<td>EXPORTS</td>
<td>$26,312</td>
<td>$52,683</td>
<td>$30,796</td>
<td>$61,304</td>
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<tr>
<td>Change, 2004–05</td>
<td>8.0%</td>
<td>8.7%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canada</td>
<td>16,344</td>
<td>12,108</td>
<td>17,891</td>
<td>13,492</td>
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<tr>
<td>IMPORTS</td>
<td>16,344</td>
<td>12,108</td>
<td>17,891</td>
<td>13,492</td>
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<tr>
<td>EXPORTS</td>
<td>16,344</td>
<td>12,108</td>
<td>17,891</td>
<td>13,492</td>
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<tr>
<td>Change, 2004–05</td>
<td>11.8%</td>
<td>18.3%</td>
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<tr>
<td>Latin America</td>
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<td>4,297</td>
<td>18,030</td>
<td>5,220</td>
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<td>16,464</td>
<td>4,297</td>
<td>18,030</td>
<td>5,220</td>
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<td>EXPORTS</td>
<td>16,464</td>
<td>4,297</td>
<td>18,030</td>
<td>5,220</td>
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<td>Japan</td>
<td>6,001</td>
<td>7,008</td>
<td>6,804</td>
<td>8,013</td>
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<tr>
<td>IMPORTS</td>
<td>6,001</td>
<td>7,008</td>
<td>6,804</td>
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<td>EXPORTS</td>
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<td>8,013</td>
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</tr>
<tr>
<td>Change, 2004–05</td>
<td>6.0%</td>
<td>2.1%</td>
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<td></td>
</tr>
<tr>
<td>China-Vietnam</td>
<td>3,043</td>
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<td>3,731</td>
<td>3,029</td>
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<tr>
<td>IMPORTS</td>
<td>3,043</td>
<td>2,426</td>
<td>3,731</td>
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<tr>
<td>EXPORTS</td>
<td>3,043</td>
<td>2,426</td>
<td>3,731</td>
<td>3,029</td>
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<tr>
<td>Change, 2004–05</td>
<td>14.9%</td>
<td>38.4%</td>
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<tr>
<td>Rest of Asia</td>
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<td>4,951</td>
<td>12,587</td>
<td>6,259</td>
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<tr>
<td>IMPORTS</td>
<td>10,957</td>
<td>4,951</td>
<td>12,587</td>
<td>6,259</td>
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<tr>
<td>EXPORTS</td>
<td>10,957</td>
<td>4,951</td>
<td>12,587</td>
<td>6,259</td>
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</tr>
<tr>
<td>Change, 2004–05</td>
<td>3.0%</td>
<td>27.8%</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Australia</td>
<td>1,637</td>
<td>367</td>
<td>1,809</td>
<td>526</td>
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<tr>
<td>IMPORTS</td>
<td>1,637</td>
<td>367</td>
<td>1,809</td>
<td>526</td>
<td></td>
</tr>
<tr>
<td>EXPORTS</td>
<td>1,637</td>
<td>367</td>
<td>1,809</td>
<td>526</td>
<td></td>
</tr>
<tr>
<td>Change, 2004–05</td>
<td>11.2%</td>
<td>5.6%</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Middle East</td>
<td>1,157</td>
<td>1,788</td>
<td>1,392</td>
<td>2,249</td>
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</tr>
<tr>
<td>IMPORTS</td>
<td>1,157</td>
<td>1,788</td>
<td>1,392</td>
<td>2,249</td>
<td></td>
</tr>
<tr>
<td>EXPORTS</td>
<td>1,157</td>
<td>1,788</td>
<td>1,392</td>
<td>2,249</td>
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<tr>
<td>Change, 2004–05</td>
<td>3.3%</td>
<td>45.2%</td>
<td></td>
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<tr>
<td>Africa</td>
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<td>368</td>
<td>736</td>
<td>496</td>
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<tr>
<td>IMPORTS</td>
<td>859</td>
<td>368</td>
<td>736</td>
<td>496</td>
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<tr>
<td>EXPORTS</td>
<td>859</td>
<td>368</td>
<td>736</td>
<td>496</td>
<td></td>
</tr>
<tr>
<td>Change, 2004–05</td>
<td>8.0%</td>
<td>33.9%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>319</td>
<td>61</td>
<td>377</td>
<td>462</td>
<td></td>
</tr>
<tr>
<td>IMPORTS</td>
<td>319</td>
<td>61</td>
<td>377</td>
<td>462</td>
<td></td>
</tr>
<tr>
<td>EXPORTS</td>
<td>319</td>
<td>61</td>
<td>377</td>
<td>462</td>
<td></td>
</tr>
<tr>
<td>Change, 2004–05</td>
<td>-9.9%</td>
<td>-2.9%</td>
<td></td>
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<td></td>
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<tr>
<td>TOTAL</td>
<td>$83,593</td>
<td>$86,057</td>
<td>$94,153</td>
<td>$101,050</td>
<td>$112,860</td>
</tr>
<tr>
<td>IMPORTS</td>
<td>$83,593</td>
<td>$86,057</td>
<td>$94,153</td>
<td>$101,050</td>
<td>$112,860</td>
</tr>
<tr>
<td>EXPORTS</td>
<td>$83,593</td>
<td>$86,057</td>
<td>$94,153</td>
<td>$101,050</td>
<td>$112,860</td>
</tr>
<tr>
<td>Change, 2004–05</td>
<td>9.1%</td>
<td>13.6%</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

