

# Uranium Marketing Annual Report

Data for 2009

Report Date: August 18, 2010

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## Uranium Purchases and Prices

Owners and operators of U.S. civilian nuclear power reactors purchased a total of 50 million pounds  $U_3O_8e$  (equivalent) of deliveries from U.S. suppliers and foreign suppliers during 2009, at a weighted-average price of \$45.86 per pound  $U_3O_8e$ . The 2009 total of 50 million pounds  $U_3O_8e$  decreased 7 percent compared with the 2008 total of 53 million pounds  $U_3O_8e$ . Fourteen percent of the  $U_3O_8e$  delivered in 2009 was U.S.-origin uranium at a weighted-average price of \$48.92 per pound. Foreign-origin uranium accounted for the remaining 86 percent of deliveries at a weighted-average price of \$45.35 per pound. Australian-origin and Canadian-origin uranium together accounted for 40 percent of the 50 million pounds. Uranium originating in Kazakhstan, Russia and Uzbekistan accounted for 29 percent and the remaining 17 percent originated from Brazil, Czech Republic, Namibia, Niger, and South Africa. Owners and operators of U.S. civilian nuclear power reactors purchased uranium for 2009 deliveries from 29 sellers, down from the 33 sellers in 2008. Owners and operators of U.S. civilian nuclear power reactors purchased uranium of several material types. Uranium concentrate was 69 percent of the deliveries in 2009; natural  $UF_6$  and enriched uranium were 31 percent. During 2009, 17 percent of the uranium was purchased under spot contracts at a weighted-average price of \$46.45 per pound. The remaining 83 percent was purchased under long-term contracts at a weighted-average price of \$45.74 per pound. Spot contracts are a one-time delivery (usually) of the entire contract to occur within one year of contract execution (signed date). Long-term contracts include those with one or more deliveries to occur after a year following the contract execution (signed date) and as such may reflect some agreements of short and medium terms as well as longer term.

## New and Future Uranium Contracts

In 2009, owners and operators of U.S. civilian nuclear power reactors signed a total of 86 new purchase contracts, of which 51 were new spot contracts and 35 were new long-term contracts with deliveries of 75 million pounds  $U_3O_8e$  from 2009 through 2019. For the 2009 deliveries of 8 million pounds, there were 40 new spot purchase contracts and 4 new long-term purchase contracts.

As of the end of 2009, the maximum uranium deliveries for 2010 through 2019 under existing purchase contracts for owners and operators of U.S. civilian nuclear power reactors totaled 261 million pounds  $U_3O_8e$ . Also as of the end of 2009, unfilled uranium market requirements for 2010 through 2019 totaled 242 million pounds  $U_3O_8e$ . These contracted deliveries and unfilled market requirements combined represent the maximum anticipated market requirements of 503 million pounds  $U_3O_8e$  over the ten year period for owners and operators of U.S. civilian nuclear power reactors.

### **Uranium Feed, Enrichment Services, Uranium Loaded**

In 2009, owners and operators of U.S. civilian nuclear power reactors delivered 52 million pounds  $U_3O_8e$  of natural uranium feed to U.S. and foreign enrichers. Fifty-two percent of the feed was delivered to U.S. enrichment suppliers and the remaining 48 percent was delivered to foreign enrichment suppliers. Seventeen million separative work units (SWU) were purchased under enrichment services contracts from 7 sellers in 2009. The average price paid by the owners and operators of U.S. civilian nuclear power reactors for the 17 million SWU was \$130.78 per SWU, an 8 percent increase compared with the 2008 average price of \$121.33 per SWU. In 2009, the U.S.-origin SWU share was 24 percent and foreign-origin SWU accounted for the remaining 76 percent. Russian-origin SWU was 32 percent of the total. France, Germany, Netherlands, and the United Kingdom had an aggregate share of 36 percent. Uranium in fuel assemblies loaded into U.S. civilian nuclear power reactors during 2009 contained 49 million pounds  $U_3O_8e$ , compared with 51 million pounds  $U_3O_8e$  loaded during 2008. Eleven percent of the uranium loaded during 2009 was U.S.-origin uranium, and 89 percent was foreign-origin uranium.

### **Uranium Foreign Purchases/Sales and Inventories**

U.S. suppliers (brokers, converters, enrichers, fabricators, producers, and traders) and owners and operators of U.S. civilian nuclear power reactors purchase uranium each year from foreign suppliers. Foreign purchases totaled 59 million pounds  $U_3O_8e$  in 2009, and the weighted-average price was \$41.23 per pound  $U_3O_8e$ . Also, U.S. suppliers and owners and operators of U.S. civilian nuclear power reactors sold uranium to foreign suppliers. Foreign sales totaled 23 million pounds  $U_3O_8e$  in 2009, and the weighted-average price was \$41.48 per pound  $U_3O_8e$ . The 2009 foreign sales increased 36 percent compared with the 2008 foreign sales total of 17 million pounds  $U_3O_8e$ . Year-end commercial uranium inventories represent ownership of uranium in different stages of the nuclear fuel cycle (in-process for conversion, enrichment, or fabrication) at domestic or foreign nuclear fuel facilities. Commercial uranium inventories owned at the end of the year by owners and operators of U.S. civilian nuclear power reactors in 2009 totaled 84 million pounds  $U_3O_8e$ , an increase of one percent from year-end 2008 and 29 percent from year-end 2005. Overall, total U.S. commercial inventories (including inventories owned by U.S. brokers, converter, enrichers, fabricators, producers, and traders) was 110 million pounds  $U_3O_8e$  as of the end of 2009. Uranium inventories owned by U.S. brokers and traders were 13 million pounds  $U_3O_8e$ . U.S. converter, enrichers, fabricators and producers owned 13 million pounds  $U_3O_8e$  of inventories at the end of 2009.

**Table S1a. Uranium Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors, 1994-2009**  
 (Million Pounds U<sub>3</sub>O<sub>8</sub> Equivalent)

Delivery Year	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
<b>Total Purchased</b>	<b>38.3</b>	<b>43.4</b>	<b>47.3</b>	<b>42.0</b>	<b>42.7</b>	<b>47.9</b>	<b>51.8</b>	<b>55.4</b>	<b>52.7</b>	<b>56.6</b>	<b>64.1</b>	<b>65.7</b>	<b>66.5</b>	<b>51.0</b>	<b>53.4</b>	<b>49.8</b>
Purchased from U.S. Producers	5.4	5.3	5.8	5.7	6.5	5.2	3.6	2.3	1.5	0.6	0.0	W	0.0	0.0	0.6	W
Purchased from U.S. Brokers and Traders	15.3	16.2	13.3	9.9	10.5	10.4	9.1	11.7	13.4	10.5	13.2	10.4	13.9	9.8	9.4	11.1
Purchased from other Owners and Operators of U.S. Civilian Nuclear Power Reactors, other U.S. Suppliers, (and U.S. Government for 2007) <sup>1</sup>	1.1	0.6	1.9	3.0	4.5	5.6	8.8	11.4	5.7	8.3	12.2	W	12.6	7.6	6.3	W
Purchased from Foreign Suppliers	16.5	21.4	26.4	23.4	21.3	26.8	30.4	30.0	32.2	37.2	38.7	39.4	40.0	33.5	37.2	36.8
<b>U.S.-Origin Uranium</b>	<b>7.7</b>	<b>5.2</b>	<b>8.3</b>	<b>8.1</b>	<b>7.2</b>	<b>11.4</b>	<b>13.3</b>	<b>13.2</b>	<b>6.2</b>	<b>10.2</b>	<b>12.3</b>	<b>11.0</b>	<b>10.8</b>	<b>4.0</b>	<b>7.7</b>	<b>7.1</b>
<b>Foreign-Origin Uranium</b>	<b>30.6</b>	<b>38.2</b>	<b>39.0</b>	<b>33.9</b>	<b>35.6</b>	<b>36.5</b>	<b>38.6</b>	<b>42.2</b>	<b>46.5</b>	<b>46.4</b>	<b>51.8</b>	<b>54.7</b>	<b>55.7</b>	<b>47.0</b>	<b>45.6</b>	<b>42.8</b>
<b>Spot Contracts<sup>2</sup></b>	<b>8.5</b>	<b>13.6</b>	<b>9.1</b>	<b>5.5</b>	<b>7.8</b>	<b>8.0</b>	<b>10.4</b>	<b>14.4</b>	<b>8.6</b>	<b>8.2</b>	<b>9.2</b>	<b>6.9</b>	<b>6.3</b>	<b>6.6</b>	<b>8.7</b>	<b>8.1</b>
<b>Short, Medium, and Long-Term Contracts<sup>3</sup></b>	<b>29.8</b>	<b>29.8</b>	<b>38.3</b>	<b>36.5</b>	<b>34.9</b>	<b>40.0</b>	<b>39.1</b>	<b>40.0</b>	<b>41.4</b>	<b>46.7</b>	<b>53.3</b>	<b>58.8</b>	<b>59.4</b>	<b>43.7</b>	<b>42.8</b>	<b>41.0</b>

**Table S1b. Weighted-Average Price of Uranium Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors, 1994-2009**  
 (Dollars per Pound U<sub>3</sub>O<sub>8</sub> Equivalent)

Delivery Year	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
<b>Total Purchased (Weighted-Average Price)</b>	<b>10.40</b>	<b>11.25</b>	<b>14.12</b>	<b>12.88</b>	<b>12.14</b>	<b>11.63</b>	<b>11.04</b>	<b>10.15</b>	<b>10.36</b>	<b>10.81</b>	<b>12.61</b>	<b>14.36</b>	<b>18.61</b>	<b>32.78</b>	<b>45.88</b>	<b>45.86</b>
Purchased from U.S. Producers	13.72	14.84	14.20	13.60	13.61	13.93	14.81	13.26	13.03	14.17	--	W	--	--	75.16	W
Purchased from U.S. Brokers and Traders	9.34	9.83	13.36	12.31	11.95	11.54	11.28	10.44	10.21	11.05	12.08	13.76	20.49	34.10	39.62	41.88
Purchased from other Owners and Operators of U.S. Civilian Nuclear Power Reactors, other U.S. Suppliers, (and U.S. Government for 2007) <sup>1</sup>	8.04	12.52	14.98	W	W	W	10.45	9.98	W	10.16	11.30	W	W	W	W	W
Purchased from Foreign Suppliers	10.43	11.40	14.45	12.91	11.97	11.47	10.65	9.86	10.37	10.82	13.15	14.70	18.62	32.36	48.49	46.68
<b>U.S.-Origin Uranium (Weighted-Average Price)</b>	<b>12.08</b>	<b>14.20</b>	<b>14.62</b>	<b>13.36</b>	<b>13.37</b>	<b>12.24</b>	<b>11.52</b>	<b>10.50</b>	<b>10.89</b>	<b>10.81</b>	<b>11.87</b>	<b>15.11</b>	<b>17.85</b>	<b>28.89</b>	<b>59.55</b>	<b>48.92</b>
<b>Foreign-Origin Uranium (Weighted-Average Price)</b>	<b>9.97</b>	<b>10.84</b>	<b>14.02</b>	<b>12.78</b>	<b>11.90</b>	<b>11.47</b>	<b>10.88</b>	<b>10.05</b>	<b>10.29</b>	<b>10.81</b>	<b>12.76</b>	<b>14.21</b>	<b>18.75</b>	<b>33.05</b>	<b>43.47</b>	<b>45.35</b>
<b>Spot Contracts<sup>2</sup> (Weighted-Average Price)</b>	<b>9.01</b>	<b>10.30</b>	<b>14.22</b>	<b>11.61</b>	<b>10.56</b>	<b>9.52</b>	<b>8.54</b>	<b>7.92</b>	<b>9.29</b>	<b>10.10</b>	<b>14.77</b>	<b>20.04</b>	<b>39.48</b>	<b>88.25</b>	<b>66.95</b>	<b>46.45</b>
<b>Short, Medium, and Long-Term Contracts<sup>3</sup> (Weighted-Average Price)</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>11.70</b>	<b>10.96</b>	<b>10.58</b>	<b>10.94</b>	<b>12.24</b>	<b>13.70</b>	<b>16.38</b>	<b>24.45</b>	<b>41.59</b>	<b>45.74</b>

<sup>1</sup> Includes purchases between owners and operators of U.S. civilian nuclear power reactors along with purchases from other U.S. suppliers which are U.S. converters, enrichers, and fabricators.

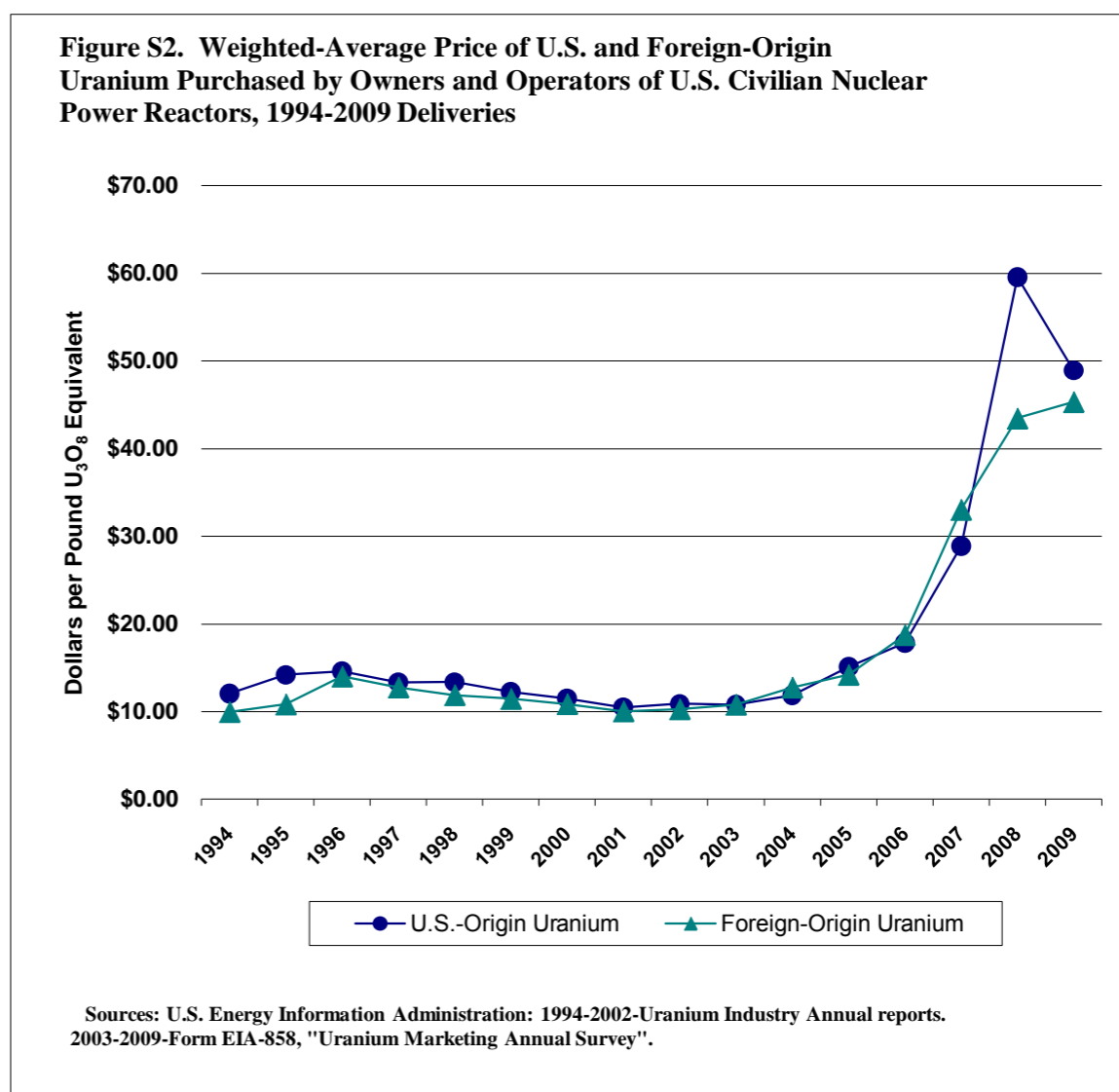
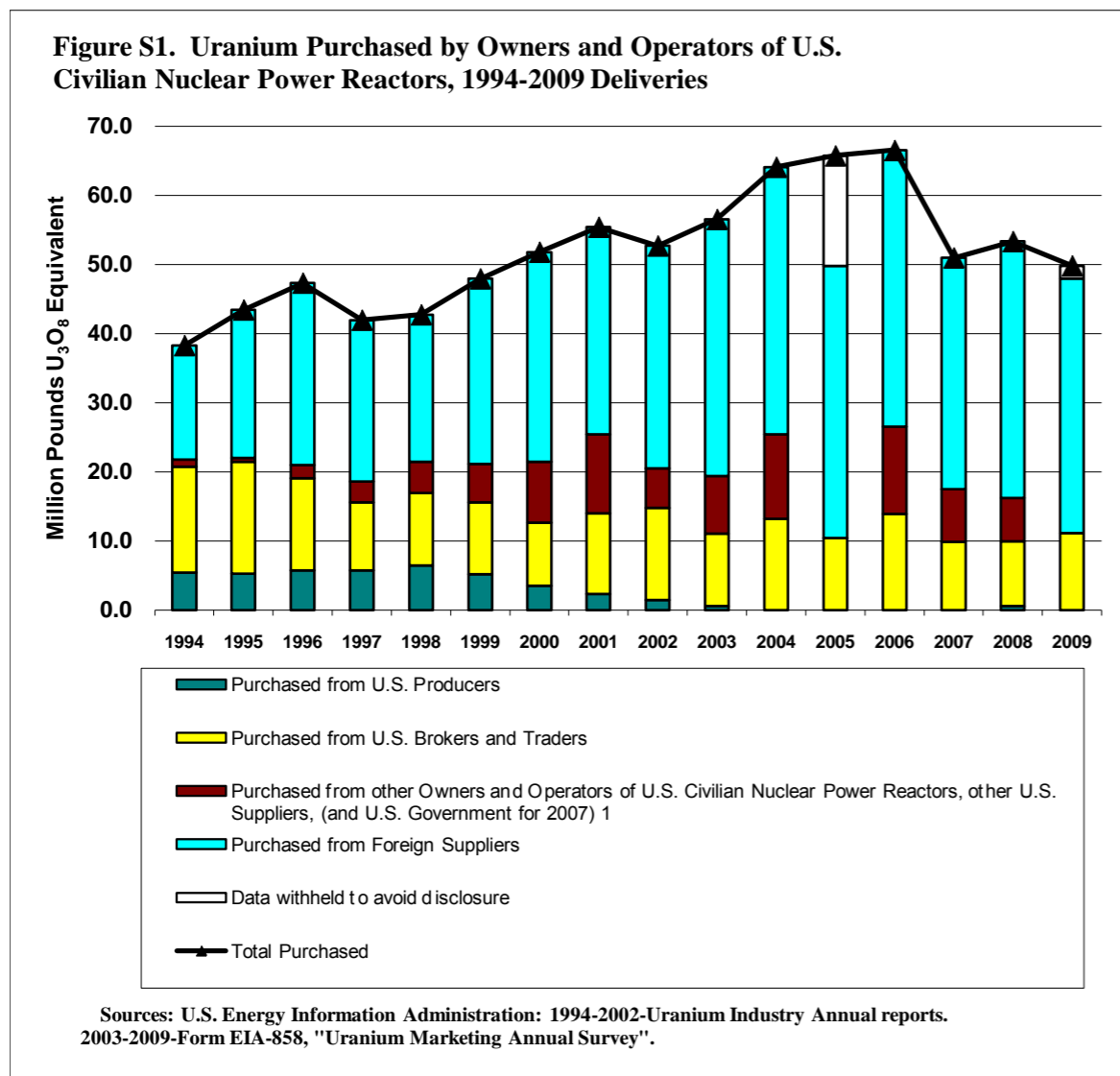
<sup>2</sup> Spot Contract: A one-time delivery (usually) of the entire contract to occur within one year of contract execution (signed date).

