



Independent Statistics & Analysis
U.S. Energy Information
Administration

2011 Uranium Marketing Annual Report

May 2012



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Preface

The U.S. Energy Information Administration (EIA) reports detailed data spanning 2007 through 2011 and summary data back to 1994 on uranium marketing activities in the United States in this report, *2011 Uranium Marketing Annual Report*. The *Annual Energy Review* provides a uranium overview table with historical data back to 1949.

Data in this report are based on information reported on Form EIA-858, “Uranium Marketing Annual Survey.” Form EIA-858 survey collects data on contracts, deliveries (during the report year and projected for the next ten years), enrichment services purchased, inventories, use in fuel assemblies, feed deliveries to enrichers (during the report year and projected for the next ten years), and unfilled market requirements for the next ten years.

Prior editions of this report may be found:

<http://www.eia.gov/uranium/marketing/>

The *Uranium Overview Section* of The *Annual Energy Review* may be found:

<http://www.eia.gov/totalenergy/data/annual/#nuclear>

Definitions for terms used in this report can be found in EIA’s Energy Glossary:

<http://www.eia.doe.gov/glossary/>.

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Uranium Purchases and Prices

Owners and operators of U.S. civilian nuclear power reactors (“civilian owner/operators” or “COOs”) purchased a total of 55 million pounds U_3O_8e (equivalent) of deliveries from U.S. suppliers and foreign suppliers during 2011, at a weighted-average price of \$55.64 per pound U_3O_8e . The 2011 total of 55 million pounds U_3O_8e increased 18 percent compared with the 2010 total of 47 million pounds U_3O_8e . (Uranium quantities are expressed in the unit of measure U_3O_8e (equivalent). U_3O_8e is uranium oxide (or uranium concentrate) and the equivalent uranium-component of hexafluoride (UF_6) and enriched uranium.)

Nine percent of the U_3O_8e delivered in 2011 was U.S.-origin uranium at a weighted-average price of \$52.12 per pound. Foreign-origin uranium accounted for the remaining 91 percent of deliveries at a weighted-average price of \$55.98 per pound. Australian-origin and Canadian-origin uranium together accounted for 31 percent of the 55 million pounds. Uranium originating in Kazakhstan, Russia and Uzbekistan accounted for 40 percent and the remaining 20 percent originated from Brazil, China, Malawi, Namibia, Niger, South Africa, and Ukraine. Owners and operators of U.S. civilian nuclear power reactors purchased uranium for 2011 deliveries from 32 sellers, up from the 23 sellers in 2010.

COOs purchased uranium of three material types. Uranium concentrate was 62 percent of the deliveries in 2011; natural and enriched UF_6 were 38 percent. During 2011, 22 percent of the uranium was purchased under spot contracts at a weighted-average price of \$54.69 per pound. The remaining 78 percent was purchased under long-term contracts at a weighted-average price of \$55.90 per pound. Spot contracts are contracts with a one-time uranium delivery (usually) for the entire contract and the delivery is to occur within one year of contract execution (signed date). Long-term contracts are contracts with one or more uranium 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 2011, COOs signed 79 new purchase contracts with deliveries in 2011 of 10 million pounds U_3O_8e at a weighted-average price of \$56.07 per pound. Seventy-seven were new spot contracts and two were new long-term contracts.

COOs report minimum and maximum quantities of future deliveries under contract, to allow for the option of either increasing or decreasing quantities. As of the end of 2011, the maximum uranium deliveries for 2012 through 2021 under existing purchase contracts for COOs totaled 252 million pounds U_3O_8e . Also as of the end of 2011, unfilled uranium market requirements for 2012 through 2021 totaled 255 million pounds U_3O_8e . These contracted deliveries and unfilled market requirements combined represent the maximum anticipated market requirements of 507 million pounds U_3O_8e over the ten-year period for COOs. For the years 2012 through 2014, the maximum anticipated market requirements is 19 million pounds less than enrichment feed deliveries for the same period.

Uranium Feed, Enrichment Services, Uranium Loaded

In 2011, COOs delivered 51 million pounds U_3O_8e of natural uranium feed to U.S. and foreign enrichers. Fifty-nine percent of the feed was delivered to U.S. enrichment suppliers and the remaining 41 percent was delivered to foreign enrichment suppliers. Fifteen million separative work units (SWU) were purchased under enrichment services contracts from 9 sellers in 2011, up from the 7 sellers in 2010. The average price paid by the COOs for the 15 million SWU was \$136.12 per SWU in 2011, compared with the 2010 average price of \$136.14 per SWU. In 2011, the U.S.-origin SWU share was 16 percent and foreign-origin SWU accounted for the remaining 84 percent. Russian-origin SWU were 36 percent of the total. China, France, Germany, Netherlands, and the United Kingdom had an aggregate share of 48 percent.

Uranium in fuel assemblies loaded into U.S. civilian nuclear power reactors during 2011 contained 52 million pounds U_3O_8e , compared with 44 million pounds U_3O_8e loaded during 2010. Eight percent of the uranium loaded during 2011 was U.S.-origin uranium, and 92 percent was foreign-origin uranium.

Uranium Foreign Purchases/Sales and Inventories

U.S. suppliers (brokers, converters, enrichers, fabricators, producers, and traders) and COOs purchase uranium each year from foreign suppliers. Foreign purchases totaled 54 million pounds U_3O_8e in 2011, and the weighted-average price was \$54.00 per pound U_3O_8e . Also, U.S. suppliers and COOs sold uranium to foreign suppliers. Foreign sales totaled 17 million pounds U_3O_8e in 2011, and the weighted-average price was \$49.05 per pound 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. Total U.S. commercial inventories (including inventories owned by COOs, U.S. brokers, converter, enrichers, fabricators, producers, and traders) was 114 million pounds U_3O_8e as of the end of 2011. Commercial uranium inventories owned at the end of 2011 by COOs totaled 89 million pounds U_3O_8e , an increase of 3 percent from year-end 2010. Uranium inventories owned by U.S. brokers and traders were 9 million pounds U_3O_8e . U.S. converter, enrichers, fabricators and producers owned 15 million pounds U_3O_8e of inventories at the end of 2011.

Table S1a. Uranium purchased by owners and operators of U.S. civilian nuclear power reactors, 1994-2011

million pounds U₃O₈ equivalent

Delivery Year	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Total Purchased	38.3	43.4	47.3	42.0	42.7	47.9	51.8	55.4	52.7	56.6	64.1	65.7	66.5	51.0	53.4	49.8	46.6	54.8
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	0.4	0.6
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	11.7	14.8
Purchased from other Owners and Operators of U.S. Civilian Nuclear Power Reactors, other U.S. Suppliers, (and U.S. Government for 2007) ¹	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	1.9	1.1
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	32.6	38.4
U.S.-Origin Uranium	7.7	5.2	8.3	8.1	7.2	11.4	13.3	13.2	6.2	10.2	12.3	11.0	10.8	4.0	7.7	7.1	3.7	5.2
Foreign-Origin Uranium	30.6	38.2	39.0	33.9	35.6	36.5	38.6	42.2	46.5	46.4	51.8	54.7	55.7	47.0	45.6	42.8	42.9	49.6
Spot Contracts ²	8.5	13.6	9.1	5.5	7.8	8.0	10.4	14.4	8.6	8.2	9.2	6.9	6.3	6.6	8.7	8.1	8.2	12.0
Short, Medium, and Long-Term Contracts ³	29.8	29.8	38.3	36.5	34.9	40.0	39.1	40.0	41.4	46.7	53.3	58.8	59.4	43.7	42.8	41.0	37.9	42.3

¹ 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.

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

³ 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. 2003-2011-Form EIA-858, "Uranium Marketing Annual Survey".

Table S1b. Weighted-average price of uranium purchased by owners and operators of U.S. civilian nuclear power reactors, 1994-2011

dollars per pound U₃O₈ equivalent

Delivery Year	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Total Purchased (Weighted-Average Price)	10.40	11.25	14.12	12.88	12.14	11.63	11.04	10.15	10.36	10.81	12.61	14.36	18.61	32.78	45.88	45.86	49.29	55.64
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	47.13	58.12
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	44.98	53.29
Purchased from other Owners and Operators of U.S. Civilian Nuclear Power Reactors, other U.S. Suppliers, (and U.S. Government for 2007) ¹																		
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	51.30	56.60
U.S.-Origin Uranium (Weighted-Average Price)	12.08	14.20	14.62	13.36	13.37	12.24	11.52	10.50	10.89	10.81	11.87	15.11	17.85	28.89	59.55	48.92	45.25	52.12
Foreign-Origin Uranium (Weighted-Average Price)	9.97	10.84	14.02	12.78	11.90	11.47	10.88	10.05	10.29	10.81	12.76	14.21	18.75	33.05	43.47	45.35	49.64	55.98
Spot Contracts ² (Weighted-Average Price)	9.01	10.30	14.22	11.61	10.56	9.52	8.54	7.92	9.29	10.10	14.77	20.04	39.48	88.25	66.95	46.45	43.99	54.69
Short, Medium, and Long-Term Contracts ³ (Weighted-Average Price)	NA	NA	NA	NA	NA	NA	11.70	10.96	10.58	10.94	12.24	13.70	16.38	24.45	41.59	45.74	50.43	55.90

¹ 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.

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

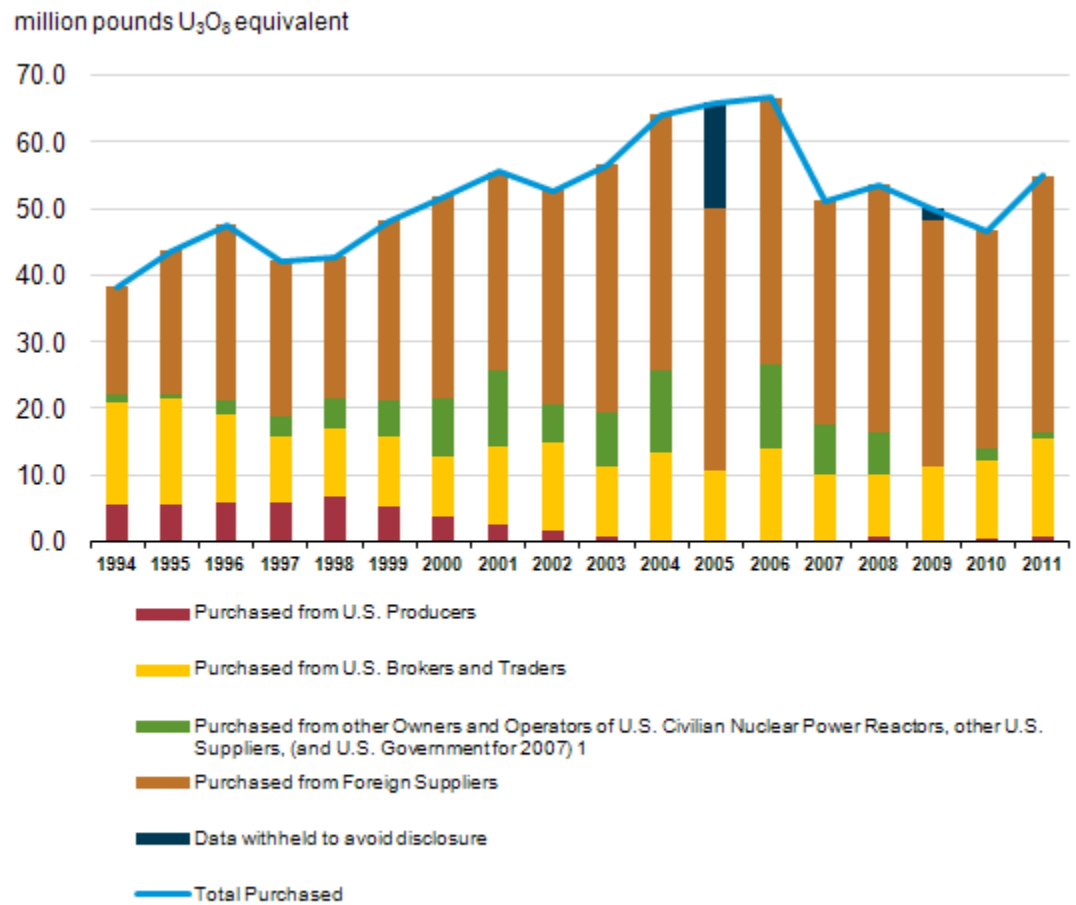
³ Short, Medium, and Long-Term Contracts: One or more deliveries to occur after a year following contract execution (signed date).

-- = 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.

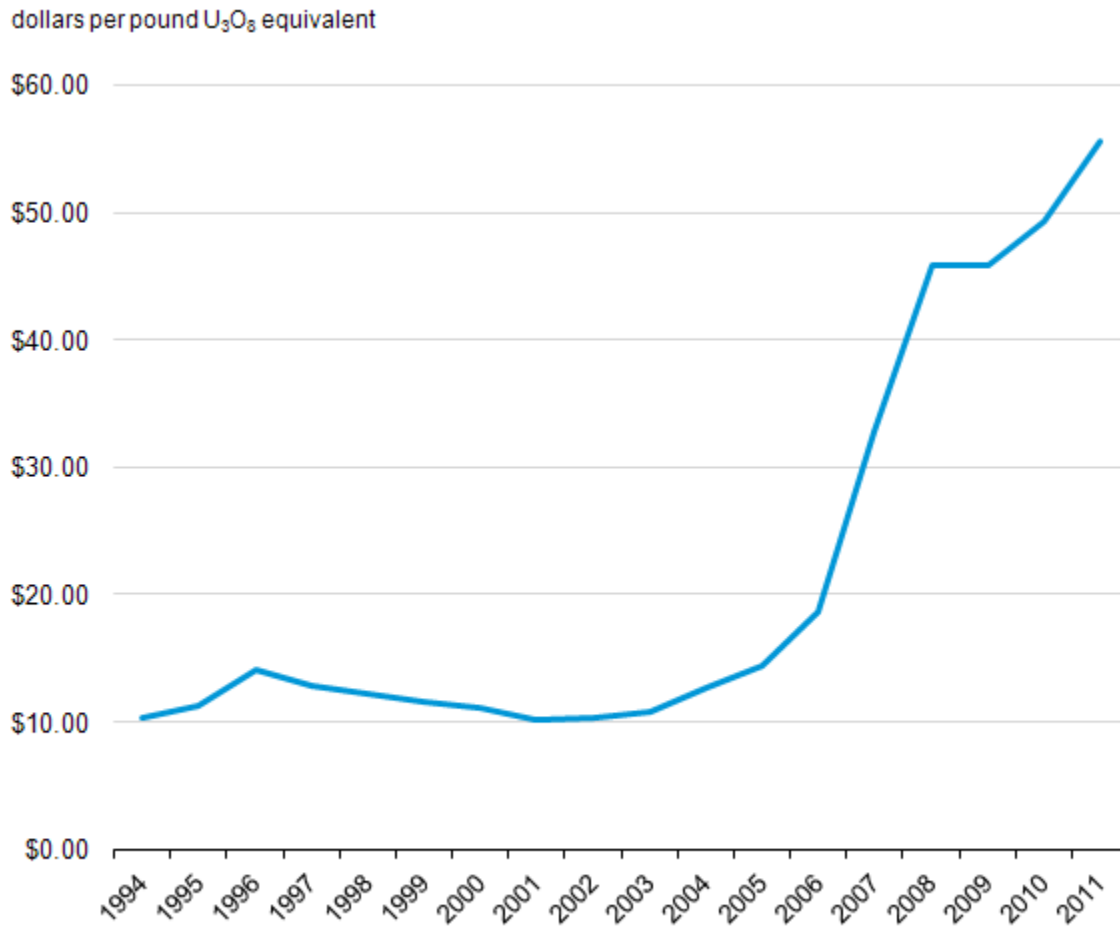
Sources: U.S. Energy Information Administration: 1994-2002-*Uranium Industry Annual*, Tables 10, 11 and 16. 2003-2011-Form EIA-858, "Uranium Marketing Annual Survey".