NOTE: Totals may not sum because of rounding. SOURCE: Department of Commerce

### EUROPE CHEMICAL TRADE

Belgium, Italy, and Spain had double-digit export growth

<table>
<thead>
<tr>
<th>Country</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>CHANGE, 2004–05</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td>$83,908</td>
<td>$68,690</td>
<td>$84,769</td>
<td>$93,170</td>
<td>$104,319 $87,861</td>
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<tr>
<td>France</td>
<td>64,710</td>
<td>52,077</td>
<td>65,127</td>
<td>52,537</td>
<td>72,761 60,177</td>
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<tr>
<td>Germany</td>
<td>101,455</td>
<td>72,250</td>
<td>107,601</td>
<td>73,392</td>
<td>123,740 91,200</td>
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<tr>
<td>Italy</td>
<td>33,431</td>
<td>43,815</td>
<td>32,467</td>
<td>44,633</td>
<td>33,854 47,424</td>
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<tr>
<td>Netherlands</td>
<td>47,758</td>
<td>31,170</td>
<td>48,385</td>
<td>31,169</td>
<td>54,655 50,708</td>
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<tr>
<td>Spain</td>
<td>18,059</td>
<td>27,353</td>
<td>18,794</td>
<td>28,986</td>
<td>19,718 32,548</td>
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<tr>
<td>U.K.</td>
<td>57,006</td>
<td>47,222</td>
<td>56,684</td>
<td>46,637</td>
<td>58,453 52,150</td>
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</tbody>
</table>

NOTE: Monetary statistics for all years were converted from local currencies to U.S. dollars on the basis of the 2005 average exchange rates of $1.00 U.S. = 0.803 euros and 0.549 pounds sterling. na = not available. SOURCES: European Chemical Industry Council, national agencies

### NORTH AMERICAN CHEMICALS

U.S. trade gap opened up again ...

... while Canada’s shrank

SOURCE: Department of Commerce

NOTES: $1.00 U.S. = $1.212 Canadian SOURCES: Industry Canada, Statistics Canada
### U.S. CHEMICAL TRADE, BY PRODUCT

Led by fertilizers and plastics, chemical imports rose more than exports did in 2005