<sup>3</sup> Short, Medium, and Long-Term Contracts: One or more deliveries to occur after a year following contract execution (signed date).

-- = Not applicable. W = Data withheld to avoid disclosure of individual company data. NA = Not available.

Notes: "Other U.S. Suppliers" are U.S. converters, enrichers, and fabricators. Totals may not equal sum of components because of independent rounding. Weighted-average prices are not adjusted for inflation.

Sources: U.S. Energy Information Administration: 1994-2002-Uranium Industry Annual, Tables 10, 11 and 16. 2003-2009-Form EIA-858, "Uranium Marketing Annual Survey".



**Table 1. Uranium Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Supplier and Delivery Year, 2005-2009**

(Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent; Dollars per Pound U<sub>3</sub>O<sub>8</sub> Equivalent)

Deliveries	2005	2006	2007	2008	2009
<b>Purchased from U.S. Producers</b>					
Purchases of U.S.-Origin and Foreign-Origin Uranium	W	0	0	562	W
Weighted-Average Price	W	--	--	75.16	W
<b>Purchased from U.S. Brokers and Traders</b>					
Purchases of U.S.-Origin and Foreign-Origin Uranium	10,413	13,920	9,849	9,373	11,125
Weighted-Average Price	13.76	20.49	34.10	39.62	41.88
<b>Purchased from other Owners and Operators of U.S. Civilian Nuclear Power Reactors</b>					
Purchases	0	W	W	W	W
Weighted-Average Price	--	W	W	W	W
<b>Purchased from other U.S. Suppliers (and U.S. Government for 2007)</b>					
Purchases of U.S.-Origin and Foreign-Origin Uranium	W	W	W	W	W
Weighted-Average Price	W	W	W	W	W
<b>Purchased from Foreign Suppliers</b>					
Purchases of U.S.-Origin and Foreign-Origin Uranium	39,376	39,972	33,523	37,156	36,823
Weighted-Average Price	14.70	18.62	32.36	48.49	46.68
<b>Total Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors</b>					
Purchases of U.S.-Origin and Foreign-Origin Uranium	65,749	66,539	50,983	53,353	49,830
Weighted-Average Price	14.36	18.61	32.78	45.88	45.86

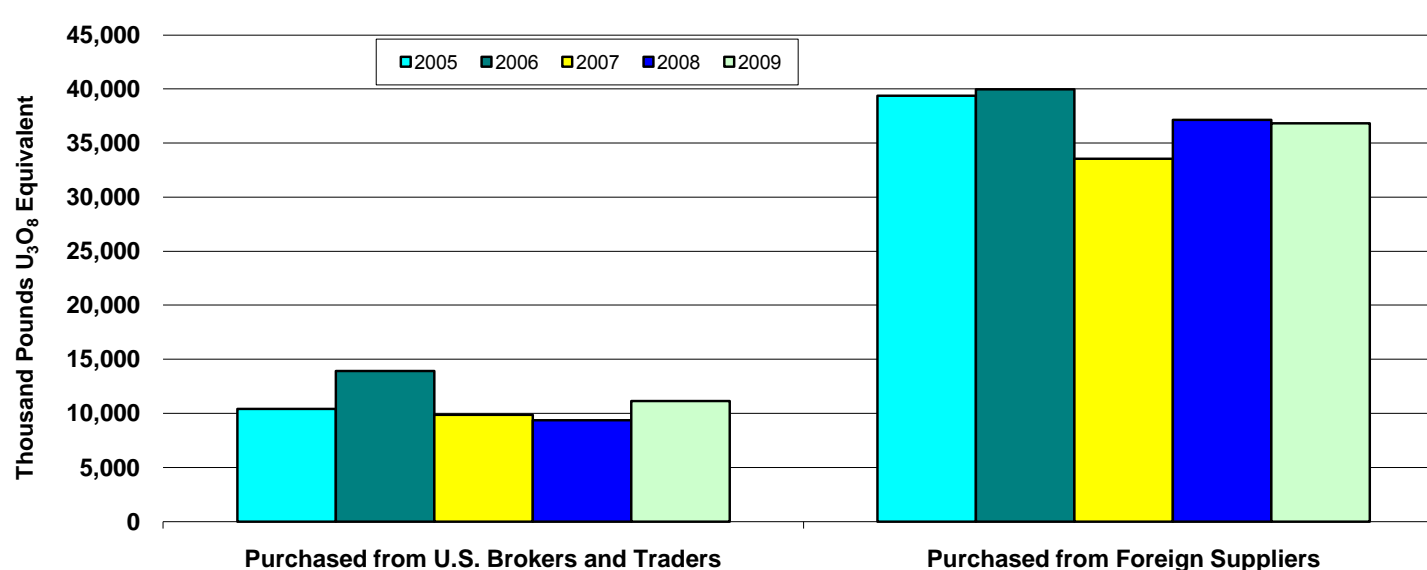
W = Data withheld to avoid disclosure of individual company data.

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Notes: "Other U.S. Suppliers" are U.S. converters, enrichers, and fabricators. Totals may not equal sum of components because of independent rounding. Weighted-average prices are not adjusted for inflation.

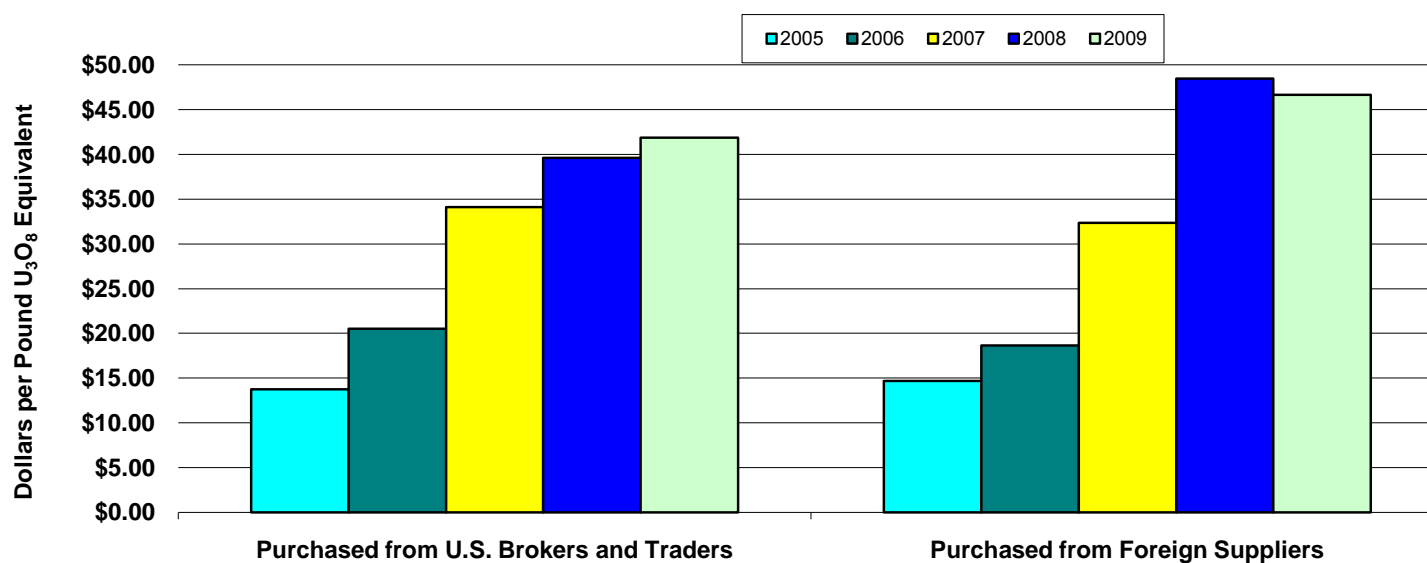
Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2005-2009).

**Figure 1. Uranium Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Supplier and Delivery Year, 2005-2009**



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2005-2009).

**Figure 2. Weighted-Average Price of Uranium Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Supplier and Delivery Year, 2005-2009**



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2005-2009).

**Table 2. Uranium Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Origin and Delivery Year, 2005-2009**

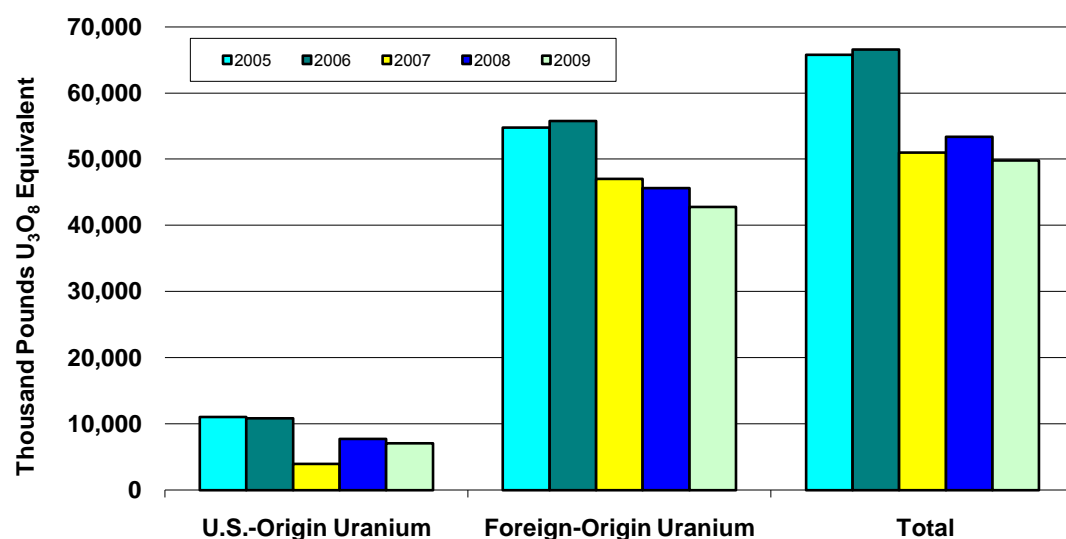
(Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent; Dollars per Pound U<sub>3</sub>O<sub>8</sub> Equivalent)

Deliveries	2005	2006	2007	2008	2009
<b>U.S.-Origin Uranium</b>					
Purchases	11,007	10,807	3,973	7,720	7,053
Weighted-Average Price	15.11	17.85	28.89	59.55	48.92
<b>Foreign-Origin Uranium</b>					
Purchases	54,742	55,732	47,011	45,633	42,777
Weighted-Average Price	14.21	18.75	33.05	43.47	45.35
<b>Total</b>					
Purchases	<b>65,749</b>	<b>66,539</b>	<b>50,983</b>	<b>53,353</b>	<b>49,830</b>
Weighted-Average Price	<b>14.36</b>	<b>18.61</b>	<b>32.78</b>	<b>45.88</b>	<b>45.86</b>

Notes: Totals may not equal sum of components because of independent rounding. Weighted-average prices are not adjusted for inflation.

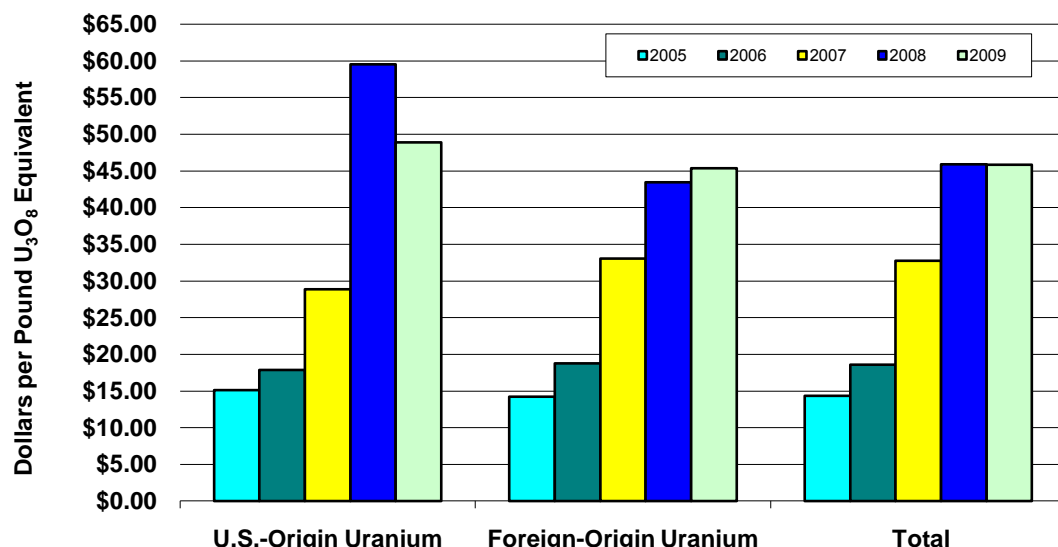
Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2005-2009).