Figure S1. Uranium purchased by owners and operators of U.S. civilian nuclear power reactors, 1994-2011 deliveries



Sources: U.S. Energy Information Administration: 1994-2002-Uranium Industry Annual reports. 2003-2011-Form EIA-858, "Uranium Marketing Annual Survey".

Figure S2. Weighted-average price of uranium purchased by owners and operators of U.S. civilian nuclear power reactors, 1994-2011 deliveries



Sources: U.S. Energy Information Administration: 1994-2002-Uranium Industry Annual reports. 2003-2011-Form EIA-858, "Uranium Marketing Annual Survey".

Table S2. Uranium feed deliveries, enrichment services, and uranium loaded by owners and operators of U.S. civilian nuclear power

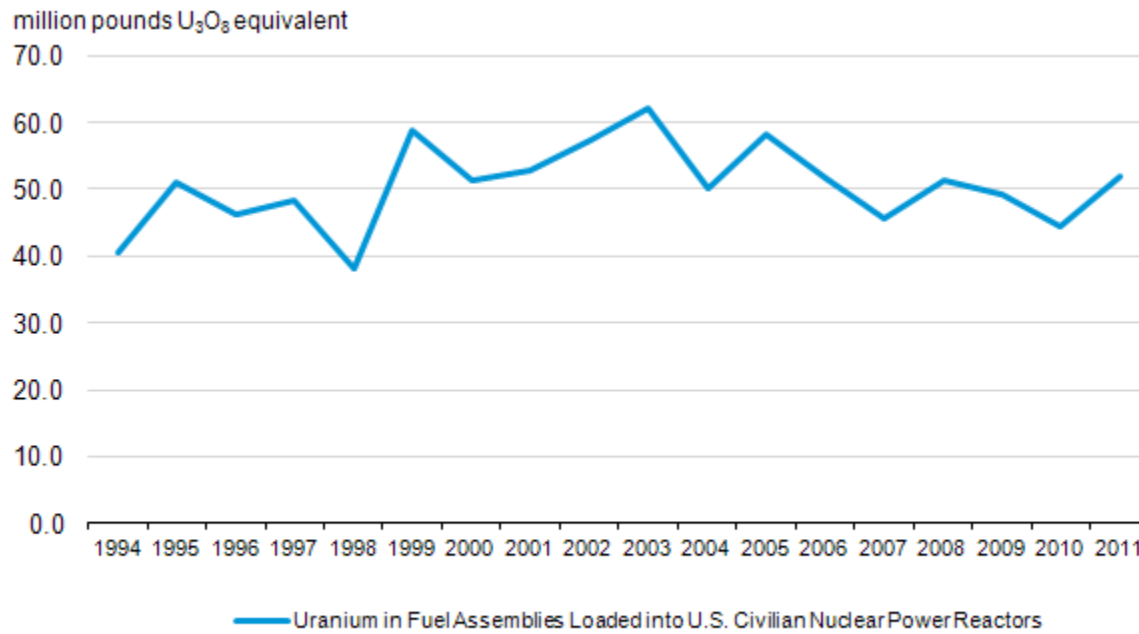
Million Pounds U ₃ O ₈ Equivalent	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Feed Deliveries by Owners and Operators of U.S. Civilian Nuclear Power Reactors	37.6	44.3	49.1	40.3	40.6	43.9	47.8	47.3	54.7	49.3	53.4	52.9	56.6	49.0	43.4	51.9	45.5	51.3
Uranium 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	44.3	52.0
Million Separative Work Units (SWU)																		
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	2.3	2.4
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	11.5	12.4
Total Purchased Enrichment Services	9.2	9.5	11.2	8.9	10.1	10.0	11.8	10.4	11.5	12.0	11.8	11.4	13.4	14.2	12.6	17.2	13.8	14.8
Average Price (US\$ per SWU)	-	-	-	-	-	-	-	-	-	-	-	-	106.57	114.58	121.33	130.78	136.14	136.12

- = No data reported.

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

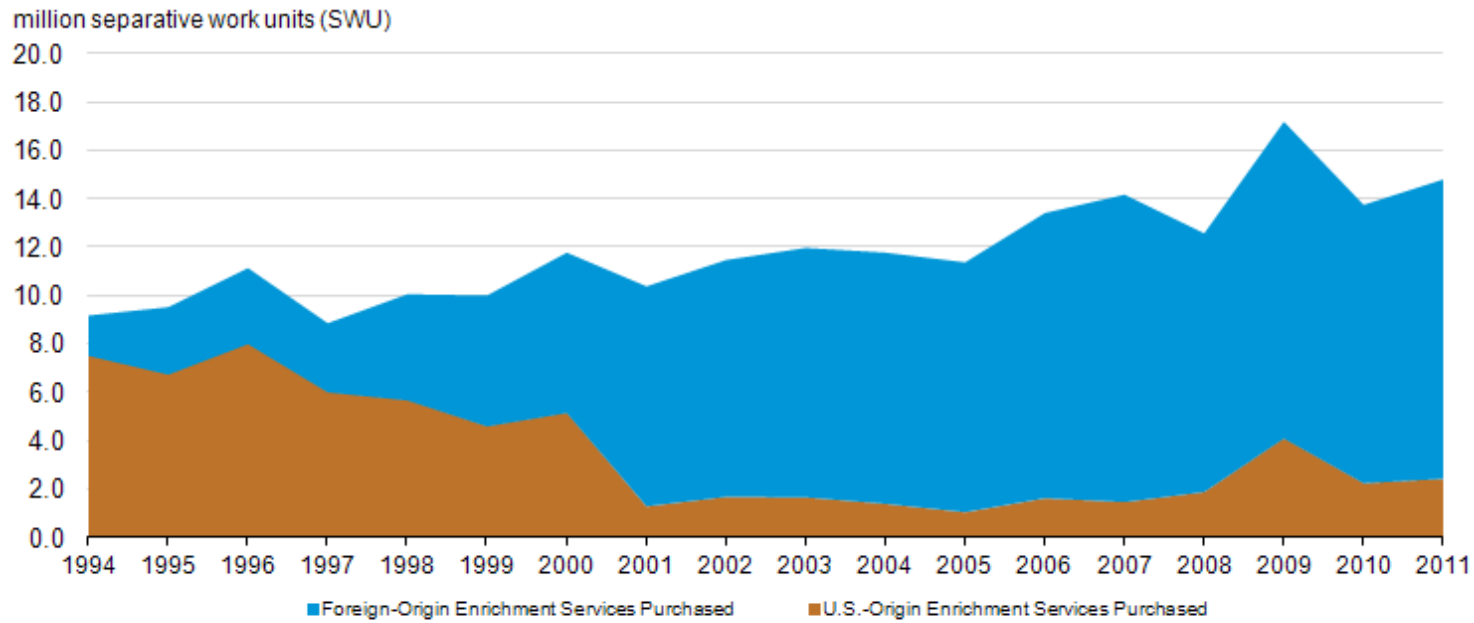
Sources: U.S. Energy Information Administration: 1994-2002-*Uranium Industry Annual*, Tables 22, 23, 25, and 27. 2003-2011-Form EIA-858, "Uranium Marketing Annual Survey".

Figure S3. Uranium loaded into U.S. civilian nuclear power reactors, 1994-2011



Sources: U.S. Energy Information Administration: 1994-2002-Uranium Industry Annual reports. 2003-2011-Form EIA-858, "Uranium Marketing Annual Survey".

Figure S4. Uranium enrichment services purchased by owners and operators of U.S. civilian nuclear power reactors, 1994-2011



Sources: U.S. Energy Information Administration: 1994-2002-Uranium Industry Annual reports. 2003-2011-Form EIA-858, "Uranium Marketing Annual Survey".

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, 1994-2011

Delivery Year	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
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	25.0	19.3
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	30.4	35.1
Total Foreign Purchases	36.6	41.3	45.4	43.0	43.7	47.6	44.9	46.7	52.7	53.0	66.1	65.5	64.8	54.1	57.1	58.9	55.3	54.4
U.S. Broker and Trader Purchases from Foreign Suppliers	22.3	18.3	17.8	15.7	21.7	19.2	15.8	18.3	18.6	15.8	26.4	24.0	24.0	18.9	21.3	26.8	24.7	19.6
Foreign Sales	17.7	9.8	11.5	17.0	15.1	8.5	13.6	11.7	15.4	13.2	13.2	20.5	18.7	14.8	17.2	23.5	23.1	16.7
Year-End Inventories																		
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	24.7	24.1
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	84.8	86.5	89.5
Total Commercial Uranium Inventories	86.9	72.5	80.0	106.2	136.5	127.1	111.3	103.8	102.1	85.5	95.2	93.8	106.6	112.4	110.0	111.5	111.3	113.6

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, 1994-2011

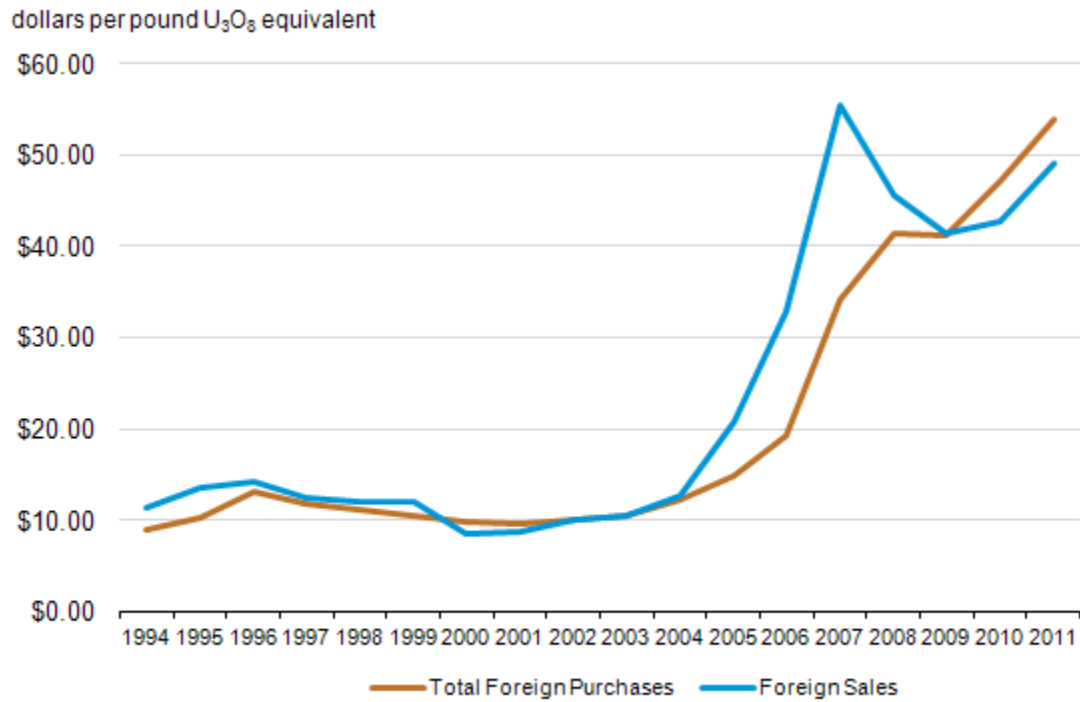
dollars per pound U₃O₈ equivalent

Delivery Year	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
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	41.30	48.80
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	51.69	56.87
Total Foreign Purchases (Weighted-Average Price)	8.95	10.20	13.15	11.81	11.19	10.55	9.84	9.51	10.05	10.59	12.25	14.83	19.31	34.18	41.30	41.23	47.01	54.00
U.S. Broker and Trader Purchases from Foreign Suppliers (Weighted-Average Price)	7.87	9.02	11.78	10.71	10.77	9.60	8.61	8.87	9.59	10.19	11.15	15.68	21.61	39.88	35.39	34.88	41.23	49.27
Foreign Sales (Weighted-Average Price)	11.34	13.48	14.20	12.39	12.05	11.97	8.48	8.79	10.04	10.39	12.63	20.70	32.87	55.47	45.62	41.48	42.78	49.05

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.

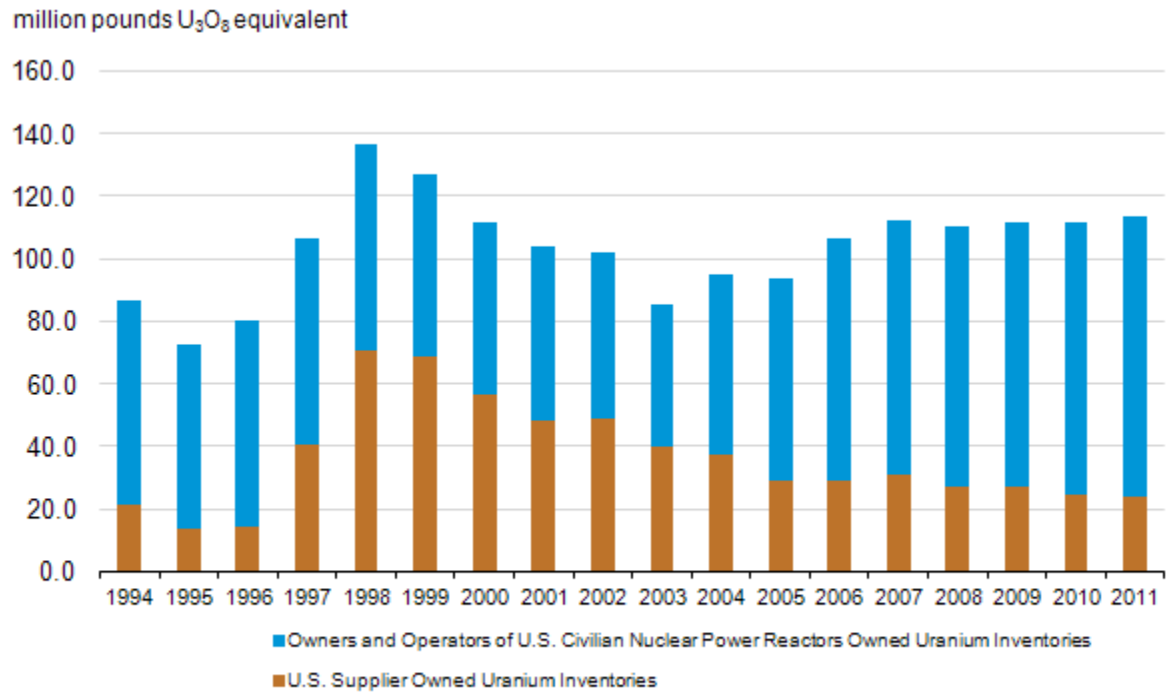
Sources: U.S. Energy Information Administration: 1994-2002-*Uranium Industry Annual*, Tables 28, 29, 30 and 31. 2003-2011-Form EIA-858, "Uranium Marketing Annual Survey".

