



Independent Statistics & Analysis
U.S. Energy Information
Administration

2012 Domestic Uranium Production Report

June 2013



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Preface

The U.S. Energy Information Administration (EIA) reports detailed data spanning 2003 through 2012 and summary data back to 1993 on U.S. uranium production activities in this report, *2012 Domestic Uranium Production Report*. The *Annual Energy Review* provides historical data back to 1949.

Data in this report are based primarily on information reported on Form EIA-851A, “Domestic Uranium Production Report (Annual)” and some information reported on Form EIA-858, “Uranium Marketing Annual Survey.” Form EIA-851A survey collects data on uranium milling and in-situ-leach processing, feed sources, mining, employment, drilling, expenditures, and reserve estimates. Form EIA-858 survey includes data collected on contracts and deliveries.

Prior editions of this report may be found:

<http://www.eia.gov/nuclear/reports.cfm>

The *Annual Energy Review* may be found:

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

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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Drilling

U.S. uranium exploration drilling was 5,112 holes covering 3.4 million feet in 2012. Development drilling was 5,970 holes and 3.7 million feet. Combined, total uranium drilling was 11,082 holes covering 7.2 million feet, 5 percent more holes than in 2011. Expenditures for uranium drilling in the United States were \$67 million in 2012, an increase of 24 percent compared with 2011.

Mining, production, shipments, and sales

U.S. uranium mines produced 4.3 million pounds U_3O_8 in 2012, 5 percent more than in 2011. Six underground mines produced uranium ore during 2012, one more than during 2011. Uranium ore from underground mines is stockpiled and shipped to a mill, to be milled into uranium concentrate (a yellow or brown powder). Additionally, five in-situ-leach (ISL) mining operations produced solutions containing uranium in 2012 that was processed into uranium concentrate at ISL plants. Overall, there were 11 mines that operated during part or all of 2012.

Total production of U.S. uranium concentrate in 2012 was 4.1 million pounds U_3O_8 , 4 percent more than in 2011, from six facilities: one mill in Utah (White Mesa Mill) and five ISL plants (Alta Mesa Project, Crow Butte Operation, Hobson ISR Plant/La Palangana, Smith Ranch-Highland Operation, and Willow Creek Project). Nebraska, Texas and Wyoming produced uranium concentrate at the five ISL plants in 2012.

Total shipments of uranium concentrate from U.S. mill and ISL plants were 3.9 million pounds U_3O_8 in 2012, 2 percent less than in 2011. U.S. producers sold 3.6 million pounds U_3O_8 of uranium concentrate in 2012 at a weighted-average price of \$49.63 per pound U_3O_8 .

Facility status (mills and in-situ-leach plants)

At the end of 2012, the White Mesa mill in Utah was operating with a capacity of 2,000 short tons of ore per day. Shootaring Canyon Uranium Mill in Utah and Sweetwater Uranium Project in Wyoming were on standby with a total capacity of 3,750 short tons of ore per day. There is one mill (Piñon Ridge Mill) planned for Colorado.

At the end of 2012, five U.S. uranium ISL plants were operating with a combined capacity of 10.8 million pounds U_3O_8 per year (Crow Butte Operation in Nebraska; Alta Mesa Project, Hobson ISR Plant/La Palangana in Texas; Smith Ranch-Highland Operation and Willow Creek Project in Wyoming). Kingsville Dome and Rosita ISL plants in Texas were on standby with a total capacity of 2.0 million pounds U_3O_8 per year. Lost Creek Project and Nichols Ranch ISR Project were under construction in Wyoming. There are seven ISL plants planned in New Mexico, South Dakota, Texas, and Wyoming.

Employment

Total employment in the U.S. uranium production industry was 1,196 person-years in 2012, an increase of less than one percent from the 2011 total. Exploration employment was 161 person-years, a 23 percent decrease compared with 2011. Milling and processing employment was 394 person-years in 2012, and decreased 6 percent from 2011. Uranium mining employment was 462 person-years, the same as in 2011, while reclamation employment increased 75 percent to 179 person-years from 2011 to 2012. Uranium production industry employment for 2012 was in 11 States: Arizona, Colorado, Nebraska, New Mexico, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, and Wyoming.