**Figure 3. Uranium Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Origin and Delivery Year, 2005-2009**



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2005-2009).

**Figure 4. Weighted-Average Price of Uranium Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Origin and Delivery Year, 2005-2009**



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2005-2009).

**Table 3. Uranium Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Origin Country and Delivery Year, 2005-2009**  
 (Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent; Dollars per Pound U<sub>3</sub>O<sub>8</sub> Equivalent)

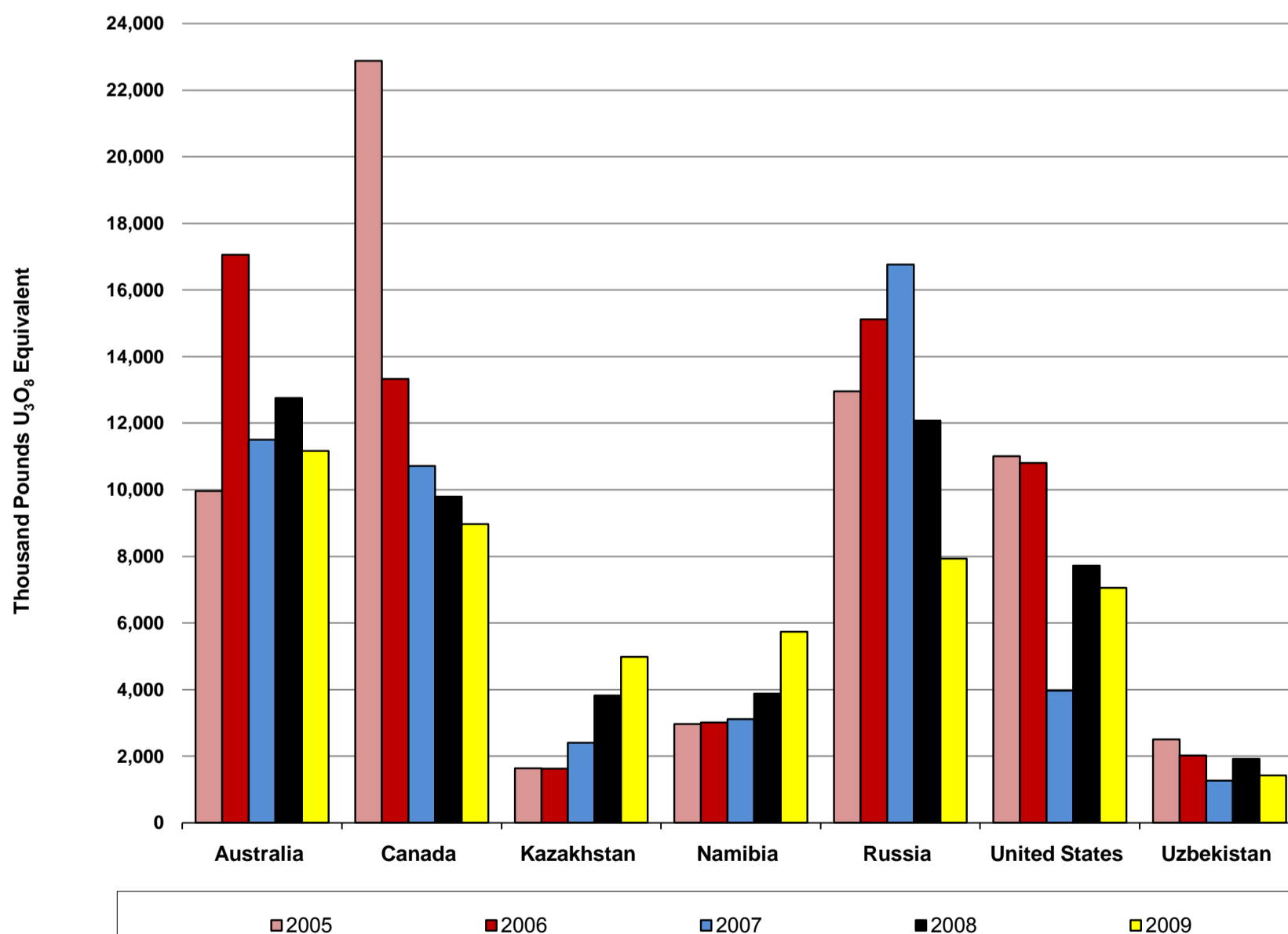
Origin Country	Deliveries in 2005		Deliveries in 2006		Deliveries in 2007		Deliveries in 2008		Deliveries in 2009	
	Purchases	Weighted-Average Price	Purchases	Weighted-Average Price	Purchases	Weighted-Average Price	Purchases	Weighted-Average Price	Purchases	Weighted-Average Price
Australia	9,957	15.60	17,052	21.23	11,507	30.35	12,758	41.59	11,164	52.25
Brazil	0	--	822	19.61	W	W	W	W	W	W
Canada	22,881	14.35	13,325	17.61	10,717	32.89	9,791	48.72	8,975	42.25
China	W	W	W	W	0	--	0	--	0	--
Czech Republic	0	--	W	W	347	77.02	W	W	W	W
Germany	W	W	0	--	0	--	0	--	0	--
Kazakhstan	1,639	14.32	1,628	25.74	2,407	57.36	3,818	60.61	4,985	43.41
Kyrgyzstan	0	--	0	--	W	W	0	--	0	--
Namibia	2,963	16.82	3,009	18.46	3,115	25.24	3,880	54.79	5,732	47.30
Niger	0	--	W	W	W	W	W	W	2,001	47.55
Russia	12,959	12.92	15,116	16.34	16,766	32.04	12,080	27.64	7,938	37.98
South Africa	573	16.51	725	20.69	W	W	783	27.50	W	W
Tajikistan	W	W	0	--	0	--	0	--	0	--
Ukraine	0	--	W	W	W	W	0	--	0	--
United Kingdom	0	--	W	W	0	--	W	W	0	--
Uzbekistan	2,505	11.85	2,020	15.89	1,263	24.42	1,923	56.06	1,424	46.65
<b>Total Foreign</b>	<b>54,742</b>	<b>14.21</b>	<b>55,732</b>	<b>18.75</b>	<b>47,011</b>	<b>33.05</b>	<b>45,633</b>	<b>43.47</b>	<b>42,777</b>	<b>45.35</b>
United States	11,007	15.11	10,807	17.85	3,973	28.89	7,720	59.55	7,053	48.92
<b>Total Purchases</b>	<b>65,749</b>	<b>14.36</b>	<b>66,539</b>	<b>18.61</b>	<b>50,983</b>	<b>32.78</b>	<b>53,353</b>	<b>45.88</b>	<b>49,830</b>	<b>45.86</b>

W = Data withheld to avoid disclosure of individual company data. -- = Not applicable.

Notes: Totals may not equal sum of components because of independent rounding. Weighted-average prices are not adjusted for inflation.

Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2005-2009).

**Figure 5. Uranium Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Selected Country Origin and Delivery Year, 2005-2009**



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2005-2009).

**Table 4. Uranium Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Origin and Material Type, 2009 Deliveries**  
 (Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent; Dollars per Pound U<sub>3</sub>O<sub>8</sub> Equivalent)

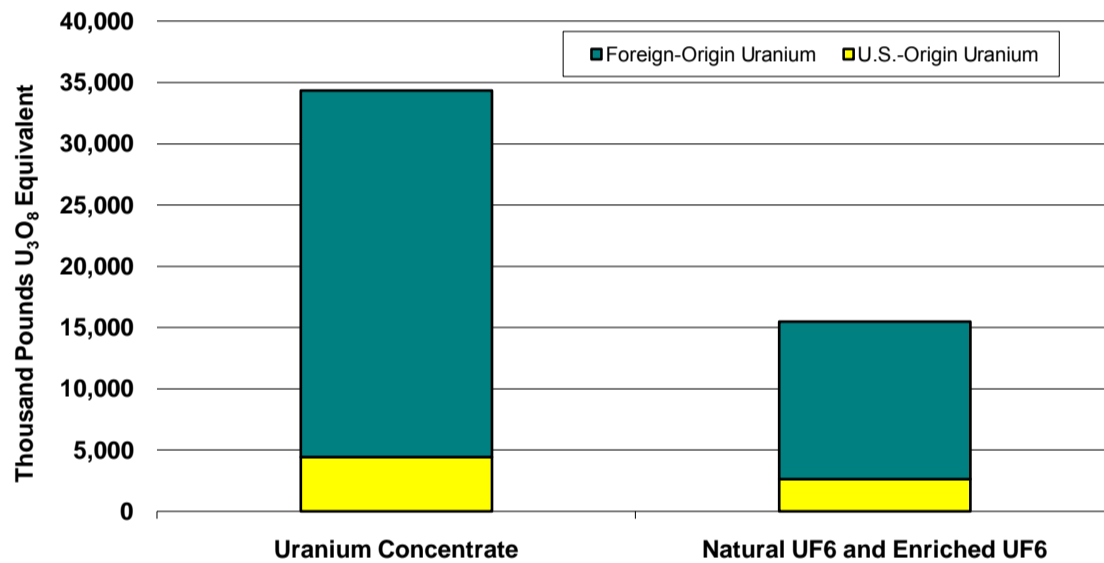
Deliveries	Uranium Concentrate	Natural UF <sub>6</sub>	Enriched UF <sub>6</sub>	Natural UF <sub>6</sub> and Enriched UF <sub>6</sub>	Total
<b>U.S.-Origin Uranium</b>					
Purchases	4,414	W	W	2,639	7,053
Weighted-Average Price	45.50	W	W	54.63	48.92
<b>Foreign-Origin Uranium</b>					
Purchases	29,938	W	W	12,839	42,777
Weighted-Average Price	46.41	W	W	42.72	45.35
<b>Total</b>					
Purchases	<b>34,352</b>	<b>W</b>	<b>W</b>	<b>15,478</b>	<b>49,830</b>
Weighted-Average Price	<b>46.30</b>	<b>W</b>	<b>W</b>	<b>44.84</b>	<b>45.86</b>

W = Data withheld to avoid disclosure of individual company data.

Notes: Totals may not equal sum of components because of independent rounding. Weighted-average prices are not adjusted for inflation. Natural UF<sub>6</sub> is uranium hexafluoride. The natural UF<sub>6</sub> and enriched UF<sub>6</sub> quantity represents only the U<sub>3</sub>O<sub>8</sub> equivalent uranium-component quantity specified in the contract for each delivery of natural UF<sub>6</sub> and enriched UF<sub>6</sub>. The natural UF<sub>6</sub> and enriched UF<sub>6</sub> weighted-average price represent only the U<sub>3</sub>O<sub>8</sub> equivalent uranium-component price specified in the contract for each delivery of natural UF<sub>6</sub> and enriched UF<sub>6</sub>, and does not include the conversion service and enrichment service components.

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2009).

**Figure 6. Uranium Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Material Type, 2009 Deliveries**



Source: U.S. Energy Information Administration; Form EIA-858 "Uranium Marketing Annual Survey" (2009).

**Table 5. Average Price and Quantity for Uranium Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Pricing Mechanisms and Delivery Year, 2008-2009**  
(Dollars per Pound U<sub>3</sub>O<sub>8</sub> Equivalent; Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent)

Pricing Mechanisms	Domestic Purchases <sup>1</sup>		Foreign Purchases <sup>2</sup>		Total Purchases	
	2008	2009	2008	2009	2008	2009
<b>Contract-Specified (Fixed and Base-Escalated) Pricing</b>						
Weighted-Average Price	37.89	41.96	36.70	35.34	37.27	38.76
Quantity with Reported Price	15,249	13,162	16,456	12,332	31,706	25,494
<b>Spot-Market Pricing</b>						
Weighted-Average Price	65.66	45.45	63.49	56.12	64.01	54.44
Quantity with Reported Price	2,486	1,304	7,774	6,986	10,260	8,290
<b>Other Pricing</b>						
Weighted-Average Price	55.62	57.85	54.80	52.09	55.01	53.01
Quantity with Reported Price	2,402	2,458	7,139	12,921	9,541	15,380
<b>All Pricing Mechanisms</b>						
Weighted-Average Price	43.43	44.53	47.46	46.55	45.88	45.86
Quantity with Reported Price	20,137	16,924	31,369	32,239	51,506	49,163
Total Quantity	20,417	17,591	32,936	32,239	53,353	49,830

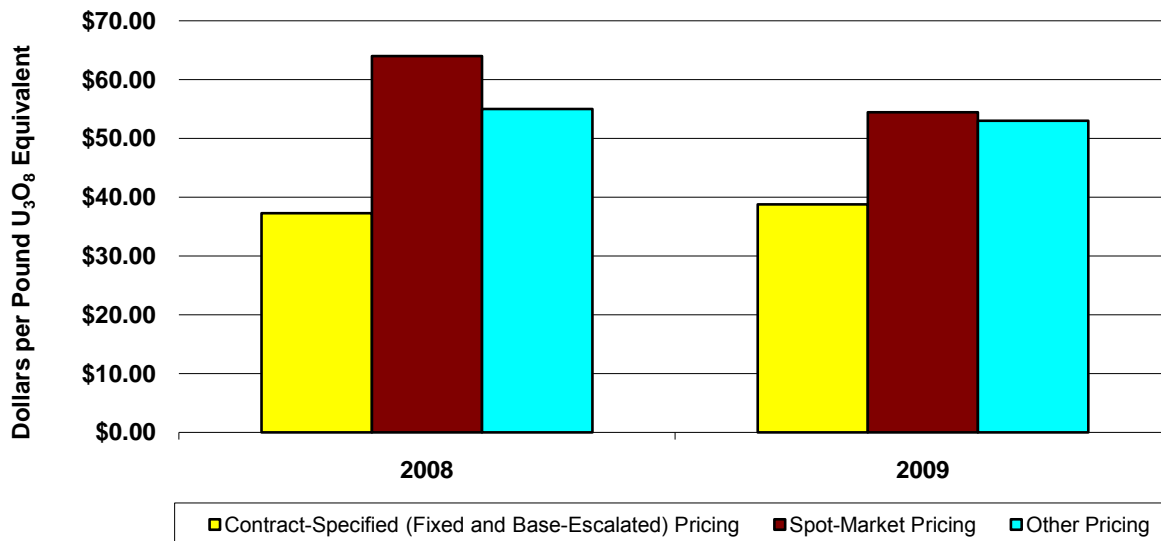
<sup>1</sup> A uranium purchase of both U.S. origin uranium or from a firm located in the United States.

<sup>2</sup> A uranium purchase of foreign-origin uranium from a firm located outside of the United States.

Notes: Totals may not equal sum of components because of independent rounding. Weighted-average prices are not adjusted for inflation.

Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2008-2009).

**Figure 7. Average Price for Uranium Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Pricing Mechanisms and Delivery Year, 2008-2009**



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2008-2009).



**Table 6a. Uranium Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors Ranked by Price and Distributed by Quantity, 2007-2009 Deliveries**  
(Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent; Dollars per Pound U<sub>3</sub>O<sub>8</sub> Equivalent)

Quantity Distribution <sup>1</sup>	Deliveries in 2007		Deliveries in 2008		Deliveries in 2009	
	Quantity with Reported Price	Weighted-Average Price	Quantity with Reported Price	Weighted-Average Price	Quantity with Reported Price	Weighted-Average Price
First	6,286	10.41	6,438	11.40	6,145	17.84
Second	6,286	11.94	6,438	17.55	6,145	31.26
Third	6,286	13.29	6,438	28.99	6,145	39.57
Fourth	6,286	15.22	6,438	37.64	6,145	43.80
Fifth	6,286	18.69	6,438	48.20	6,145	46.71
Sixth	6,286	36.67	6,438	61.43	6,145	53.67
Seventh	6,286	55.20	6,438	72.14	6,145	62.46
Eighth	6,286	100.79	6,438	89.71	6,145	71.56
<b>Total</b>	<b>50,284</b>	<b>32.78</b>	<b>51,506</b>	<b>45.88</b>	<b>49,163</b>	<b>45.86</b>

<sup>1</sup> Distribution divides total quantity of uranium delivered (with a price) into eight distributions by price (sorted from lowest to highest) and provides the quantity-weighted average price for each distribution.

Notes: Totals may not equal sum of components because of independent rounding. Weighted-average prices are not adjusted for inflation.

Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2007-2009).