Figure S5. Weighted-average price of foreign purchases and foreign sales of uranium, 1994-2011



Sources: U.S. Energy Information Administration: 1994-2002-Uranium Industry Annual reports. 2003-2011-Form EIA-858, "Uranium Marketing Annual Survey".

Figure S6. Total commercial uranium inventories of U.S. suppliers and owners and operators of U.S. civilian nuclear power reactors, 1994-2011



Sources: Energy Information Administration: 1994-2002-Uranium Industry Annual reports. 2003-2011-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, 2007-2011

thousand pounds U₃O₈ equivalent; dollars per pound U₃O₈ equivalent

Deliveries	2007	2008	2009	2010	2011
Purchased from U.S. Producers					
Purchases of U.S.-Origin and Foreign-Origin Uranium	0	562	W	350	550
Weighted-Average Price	--	75.16	W	47.13	58.12
Purchased from U.S. Brokers and Traders					
Purchases of U.S.-Origin and Foreign-Origin Uranium	9,849	9,373	11,125	11,745	14,778
Weighted-Average Price	34.10	39.62	41.88	44.98	53.29
Purchased from other Owners and Operators of U.S. Civilian Nuclear Power Reactors					
Purchases	W	W	W	0	0
Weighted-Average Price	W	W	W	--	--
Purchased from other U.S. Suppliers (and U.S. Government for 2007)					
Purchases of U.S.-Origin and Foreign-Origin Uranium	W	W	W	1,851	1,061
Weighted-Average Price	W	W	W	42.24	52.50
Purchased from Foreign Suppliers					
Purchases of U.S.-Origin and Foreign-Origin Uranium	33,523	37,156	36,823	32,637	38,442
Weighted-Average Price	32.36	48.49	46.68	51.30	56.60
Total Purchased by Owners and Operators of U.S. Civilian Nuclear Power Reactors					
Purchases of U.S.-Origin and Foreign-Origin Uranium	50,983	53,353	49,830	46,582	54,831
Weighted-Average Price	32.78	45.88	45.86	49.29	55.64

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

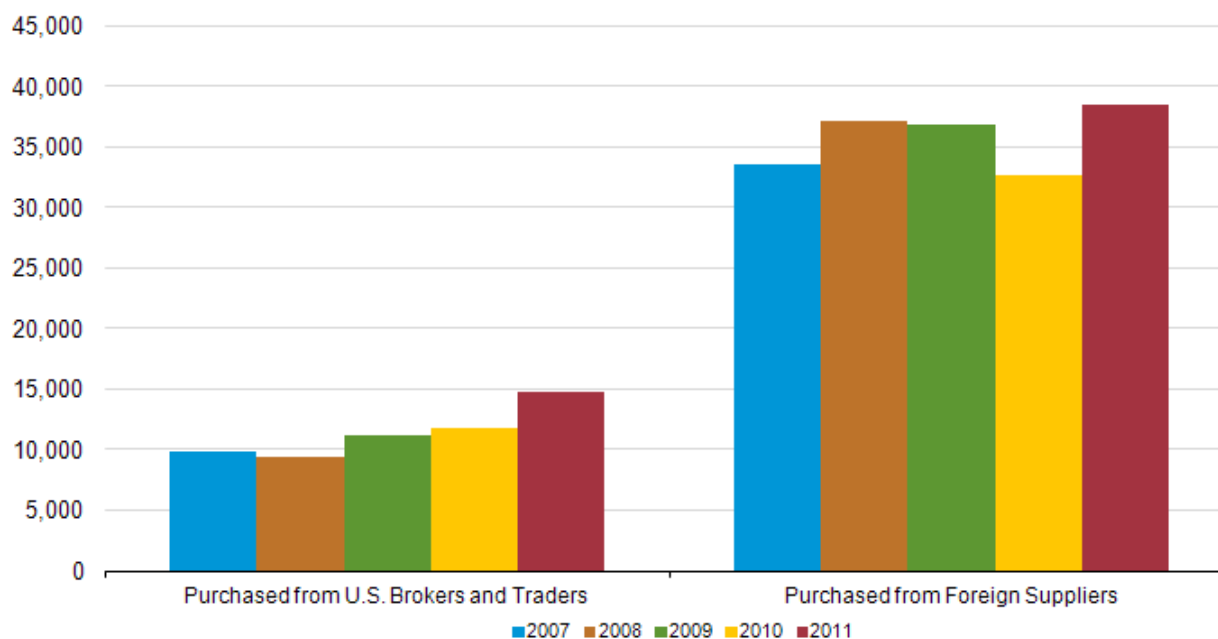
-- = Not applicable.

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" (2007-2011).

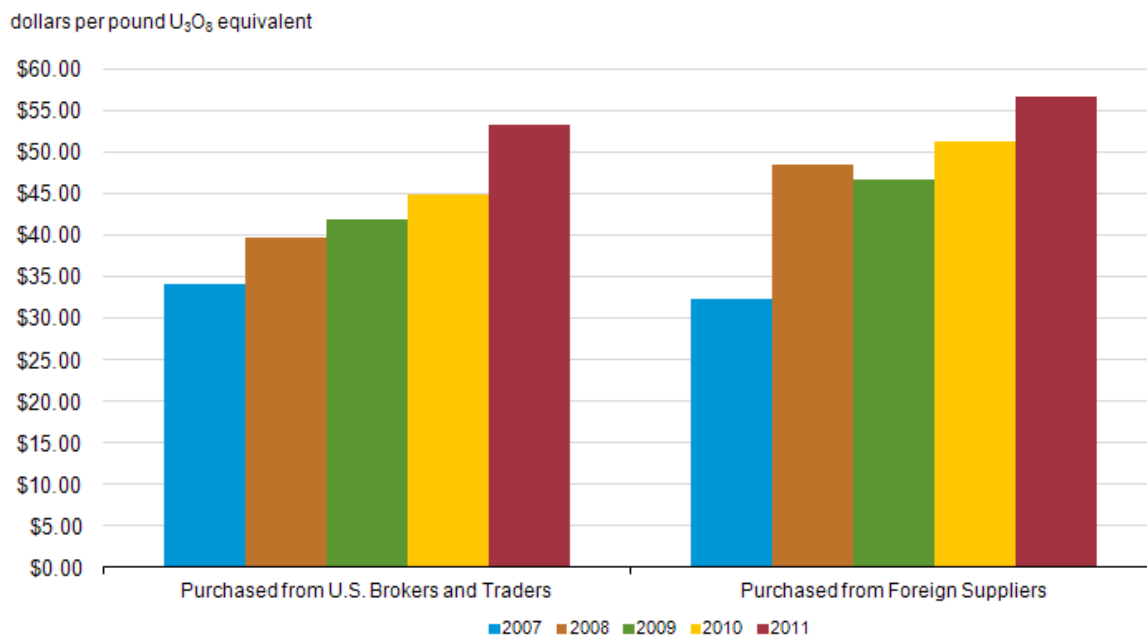
Figure 1. Uranium purchased by owners and operators of U.S. civilian nuclear power reactors by supplier and delivery year, 2007-2011

thousand pounds U₃O₈ equivalent



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2007-2011).

Figure 2. Weighted-average price of uranium purchased by owners and operators of U.S. civilian nuclear power reactors by supplier and delivery year, 2007-2011



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2007-2011).

Table 2. Uranium purchased by owners and operators of U.S. civilian nuclear power reactors by origin and delivery year, 2007-2011

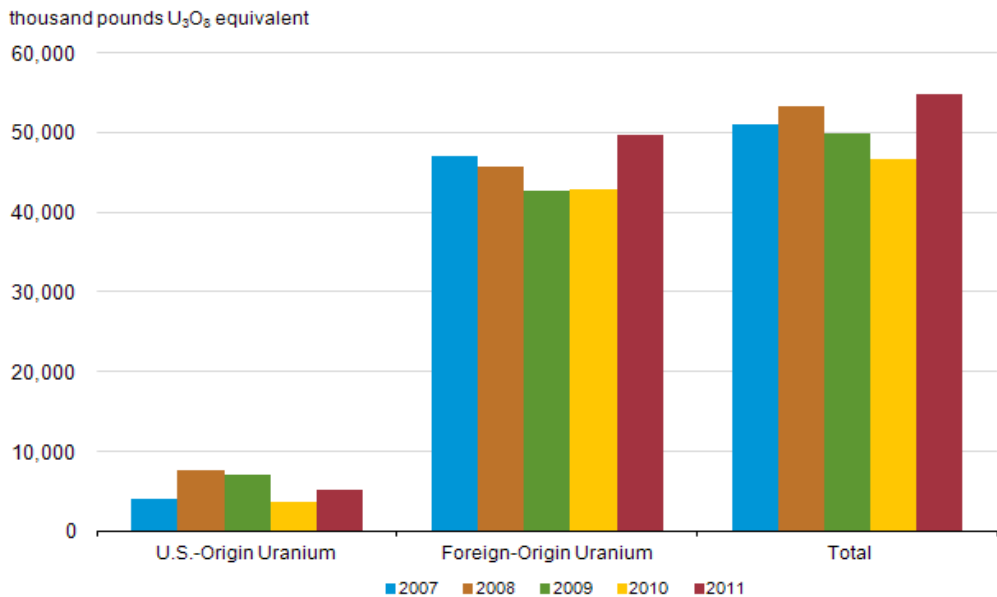
thousand pounds U₃O₈ equivalent; dollars per pound U₃O₈ equivalent

Deliveries	2007	2008	2009	2010	2011
U.S.-Origin Uranium					
Purchases	3,973	7,720	7,053	3,687	5,205
Weighted-Average Price	28.89	59.55	48.92	45.25	52.12
Foreign-Origin Uranium					
Purchases	47,011	45,633	42,777	42,895	49,626
Weighted-Average Price	33.05	43.47	45.35	49.64	55.98
Total					
Purchases	50,983	53,353	49,830	46,582	54,831
Weighted-Average Price	32.78	45.88	45.86	49.29	55.64

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

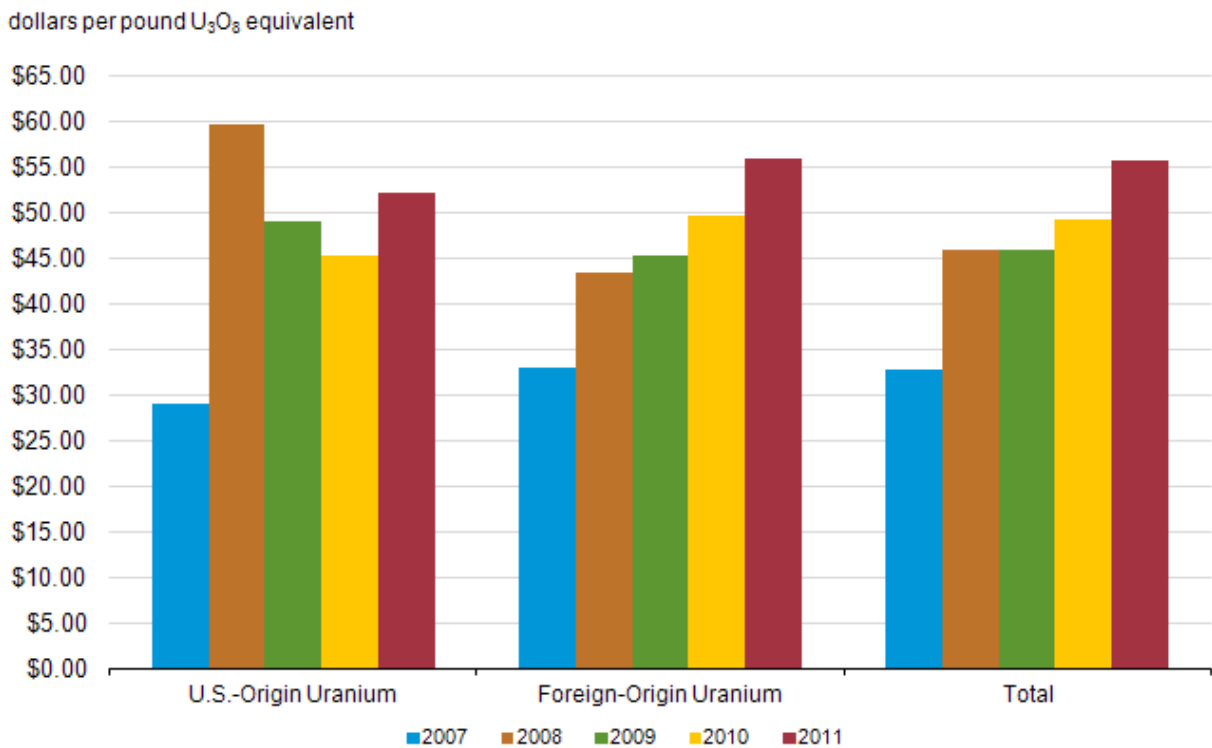
Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2007-2011).

Figure 3. Uranium purchased by owners and operators of U.S. civilian nuclear power reactors by origin and delivery year, 2007-2011



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2007-2011).

Figure 4. Weighted-average price of uranium purchased by owners and operators of U.S. civilian nuclear power reactors by origin and delivery year, 2007-2011



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2007-2011).