Expenditures

Total expenditures for land, exploration, drilling, production, and reclamation were \$353 million in 2012, 11 percent more than in 2011. Expenditures for U.S. uranium production, including facility expenses, were the largest category of expenditures at \$187 million in 2012 and were up by 11 percent from the 2011 level. Uranium exploration expenditures were \$33 million and decreased 23 percent from 2011 to 2012. Expenditures for land were \$17 million in 2012, a 14-percent decrease compared with 2011. Reclamation expenditures were \$49 million, a 46-percent increase compared with 2011.

Reserve estimates

The U.S. Energy Information Administration (EIA) in 2010 began collecting annual reserve estimates on the survey Form EIA-851A, “Domestic Uranium Production Report.” To date, these annual reserve estimates span data years 2009 through 2012. There are no plans to publish data prior to 2012 due to reporting inconsistencies and data accuracy concerns.

The 2012 uranium reserves are estimated quantities of uranium in known mineral deposits of such size, grade, and configuration that the uranium could be recovered at or below a specified production cost (forward cost) with currently proven mining and processing technology and under current law and regulations. This information is collected from the entities that otherwise report on the Form EIA-851A; i.e. companies that conduct uranium drilling, exploration, mining, and reclamation.

Beginning with this report, and for the data year 2012, a new Table 10 includes uranium reserve estimates for mines and properties by status, mining method, and State. Sixteen respondents reported reserve estimates on 71 mines and properties. Estimated uranium reserves were 52 million pounds U_3O_8 at a maximum forward cost of up to \$30 per pound. At up to \$100 per pound, estimated reserves were 304 million pounds U_3O_8 . At the end of 2012, estimated uranium reserves for mines in production were 21 million pounds U_3O_8 at a maximum forward cost of up to \$50 per pound.

The uranium reserve estimates presented here cannot be compared with the much larger historical data set of uranium reserves published in the July 2010 report *U.S. Uranium Reserves Estimates*. Those reserve estimates were made by EIA based on data collected by EIA and data developed by the National Uranium Resource Evaluation (NURE) program, operated out of Grand Junction, Colorado, by DOE and predecessor

organizations. The EIA data covered approximately 200 uranium properties with reserve estimates, collected from 1984 through 2002. The NURE data covered approximately 800 uranium properties with reserve estimates, developed from 1974 through 1983. Although the 2012 data collected by the Form EIA-851A survey covers a much smaller set of properties than the earlier EIA data and NURE data, EIA believes that within its scope the EIA-851A data provides more reliable estimates of the uranium recoverable at the specified forward cost than estimates derived from 1974 through 2003. In particular, this is because the NURE data has not been comprehensively updated in many years and is no longer a current data source.

Table 1. U.S. uranium drilling activities, 2003-2012

Year	Exploration Drilling		Development Drilling		Exploration and Development Drilling	
	Number of Holes	Feet (thousand)	Number of Holes	Feet (thousand)	Number of Holes	Feet (thousand)
2003	NA	NA	NA	NA	W	W
2004	W	W	W	W	2,185	1,249
2005	W	W	W	W	3,143	1,668
2006	1,473	821	3,430	1,892	4,903	2,713
2007	4,351	2,200	4,996	2,946	9,347	5,146
2008	5,198	2,543	4,157	2,551	9,355	5,093
2009	1,790	1,051	3,889	2,691	5,679	3,742
2010	2,439	1,460	4,770	3,444	7,209	4,904
2011	5,441	3,322	5,156	3,003	10,597	6,325
2012	5,112	3,447	5,970	3,709	11,082	7,156

NA = Not available.