**Table 6b. Uranium Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors Ranked by Price and Distributed by Purchaser, 2007-2009 Deliveries (Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent; Dollars per Pound U<sub>3</sub>O<sub>8</sub> Equivalent)**

Distribution of Purchasers	Deliveries in 2007			Deliveries in 2008			Deliveries in 2009		
	Number of Purchasers	Quantity with Reported Price	Weighted-Average Price	Number of Purchasers	Quantity with Reported Price	Weighted-Average Price	Number of Purchasers	Quantity with Reported Price	Weighted-Average Price
First	8	18,501	17.28	8	12,998	28.20	9	18,835	35.28
Second	8	13,609	25.55	8	12,968	40.79	8	10,173	44.42
Third	8	8,167	43.19	8	15,684	51.33	8	11,270	50.19
Fourth	8	10,007	62.76	8	9,855	67.23	8	8,886	64.44
<b>Total</b>	<b>32</b>	<b>50,284</b>	<b>32.78</b>	<b>32</b>	<b>51,506</b>	<b>45.88</b>	<b>33</b>	<b>49,163</b>	<b>45.86</b>

Notes: Totals may not equal sum of components because of independent rounding. Weighted-average prices are not adjusted for inflation.  
 Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2007-2009).

**Table 7. Uranium Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Contract Type and Material Type, 2009 Deliveries**  
 (Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent; Dollars per Pound U<sub>3</sub>O<sub>8</sub> Equivalent)

Material Type	Spot Contracts <sup>1</sup>		Long-Term Contracts <sup>2</sup>		Total	
	Quantity with Reported Price	Weighted-Average Price	Quantity with Reported Price	Weighted-Average Price	Quantity with Reported Price	Weighted-Average Price
U <sub>3</sub> O <sub>8</sub>	4,835	46.35	29,517	46.29	34,352	46.30
Natural UF <sub>6</sub>	W	W	W	W	W	W
Enriched UF <sub>6</sub>	W	W	W	W	W	W
Natural UF <sub>6</sub> and Enriched UF <sub>6</sub>	3,311	46.58	11,500	44.34	14,811	44.84
<b>Total</b>	<b>8,146</b>	<b>46.45</b>	<b>41,017</b>	<b>45.74</b>	<b>49,163</b>	<b>45.86</b>

W = Data withheld to avoid disclosure of individual company data.

<sup>1</sup> A one-time delivery (usually) of the entire contract to occur within one year of contract execution (signed date).

<sup>2</sup> One or more deliveries to occur after a year following contract execution (signed date).

Notes: Totals may not equal sum of components because of independent rounding. Weighted-average prices are not adjusted for inflation. Natural UF<sub>6</sub> is uranium hexafluoride. The natural UF<sub>6</sub> and enriched UF<sub>6</sub> quantity represents only the U<sub>3</sub>O<sub>8</sub> equivalent uranium-component quantity specified in the contract for each delivery of natural UF<sub>6</sub> and enriched UF<sub>6</sub>. The natural UF<sub>6</sub> and enriched UF<sub>6</sub> weighted-average price represent only the U<sub>3</sub>O<sub>8</sub> equivalent uranium-component price specified in the contract for each delivery of natural UF<sub>6</sub> and enriched UF<sub>6</sub>, and does not include the conversion service and enrichment service components.

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2009).

**Table 8. Contracts Signed in 2009 by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Contract Type**

(Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent; Dollars per Pound U<sub>3</sub>O<sub>8</sub> Equivalent)

Purchase Contract Type (Signed in 2009)	Quantity of Deliveries Received in 2009	Weighted-Average Price	Number of Purchase Contracts for Deliveries in 2009
Spot	W	W	40
Long-Term	W	W	4
<b>Total</b>	<b>8,428</b>	<b>44.56</b>	<b>44</b>

W = Data withheld to avoid disclosure of individual company data.

Notes: Totals may not equal sum of components because of independent rounding. Weighted-average prices are not adjusted for inflation.

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2009).

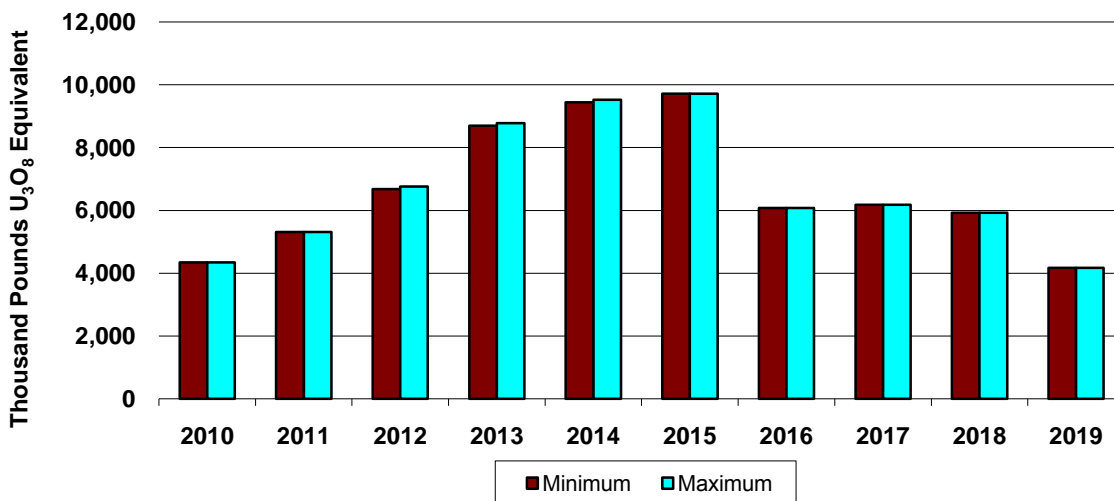
**Table 9. Contracted Purchases of Uranium by Owners and Operators of U.S. Civilian Nuclear Power Reactors, Signed in 2009, by Delivery Year, 2010-2019 (Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent)**

Year of Delivery	Minimum	Maximum
2010	4,347	4,347
2011	5,312	5,312
2012	6,681	6,756
2013	8,701	8,776
2014	9,446	9,521
2015	9,715	9,715
2016	6,077	6,077
2017	6,183	6,183
2018	5,924	5,924
2019	4,169	4,169
<b>Total</b>	<b>66,554</b>	<b>66,779</b>

Note: Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2009).

**Figure 8. Contracted Purchases of Uranium by Owners and Operators of U.S. Civilian Nuclear Power Reactors, Signed in 2009, by Delivery Year, 2010-2019**



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2009).

**Table 10. Contracted Purchases of Uranium from Suppliers by Owners and Operators of U.S. Civilian Nuclear Power Reactors, in Effect at the End of 2009, by Delivery Year, 2010-2019  
 (Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent)**

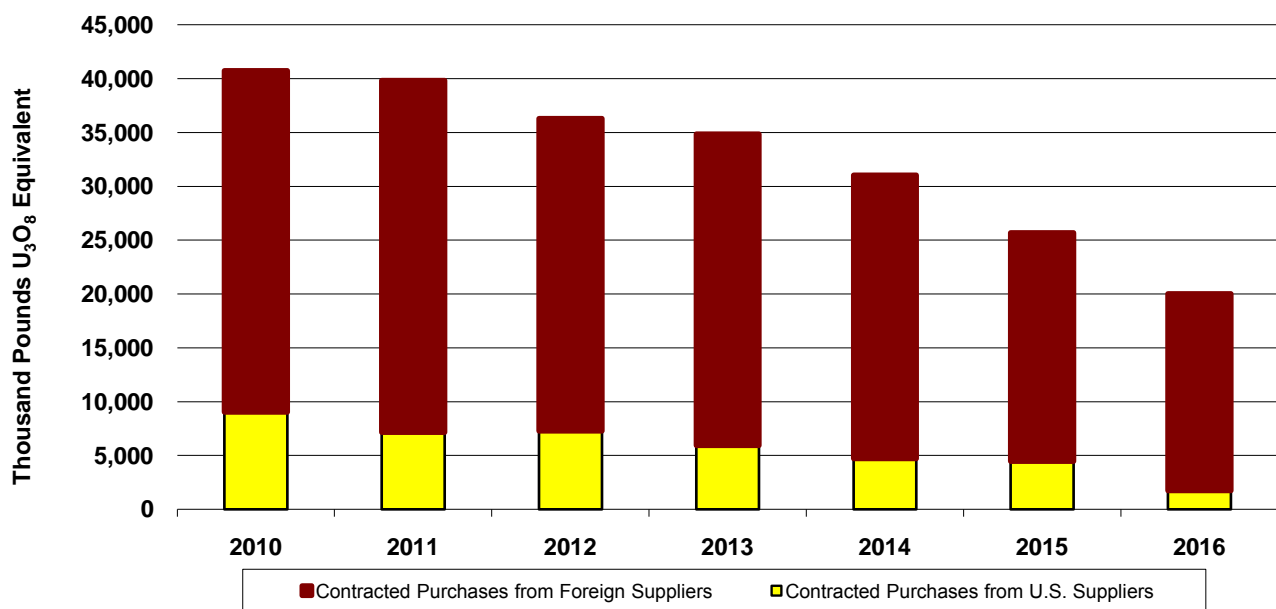
Year of Delivery	Contracted Purchases from U.S. Suppliers		Contracted Purchases from Foreign Suppliers		Contracted Purchases from All Suppliers	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
2010	8,951	9,029	30,678	31,709	39,629	40,739
2011	7,097	7,153	31,661	32,683	38,758	39,836
2012	7,107	7,276	27,885	29,021	34,992	36,296
2013	5,769	5,922	27,687	28,924	33,457	34,846
2014	4,552	4,704	24,633	26,321	29,185	31,025
2015	4,308	4,460	20,206	21,231	24,514	25,691
2016	1,677	1,729	17,186	18,275	18,863	20,004
2017	W	W	W	W	14,468	14,722
2018	W	W	W	W	10,714	10,863
2019	W	W	W	W	6,887	6,961
<b>Total</b>	<b>41,856</b>	<b>42,720</b>	<b>209,609</b>	<b>218,262</b>	<b>251,465</b>	<b>260,982</b>

W = Data withheld to avoid disclosure of individual company data.

Note: Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2009).

**Figure 9. Maximum Contracted Purchases of Uranium from Suppliers by Owners and Operators of U.S. Civilian Nuclear Power Reactors, in Effect at the End of 2009, by Delivery Year, 2010-2016**



Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2009).

**Table 11. Unfilled Uranium Market Requirements of Owners and Operators of U.S. Civilian Nuclear Power Reactors, 2009-2019**  
 (Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent)

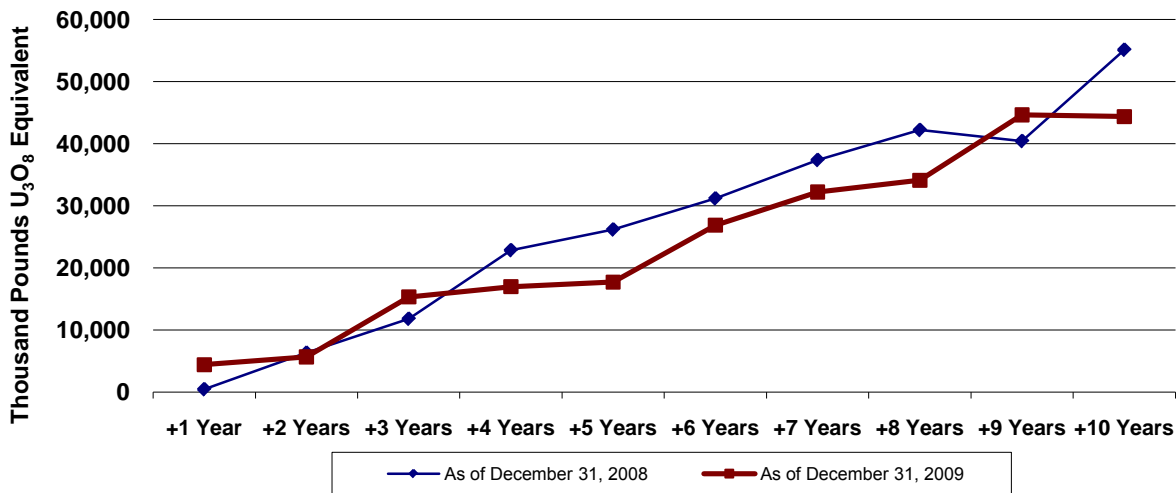
Year	As of December 31, 2008		As of December 31, 2009	
	Annual	Cumulative	Annual	Cumulative
2009	470	470	-	--
2010	6,347	6,817	4,425	4,425
2011	11,814	18,631	5,688	10,113
2012	22,864	41,495	15,342	25,455
2013	26,194	67,690	16,988	42,443
2014	31,195	98,885	17,725	60,167
2015	37,386	136,271	26,892	87,059
2016	42,220	178,491	32,238	119,297
2017	40,437	218,928	34,113	153,409
2018	55,136	274,064	44,661	198,070
2019	-	--	44,374	242,444

- = No data reported. -- = Not applicable.

Note: Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2008-2009).

**Figure 10. Annual Unfilled Uranium Market Requirements of Owners and Operators of U.S. Civilian Nuclear Power Reactors, as of 12/31/2008 and 12/31/2009**



Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2008-2009).

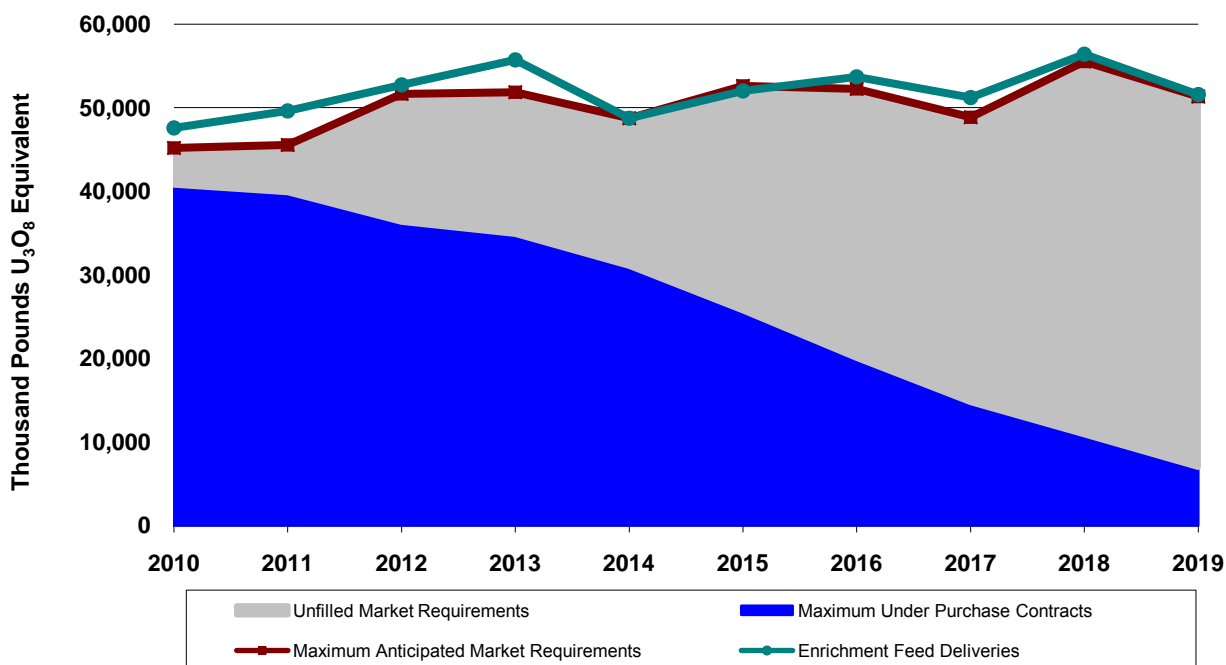
**Table 12. Maximum Anticipated Uranium Market Requirements of Owners and Operators of U.S. Civilian Nuclear Power Reactors, 2010-2019, as of December 31, 2009**  
 (Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent)

Year	Maximum Under Purchase Contracts	Unfilled Market Requirements	Maximum Anticipated Market Requirements	Enrichment Feed Deliveries
2010	40,739	4,425	45,164	47,567
2011	39,836	5,688	45,523	49,621
2012	36,296	15,342	51,638	52,712
2013	34,846	16,988	51,834	55,712
2014	31,025	17,725	48,749	48,746
2015	25,691	26,892	52,583	52,020
2016	20,004	32,238	52,242	53,686
2017	14,722	34,113	48,834	51,217
2018	10,863	44,661	55,525	56,379
2019	6,961	44,374	51,334	51,575
<b>Total</b>	<b>260,982</b>	<b>242,444</b>	<b>503,426</b>	<b>519,237</b>

Note: Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2009).