Table 3. Uranium purchased by owners and operators of U.S. civilian nuclear power reactors by origin country and delivery year, 2007-2011

thousand pounds U₃O₈ equivalent; dollars per pound U₃O₈ equivalent

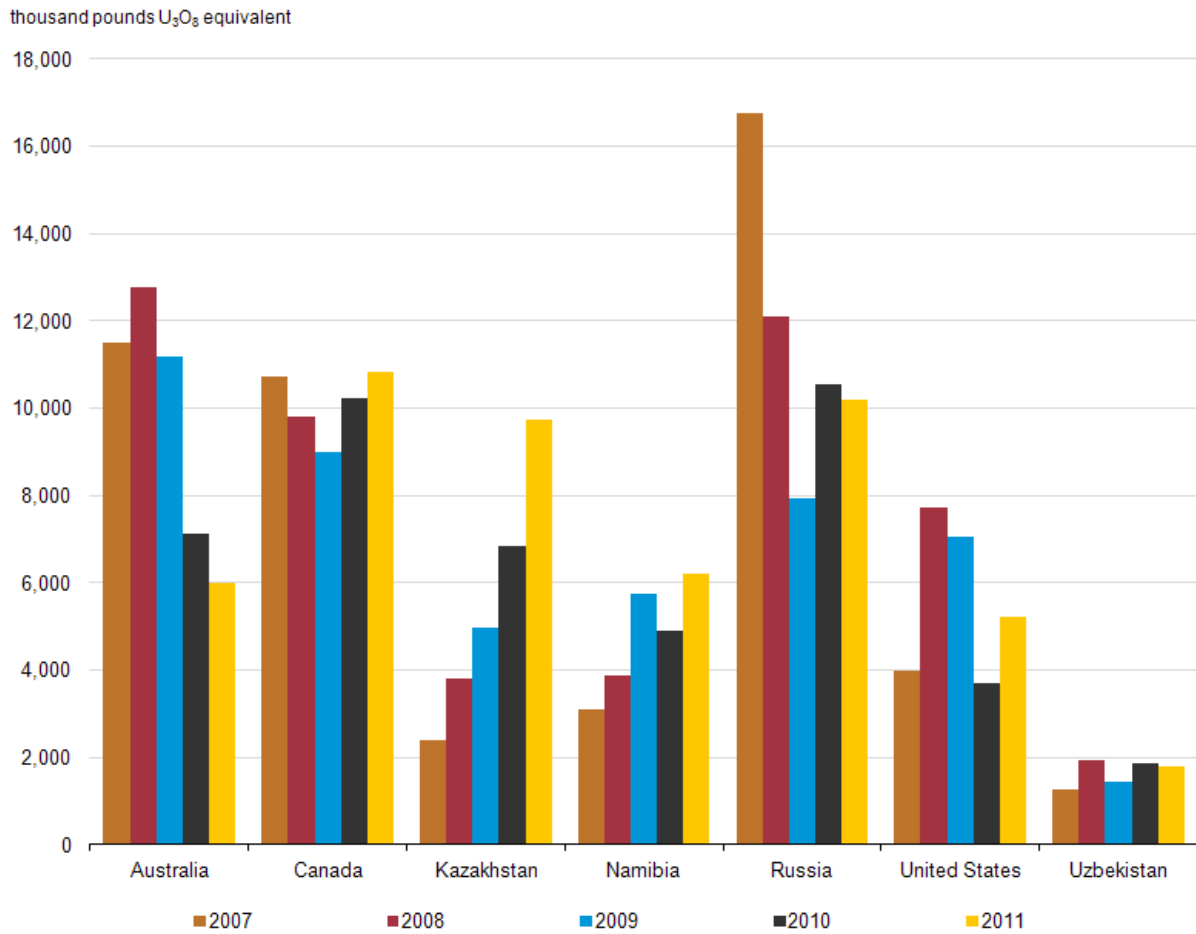
Origin Country	Deliveries in 2007		Deliveries in 2008		Deliveries in 2009		Deliveries in 2010		Deliveries in 2011	
	Purchases	Weighted-Average Price	Purchases	Weighted-Average Price	Purchases	Weighted-Average Price	Purchases	Weighted-Average Price	Purchases	Weighted-Average Price
Australia	11,507	30.35	12,758	41.59	11,164	52.25	7,112	51.35	6,001	57.47
Brazil	W	W	W	W	W	W	W	W	W	W
Canada	10,717	32.89	9,791	48.72	8,975	42.25	10,238	50.35	10,832	56.08
China	0	--	0	--	0	--	0	--	W	W
Czech Republic	347	77.02	W	W	W	W	W	W	0	--
Germany	0	--	0	--	0	--	W	W	0	--
Hungary	0	--	0	--	0	--	W	W	0	--
Kazakhstan	2,407	57.36	3,818	60.61	4,985	43.41	6,830	47.81	9,728	53.71
Kyrgyzstan	W	W	0	--	0	--	0	--	0	--
Malawi	0	--	0	--	0	--	W	W	780	65.44
Namibia	3,115	25.24	3,880	54.79	5,732	47.30	4,913	47.90	6,199	56.74
Niger	W	W	W	W	2,001	47.55	587	49.00	1,744	54.38
Russia	16,766	32.04	12,080	27.64	7,938	37.98	10,544	50.28	10,199	56.57
South Africa	W	W	783	27.50	W	W	W	W	1,524	53.62
Ukraine	W	W	0	--	0	--	W	W	W	W
United Kingdom	0	--	W	W	0	--	0	--	0	--
Uzbekistan	1,263	24.42	1,923	56.06	1,424	46.65	1,865	48.57	1,808	55.99
Foreign Total	47,011	33.05	45,633	43.47	42,777	45.35	42,895	49.64	49,626	55.98
United States	3,973	28.89	7,720	59.55	7,053	48.92	3,687	45.25	5,205	52.12
Total Purchases	50,983	32.78	53,353	45.88	49,830	45.86	46,582	49.29	54,831	55.64

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" (2007-2011).

Figure 5. Uranium purchased by owners and operators of U.S. civilian nuclear power reactors by selected origin country and delivery year, 2007-2011



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2007-2011).

Table 4. Uranium purchased by owners and operators of U.S. civilian nuclear power reactors by origin and material type, 2011 deliveries

thousand pounds U₃O₈ equivalent; dollars per pound U₃O₈ equivalent

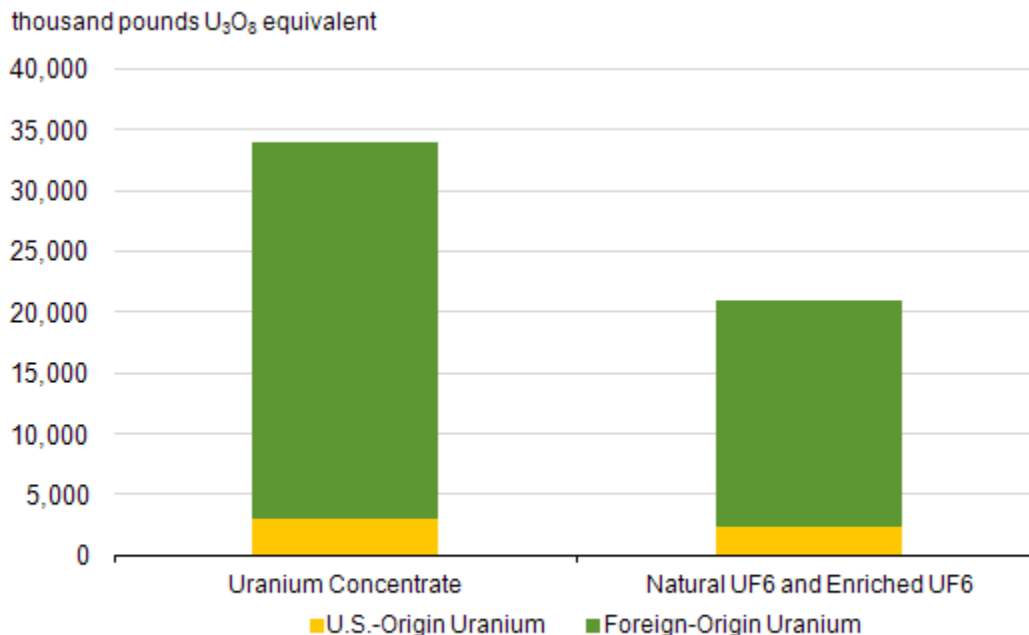
Deliveries	Uranium Concentrate	Natural UF ₆	Enriched UF ₆	Natural UF ₆ and Enriched UF ₆	Total
U.S.-Origin Uranium					
Purchases	2,907	W	W	2,299	5,205
Weighted-Average Price	53.71	W	W	49.70	52.12
Foreign-Origin Uranium					
Purchases	30,989	W	W	18,637	49,626
Weighted-Average Price	54.79	W	W	57.97	55.98
Total					
Purchases	33,896	W	W	20,935	54,831
Weighted-Average Price	54.70	W	W	57.19	55.64

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 UF₆ is uranium hexafluoride. The natural UF₆ and enriched UF₆ quantity represents only the U₃O₈ equivalent uranium-component quantity specified in the contract for each delivery of natural UF₆ and enriched UF₆. The natural UF₆ and enriched UF₆ weighted-average price represent only the U₃O₈ equivalent uranium-component price specified in the contract for each delivery of natural UF₆ and enriched UF₆, and does not include the conversion service and enrichment service components.

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2011).

Figure 6. Uranium purchased by owners and operators of U.S. civilian nuclear power reactors by material type, 2011 deliveries



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2011).

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, 2010-2011

dollars per pound U₃O₈ equivalent; thousand pounds U₃O₈ equivalent

Pricing Mechanisms	Domestic Purchases ¹		Foreign Purchases ²		Total Purchases	
	2010	2011	2010	2011	2010	2011
Contract-Specified (Fixed and Base-Escalated) Pricing						
Weighted-Average Price	42.03	53.48	45.75	56.20	43.78	54.86
Quantity with Reported Price	10,783	11,597	9,557	11,928	20,341	23,525
Spot-Market Pricing						
Weighted-Average Price	46.44	51.56	51.51	57.72	50.32	55.57
Quantity with Reported Price	1,433	2,931	4,667	5,494	6,100	8,425
Other Pricing						
Weighted-Average Price	52.02	54.37	55.37	57.06	54.69	56.48
Quantity with Reported Price	4,004	4,854	15,615	17,505	19,620	22,359
All Pricing Mechanisms						
Weighted-Average Price	44.88	53.41	51.69	56.87	49.29	55.64
Quantity with Reported Price	16,220	19,381	29,839	34,927	46,060	54,308
Total Quantity	16,220	19,760	30,362	35,071	46,582	54,831

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

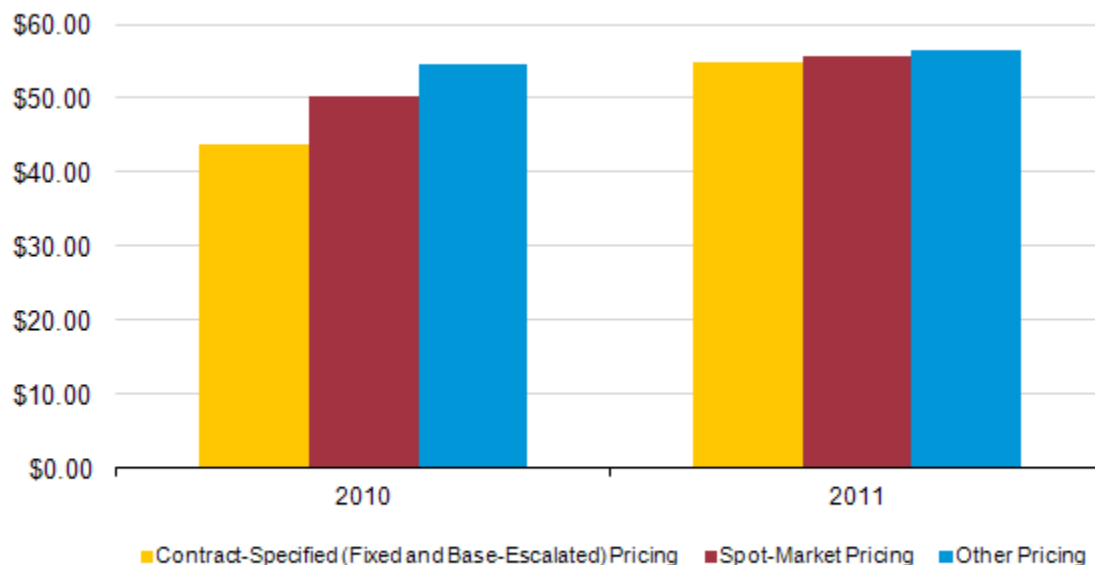
² A uranium purchase of foreign-origin uranium from a firm located outside of the United States.

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" (2010-2011).

Figure 7. Average price for uranium purchased by owners and operators of U.S. civilian nuclear power reactors by pricing mechanisms and delivery year, 2010-2011

dollars per pound U₃O₈ equivalent



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2010-2011).

Table 6a. Uranium purchased by owners and operators of U.S. civilian nuclear power reactors ranked by price and distributed by quantity, 2009-2011 deliveries

thousand pounds U₃O₈ equivalent; dollars per pound U₃O₈ equivalent

Quantity Distribution ¹	Deliveries in 2009		Deliveries in 2010		Deliveries in 2011	
	Quantity with Reported Price	Weighted-Average Price	Quantity with Reported Price	Weighted-Average Price	Quantity with Reported Price	Weighted-Average Price
First	6,145	17.84	5,757	31.91	6,789	34.97
Second	6,145	31.26	5,757	40.66	6,789	46.48
Third	6,145	39.57	5,757	43.60	6,789	50.80
Fourth	6,145	43.80	5,757	45.34	6,789	54.07
Fifth	6,145	46.71	5,757	47.89	6,789	57.21
Sixth	6,145	53.67	5,757	54.28	6,789	61.90
Seventh	6,145	62.46	5,757	60.21	6,789	65.21
Eighth	6,145	71.56	5,757	70.44	6,789	74.45
Total	49,163	45.86	46,060	49.29	54,308	55.64

¹ 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" (2009-2011).

Table 6b. Uranium purchased by owners and operators of U.S. civilian nuclear power reactors ranked by price and distributed by purchaser, 2009-2011 deliveries

thousand pounds U₃O₈ equivalent; dollars per pound U₃O₈ equivalent

Distribution of Purchasers	Deliveries in 2009			Deliveries in 2010			Deliveries in 2011		
	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	9	18,835	35.28	9	5,650	40.28	9	11,382	46.76
Second	8	10,173	44.42	9	21,274	45.77	8	21,780	54.02
Third	8	11,270	50.19	8	11,944	51.64	8	14,043	58.44
Fourth	8	8,886	64.44	8	7,192	62.88	8	7,104	69.28
Total	33	49,163	45.86	34	46,060	49.29	33	54,308	55.64

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" (2009-2011).

Table 7. Uranium purchased by owners and operators of U.S. civilian nuclear power reactors by contract type and material type, 2011 deliveries

thousand pounds U₃O₈ equivalent; dollars per pound U₃O₈ equivalent

Material Type	Spot Contracts ¹		Long-Term Contracts ²		Total	
	Quantity with Reported Price	Weighted-Average Price	Quantity with Reported Price	Weighted-Average Price	Quantity with Reported Price	Weighted-Average Price
U ₃ O ₈	6,398	53.81	27,498	54.90	33,896	54.70
Natural UF ₆	W	W	W	W	W	W
Enriched UF ₆	W	W	W	W	W	W
Natural UF ₆ and Enriched UF ₆	5,628	55.68	14,784	57.77	20,413	57.19
Total	12,027	54.69	42,282	55.90	54,308	55.64

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

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

² 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. UF₆ is uranium hexafluoride. The natural UF₆ and enriched UF₆ quantity represents only the U₃O₈ equivalent uranium-component quantity specified in the contract for each delivery of natural UF₆ and enriched UF₆. The natural UF₆ and enriched UF₆ weighted-average price represent only the U₃O₈ equivalent uranium-component price specified in the contract for each delivery of natural UF₆ and enriched UF₆, and does not include the conversion service and enrichment service components.

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2011).