<table>
<thead>
<tr>
<th>$ MILLIONS</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>CHANGE, 2004–05</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EXPORTS</strong></td>
<td><strong>IMPORTS</strong></td>
<td><strong>EXPORTS</strong></td>
<td><strong>IMPORTS</strong></td>
<td><strong>EXPORTS</strong></td>
<td><strong>IMPORTS</strong></td>
</tr>
<tr>
<td>Organic chemicals</td>
<td>$16,839</td>
<td>$30,213</td>
<td>$20,451</td>
<td>$32,876</td>
<td>$26,377</td>
</tr>
<tr>
<td>Plastics in primary form</td>
<td>13,896</td>
<td>6,425</td>
<td>15,127</td>
<td>7,366</td>
<td>18,512</td>
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<tr>
<td>Medicinals &amp; pharmaceuticals</td>
<td>16,150</td>
<td>24,719</td>
<td>19,209</td>
<td>31,516</td>
<td>23,982</td>
</tr>
<tr>
<td>Inorganic chemicals</td>
<td>5,612</td>
<td>6,018</td>
<td>5,756</td>
<td>7,419</td>
<td>6,440</td>
</tr>
<tr>
<td>Plastics in nonprimary form</td>
<td>5,993</td>
<td>4,336</td>
<td>6,504</td>
<td>4,794</td>
<td>7,252</td>
</tr>
<tr>
<td>Perfume, toilet &amp; cleaning materials</td>
<td>6,135</td>
<td>4,195</td>
<td>6,857</td>
<td>5,611</td>
<td>7,745</td>
</tr>
<tr>
<td>Dyeing, tanning &amp; coloring materials</td>
<td>3,976</td>
<td>2,358</td>
<td>4,282</td>
<td>2,481</td>
<td>4,690</td>
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<tr>
<td>Fertilizers</td>
<td>2,262</td>
<td>1,619</td>
<td>2,552</td>
<td>2,130</td>
<td>2,846</td>
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<tr>
<td>Other</td>
<td>12,730</td>
<td>6,174</td>
<td>13,415</td>
<td>6,857</td>
<td>15,016</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$83,593</td>
<td>$86,057</td>
<td>$94,153</td>
<td>$101,050</td>
<td>$112,860</td>
</tr>
</tbody>
</table>

**NOTE:** Totals may not sum because of rounding. **SOURCE:** Department of Commerce

### CANADA CHEMICAL TRADE, BY PRODUCT

Exports boomed and imports climbed in 2005

<table>
<thead>
<tr>
<th>$ MILLIONS</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>CHANGE, 2004–05</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EXPORTS</strong></td>
<td><strong>IMPORTS</strong></td>
<td><strong>EXPORTS</strong></td>
<td><strong>IMPORTS</strong></td>
<td><strong>EXPORTS</strong></td>
<td><strong>IMPORTS</strong></td>
</tr>
<tr>
<td>Basic chemicals</td>
<td>$5,450.3</td>
<td>$6,429.2</td>
<td>$5,091.2</td>
<td>$6,255.1</td>
<td>$6,620.7</td>
</tr>
<tr>
<td>Resins, synthetic rubber &amp; fibers</td>
<td>5,075.5</td>
<td>5,420.6</td>
<td>5,018.6</td>
<td>5,212.5</td>
<td>5,563.3</td>
</tr>
<tr>
<td>Pesticides, fertilizers &amp; other agricultural chemicals</td>
<td>1,003.7</td>
<td>1,212.5</td>
<td>948.4</td>
<td>1,261.2</td>
<td>1,161.4</td>
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<tr>
<td>Pharmaceuticals &amp; medicine</td>
<td>2,106.5</td>
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<td>2,807.3</td>
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<td>3,310.8</td>
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<tr>
<td>Other chemical products</td>
<td>3,045.0</td>
<td>7,454.4</td>
<td>2,971.5</td>
<td>7,276.9</td>
<td>3,299.2</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$16,681.0</td>
<td>$27,177.9</td>
<td>$16,837.0</td>
<td>$27,462.6</td>
<td>$20,045.4</td>
</tr>
<tr>
<td><strong>TOTAL WITH U.S.</strong></td>
<td>$14,168.4</td>
<td>$19,196.0</td>
<td>$14,002.5</td>
<td>$18,829.6</td>
<td>$16,245.2</td>
</tr>
<tr>
<td><strong>U.S. SHARE</strong></td>
<td>84.9%</td>
<td>70.6%</td>
<td>83.2%</td>
<td>68.6%</td>
<td>81.0%</td>
</tr>
</tbody>
</table>

**NOTE:** Monetary statistics for all years were converted to U.S. dollars on the basis of the 2005 average exchange rate of $1.00 U.S. = $1.212 Canadian. **SOURCES:** Statistics Canada, Industry Canada