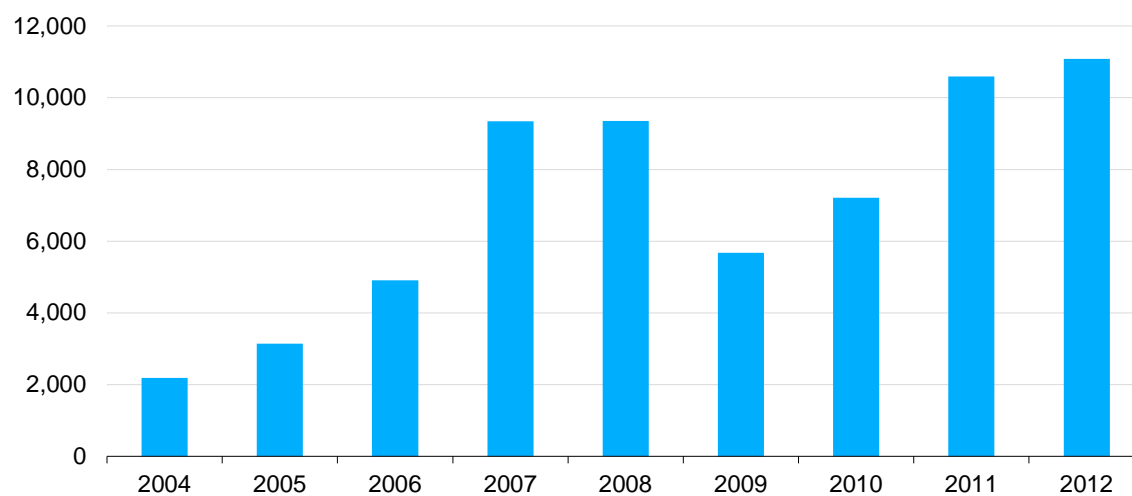
W = Data withheld to avoid disclosure of individual company data.

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

Source: U.S. Energy Information Administration: Form EIA-851A, "Domestic Uranium Production Report" (2003-2012).

Figure 1. U.S. uranium drilling by number of holes, 2004-2012

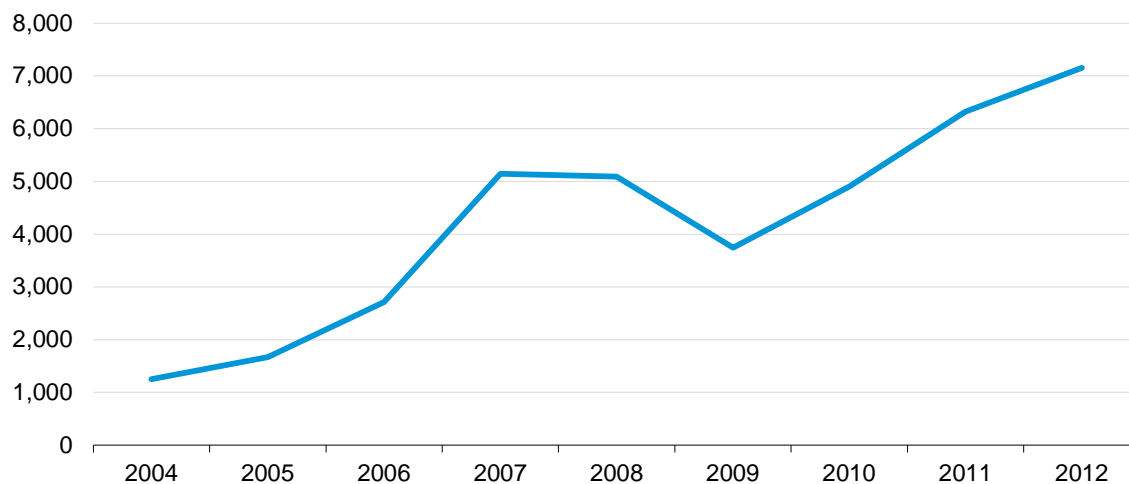
number of holes



Source: U.S. Energy Information Administration: Form EIA-851A, "Domestic Uranium Production Report" (2004-2012).

Figure 2. U.S. uranium drilling in footage, 2004-2012

thousand feet



Source: U.S. Energy Information Administration: Form EIA-851A, "Domestic Uranium Production Report" (2004-2012).

Table 2. U.S. uranium mine production and number of mines and sources, 2003-2012

Production / Mining Method	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Underground										
(estimated contained thousand pounds U ₃ O ₈)	W	W	W	W	W	W	W	W	W	W
Open Pit										
(estimated contained thousand pounds U ₃ O ₈)	0	0	0	0	0	0	0	0	0	0
In-Situ Leaching										
(thousand pounds U ₃ O ₈)	W	W	2,681	4,259	W	W	W	W	W	W
Other ¹										
(thousand pounds U ₃ O ₈)	W	W	W	W	W	W	W	W	W	W
Total Mine Production										
(thousand pounds U₃O₈)	E2,200	2,452	3,045	4,692	4,541	3,879	4,145	4,237	4,114	4,335
Number of Operating Mines										
Underground	1	2	4	5	6	10	14	4	5	6
Open Pit	0	0	0	0	0	0	0	0	0	0
In-Situ Leaching	2	3	4	5	5	6	4	4	5	5
Other Sources ¹	1	1	2	1	1	1	2	1	1	1
Total Mines and Sources	4	6	10	11	12	17	20	9	11	12

¹ Other includes, in various years, mine water, mill site cleanup and mill tailings, and well field restoration as sources of uranium.