Table 8. Contracts signed in 2011 by owners and operators of U.S. civilian nuclear power reactors by contract type

thousand pounds U₃O₈ equivalent; dollars per pound U₃O₈ equivalent

Purchase Contract Type (Signed in 2011)	Quantity of Deliveries		Number of Purchase Contracts for Deliveries in 2011
	Received in 2011	Weighted-Average Price	
Spot	W	W	77
Long-Term	W	W	2
Total	10,234	56.07	79

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" (2011).

Table 9. Contracted purchases of uranium by owners and operators of U.S. civilian nuclear power reactors, signed in 2011, by delivery year, 2012-2021

thousand pounds U₃O₈ equivalent

Year of Delivery	Minimum	Maximum
2012	2,927	2,938
2013	3,668	3,739
2014	2,634	2,925
2015	3,292	3,633
2016	3,066	3,672
2017	2,351	3,022
2018	1,790	2,040
2019	2,651	2,992
2020	W	W
2021	W	W
Total	24,088	26,861

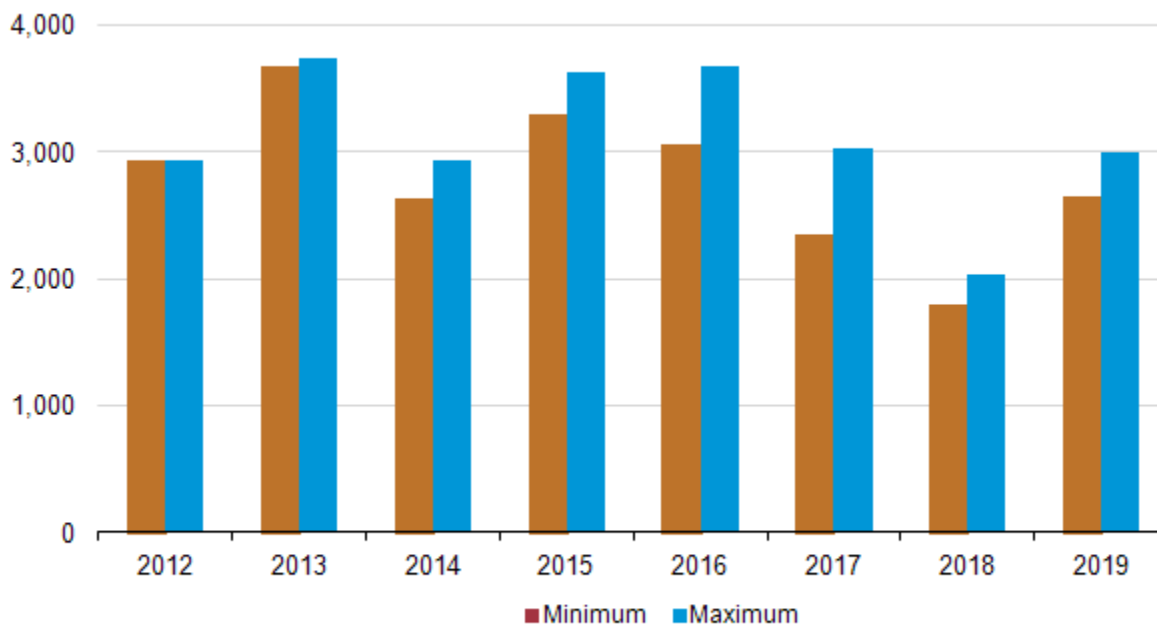
W = Data withheld to avoid disclosure of individual company data.

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" (2011).

Figure 8. Contracted purchases of uranium by owners and operators of U.S. civilian nuclear power reactors, signed in 2011, by delivery year, 2012-2019

thousand pounds U₃O₈ equivalent



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2011).

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 2011, by delivery year, 2012-2021

thousand pounds U₃O₈ equivalent

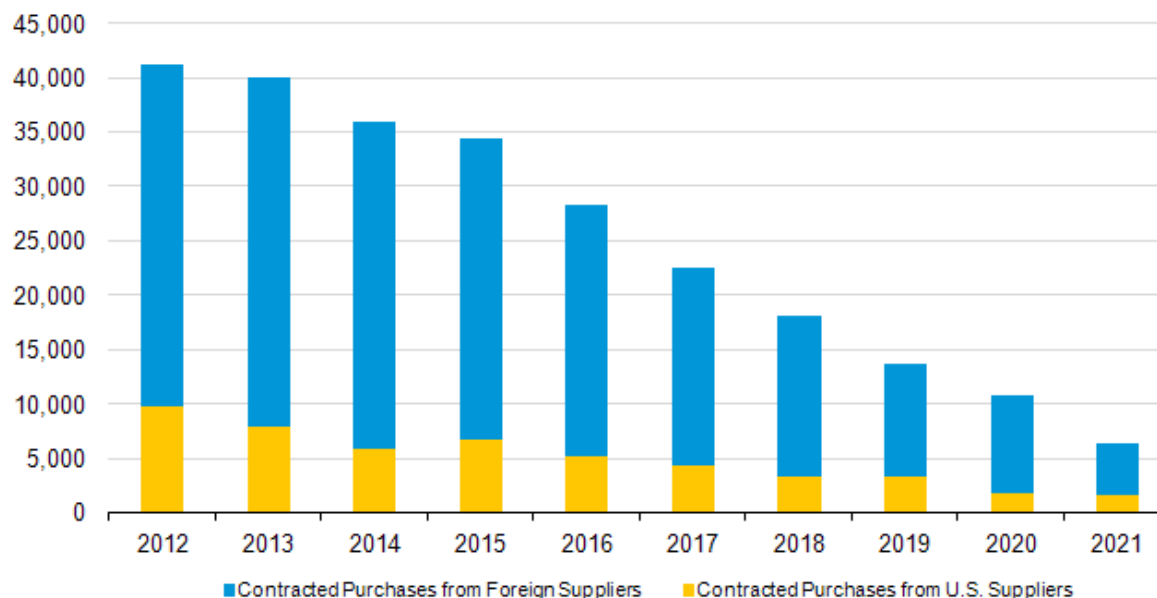
Year of Delivery	Contracted Purchases from U.S. Suppliers		Contracted Purchases from Foreign Suppliers		Contracted Purchases from All Suppliers	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
2012	9,545	9,753	31,151	31,508	40,695	41,260
2013	7,775	7,874	31,741	32,201	39,516	40,074
2014	5,785	5,984	29,127	30,068	34,912	36,051
2015	6,497	6,825	26,399	27,684	32,896	34,509
2016	4,883	5,186	21,612	23,212	26,496	28,398
2017	4,062	4,423	17,223	18,163	21,285	22,586
2018	3,049	3,294	14,125	14,854	17,174	18,148
2019	3,121	3,402	9,719	10,340	12,840	13,743
2020	1,761	1,921	8,536	8,952	10,296	10,872
2021	1,487	1,678	4,434	4,763	5,921	6,441
Total	47,967	50,338	194,064	201,743	242,031	252,081

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" (2011).

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 2011, by delivery year, 2012-2021

thousand pounds U₃O₈ equivalent



Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2011).

Table 11. Unfilled uranium market requirements of owners and operators of U.S. civilian nuclear power reactors, 2011-2021

thousand pounds U₃O₈ equivalent

Year	As of December 31, 2010		As of December 31, 2011	
	Annual	Cumulative	Annual	Cumulative
2011	3,658	3,658	-	--
2012	10,326	13,983	2,096	2,096
2013	10,860	24,844	6,740	8,836
2014	18,232	43,076	8,765	17,601
2015	19,672	62,748	19,528	37,128
2016	31,673	94,421	24,059	61,187
2017	30,819	125,240	28,255	89,442
2018	39,352	164,592	35,266	124,708
2019	44,836	209,428	40,901	165,608
2020	45,907	255,336	44,668	210,277
2021	-	--	44,803	255,080

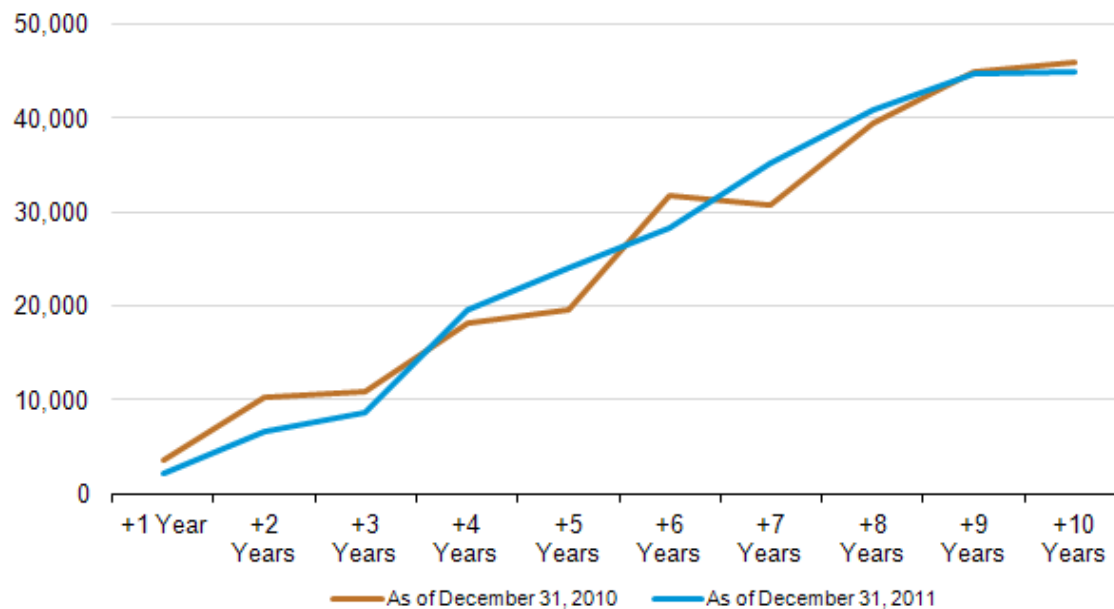
- = No data reported. -- = Not applicable.

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" (2010-2011).

Figure 10. Annual unfilled uranium market requirements of owners and operators of U.S. civilian nuclear power reactors, as of 12/31/2010 and 12/31/2011

thousand pounds U₃O₈ equivalent



Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2010-2011).

Table 12. Maximum anticipated uranium market requirements of owners and operators of U.S. civilian nuclear power reactors, 2012-2021, as of December 31, 2011

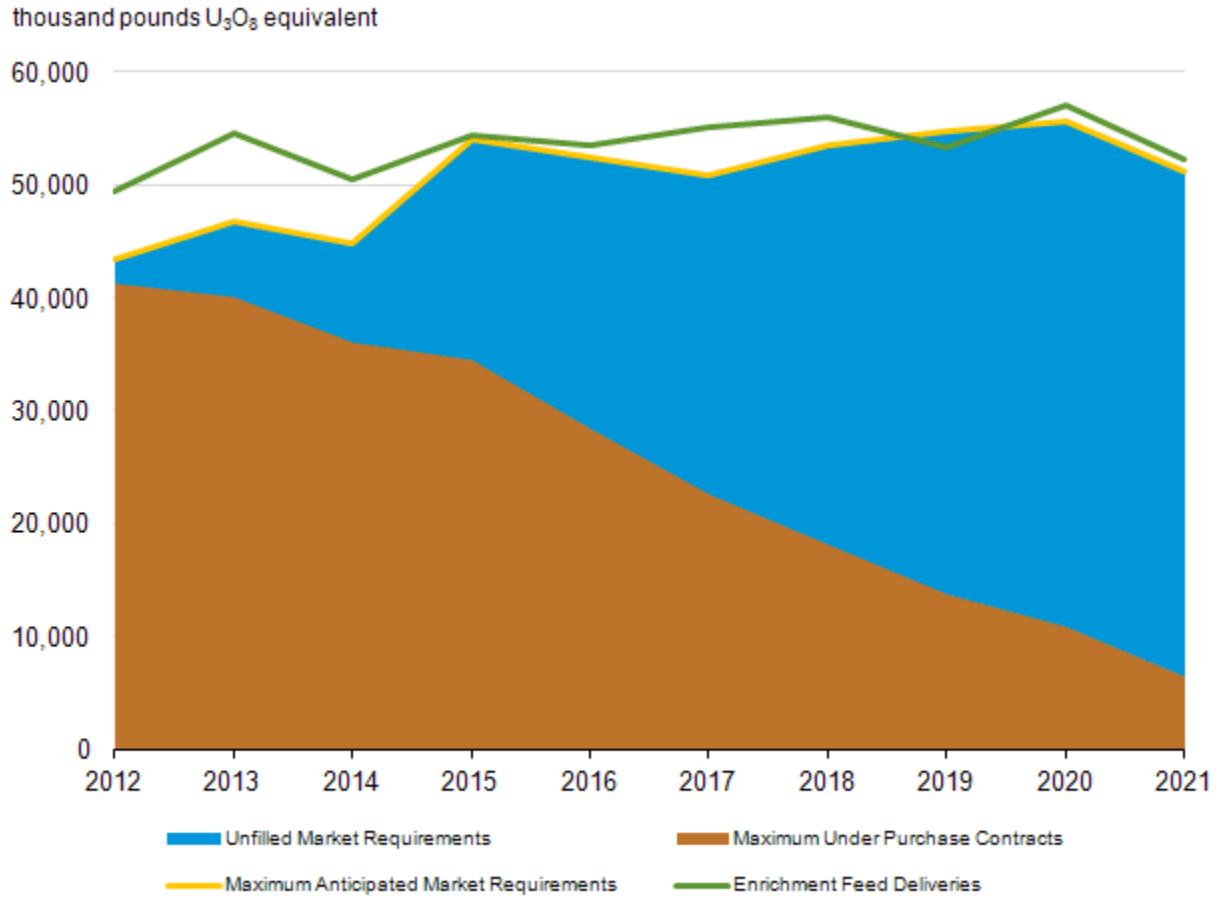
thousand pounds U₃O₈ equivalent

Year	Maximum Under Purchase Contracts	Unfilled Market Requirements	Maximum Anticipated Market Requirements	Enrichment Feed Deliveries
2012	41,260	2,096	43,356	49,329
2013	40,074	6,740	46,814	54,620
2014	36,051	8,765	44,816	50,521
2015	34,509	19,528	54,037	54,346
2016	28,398	24,059	52,456	53,523
2017	22,586	28,255	50,841	55,100
2018	18,148	35,266	53,413	55,939
2019	13,743	40,901	54,643	53,339
2020	10,872	44,668	55,541	56,996
2021	6,441	44,803	51,244	52,269
Total	252,081	255,080	507,161	535,981

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" (2011).

Figure 11. Maximum anticipated uranium market requirements of owners and operators of U.S. civilian nuclear power reactors, 2012-2021, as of December 31, 2011



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2011).