### ASIA CHEMICAL TRADE, BY PRODUCT

Chemical trade surpluses grew in both Japan and South Korea

<table>
<thead>
<tr>
<th>$ MILLIONS</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>CHANGE, 2004–05</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EXPORTS</strong></td>
<td><strong>IMPORTS</strong></td>
<td><strong>EXPORTS</strong></td>
<td><strong>IMPORTS</strong></td>
<td><strong>EXPORTS</strong></td>
<td><strong>IMPORTS</strong></td>
</tr>
<tr>
<td><strong>JAPAN</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organic chemicals</td>
<td>$11,493</td>
<td>$8,085</td>
<td>$13,458</td>
<td>$9,323</td>
<td>$16,508</td>
</tr>
<tr>
<td>Inorganic chemicals</td>
<td>1,936</td>
<td>2,952</td>
<td>2,295</td>
<td>3,468</td>
<td>2,708</td>
</tr>
<tr>
<td>Synthetic resins</td>
<td>10,495</td>
<td>5,425</td>
<td>12,197</td>
<td>6,311</td>
<td>15,385</td>
</tr>
<tr>
<td>Photographic materials</td>
<td>3,766</td>
<td>372</td>
<td>4,104</td>
<td>403</td>
<td>4,605</td>
</tr>
<tr>
<td>Fertilizers</td>
<td>84</td>
<td>523</td>
<td>86</td>
<td>530</td>
<td>103</td>
</tr>
<tr>
<td>Dyes &amp; pigments</td>
<td>2,046</td>
<td>801</td>
<td>2,430</td>
<td>950</td>
<td>2,996</td>
</tr>
<tr>
<td>Cosmetics</td>
<td>712</td>
<td>1,519</td>
<td>785</td>
<td>1,809</td>
<td>928</td>
</tr>
<tr>
<td>Rubber</td>
<td>5,981</td>
<td>1,839</td>
<td>6,879</td>
<td>2,259</td>
<td>7,875</td>
</tr>
<tr>
<td>Other</td>
<td>7,948</td>
<td>8,720</td>
<td>9,101</td>
<td>9,923</td>
<td>11,412</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$44,461</td>
<td>$30,236</td>
<td>$51,335</td>
<td>$34,976</td>
<td>$62,520</td>
</tr>
</tbody>
</table>

| **SOUTH KOREA** | | | | | |
| Chemicals & chemical products | $13,762 | $14,156 | $16,936 | $13,482 | $23,126 | $20,655 | $27,745 | $24,502 | 20.0% | 18.6% |
| Petrochemicals* | 9,625 | 4,745 | 11,917 | 5,821 | 17,015 | 8,015 | 20,811 | 9,507 | 22.3 | 18.6 |

**NOTE:** Totals may not sum because of rounding. *Defined as synthetic resins, synthetic fiber raw materials, and synthetic rubber. Totals may not sum because of rounding. **SOURCES:** Japan Chemical Importers & Exporters Association; National Statistical Office, Republic of Korea; Korea Petrochemical Industry Association
### CHINA TRADE, BY PRODUCT
Deficit grew only slightly as exports rose faster than imports

<table>
<thead>
<tr>
<th>$ MILLIONS</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>CHANGE, 2004-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inorganic chemicals</td>
<td>$3,030</td>
<td>$1,949</td>
<td>$2,595</td>
<td>$2,729</td>
<td>$4,860</td>
</tr>
<tr>
<td>Organic chemicals</td>
<td>5,568</td>
<td>11,156</td>
<td>7,131</td>
<td>16,006</td>
<td>9,092</td>
</tr>
<tr>
<td>Pharmaceutical products</td>
<td>790</td>
<td>1,130</td>
<td>918</td>
<td>1,392</td>
<td>1,100</td>
</tr>
<tr>
<td>Fertilizers</td>
<td>350</td>
<td>2,354</td>
<td>800</td>
<td>1,763</td>
<td>1,309</td>
</tr>
<tr>
<td>Dyes &amp; pigments</td>
<td>1,390</td>
<td>2,088</td>
<td>1,526</td>
<td>2,583</td>
<td>1,927</td>
</tr>
<tr>
<td>Other</td>
<td>3,490</td>
<td>5,626</td>
<td>4,557</td>
<td>7,316</td>
<td>6,312</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$14,618</td>
<td>$24,303</td>
<td>$18,527</td>
<td>$31,789</td>
<td>$24,580</td>
</tr>
</tbody>
</table>

* Calculated by C&EN. SOURCE: Customs General Administration of the People’s Republic of China

### U.S. CHEMICAL TRADE BALANCE, BY PRODUCT
Large deficits in trade of organic chemicals and pharmaceuticals pushed total trade balance deep into the red