**Figure 11. Maximum Anticipated Uranium Market Requirements of Owners and Operators of U.S. Civilian Nuclear Power Reactors, 2010-2019, as of December 31, 2009**



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2009).



**Table S2. Uranium Feed Deliveries, Enrichment Services, and Uranium Loaded by Owners and Operators of U.S. Civilian Nuclear Power Reactors, 1994-2009**

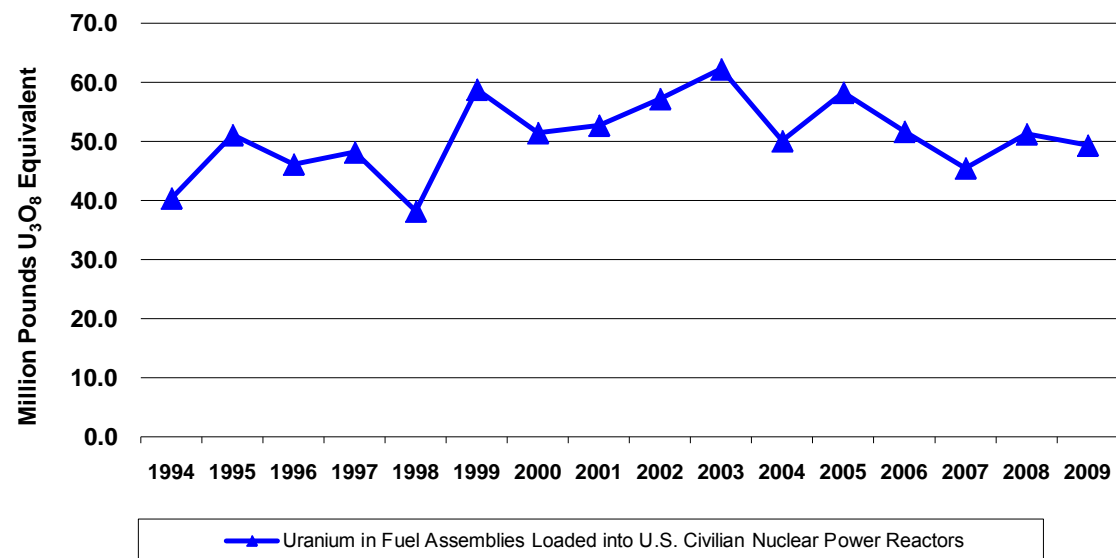
Million Pounds U <sub>3</sub> O <sub>8</sub> Equivalent	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Feed Deliveries by Owners and Operators of U.S. Civilian Nuclear Power Reactors	37.6	44.3	49.1	40.3	40.6	43.9	47.8	47.3	54.7	49.3	53.4	52.9	56.6	49.0	43.4	51.9
Uranium in Fuel Assemblies Loaded into U.S. Civilian Nuclear Power Reactors	40.4	51.1	46.2	48.2	38.2	58.8	51.5	52.7	57.2	62.3	50.1	58.3	51.7	45.5	51.3	49.4
<b>Million Separative Work Units (SWU)</b>																
U.S.-Origin Enrichment Services Purchased	7.5	6.7	8.0	6.0	5.7	4.6	5.2	1.3	1.7	1.7	1.4	1.1	1.6	1.5	1.9	4.1
Foreign-Origin Enrichment Services Purchased	1.7	2.8	3.2	2.9	4.4	5.4	6.6	9.1	9.8	10.3	10.4	10.3	11.8	12.7	10.7	13.1
<b>Total Purchased Enrichment Services</b>	<b>9.2</b>	<b>9.5</b>	<b>11.2</b>	<b>8.9</b>	<b>10.1</b>	<b>10.0</b>	<b>11.8</b>	<b>10.4</b>	<b>11.5</b>	<b>12.0</b>	<b>11.8</b>	<b>11.4</b>	<b>13.4</b>	<b>14.2</b>	<b>12.6</b>	<b>17.2</b>
<b>Average Price (US\$ per SWU)</b>	-	-	-	-	-	-	-	-	-	-	-	-	106.57	114.58	121.33	130.78

- = No data reported.

Note: Totals may not equal sum of components because of independent rounding. Average prices are not adjusted for inflation.

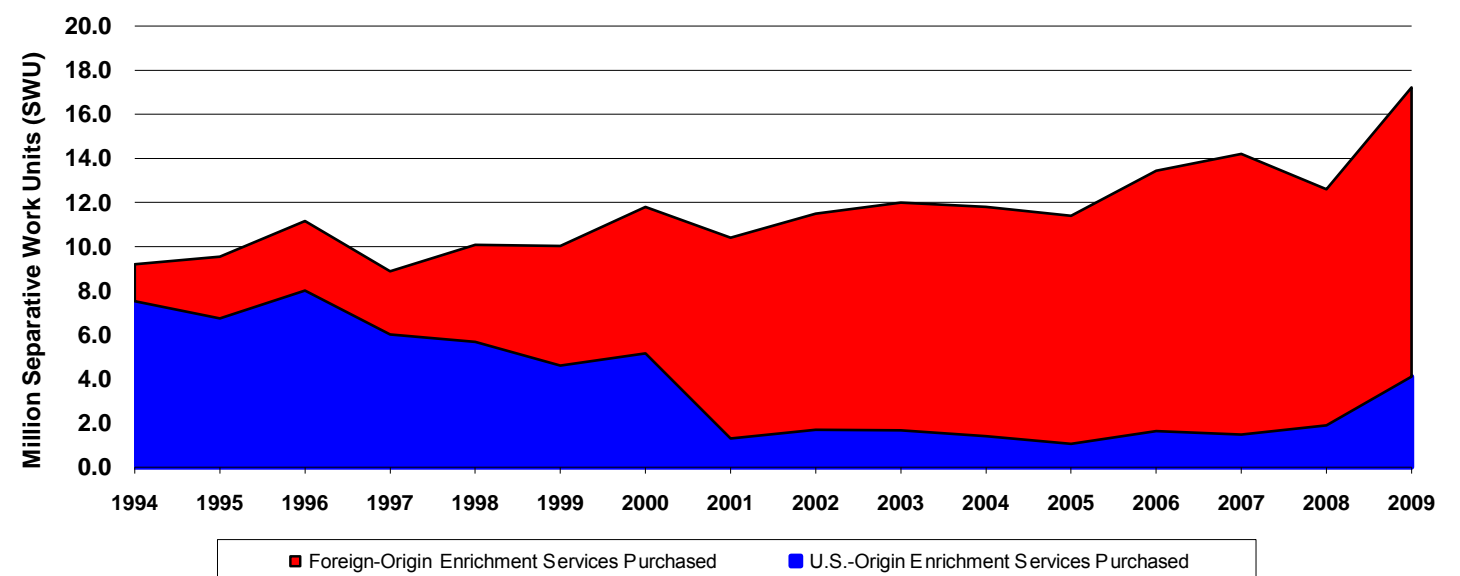
Sources: U.S. Energy Information Administration: 1994-2002-Uranium Industry Annual, Tables 22, 23, 25, and 27. 2003-2009-Form EIA-858, "Uranium Marketing Annual Survey".

**Figure S3. Uranium Loaded into U.S. Civilian Nuclear Power Reactors, 1994-2009**



Sources: U.S. Energy Information Administration: 1994-2002-Uranium Industry Annual reports. 2003-2009-Form EIA-858, "Uranium Marketing Annual Survey".

**Figure S4. Uranium Enrichment Services Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors, 1994-2009**



Sources: U.S. Energy Information Administration: 1994-2002-Uranium Industry Annual reports. 2003-2009-Form EIA-858, "Uranium Marketing Annual Survey".

**Table 13. Deliveries of Uranium Feed by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Enrichment Country and Delivery Year, 2007-2009**  
 (Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent)

Enrichment Country	Feed Deliveries in 2007			Feed Deliveries in 2008			Feed Deliveries in 2009		
	U.S.- Origin	Foreign- Origin	Total	U.S.- Origin	Foreign- Origin	Total	U.S.- Origin	Foreign- Origin	Total
France	0	3,067	3,067	W	W	3,116	W	W	3,391
Germany	W	W	W	W	W	W	W	W	W
Netherlands	0	3,223	3,223	W	W	2,079	W	W	2,262
Russia	0	0	0	0	W	W	0	W	W
United Kingdom	W	W	2,862	W	W	5,658	249	6,142	6,392
Europe <sup>1</sup>	W	W	8,273	W	W	5,662	1,044	5,824	6,868
Other <sup>2</sup>	0	W	W	0	W	W	0	W	W
<b>Foreign Total</b>	<b>479</b>	<b>18,943</b>	<b>19,421</b>	<b>1,496</b>	<b>18,581</b>	<b>20,077</b>	<b>1,721</b>	<b>22,984</b>	<b>24,705</b>
United States	3,033	26,566	29,599	4,243	19,038	23,280	5,347	21,827	27,173
<b>Total</b>	<b>3,512</b>	<b>45,508</b>	<b>49,020</b>	<b>5,738</b>	<b>37,619</b>	<b>43,357</b>	<b>7,068</b>	<b>44,811</b>	<b>51,878</b>

<sup>1</sup> Specific country in Europe was not reported.

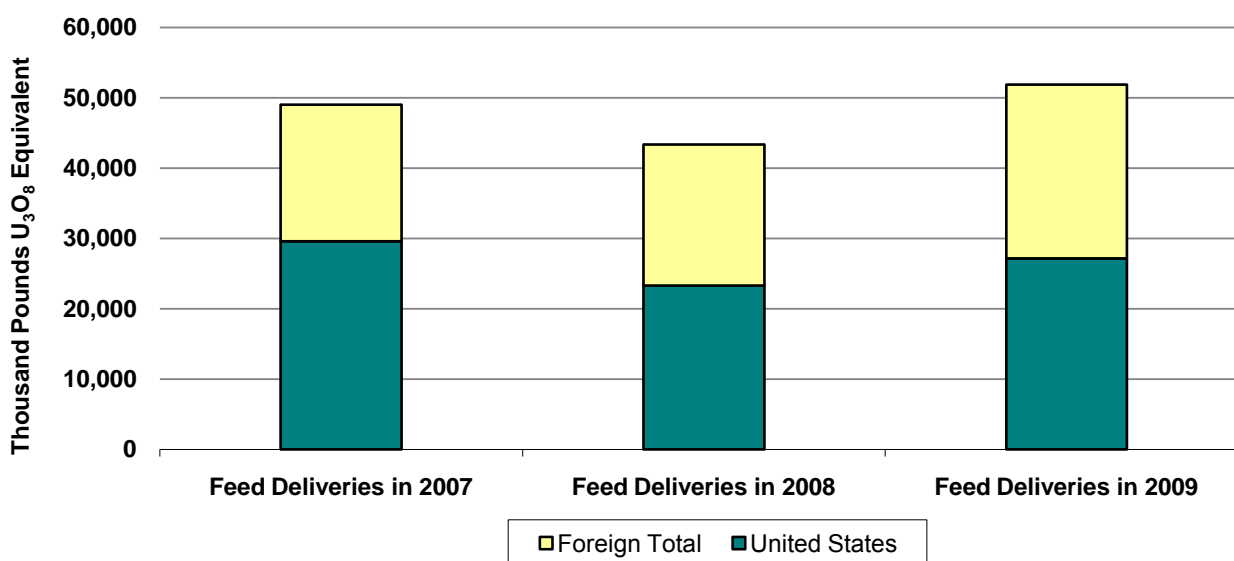
<sup>2</sup> Specific country was not reported.

W = Data withheld to avoid disclosure of individual company data.

Note: Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2007-2009).

**Figure 12. Deliveries of Uranium Feed for U.S. and Foreign Enrichment by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Delivery Year, 2007-2009**



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2007-2009).

**Table 14. Deliveries of Uranium Feed for Enrichment by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Origin Country and Delivery Year, 2007-2009**  
 (Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent)

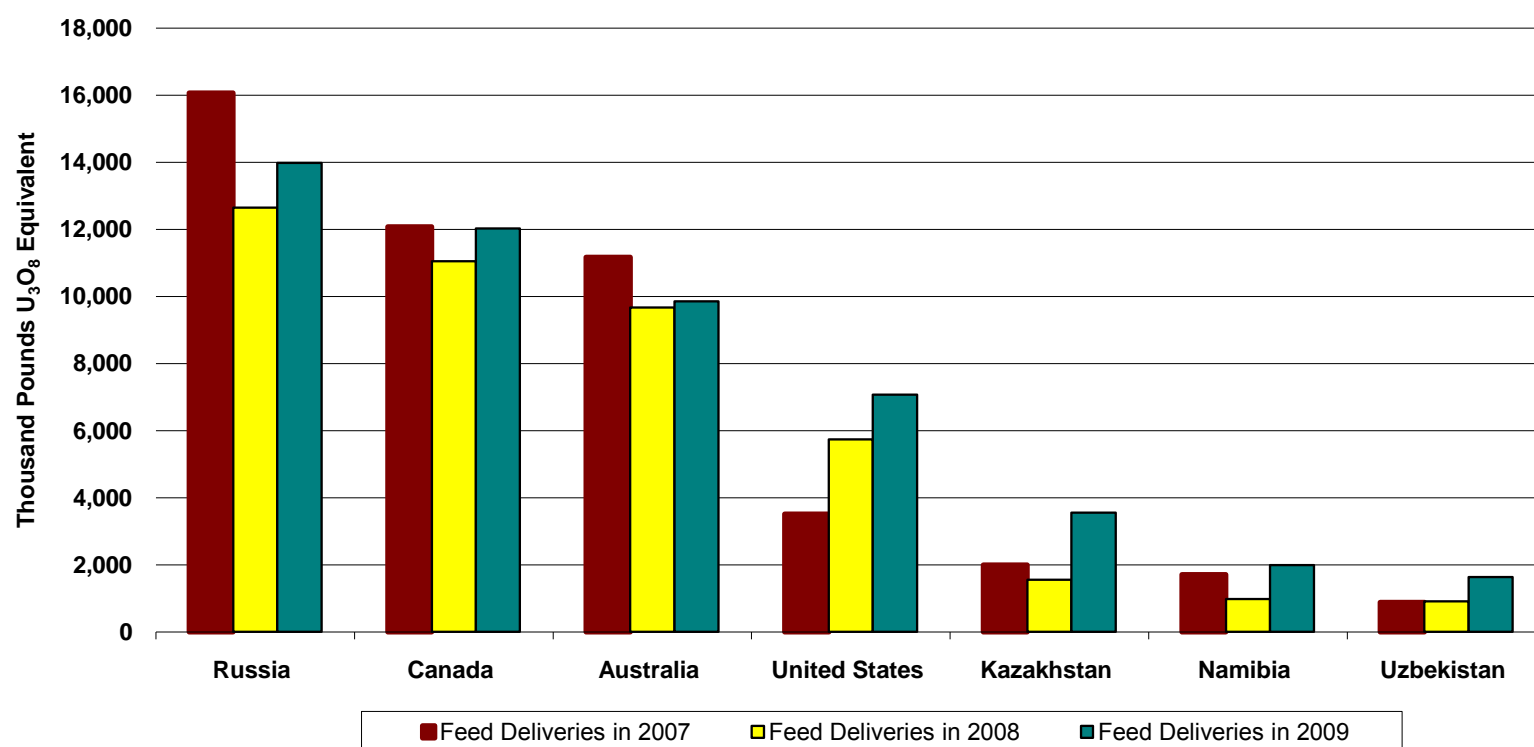
Origin Country of Feed	Deliveries in 2007			Deliveries in 2008			Deliveries in 2009		
	U.S. Enrichment	Foreign Enrichment	Total	U.S. Enrichment	Foreign Enrichment	Total	U.S. Enrichment	Foreign Enrichment	Total
Australia	5,659	5,505	11,165	3,879	5,790	9,669	3,005	6,845	9,850
Brazil	W	W	714	0	0	0	W	W	W
Canada	3,843	8,239	12,082	1,536	9,514	11,050	3,889	8,136	12,025
China	0	0	0	0	W	W	0	0	0
Czech Republic	W	W	334	0	W	W	0	0	0
Kazakhstan	484	1,515	1,999	1,027	524	1,551	1,492	2,068	3,561
Namibia	550	1,163	1,713	W	W	976	W	W	1,991
Niger	0	0	0	0	0	0	0	1,315	1,315
Russia	W	W	16,071	11,055	1,597	12,652	11,453	2,531	13,983
South Africa	W	W	546	W	W	382	W	W	W
United Kingdom	0	0	0	W	0	W	0	0	0
Uzbekistan	W	W	884	W	W	911	512	1,127	1,639
unknown	0	0	0	0	W	W	0	0	0
<b>Foreign Total</b>	<b>26,566</b>	<b>18,943</b>	<b>45,508</b>	<b>19,038</b>	<b>18,581</b>	<b>37,619</b>	<b>21,827</b>	<b>22,984</b>	<b>44,811</b>
United States	3,033	479	3,512	4,243	1,496	5,738	5,347	1,721	7,068
<b>Total</b>	<b>29,599</b>	<b>19,421</b>	<b>49,020</b>	<b>23,280</b>	<b>20,077</b>	<b>43,357</b>	<b>27,173</b>	<b>24,705</b>	<b>51,878</b>

W = Data withheld to avoid disclosure of individual company data.