E = Estimated data.

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

Notes: Totals may not equal sum of components because of independent rounding. Table does not include byproduct production and sources. The 2003 annual production amount was estimated by rounding to the nearest 200,000 pounds to avoid disclosure of individual company data.

Source: U.S. Energy Information Administration: Form EIA-851A, "Domestic Uranium Production Report" (2003-2012).

Table 3. U.S. uranium concentrate production, shipments, and sales, 2003-2012

Activity at U.S. Mills and In-Situ-Leach Plants	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Estimated contained U₃O₈ (thousand pounds)										
Ore from Underground Mines and Stockpiles Fed to Mills ¹	0	W	W	W	0	W	W	W	W	W
Other Feed Materials ²	W	W	W	W	W	W	W	W	W	W
Total Mill Feed	W	W	W	W	W	W	W	W	W	W
Uranium Concentrate Produced at U.S. Mills										
(thousand pounds U ₃ O ₈)	W	W	W	W	W	W	W	W	W	W
Uranium Concentrate Produced at U.S. In-Situ-Leach Plants										
(thousand pounds U ₃ O ₈)	W	W	W	W	W	W	W	W	W	W
Total Uranium Concentrate Production										
(thousand pounds U ₃ O ₈)	E2,000	2,282	2,689	4,106	4,534	3,902	3,708	4,228	3,991	4,146
Total Uranium Concentrate Shipped from U.S. Mills and In-Situ-Leach Plants										
(thousand pounds U ₃ O ₈)	E1,600	2,280	2,702	3,838	4,050	4,130	3,620	5,137	4,000	3,911
Total Uranium Concentrate Sales by U.S. Producers³										
Deliveries (thousand pounds U ₃ O ₈)	W	W	W	3,786	3,602	3,656	2,044	2,684	2,870	3,630
Weighted-Average Price (dollars per pound U ₃ O ₈)	W	W	W	28.98	42.11	43.81	36.61	37.59	52.36	49.63

¹ Uranium ore "Fed to Mills" in any year can include: ore mined and shipped to a mill during the same year, ore that was mined during a prior year and later shipped from mine-site stockpiles, and/or ore obtained from drawdowns of stockpiles maintained at a mill site.

² Includes for various years uranium from mill cleanup, mine water, tailings water, and other materials.

³ Sales of U.S.-origin uranium only.

E = Estimated data.

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

Notes: The 2003 annual amounts were estimated by rounding to the nearest 200,000 pounds to avoid disclosure of individual company data. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration: Form EIA-851A, "Domestic Uranium Production Report" (2003-2012) and Form EIA-858, "Uranium Marketing Annual Survey" (2003-2012).

Table 4. U.S. uranium mills by owner, location, capacity, and operating status at end of the year, 2008-2012

Mill Owner	Mill Name	County, State (existing and planned locations)	Milling Capacity (short tons of ore per day)	Operating Status at End of the Year				
				2008	2009	2010	2011	2012
Cotter Corporation	Canon City Mill	Fremont, Colorado	0	Standby	Standby	Standby	Reclamation	Demolished
EFR White Mesa LLC	White Mesa Mill	San Juan, Utah	2,000	Operating	Operating	Operating	Operating	Operating
Energy Fuels Resources Corporation	Piñon Ridge Mill	Montrose, Colorado	500	Developing	Developing	Developing	Permitted And Licensed	Partially Permitted And Licensed
Kennecott Uranium Company/Wyoming Coal Resource Company	Sweetwater Uranium Project	Sweetwater, Wyoming	3,000	Standby	Standby	Standby	Standby	Standby
Uranium One Americas, Inc.	Shootaring Canyon Uranium Mill	Garfield, Utah	750	Changing License To Operational	Standby	Standby	Standby	Standby
Total Milling Capacity:			6,250					

Notes: Milling capacity for 2012. An operating status of "Operating" indicates the mill was producing uranium concentrate at the end of the period.