Table 13. Deliveries of uranium feed by owners and operators of U.S. civilian nuclear power reactors by enrichment country and delivery year, 2009-2011

thousand pounds U₃O₈ equivalent

Enrichment Country	Feed Deliveries in 2009			Feed Deliveries in 2010			Feed Deliveries in 2011		
	U.S.- Origin	Foreign- Origin	Total	U.S.- Origin	Foreign- Origin	Total	U.S.- Origin	Foreign- Origin	Total
China	0	0	0	0	0	0	0	W	W
France	W	W	3,391	0	2,831	2,831	0	2,126	2,126
Germany	W	W	W	0	W	W	W	W	2,665
Netherlands	W	W	2,262	W	W	W	0	W	W
Russia	0	W	W	0	2,112	2,112	W	W	W
United Kingdom	249	6,142	6,392	W	W	4,353	W	W	3,816
Europe ¹	1,044	5,824	6,868	0	5,367	5,367	1,116	7,617	8,733
Other ²	0	W	W	0	0	0	0	0	0
Foreign Total	1,721	22,984	24,705	W	W	19,372	2,137	18,977	21,113
United States	5,347	21,827	27,173	W	W	26,095	2,293	27,865	30,158
Total	7,068	44,811	51,878	3,245	42,223	45,468	4,430	46,842	51,271

¹ Specific country in Europe was not reported.

² Specific country was not reported.

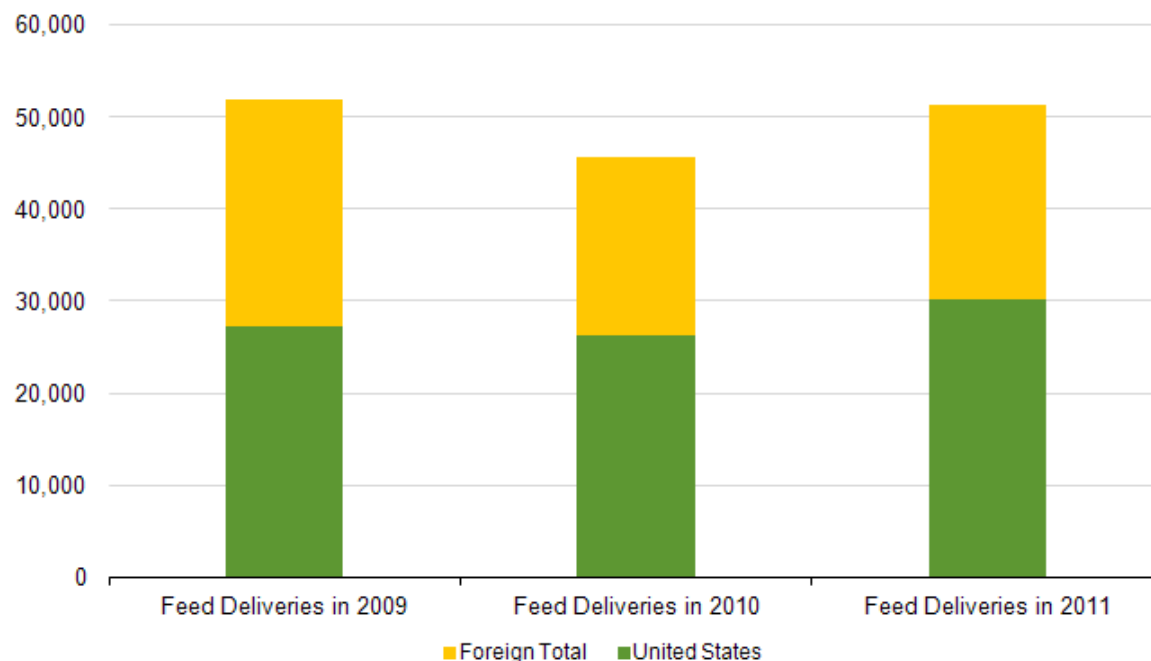
W = Data withheld to avoid disclosure of individual company data.

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" (2009-2011).

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, 2009-2011

thousand pounds U₃O₈ equivalent



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2009-2011).

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, 2009-2011

thousand pounds U₃O₈ equivalent

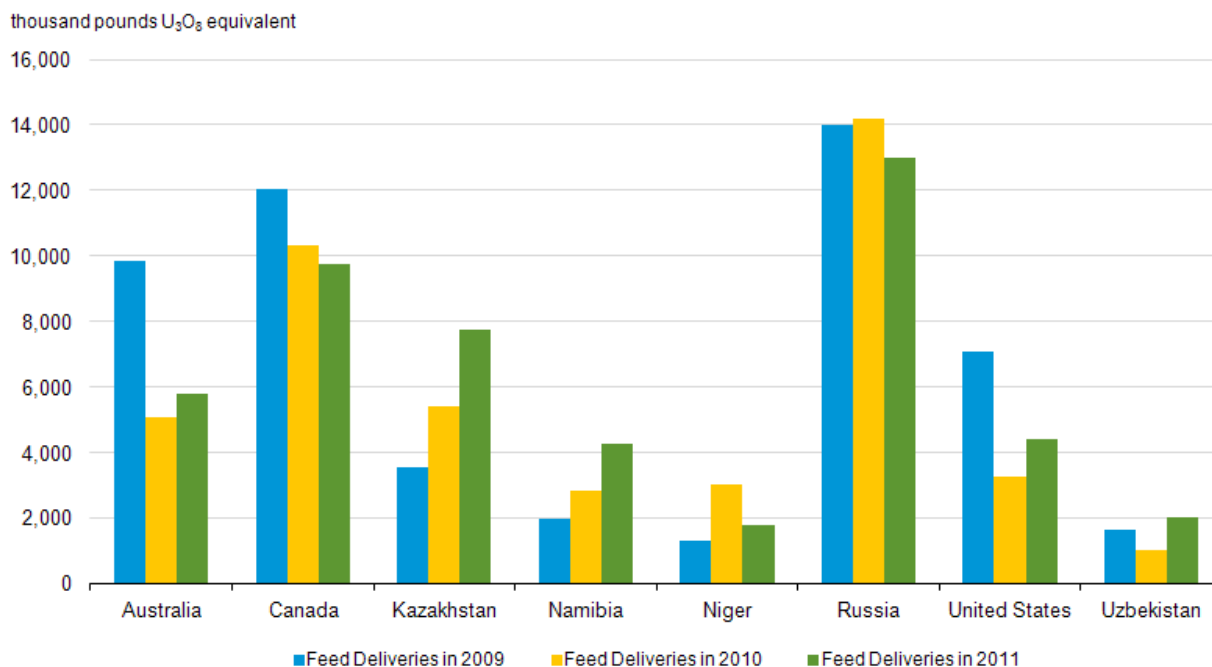
Origin Country of Feed	Deliveries in 2009			Deliveries in 2010			Deliveries in 2011		
	U.S. Enrichment	Foreign Enrichment	Total	U.S. Enrichment	Foreign Enrichment	Total	U.S. Enrichment	Foreign Enrichment	Total
Australia	3,005	6,845	9,850	2,646	2,451	5,097	3,504	2,311	5,815
Brazil	W	W	W	W	0	W	0	W	W
Canada	3,889	8,136	12,025	4,454	5,857	10,311	6,171	3,565	9,736
China	0	0	0	W	0	W	0	W	W
Czech Republic	0	0	0	W	0	W	W	0	W
Germany	0	0	0	0	0	0	0	W	W
Kazakhstan	1,492	2,068	3,561	2,532	2,887	5,418	3,761	3,980	7,740
Malawi	0	0	0	0	0	0	0	W	W
Namibia	W	W	1,991	1,545	1,309	2,854	2,745	1,522	4,267
Niger	0	1,315	1,315	W	W	3,030	W	W	1,795
Russia	11,453	2,531	13,983	10,817	3,357	14,174	10,400	2,580	12,979
South Africa	W	W	W	W	W	W	W	W	847
Ukraine	0	0	0	0	0	0	0	W	W
United Kingdom	0	0	0	W	0	W	0	0	0
Uzbekistan	512	1,127	1,639	219	800	1,019	777	1,224	2,001
Foreign Total	21,827	22,984	44,811	W	W	42,223	27,865	18,977	46,842
United States	5,347	1,721	7,068	W	W	3,245	2,293	2,137	4,430
Total	27,173	24,705	51,878	26,095	19,372	45,468	30,158	21,113	51,271

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" (2009-2011).

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, 2009-2011



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2009-2011).

Table 15. Shipments of uranium feed by owners and operators of U.S. civilian nuclear power reactors to domestic and foreign enrichment suppliers, 2012-2021

thousand pounds U₃O₈ equivalent

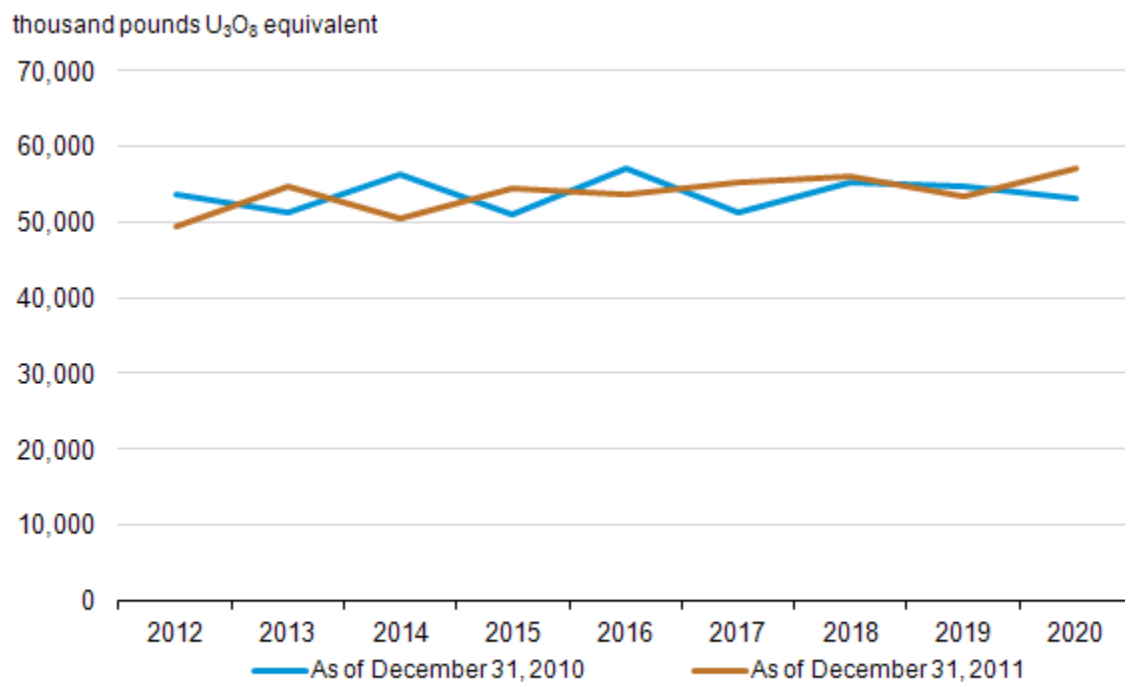
Year of Shipment	Amount of Feed to be Shipped		Change from 2010 to 2011	
	As of December 31, 2010	As of December 31, 2011	Annual	Cumulative
2012	53,752	49,329	-4,423	-4,423
2013	51,269	54,620	3,351	-1,072
2014	56,229	50,521	-5,708	-6,780
2015	50,915	54,346	3,431	-3,349
2016	57,108	53,523	-3,585	-6,934
2017	51,346	55,100	3,754	-3,180
2018	55,175	55,939	764	-2,416
2019	54,698	53,339	-1,359	-3,775
2020	53,039	56,996	3,957	182
2021	-	52,269	--	--

- = 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" (2010-2011).

Figure 14. Shipments of uranium feed by owners and operators of U.S. civilian nuclear power reactors to domestic and foreign enrichment suppliers, 2012-2020



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2010-2011).

Table 16. Purchases of enrichment services by owners and operators of U.S. civilian nuclear power reactors by origin country and year, 2007-2011

thousand separative work units (SWU)

Country of Enrichment Service (SWU-origin)	2007	2008	2009	2010	2011
China	0	0	0	0	W
France	613	556	895	W	W
Germany	681	468	1,059	681	1,539
Netherlands	1,703	1,038	1,345	2,292	1,506
Russia	6,176	4,793	5,478	5,055	5,308
United Kingdom	1,939	2,195	2,940	2,119	2,813
Europe ¹	W	W	W	W	670
Other ²	W	W	W	W	0
Foreign Total	12,729	10,709	13,115	11,526	12,395
United States	1,473	1,890	4,102	2,251	2,434
Total	14,202	12,599	17,217	13,776	14,829
Average Price (US\$ per SWU)	114.58	121.33	130.78	136.14	136.12

¹ Specific country in Europe was not reported.

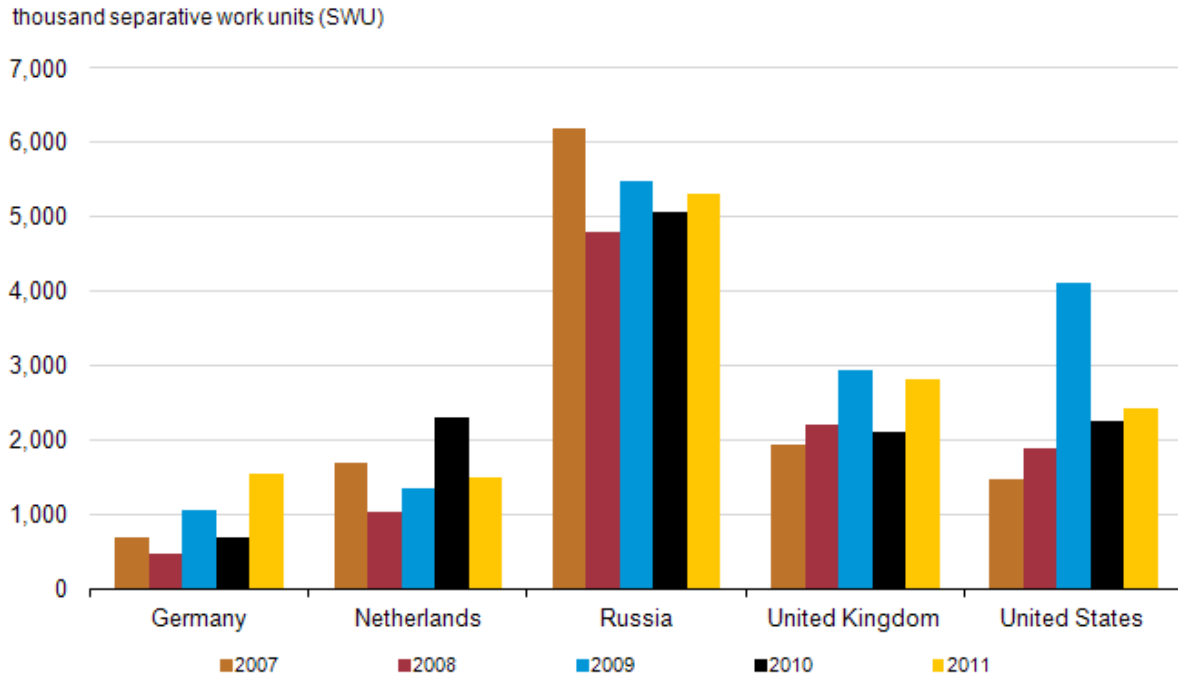
² Specific country was not reported.

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

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" (2007-2011).