Note: Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2007-2009).

**Figure 13. Deliveries of Uranium Feed for Enrichment by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Selected Origin Country of Feed and Delivery Year, 2007-2009**



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2007-2009).

**Table 15. Shipments of Uranium Feed by Owners and Operators of U.S. Civilian Nuclear Power Reactors to Domestic and Foreign Enrichment Suppliers, 2010-2019**  
 (Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent)

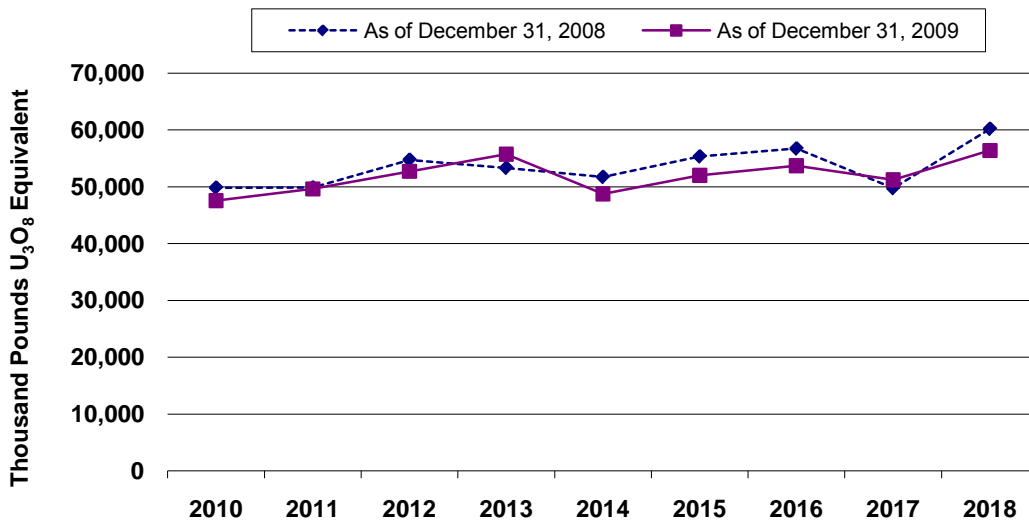
Year of Shipment	Amount of Feed to be Shipped		Change from 2008 to 2009	
	As of December 31, 2008	As of December 31, 2009	Annual	Cumulative
2010	49,832	47,567	-2,265	-2,265
2011	49,870	49,621	-249	-2,514
2012	54,739	52,712	-2,027	-4,541
2013	53,318	55,712	2,394	-2,147
2014	51,715	48,746	-2,969	-5,116
2015	55,319	52,020	-3,299	-8,415
2016	56,719	53,686	-3,033	-11,448
2017	49,747	51,217	1,470	-9,978
2018	60,179	56,379	-3,800	-13,778
2019	-	51,575	--	--

- = No data reported. -- = Not applicable.

Note: Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2008-2009).

**Figure 14. Shipments of Uranium Feed by Owners and Operators of U.S. Civilian Nuclear Power Reactors to Domestic and Foreign Enrichment Suppliers, 2010-2018**



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2008-2009).

**Table 16. Purchases of Enrichment Services by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Origin Country and Year, 2005-2009**

(Thousand Separative Work Units (SWU))

Country of Enrichment Service (SWU-origin)	2005	2006	2007	2008	2009
China	W	W	0	0	0
France	1,830	2,154	613	556	895
Germany	583	818	681	468	1,059
Netherlands	581	960	1,703	1,038	1,345
Russia	5,059	4,724	6,176	4,793	5,478
United Kingdom	1,379	2,000	1,939	2,195	2,940
Europe <sup>1</sup>	W	W	W	W	W
Other <sup>2</sup>	W	W	W	W	W
<b>Foreign Total</b>	<b>10,343</b>	<b>11,808</b>	<b>12,729</b>	<b>10,709</b>	<b>13,115</b>
United States	1,052	1,630	1,473	1,890	4,102
<b>Total</b>	<b>11,394</b>	<b>13,437</b>	<b>14,202</b>	<b>12,599</b>	<b>17,217</b>
<b>Average Price (US\$ per SWU)</b>	-	<b>106.57</b>	<b>114.58</b>	<b>121.33</b>	<b>130.78</b>

<sup>1</sup> Specific country in Europe was not reported.

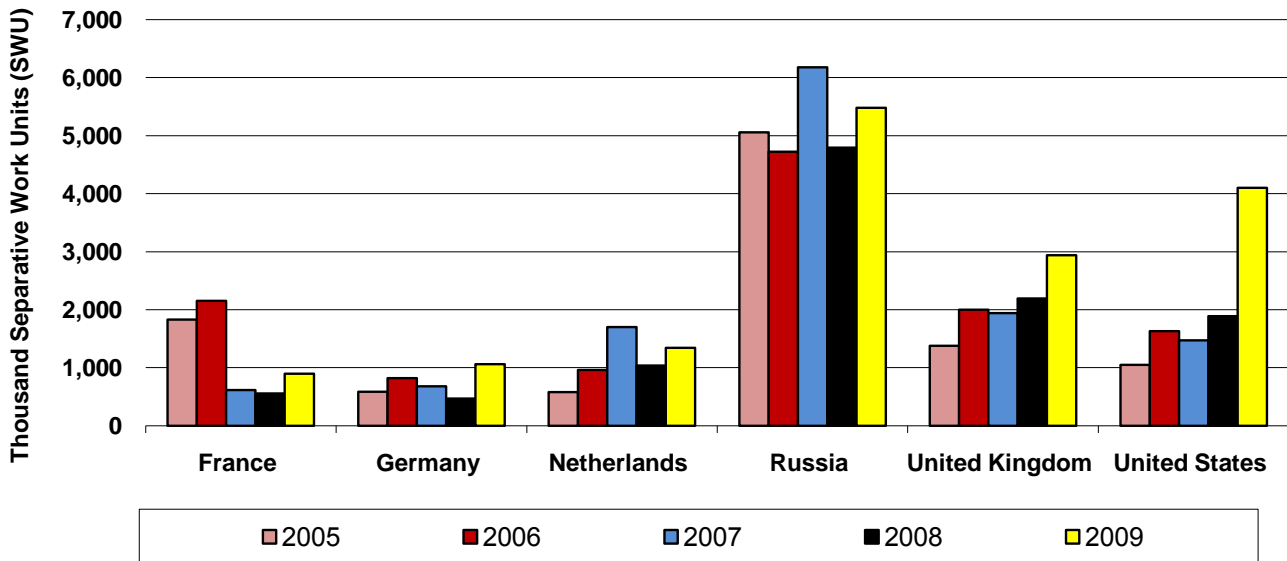
<sup>2</sup> Specific country was not reported.

W = Data withheld to avoid disclosure of individual company data. - = No data reported.

Notes: Totals may not equal sum of components because of independent rounding. Average prices are not adjusted for inflation.

Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2005-2009).

**Figure 15. Purchases of Enrichment Services by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Origin Country and Year, 2005-2009**



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2005-2009).

**Table 17. Purchases of Enrichment Services by Owners and Operators of U.S. Civilian Nuclear Power Reactors by Contract Type in Delivery Year, 2009  
(Thousand Separative Work Units (SWU))**

<b>Enrichment Service Contract Type</b>	<b>U.S. Enrichment</b>	<b>Foreign Enrichment</b>	<b>Total</b>
Spot	147	681	828
Long-Term	3,954	12,434	16,388
<b>Total</b>	<b>4,102</b>	<b>13,115</b>	<b>17,217</b>

Note: Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2009).

**Table 18. Uranium in Fuel Assemblies Loaded into U.S. Civilian Nuclear Power Reactors by Year, 2005-2009  
(Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent)**

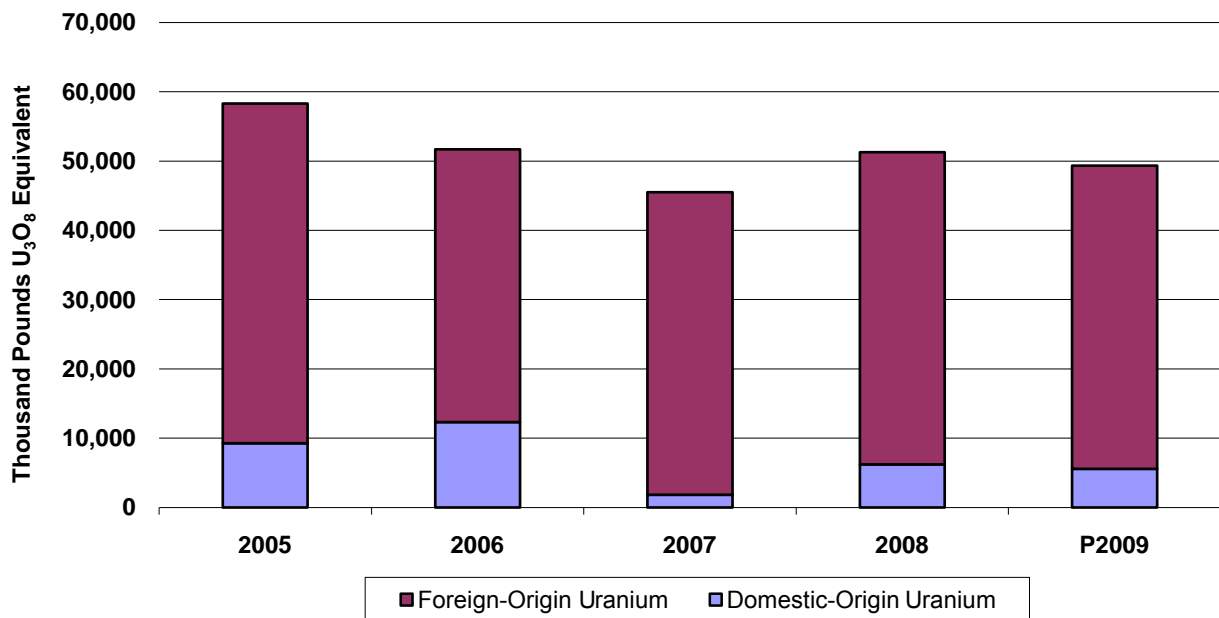
Origin of Uranium	2005	2006	2007	2008	P2009
Domestic-Origin Uranium	9,293	12,327	1,840	6,228	5,588
Foreign-Origin Uranium	49,014	39,373	43,659	45,040	43,766
<b>Total</b>	<b>58,307</b>	<b>51,700</b>	<b>45,498</b>	<b>51,268</b>	<b>49,354</b>

P = Preliminary data. Final 2008 fuel assembly data reported in the 2009 survey.

Notes: Includes only unirradiated uranium in new fuel assemblies loaded into reactors during the year. Does not include uranium removed from reactors that subsequently will be reloaded. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2006-2009).

**Figure 16. Uranium in Fuel Assemblies Loaded into U.S. Civilian Nuclear Power Reactors by Year, 2005-2009**



P = Preliminary data. Final 2008 fuel assembly data reported in the 2009 survey.

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2006-2009).

**Table S3a. Foreign Purchases, Foreign Sales, and Uranium Inventories Owned by U.S. Suppliers and Owners and Operators of U.S. Civilian Nuclear Power Reactors, 1994-2009**  
 (Million Pounds U<sub>3</sub>O<sub>8</sub> Equivalent)