<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Organic chemicals</td>
<td>$3,070</td>
<td>$192</td>
<td>-886</td>
<td>-$3,119</td>
<td>-$4,106</td>
<td>-$9,632</td>
<td>-$12,680</td>
<td>-$13,373</td>
<td>-$12,425</td>
<td>-$8,835</td>
<td>$11,304</td>
</tr>
<tr>
<td>Plastics in primary form</td>
<td>6,425</td>
<td>6,539</td>
<td>7,220</td>
<td>6,476</td>
<td>6,330</td>
<td>7,439</td>
<td>7,189</td>
<td>7,471</td>
<td>7,761</td>
<td>9,858</td>
<td>10,380</td>
</tr>
<tr>
<td>Medicinals &amp; pharmaceuticals</td>
<td>1,010</td>
<td>254</td>
<td>307</td>
<td>-1,124</td>
<td>-2,295</td>
<td>-1,572</td>
<td>-3,203</td>
<td>-8,570</td>
<td>-12,307</td>
<td>-11,123</td>
<td>-13,087</td>
</tr>
<tr>
<td>Inorganic chemicals</td>
<td>24</td>
<td>205</td>
<td>292</td>
<td>276</td>
<td>276</td>
<td>472</td>
<td>582</td>
<td>463</td>
<td>406</td>
<td>-1,644</td>
<td>-1,833</td>
</tr>
<tr>
<td>Plastics in nonprimary form</td>
<td>1,516</td>
<td>1,699</td>
<td>2,114</td>
<td>1,834</td>
<td>1,529</td>
<td>1,983</td>
<td>1,715</td>
<td>1,656</td>
<td>1,710</td>
<td>1,682</td>
<td>1,678</td>
</tr>
<tr>
<td>Perfume, toiletries &amp; cleaning materials</td>
<td>1,634</td>
<td>1,995</td>
<td>2,343</td>
<td>1,995</td>
<td>1,863</td>
<td>2,005</td>
<td>2,278</td>
<td>1,940</td>
<td>1,246</td>
<td>794</td>
<td>483</td>
</tr>
<tr>
<td>Dyeing, tanning &amp; coloring materials</td>
<td>541</td>
<td>606</td>
<td>869</td>
<td>1,058</td>
<td>1,055</td>
<td>1,529</td>
<td>1,399</td>
<td>1,619</td>
<td>1,801</td>
<td>2,021</td>
<td>2,048</td>
</tr>
<tr>
<td>Fertilizers</td>
<td>1,834</td>
<td>1,676</td>
<td>1,696</td>
<td>1,714</td>
<td>1,618</td>
<td>796</td>
<td>357</td>
<td>643</td>
<td>422</td>
<td>316</td>
<td>-476</td>
</tr>
<tr>
<td>Other</td>
<td>4,463</td>
<td>5,305</td>
<td>6,560</td>
<td>6,132</td>
<td>6,261</td>
<td>6,944</td>
<td>6,857</td>
<td>6,556</td>
<td>7,038</td>
<td>7,446</td>
<td>7,074</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$20,419</td>
<td>$18,061</td>
<td>$20,501</td>
<td>$14,950</td>
<td>$9,783</td>
<td>$8,910</td>
<td>$3,449</td>
<td>-$2,464</td>
<td>-$6,897</td>
<td>-$82</td>
<td>-$5,169</td>
</tr>
</tbody>
</table>