Figure 15. Purchases of enrichment services by owners and operators of U.S. civilian nuclear power reactors by selected origin country and year, 2007-2011



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2007-2011).

Table 17. Purchases of enrichment services by owners and operators of U.S. civilian nuclear power reactors by contract type in delivery year, 2011

thousand separative work units (SWU)

Enrichment Service Contract Type	U.S. Enrichment	Foreign Enrichment	Total
Spot	W	W	870
Long-Term	W	W	13,959
Total	2,434	12,395	14,829

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" (2011).

Table 18. Uranium in fuel assemblies loaded into U.S. civilian nuclear power reactors by year, 2007-2011

thousand pounds U₃O₈ equivalent

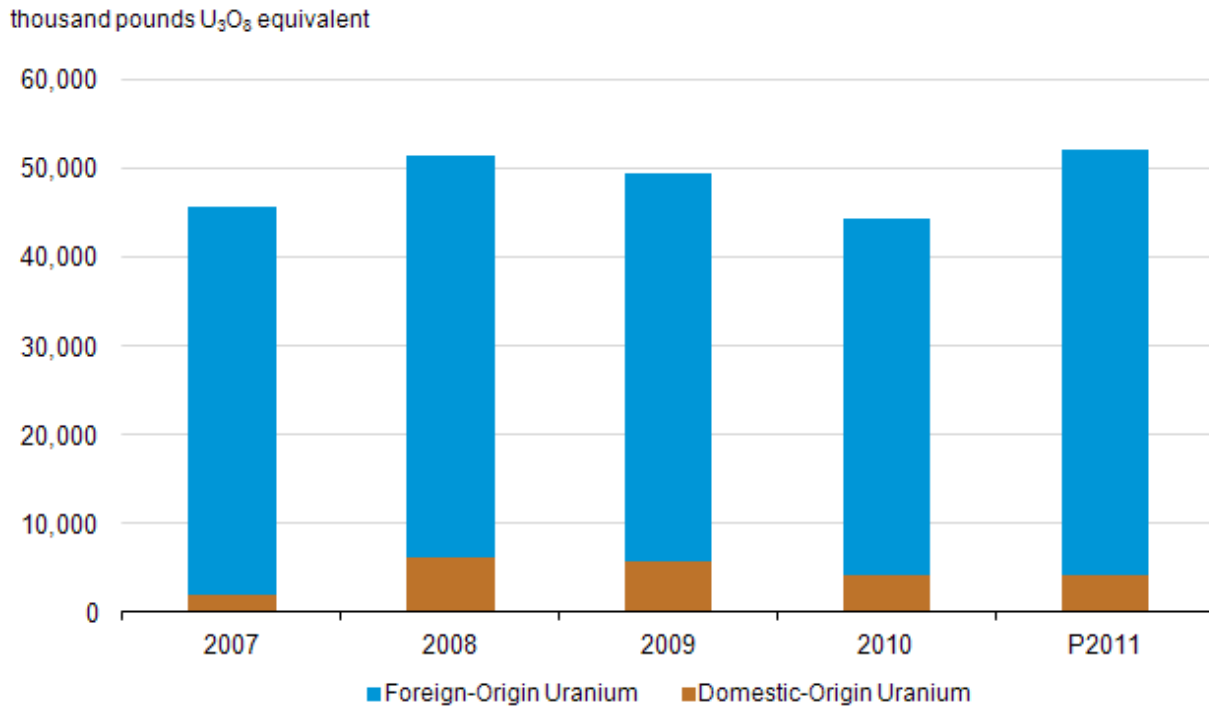
Origin of Uranium	2007	2008	2009	2010	P2011
Domestic-Origin Uranium	1,840	6,228	5,588	4,119	4,101
Foreign-Origin Uranium	43,659	45,040	43,766	40,187	47,878
Total	45,498	51,268	49,354	44,306	51,979

P = Preliminary data. Final 2010 fuel assembly data reported in the 2011 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" (2008-2011).

Figure 16. Uranium in fuel assemblies loaded into U.S. civilian nuclear power reactors by year, 2007-2011



P = Preliminary data. Final 2010 fuel assembly data reported in the 2011 survey.
Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2008-2011).

Table 19. Foreign purchases of uranium by U.S. suppliers and owners and operators of U.S. civilian nuclear power reactors by delivery year, 2007-2011

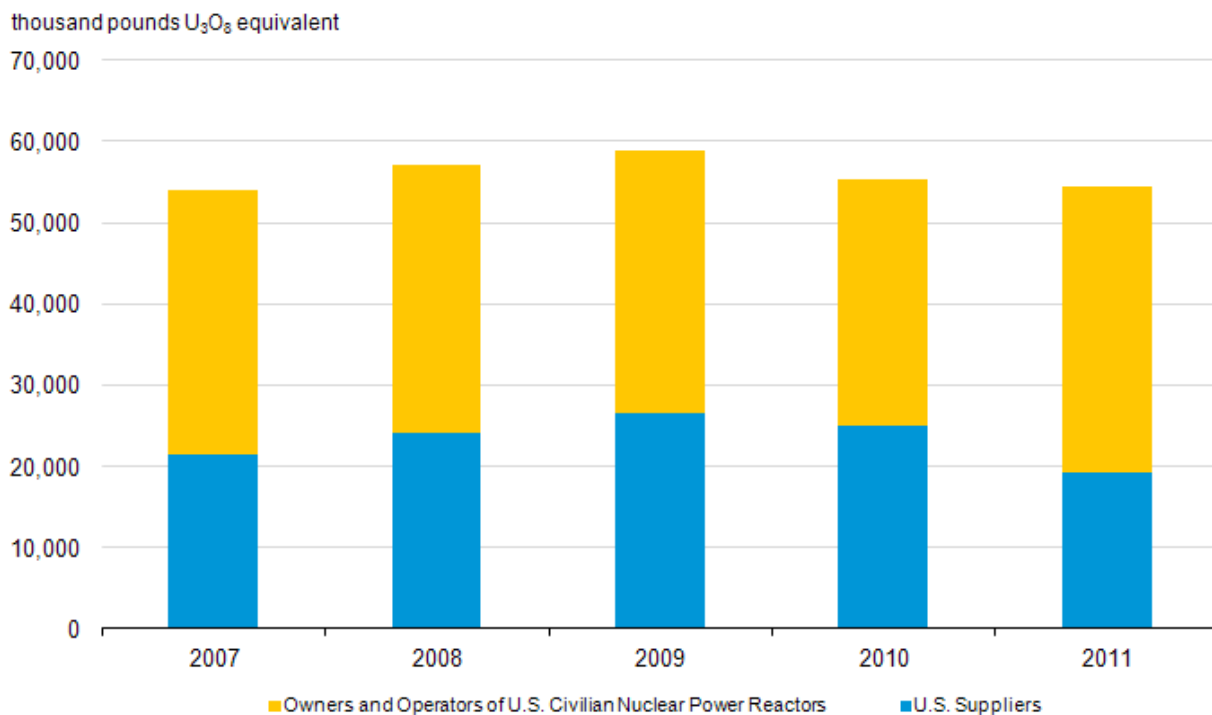
thousand pounds U₃O₈ equivalent; dollars per pound U₃O₈ equivalent

Deliveries	2007	2008	2009	2010	2011
U.S. Suppliers					
Foreign Purchases	21,572	24,139	26,661	24,985	19,318
Weighted-Average Price	36.59	33.30	34.80	41.30	48.80
Owners and Operators of U.S. Civilian Nuclear Power Reactors					
Foreign Purchases	32,517	32,936	32,239	30,362	35,071
Weighted-Average Price	32.58	47.46	46.55	51.69	56.87
Total					
Foreign Purchases	54,089	57,074	58,900	55,347	54,388
Weighted-Average Price	34.18	41.30	41.23	47.01	54.00

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" (2007-2011).

Figure 17. Foreign purchases of uranium by U.S. suppliers and owners and operators of U.S. civilian nuclear power reactors by delivery year, 2007-2011



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2007-2011).

Table 20. U.S. broker and trader purchases of uranium by origin, supplier, and delivery year, 2007-2011

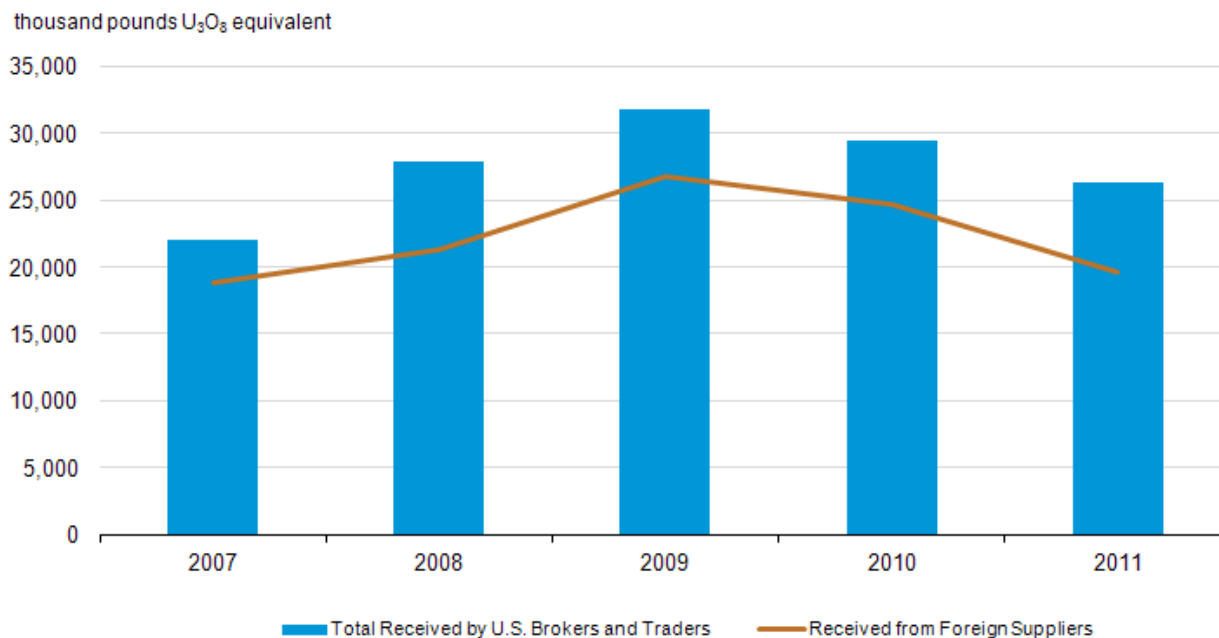
thousand pounds U₃O₈ equivalent; dollars per pound U₃O₈ equivalent

Deliveries	2007	2008	2009	2010	2011
Received U.S.-Origin Uranium					
Purchases	1,996	3,009	2,189	2,226	1,668
Weighted-Average Price	94.56	66.14	49.11	43.36	54.85
Received Foreign-Origin Uranium					
Purchases	20,046	24,861	29,568	27,186	24,695
Weighted-Average Price	45.00	38.78	35.96	41.42	49.69
Total Received by U.S. Brokers and Traders					
Purchases	22,042	27,871	31,757	29,412	26,363
Weighted-Average Price	49.49	41.73	36.87	41.57	50.02
Received from Foreign Suppliers					
Purchases	18,885	21,347	26,841	24,693	19,579
Weighted-Average Price	39.88	35.39	34.88	41.23	49.27

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" (2007-2011).

Figure 18. U.S. broker and trader purchases of uranium by supplier, and delivery year, 2007-2011



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2007-2011).

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, 2007-2011

thousand pounds U₃O₈ equivalent; dollars per pound U₃O₈ equivalent

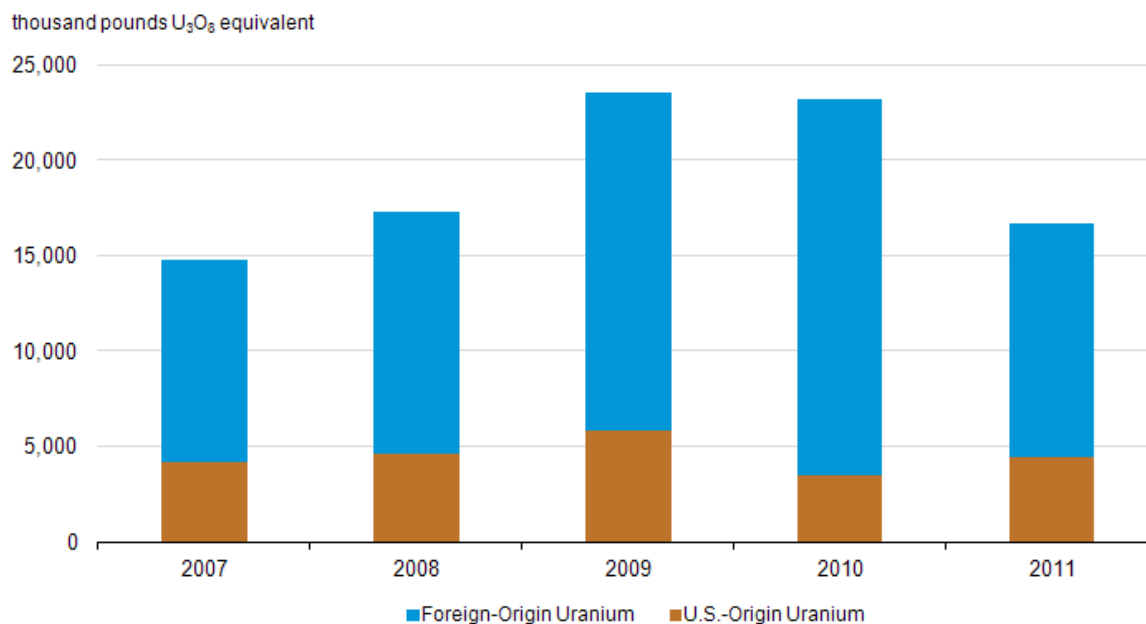
Deliveries to Foreign Suppliers and Utilities	2007	2008	2009	2010	2011
U.S.-Origin Uranium					
Foreign Sales	4,106	4,531	5,801	3,440	4,387
Weighted-Average Price	36.22	46.36	41.43	37.82	53.08
Foreign-Origin Uranium					
Foreign Sales	10,668	12,709	17,688	19,708	12,297
Weighted-Average Price	62.88	45.36	41.50	43.66	47.61
Total Sent:					
Foreign Sales	14,774	17,240	23,489	23,147	16,683
Weighted-Average Price	55.47	45.62	41.48	42.78	49.05
From Owners and Operators of U.S. Civilian Nuclear Power Reactors, U.S. Producers, and other U.S. Suppliers					
Foreign Sales	W	4,202	6,229	6,459	4,538
Weighted-Average Price	W	40.04	37.11	38.13	52.63
From U.S. Brokers and Traders					
Foreign Sales	W	13,038	17,260	16,688	12,145
Weighted-Average Price	W	47.42	43.06	44.63	47.71

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

Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2007-2011).

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, 2007-2011



Source: U.S. Energy Information Administration: Form EIA-858 "Uranium Marketing Annual Survey" (2007-2011).