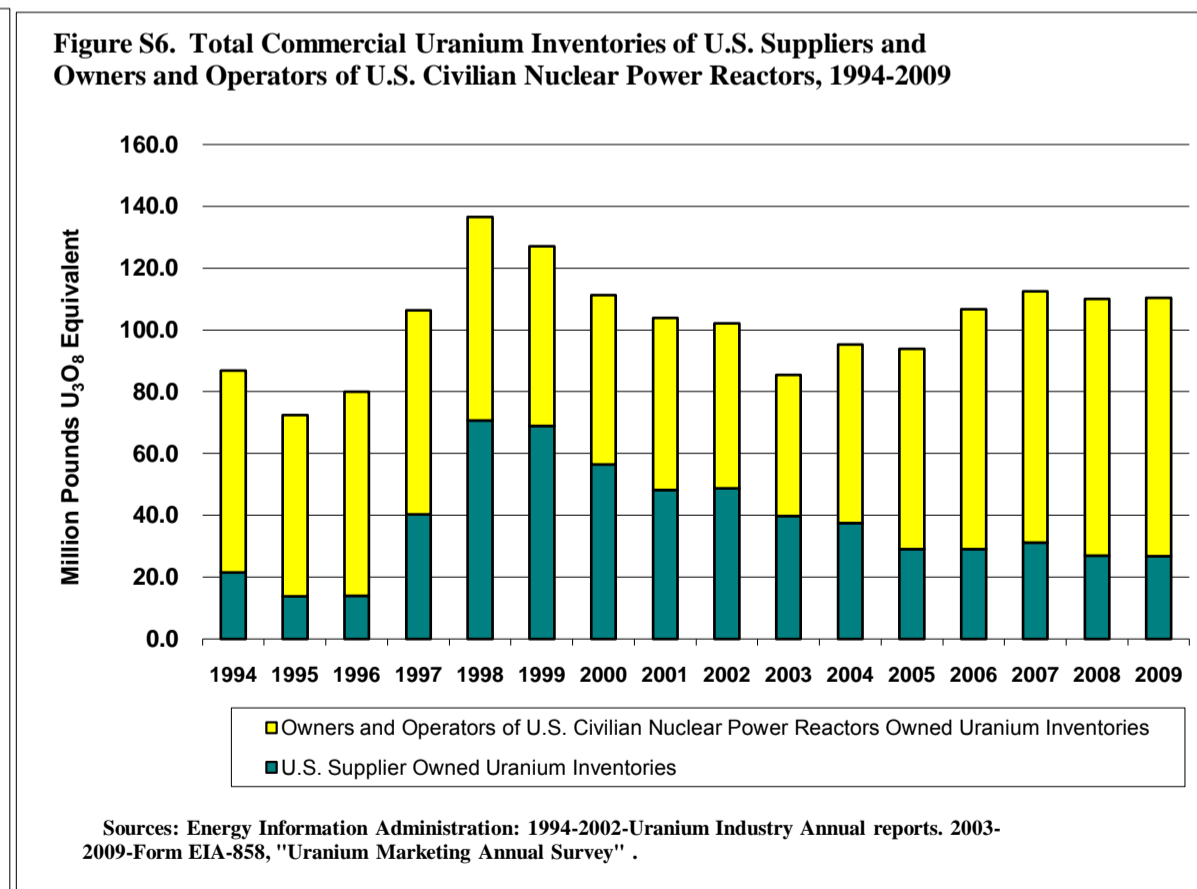
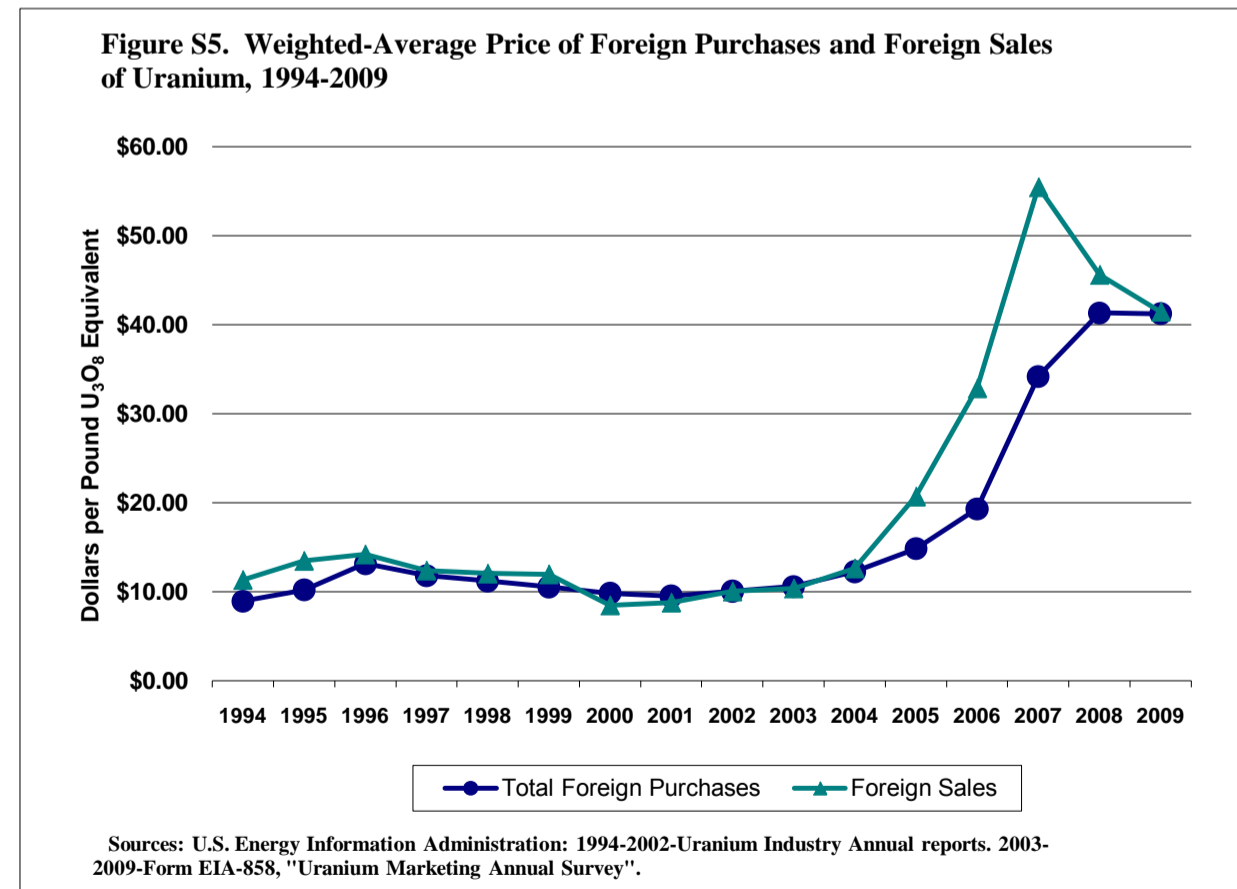
Delivery Year	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Foreign Purchases by U.S. Suppliers	21.1	20.2	21.7	20.4	22.6	21.0	17.4	18.7	22.7	18.2	30.2	27.0	26.1	21.6	24.1	26.7
Foreign Purchases by Owners and Operators of U.S. Civilian Nuclear Power Reactors	15.5	21.1	23.7	22.5	21.1	26.6	27.5	28.0	30.0	34.9	35.9	38.5	38.7	32.5	32.9	32.2
<b>Total Foreign Purchases</b>	<b>36.6</b>	<b>41.3</b>	<b>45.4</b>	<b>43.0</b>	<b>43.7</b>	<b>47.6</b>	<b>44.9</b>	<b>46.7</b>	<b>52.7</b>	<b>53.0</b>	<b>66.1</b>	<b>65.5</b>	<b>64.8</b>	<b>54.1</b>	<b>57.1</b>	<b>58.9</b>
<b>U.S. Broker and Trader Purchases from Foreign Suppliers</b>	<b>22.3</b>	<b>18.3</b>	<b>17.8</b>	<b>15.7</b>	<b>21.7</b>	<b>19.2</b>	<b>15.8</b>	<b>18.3</b>	<b>18.6</b>	<b>15.8</b>	<b>26.4</b>	<b>24.0</b>	<b>24.0</b>	<b>18.9</b>	<b>21.3</b>	<b>26.8</b>
<b>Foreign Sales</b>	<b>17.7</b>	<b>9.8</b>	<b>11.5</b>	<b>17.0</b>	<b>15.1</b>	<b>8.5</b>	<b>13.6</b>	<b>11.7</b>	<b>15.4</b>	<b>13.2</b>	<b>13.2</b>	<b>20.5</b>	<b>18.7</b>	<b>14.8</b>	<b>17.2</b>	<b>23.5</b>
<b>Year-End Inventories</b>																
U.S. Supplier Owned Uranium Inventories	21.5	13.7	13.9	40.4	70.7	68.8	56.5	48.1	48.7	39.9	37.5	29.1	29.1	31.2	27.0	26.8
Owners and Operators of U.S. Civilian Nuclear Power Reactors Owned Uranium Inventories	65.4	58.7	66.1	65.9	65.8	58.3	54.8	55.6	53.5	45.6	57.7	64.7	77.5	81.2	83.0	83.5
<b>Total Commercial Uranium Inventories</b>	<b>86.9</b>	<b>72.5</b>	<b>80.0</b>	<b>106.2</b>	<b>136.5</b>	<b>127.1</b>	<b>111.3</b>	<b>103.8</b>	<b>102.1</b>	<b>85.5</b>	<b>95.2</b>	<b>93.8</b>	<b>106.6</b>	<b>112.4</b>	<b>110.0</b>	<b>110.3</b>

**Table S3b. Weighted-Average Price of Foreign Purchases and Foreign Sales by U.S. Suppliers and Owners and Operators of U.S. Civilian Nuclear Power Reactors, 1994-2009**  
 (Dollars per Pound U<sub>3</sub>O<sub>8</sub> Equivalent)

Delivery Year	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Foreign Purchases by U.S. Suppliers	7.78	8.96	11.78	10.61	10.50	9.42	8.45	8.98	9.65	10.19	11.21	15.11	20.28	36.59	33.30	34.80
Foreign Purchases by Owners and Operators of U.S. Civilian Nuclear Power Reactors	10.53	11.39	14.41	12.89	11.96	11.45	10.68	9.87	10.37	10.79	13.13	14.63	18.66	32.58	47.46	46.55
<b>Total Foreign Purchases (Weighted-Average Price)</b>	<b>8.95</b>	<b>10.20</b>	<b>13.15</b>	<b>11.81</b>	<b>11.19</b>	<b>10.55</b>	<b>9.84</b>	<b>9.51</b>	<b>10.05</b>	<b>10.59</b>	<b>12.25</b>	<b>14.83</b>	<b>19.31</b>	<b>34.18</b>	<b>41.30</b>	<b>41.23</b>
<b>U.S. Broker and Trader Purchases from Foreign Suppliers (Weighted-Average Price)</b>	<b>7.87</b>	<b>9.02</b>	<b>11.78</b>	<b>10.71</b>	<b>10.77</b>	<b>9.60</b>	<b>8.61</b>	<b>8.87</b>	<b>9.59</b>	<b>10.19</b>	<b>11.15</b>	<b>15.68</b>	<b>21.61</b>	<b>39.88</b>	<b>35.39</b>	<b>34.88</b>
<b>Foreign Sales (Weighted-Average Price)</b>	<b>11.34</b>	<b>13.48</b>	<b>14.20</b>	<b>12.39</b>	<b>12.05</b>	<b>11.97</b>	<b>8.48</b>	<b>8.79</b>	<b>10.04</b>	<b>10.39</b>	<b>12.63</b>	<b>20.70</b>	<b>32.87</b>	<b>55.47</b>	<b>45.62</b>	<b>41.48</b>

Notes: Totals may not equal sum of components because of independent rounding. Foreign purchase: A uranium purchase of foreign-origin uranium from a firm located outside the United States. Foreign sale: A uranium sale to a firm located outside the United States. Weighted-average prices are not adjusted for inflation.

Sources: U.S. Energy Information Administration: 1994-2002-Uranium Industry Annual, Tables 28, 29, 30 and 31. 2003-2009-Form EIA-858, "Uranium Marketing Annual Survey".





**Table 19. Foreign Purchases of Uranium by U.S. Suppliers and Owners and Operators of U.S. Civilian Nuclear Power Reactors by Delivery Year, 2005-2009**

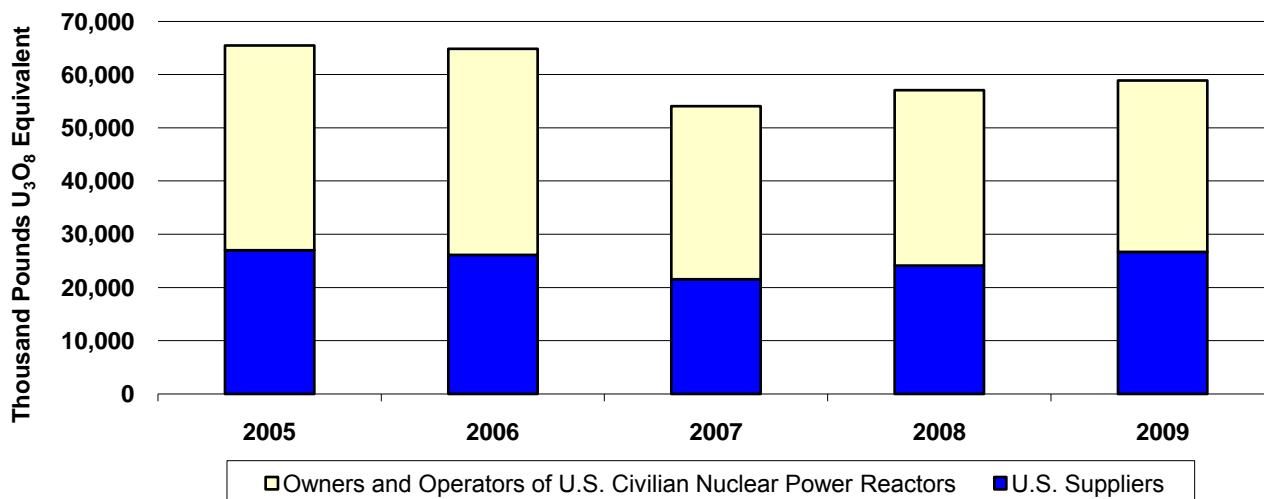
(Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent; Dollars per Pound U<sub>3</sub>O<sub>8</sub> Equivalent)

Deliveries	2005	2006	2007	2008	2009
<b>U.S. Suppliers</b>					
Foreign Purchases	26,990	26,137	21,572	24,139	26,661
Weighted-Average Price	15.11	20.28	36.59	33.30	34.80
<b>Owners and Operators of U.S. Civilian Nuclear Power Reactors</b>					
Foreign Purchases	38,497	38,666	32,517	32,936	32,239
Weighted-Average Price	14.63	18.66	32.58	47.46	46.55
<b>Total</b>					
Foreign Purchases	65,487	64,803	54,089	57,074	58,900
Weighted-Average Price	14.83	19.31	34.18	41.30	41.23

Notes: Totals may not equal sum of components because of independent rounding. Foreign Purchase: A uranium purchase of foreign-origin uranium from a firm located outside of the United States. Weighted-average prices are not adjusted for inflation.

Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2005-2009).

**Figure 17. Foreign Purchases of Uranium by U.S. Suppliers and Owners and Operators of U.S. Civilian Nuclear Power Reactors by Delivery Year, 2005-2009**



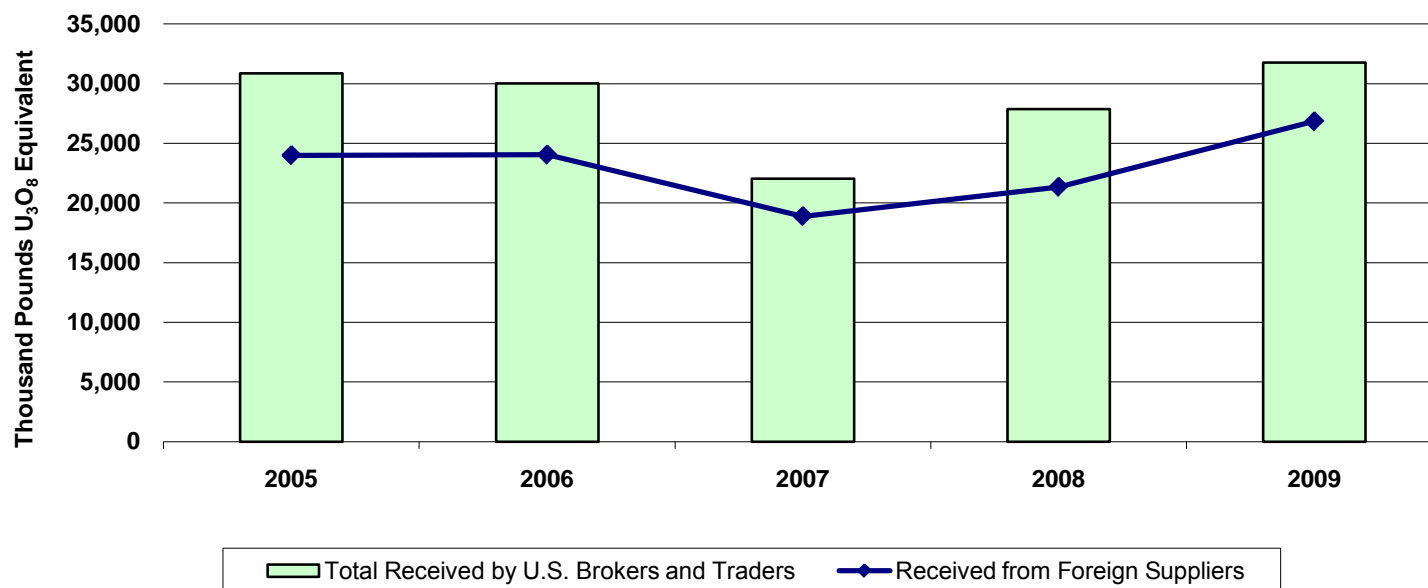
Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2005-2009).

**Table 20. U.S. Broker and Trader Purchases of Uranium by Origin, Supplier, and Delivery Year, 2005-2009**  
 (Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent; Dollars per Pound U<sub>3</sub>O<sub>8</sub> Equivalent)

Deliveries	2005	2006	2007	2008	2009
Received U.S.-Origin Uranium					
Purchases	1,229	3,105	1,996	3,009	2,189
Weighted-Average Price	23.57	40.38	94.56	66.14	49.11
Received Foreign-Origin Uranium					
Purchases	29,622	26,901	20,046	24,861	29,568
Weighted-Average Price	16.80	23.99	45.00	38.78	35.96
<b>Total Received by U.S. Brokers and Traders</b>					
Purchases	<b>30,851</b>	<b>30,006</b>	<b>22,042</b>	<b>27,871</b>	<b>31,757</b>
Weighted-Average Price	<b>17.09</b>	<b>25.68</b>	<b>49.49</b>	<b>41.73</b>	<b>36.87</b>
Received from Foreign Suppliers					
Purchases	24,000	24,047	18,885	21,347	26,841
Weighted-Average Price	15.68	21.61	39.88	35.39	34.88

Notes: Totals may not equal sum of components because of independent rounding. Weighted-average prices are not adjusted for inflation.  
 Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2005-2009).

**Figure 18. U.S. Broker and Trader Purchases of Uranium by Supplier, and Delivery Year, 2005-2009**



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2005-2009).