NOTE: Totals may not sum because of rounding. SOURCE: Department of Commerce

### CANADA CHEMICAL TRADE BALANCE, BY PRODUCT
Chemical trade deficit decreased for the second consecutive year

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic chemicals</td>
<td>-$272.7</td>
<td>-$346.7</td>
<td>-$607.6</td>
<td>-$1,125.6</td>
<td>-$1,545.2</td>
<td>-$832.0</td>
<td>-$1,040.9</td>
<td>-$799.0</td>
<td>-$1,163.8</td>
<td>-$442.2</td>
<td>-$726.6</td>
</tr>
<tr>
<td>Resins, synthetic rubber &amp; fibers</td>
<td>77.6</td>
<td>-190.7</td>
<td>-69.3</td>
<td>-479.6</td>
<td>-577.8</td>
<td>-307.1</td>
<td>-47.9</td>
<td>-345.0</td>
<td>-194.0</td>
<td>130.4</td>
<td>138.7</td>
</tr>
<tr>
<td>Pesticides, fertilizers &amp; other agricultural chemicals</td>
<td>-106.5</td>
<td>-75.9</td>
<td>-94.9</td>
<td>-340.9</td>
<td>-110.6</td>
<td>-148.6</td>
<td>-287.2</td>
<td>-208.0</td>
<td>-312.8</td>
<td>-63.6</td>
<td>124.6</td>
</tr>
<tr>
<td>Pharmaceuticals &amp; medicine</td>
<td>-1,508.1</td>
<td>-1,640.1</td>
<td>-1,626.9</td>
<td>-2,174.2</td>
<td>-2,810.6</td>
<td>-3,391.7</td>
<td>-3,910.0</td>
<td>-4,555.5</td>
<td>-4,649.6</td>
<td>-4,561.3</td>
<td>-4,664.5</td>
</tr>
<tr>
<td>Other chemical products</td>
<td>-2,524.1</td>
<td>-2,551.4</td>
<td>-2,960.8</td>
<td>-3,498.1</td>
<td>-3,869.6</td>
<td>-4,038.0</td>
<td>-3,991.7</td>
<td>-4,409.4</td>
<td>-4,305.4</td>
<td>-4,158.5</td>
<td>-4,277.8</td>
</tr>
<tr>
<td>TOTAL</td>
<td>-$4,089.1</td>
<td>-$4,804.8</td>
<td>-$5,448.6</td>
<td>-$7,738.3</td>
<td>-$8,913.7</td>
<td>-$8,717.3</td>
<td>-$9,277.8</td>
<td>-$10,496.9</td>
<td>-$10,625.7</td>
<td>-$9,295.9</td>
<td>-$8,700.8</td>
</tr>
</tbody>
</table>

NOTE: Monetary statistics for all years were converted to U.S. dollars on the basis of the 2005 average exchange rate of $1.00 U.S. = $1.212 Canadian. Totals may not sum because of rounding. SOURCES: Statistics Canada, Industry Canada

### EUROPE CHEMICAL TRADE BALANCE
Italy and Spain remained stuck in trade deficits

<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td>$9,338</td>
<td>$8,789</td>
<td>$10,666</td>
<td>$9,127</td>
<td>$11,708</td>
<td>$13,419</td>
<td>$12,151</td>
<td>$15,205</td>
<td>$16,199</td>
<td>$16,993</td>
<td>$16,445</td>
</tr>
<tr>
<td>France</td>
<td>7,762</td>
<td>8,943</td>
<td>9,418</td>
<td>9,347</td>
<td>10,729</td>
<td>10,900</td>
<td>12,301</td>
<td>12,622</td>
<td>12,880</td>
<td>13,512</td>
<td>12,574</td>
</tr>
<tr>
<td>Germany</td>
<td>26,320</td>
<td>26,320</td>
<td>31,527</td>
<td>27,181</td>
<td>26,337</td>
<td>29,744</td>
<td>29,956</td>
<td>29,182</td>
<td>34,181</td>
<td>40,480</td>
<td>37,969</td>
</tr>
<tr>
<td>Italy</td>
<td>-10,430</td>
<td>-8,854</td>
<td>-10,033</td>
<td>-12,670</td>
<td>-10,625</td>
<td>-11,148</td>
<td>-10,182</td>
<td>-10,375</td>
<td>-12,154</td>
<td>-13,560</td>
<td>-13,196</td>
</tr>
<tr>
<td>Netherlands</td>
<td>10,831</td>
<td>10,441</td>
<td>11,346</td>
<td>10,882</td>
<td>11,380</td>
<td>14,903</td>
<td>15,101</td>
<td>16,575</td>
<td>17,201</td>
<td>19,013</td>
<td>na</td>
</tr>
<tr>
<td>Spain</td>
<td>-5,972</td>
<td>-6,076</td>
<td>-7,001</td>
<td>-7,797</td>
<td>-7,781</td>
<td>-1,797</td>
<td>-8,394</td>
<td>-9,286</td>
<td>-10,183</td>
<td>-10,689</td>
<td>-10,508</td>
</tr>
<tr>
<td>U.K.</td>
<td>5,815</td>
<td>6,929</td>
<td>8,360</td>
<td>9,314</td>
<td>9,232</td>
<td>9,420</td>
<td>10,389</td>
<td>9,776</td>
<td>10,039</td>
<td>8,235</td>
<td>6,208</td>
</tr>
</tbody>
</table>

NOTE: Monetary statistics for all years were converted from local currencies to U.S. dollars on the basis of the 2005 average exchange rates of $1.00 U.S. = 0.803 euros and 0.549 pounds sterling. na = not available. SOURCES: European Chemical Industry Council, national agencies