Table 22. Inventories of natural and enriched uranium by material type as of end of year, 2007-2011

thousand pounds U₃O₈ equivalent

Type of Uranium Inventory	Inventories at the End of the Year				
	2007	2008	2009	2010	P2011
Owners and Operators of U.S. Civilian					
Nuclear Power Reactors Inventories	81,227	82,972	84,757	86,527	89,466
Uranium Concentrate (U ₃ O ₈)	8,494	12,286	15,094	13,076	14,718
Natural UF ₆	47,433	46,525	38,463	35,767	35,507
Enriched UF ₆	10,307	13,748	18,195	25,392	19,604
Fabricated Fuel (not inserted into a reactor)	14,994	10,414	13,006	12,292	19,638
U.S. Supplier Inventories	31,156	27,010	26,774	24,732	24,109
Uranium Concentrate (U ₃ O ₈)	12,356	12,264	12,132	10,153	8,243
Natural UF ₆	W	W	W	W	W
Enriched UF ₆	W	W	W	W	W
Fabricated Fuel (not inserted into a reactor)	0	0	0	0	0
Total Commercial Inventories	112,384	109,983	111,531	111,259	113,575

P = Preliminary data. Final 2010 inventory data reported in the 2011 survey.

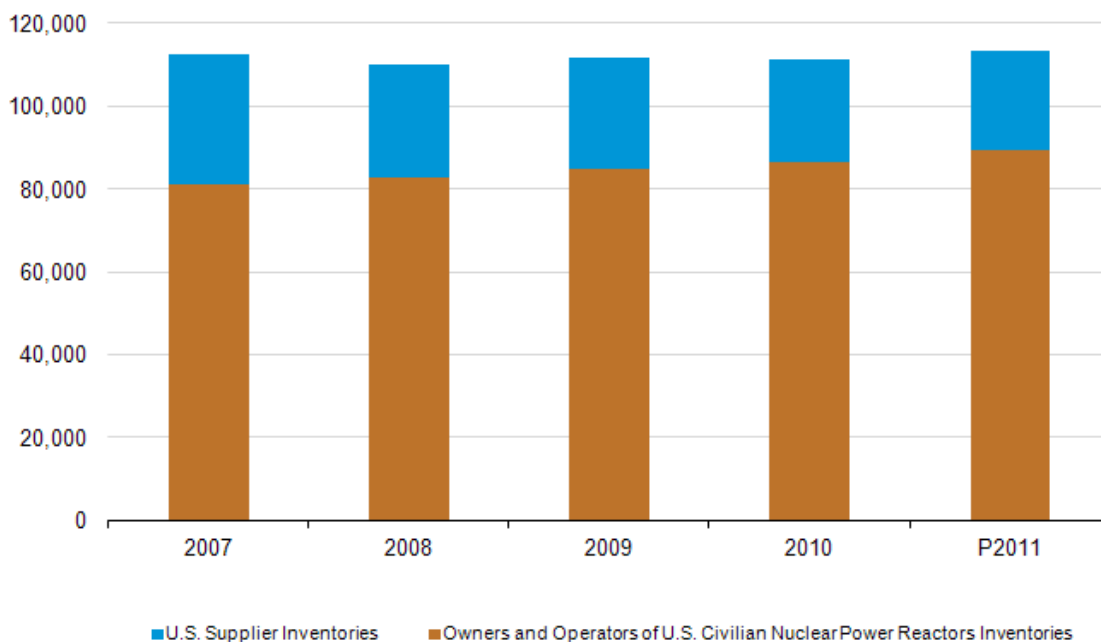
W = Data withheld to avoid disclosure of individual company data.

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" (2008-2011).

Figure 20. Commercial inventories of natural and enriched uranium as of end of year, 2007-2011

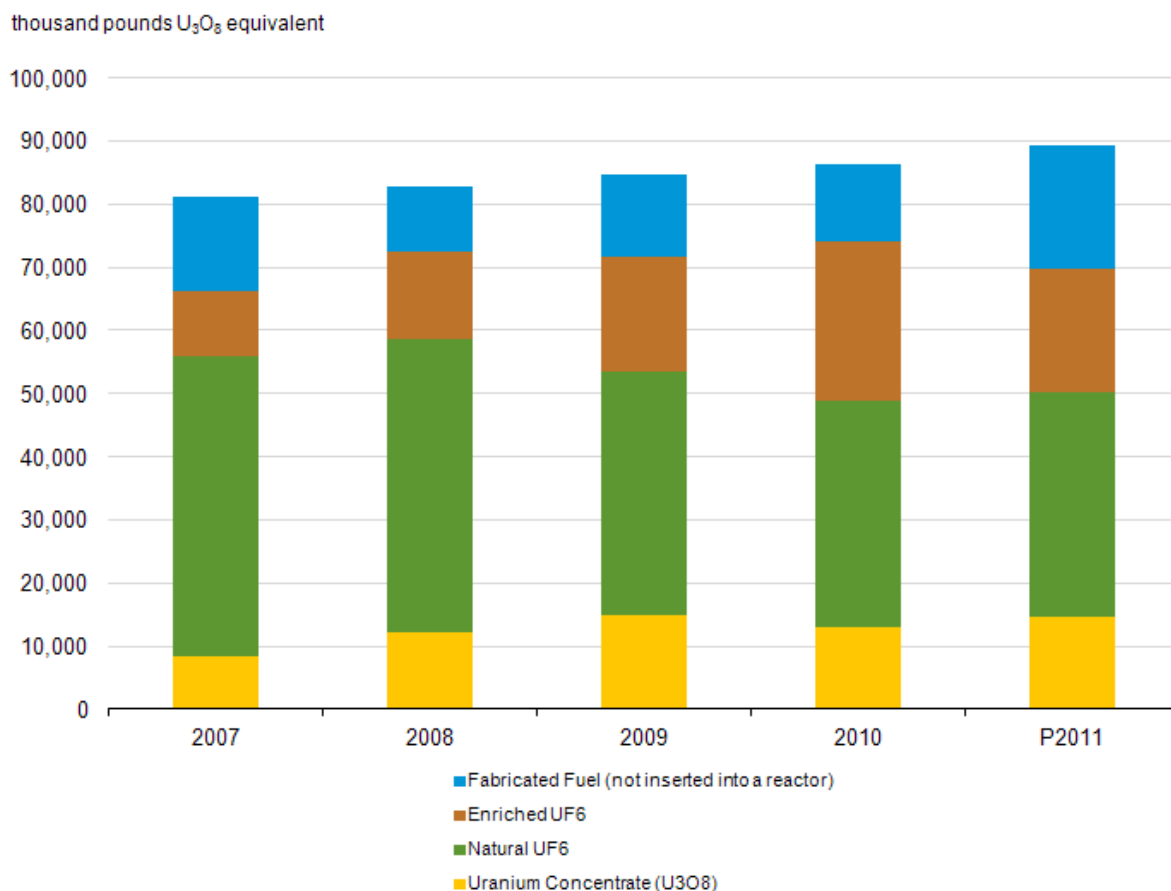
thousand pounds U₃O₈ equivalent



P=Preliminary data. Final 2010 inventory data reported in the 2011 survey.

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2008-2011).

Figure 21. Owners and operators of U.S. civilian nuclear power reactors inventories by material type as of end of year, 2007-2011



P= Preliminary data. Final 2010 inventory data reported in the 2011 survey.
 Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2008-2011).

Table 23. Inventories of uranium by owner as of end of year, 2007-2011

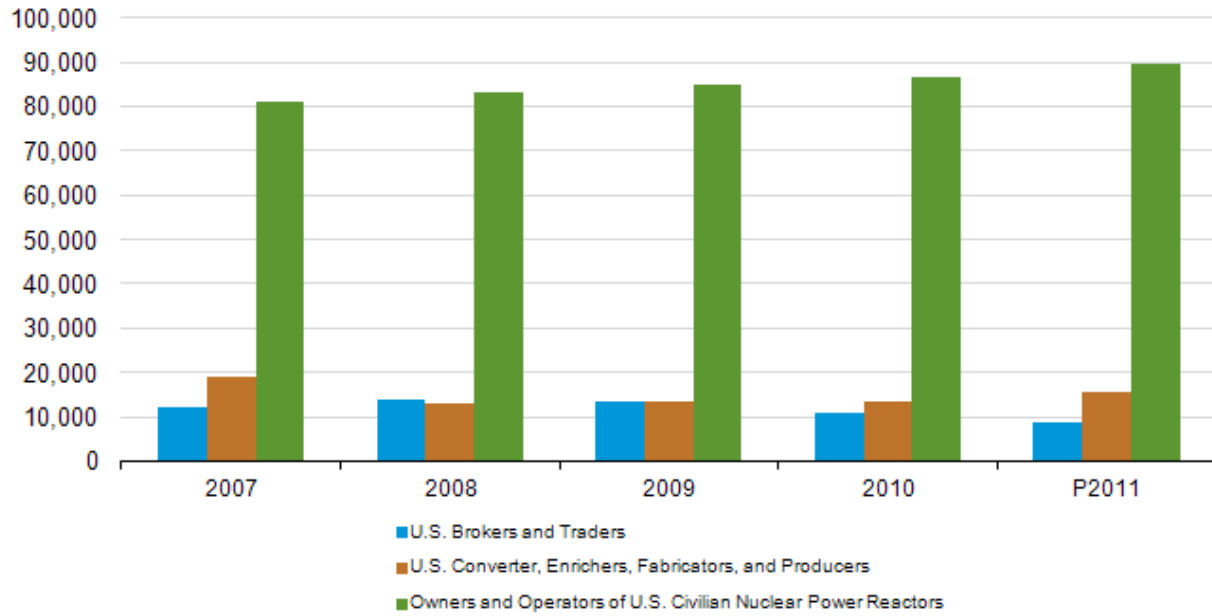
thousand pounds U₃O₈ equivalent

Owner of Uranium Inventory	Inventories at the End of Year				
	2007	2008	2009	2010	P2011
Owners and Operators of U.S. Civilian Nuclear Power Reactors	81,227	82,972	84,757	86,527	89,466
U.S. Brokers and Traders	12,114	14,104	13,362	11,125	8,680
U.S. Converter, Enrichers, Fabricators, and Producers	19,043	12,907	13,412	13,608	15,429
Total Commercial Inventories	112,384	109,983	111,531	111,259	113,575

P = Preliminary data. Final 2010 inventory data reported in the 2011 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" (2008-2011).

Figure 22. Commercial inventories of uranium by owner as of end of year, 2007-2011

thousand pounds U₃O₈ equivalent



P=Preliminary data. Final 2010 inventory data reported in the 2011 survey.

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2008-2011).

Table 24. Uranium sellers to owners and operators of U.S. civilian nuclear power reactors, 2009-2011

2009	2010	2011
American Fuel Resources, LLC	American Fuel Resources, LLC	Advance Uranium Asset Management Ltd. (was Uranium Asset Management)
AREVA NC, Inc. (was COGEMA, Inc.)	AREVA NC, Inc. (was COGEMA, Inc.)	American Fuel Resources, LLC
CAMECO	BHP Billiton Olympic Dam Corporation Pty Ltd	AREVA NC, Inc.
ConverDyn	CAMECO	BHP Billiton Olympic Dam Corporation Pty Ltd
Denison Mines Corp.	ConverDyn	CAMECO
Energy Resources of Australia Ltd.	Denison Mines Corp.	ConverDyn
Energy USA, Inc.	Energy Resources of Australia Ltd.	Denison Mines Corp.
FPL Energy Point Beach, LLC	Energy USA, Inc.	Effective Energy N.V.
GNSS (Globe Nuclear Services and Supply Ltd.)	GNSS (Globe Nuclear Services and Supply Ltd.)	Energy Resources of Australia Ltd.
Heathgate Resources Pty. Ltd.	INTERNEXCO GmbH	Energy USA, Inc.
INTERNEXCO GmbH	Itochu Corporation / Itochu International	GNSS (Globe Nuclear Services and Supply Ltd.)
Itochu Corporation / Itochu International	Mestena Uranium LLC	INTERNEXCO GmbH
Mestena Uranium LLC	Nufcor International Limited	Itochu Corporation / Itochu International
MTM Trading, LLC	NUKEM, Inc. / NULUX (NUKEM Luxemburg GmbH)	Kazatomprom
New Power Systems Limited	Paladin Resources Limited / Paladin Energy	Langer Heinrich Uranium Ltd (Paladin Energy)
Nufcor International Limited	Rossing Uranium Limited	Mestena Uranium LLC
NUKEM, Inc.	SOPAMIN (Société de Patrimoine des Mines du Niger "Heritage Society of Mines in Niger")	MTM Trading, LLC
Paladin Resources Limited	Traxys North America, LLC	NuCore
Piney Branch Park, Inc.	UG U.S.A., Inc.	Nufcor International Limited
Rossing Uranium Limited	Uranium Asset Management	NUKEM, Inc.
SOPAMIN (Société de Patrimoine des Mines du Niger "Heritage Society of Mines in Niger")	Uranium One / Uranium One Africa Limited	Paladin Resources Limited / Paladin Energy
Traxys North America, LLC	UrAsia Energy Ltd.	PPL Energy Plus LLC
UG U.S.A., Inc.	USEC, Inc. (United States Enrichment Corporation)	Rossing Uranium Limited
Uranium One / Uranium One Africa Limited		SOPAMIN (Société de Patrimoine des Mines du Niger "Heritage Society of Mines in Niger")
UrAsia Energy Ltd.		TENEX (Techsnabexport)
URENCO, Inc.		Traxys North America, LLC
USEC, Inc. (United States Enrichment Corporation)		UG U.S.A., Inc.
Westinghouse Electric Company		Uranium One / Uranium One Africa Limited
WMC (Olympic Dam Corporation) Pty Ltd.		UrAsia Energy Ltd.
		URENCO, Inc.
		USEC, Inc. (United States Enrichment Corporation)
		Westinghouse Electric Company, LLC

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2009-2011).

Table 25. Enrichment service sellers to owners and operators of U.S. civilian nuclear power reactors, 2009-2011

2009	2010	2011
AREVA NC, Inc. (was COGEMA, Inc.)	AREVA NC, Inc. (was COGEMA, Inc.)	Advance Uranium Asset Management Ltd.
Global Nuclear Fuel (GNF)	LES, LLC (Louisiana Energy Services)	AREVA NC, Inc.
LES (Louisiana Energy Services)	NUKEM, Inc.	CNEIC (China Nuclear Energy Industry Corporation)
NUKEM, Inc.	UG U.S.A., Inc.	Energy Northwest
URENCO, Inc.	URENCO, Inc.	LES, LLC (Louisiana Energy Services)
USEC, Inc. (United States Enrichment Corporation)	USEC, Inc. (United States Enrichment Corporation)	NUKEM, Inc.
Westinghouse Electric Company	Westinghouse Electric Company	TENEX (Techsnabexport Joint Stock Company)
		URENCO, Inc.
		USEC, Inc. (United States Enrichment Corporation)

Source: U.S. Energy Information Administration, Form EIA-858 "Uranium Marketing Annual Survey" (2009-2011).