**Table 21. Foreign Sales of Uranium from U.S. Suppliers and Owners and Operators of U.S. Civilian Nuclear Power Reactors by Origin and Delivery Year, 2005-2009**  
 (Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent; Dollars per Pound U<sub>3</sub>O<sub>8</sub> Equivalent)

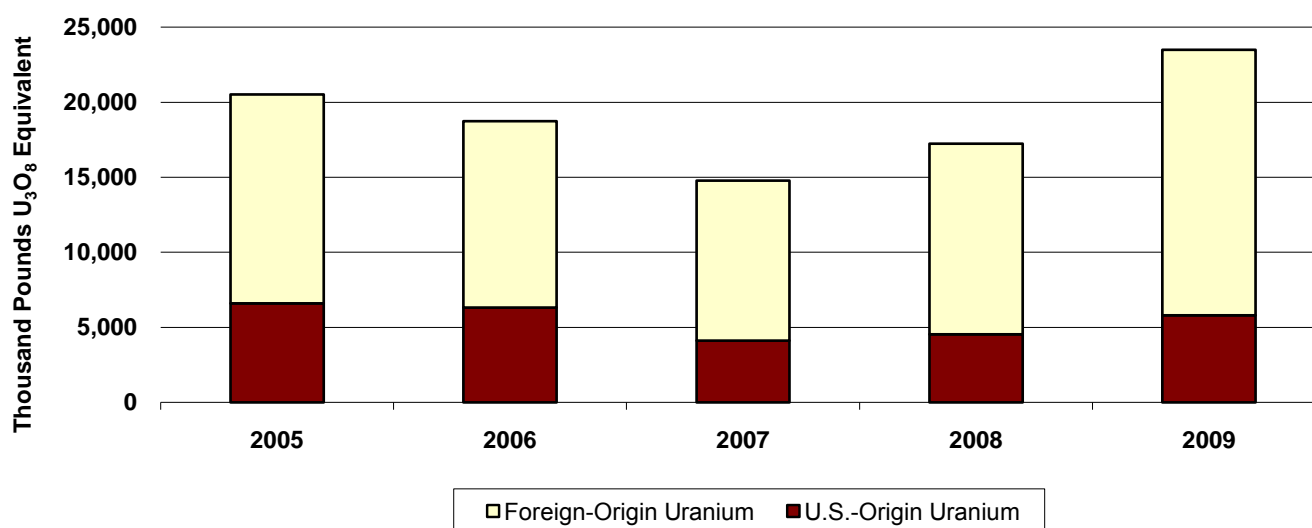
Deliveries to Foreign Suppliers and Utilities	2005	2006	2007	2008	2009
<b>U.S.-Origin Uranium</b>					
Foreign Sales	6,608	6,315	4,106	4,531	5,801
Weighted-Average Price	21.76	32.03	36.22	46.36	41.43
<b>Foreign-Origin Uranium</b>					
Foreign Sales	13,922	12,432	10,668	12,709	17,688
Weighted-Average Price	20.22	33.30	62.88	45.36	41.50
<b>Total Sent:</b>					
<b>Foreign Sales</b>	<b>20,530</b>	<b>18,746</b>	<b>14,774</b>	<b>17,240</b>	<b>23,489</b>
<b>Weighted-Average Price</b>	<b>20.70</b>	<b>32.87</b>	<b>55.47</b>	<b>45.62</b>	<b>41.48</b>
From Owners and Operators of U.S. Civilian Nuclear Power Reactors, U.S. Producers, other U.S. Suppliers, (and U.S. Government for 2006)					
Foreign Sales	7,316	8,090	W	4,202	6,229
Weighted-Average Price	20.77	37.25	W	40.04	37.11
From U.S. Brokers and Traders					
Foreign Sales	13,214	10,656	W	13,038	17,260
Weighted-Average Price	20.66	29.55	W	47.42	43.06

W = Data withheld to avoid disclosure of individual company data.

Notes: "Other U.S. Suppliers" are U.S. converters, enrichers, and fabricators. Totals may not equal sum of components because of independent rounding. Foreign sale: A uranium sale to a firm located outside the United States. Weighted-average prices are not adjusted for inflation.

Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2005-2009).

**Figure 19. Foreign Sales of Uranium from U.S. Suppliers and Owners and Operators of U.S. Civilian Nuclear Power Reactors by Origin and Delivery Year, 2005-2009**



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2005-2009).

**Table 22. Inventories of Natural and Enriched Uranium as of End of Year, 2005-2009**  
 (Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent)

Type of Uranium Inventory	Inventories at the End of the Year				
	2005	2006	2007	2008	P2009
<b>Owners and Operators of U.S. Civilian Nuclear Power Reactors Inventories</b>	<b>64,729</b>	<b>77,484</b>	<b>81,227</b>	<b>82,972</b>	<b>83,516</b>
Natural Uranium	45,339	54,251	55,927	58,810	55,781
Enriched Uranium	19,390	23,233	25,301	24,162	27,735
<b>U.S. Supplier Inventories</b>	<b>29,068</b>	<b>29,107</b>	<b>31,156</b>	<b>27,010</b>	<b>26,774</b>
Natural Uranium	W	W	W	W	W
Enriched Uranium	W	W	W	W	W
<b>Total Commercial Inventories</b>	<b>93,796</b>	<b>106,591</b>	<b>112,384</b>	<b>109,983</b>	<b>110,289</b>

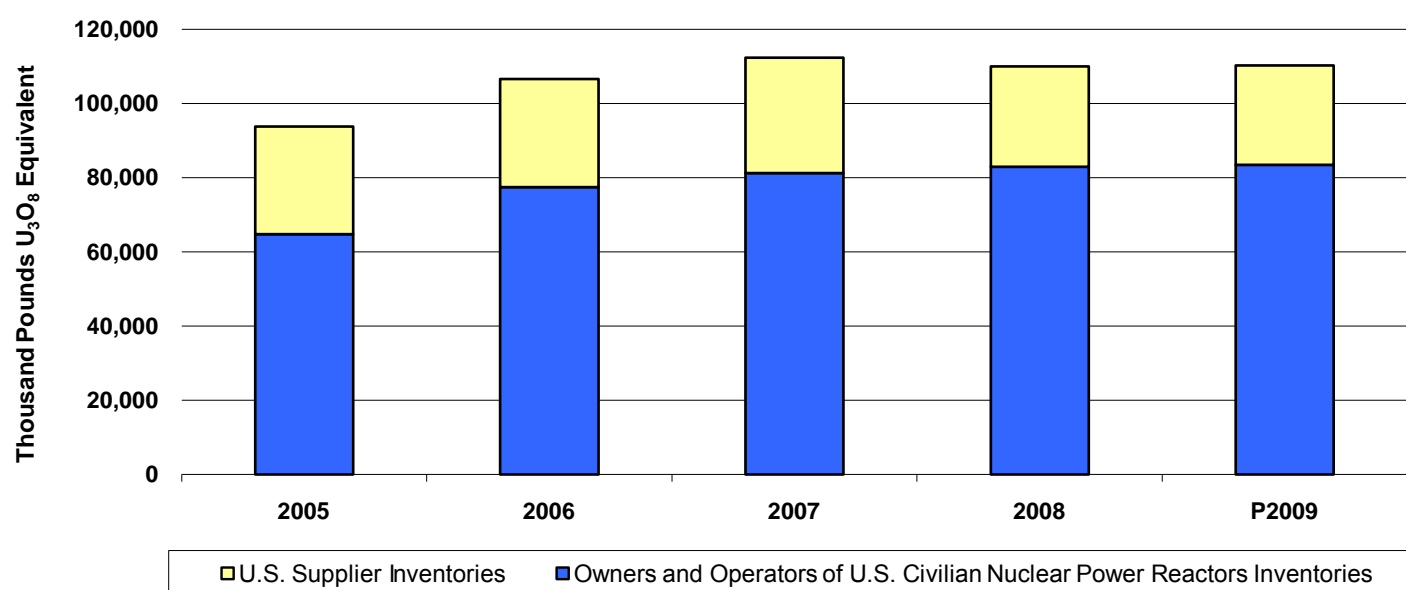
P = Preliminary data. Final 2008 inventory data reported in the 2009 survey.

W = Data withheld to avoid disclosure of individual company data.

Notes: Natural uranium includes uranium concentrate (U<sub>3</sub>O<sub>8</sub>) and natural uranium hexafluoride (UF<sub>6</sub>). Enriched uranium includes enriched uranium hexafluoride (UF<sub>6</sub>) and fabricated fuel not inserted into a reactor. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2006-2009).

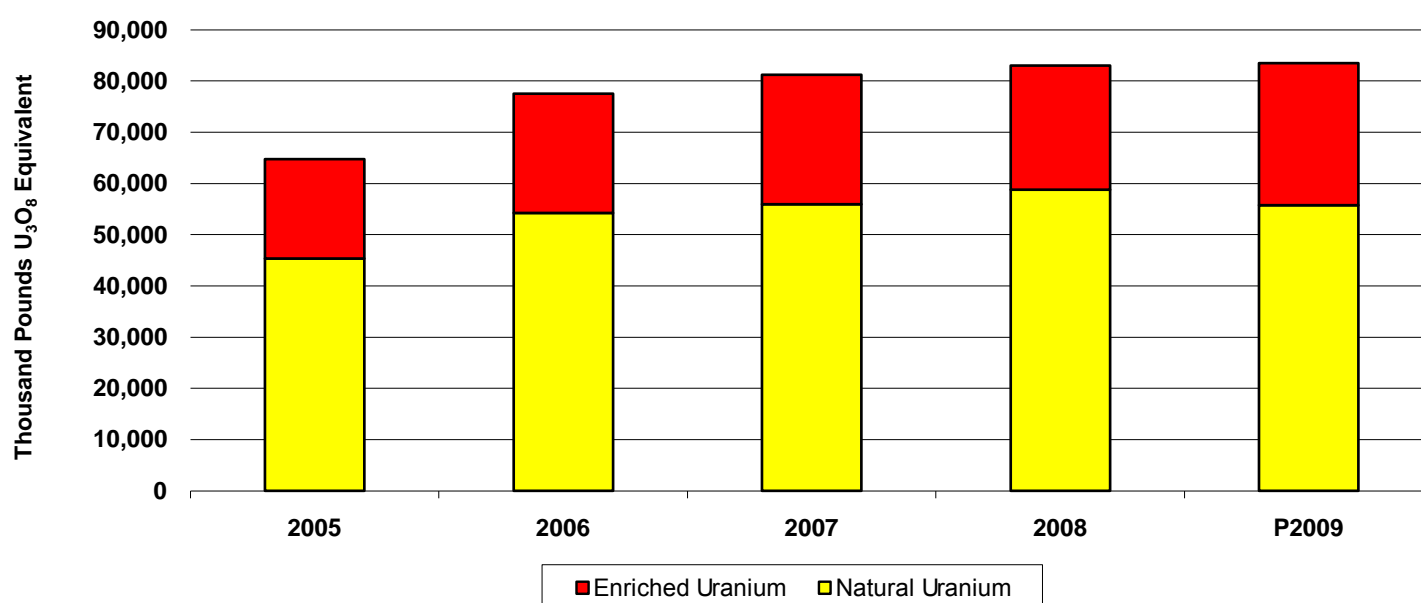
**Figure 20. Commercial Inventories of Natural and Enriched Uranium as of End of Year, 2005-2009**



P=Preliminary data. Final 2008 inventory data reported in the 2009 survey.

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2006-2009).

**Figure 21. Owners and Operators of U.S. Civilian Nuclear Power Reactors Inventories by Material Type as of End of Year, 2005-2009**



P=Preliminary data. Final 2008 inventory data reported in the 2009 survey.

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2006-2009).

**Table 23. Inventories of Uranium by Owner as of End of Year, 2005-2009  
 (Thousand Pounds U<sub>3</sub>O<sub>8</sub> Equivalent)**

Owner of Uranium Inventory	Inventories at the End of Year				
	2005	2006	2007	2008	P2009
Owners and Operators of U.S. Civilian Nuclear Power Reactors	64,729	77,484	81,227	82,972	83,516
U.S. Brokers and Traders	12,215	13,180	12,114	14,104	13,362
U.S. Converter, Enricher, Fabricators, and Producers	16,853	15,927	19,043	12,907	13,412
<b>Total Commercial Inventories</b>	<b>93,796</b>	<b>106,591</b>	<b>112,384</b>	<b>109,983</b>	<b>110,289</b>

P = Preliminary data. Final 2008 inventory data reported in the 2009 survey.

Note: Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2006-2009).

**Uranium Sellers to Owners and Operators of U.S. Civilian Nuclear Power Reactors, 2007-2009**

2007	2008	2009
AREVA NC, Inc. (was COGEMA, Inc.)	223 Capital, LLC	American Fuel Resources, LLC
BHP Billiton	American Fuel Resources, LLC	AREVA NC, Inc. (was COGEMA, Inc.)
CAMECO	AREVA NC, Inc. (was COGEMA, Inc.)	CAMECO
CJS National Atomic Company Kazatomprom	BHP Billiton	ConverDyn
ConverDyn	CAMECO	Denison Mines Corp.
Energy Resources of Australia Ltd.	ConverDyn	Energy Resources of Australia Ltd.
Energy USA, Inc.	Energy Resources of Australia Ltd.	Energy USA, Inc.
FPL Energy Point Beach, LLC	Energy USA, Inc.	FPL Energy Point Beach, LLC
GNSS (Globe Nuclear Services and Supply Ltd.)	FPL Energy Point Beach, LLC	GNSS (Globe Nuclear Services and Supply Ltd.)
Heathgate Resources Pty. Ltd.	GNSS (Globe Nuclear Services and Supply Ltd.)	Heathgate Resources Pty. Ltd.
INTERNEXCO GmbH	Heathgate Resources Pty. Ltd.	INTERNEXCO GmbH
Itochu Corporation	INTERNEXCO GmbH	Itochu Corporation / Itochu International
Nuclear Fuels Corporation of South Africa	Itochu Corporation / Itochu International	Mestena Uranium LLC
Nufcor International Limited	Mestena Uranium LLC	MTM Trading, LLC
Paladin Resources Limited	MTM Trading, LLC	New Power Systems Limited
Rossing Uranium Limited	New Power Systems Limited	Nufcor International Limited
RWE NUKEM, Inc.	Nuclear Fuels Corporation of South Africa	NUKEM, Inc.
SOPAMIN (Société de Patrimoine des Mines du Niger "Heritage Society of Mines in Niger")	Nufcor International Limited / Nufcor Uranium Ltd.	Paladin Resources Limited
TENEX (Techsnabexport)	NUKEM, Inc.	Piney Branch Park, Inc.
UG U.S.A., Inc.	Paladin Resources Limited	Rossing Uranium Limited
UrAsia Energy Ltd.	Rio Grande Resources / Nuclear Fuels Corporation	SOPAMIN (Société de Patrimoine des Mines du Niger "Heritage Society of Mines in Niger")
URENCO, Inc.	Rossing Uranium Limited	Traxys North America, LLC
USEC, Inc. (United States Enrichment Corporation)	SOPAMIN (Société de Patrimoine des Mines du Niger "Heritage Society of Mines in Niger")	UG U.S.A., Inc.
U.S. Government (U.S. Department of Energy)	TENEX (Techsnabexport)	Uranium One / Uranium One Africa Limited
WMC (Olympic Dam Corporation) Pty Ltd.	Traxys Group / Traxys North America, LLC	UrAsia Energy Ltd.
	UG U.S.A., Inc.	URENCO, Inc.
	Uranium Asset Management	USEC, Inc. (United States Enrichment Corporation)
	Uranium One / Uranium One Africa Limited	Westinghouse Electric Company
	UrAsia Energy Ltd.	WMC (Olympic Dam Corporation) Pty Ltd.
	URENCO, Inc.	
	USEC, Inc. (United States Enrichment Corporation)	
	Westinghouse Electric Company	
	WMC (Olympic Dam Corporation) Pty Ltd.	

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2007-2009).

**Enrichment Service Sellers to Owners and Operators of U.S. Civilian Nuclear Power Reactors, 2007-2009**

<b>2007</b>	<b>2008</b>	<b>2009</b>
AREVA NC, Inc. (was COGEMA, Inc.)	AREVA NC, Inc. (was COGEMA, Inc.)	AREVA NC, Inc. (was COGEMA, Inc.)
Consumers Energy	TENEX (Techsnabexport)	Global Nuclear Fuel (GNF)
URENCO, Inc.	URENCO, Inc.	LES (Louisiana Energy Services)
USEC, Inc. (United States Enrichment Corporation)	USEC, Inc. (United States Enrichment Corporation)	NUKEM, Inc.
	Westinghouse Electric Company	URENCO, Inc.
		USEC, Inc. (United States Enrichment Corporation)
		Westinghouse Electric Company

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2007-2009).