Source: U.S. Energy Information Administration: Form EIA-851A, "Domestic Uranium Production Report" (2008-2012).

Table 5. U.S. uranium in-situ-leach plants by owner, location, capacity, and operating status at end of the year, 2008-2012

In-Situ-Leach Plant Owner	In-Situ-Leach Plant Name	County, State (existing and planned locations)	Production Capacity (pounds U ₃ O ₈ per year)	Operating Status at End of the Year				
				2008	2009	2010	2011	2012
Cameco	Crow Butte Operation	Dawes, Nebraska	1,000,000	Operating	Operating	Operating	Operating	Operating
Hydro Resources, Inc.	Church Rock	McKinley, New Mexico	1,000,000	Partially Permitted And Licensed	Partially Permitted And Licensed	Partially Permitted And Licensed	Partially Permitted And Licensed	Partially Permitted And Licensed
Hydro Resources, Inc.	Crownpoint	McKinley, New Mexico	1,000,000	Partially Permitted And Licensed	Partially Permitted And Licensed	Partially Permitted And Licensed	Partially Permitted And Licensed	Partially Permitted And Licensed
Lost Creek ISR LLC	Lost Creek Project	Sweetwater, Wyoming	2,000,000	Developing	Developing	Developing	Partially Permitted And Licensed	Under Construction
Mestena Uranium LLC	Alta Mesa Project	Brooks, Texas	1,000,000	Producing	Producing	Producing	Producing	Producing
Power Resources, Inc. dba Cameco Resources	Smith Ranch-Highland Operation	Converse, Wyoming	5,500,000	Operating	Operating	Operating	Operating	Operating
Powertech Uranium Corp	Centennial Project	Weld, Colorado	-	Undeveloped	Undeveloped	Undeveloped	Undeveloped	Undeveloped
Powertech Uranium Corp	Dewey Burdock Project	Fall River and Custer, South Dakota	1,000,000	Undeveloped	Undeveloped	Undeveloped	Undeveloped	Developing
South Texas Mining Venture	Hobson ISR Plant	Karnes, Texas	1,000,000	Permitted And Licensed	Permitted And Licensed	Operational	Operating	Operating
South Texas Mining Venture	La Palangana	Duval, Texas	1,000,000	Partially Permitted And Licensed	Permitted And Licensed	Operating	Operating	Operating
Strata Energy Inc.	Ross	Crook, Wyoming	3,000,000	-	-	-	Partially Permitted Developing	And Licensed
URI, Inc.	Kingsville Dome	Kleberg, Texas	1,000,000	Producing	Standby	Standby	Standby	Standby
URI, Inc.	Rosita	Duval, Texas	1,000,000	Standby	Standby	Standby	Standby	Standby
URI, Inc.	Vasquez	Duval, Texas	800,000	Restoration	Restoration	Restoration	Restoration	Restoration
Uranerz Energy Corporation	Nichols Ranch ISR Project	Johnson and Campbell, Wyoming	2,000,000	Developing	Developing	Partially Permitted And Licensed	Under Construction	Under Construction
Uranium Energy Corp.	Goliad ISR Uranium Project	Goliad, Texas	1,000,000	Partially Permitted And Licensed	Partially Permitted And Licensed	Partially Permitted And Licensed	Partially Permitted And Licensed	Permitted And Licensed
Uranium One Americas, Inc.	Jab and Antelope	Sweetwater, Wyoming	2,000,000	Developing	Developing	Developing	Developing	Developing
Uranium One Americas, Inc.	Moore Ranch	Campbell, Wyoming	500,000	Developing	Partially Permitted And Licensed	Permitted And Licensed	Permitted And Licensed	Permitted And Licensed
Uranium One USA, Inc.	Texas Operations	Duval, Texas	0	Reclamation	Reclamation	Reclamation	Reclaimed	Reclaimed
Uranium One USA, Inc.	Willow Creek Project (Christensen Ranch and Irigaray)	Campbell and Johnson, Wyoming	1,300,000	Standby	Standby	Operational	Producing	Producing
Total Production Capacity:			27,100,000					

- = No data reported.

Notes: Production capacity for 2012. An operating status of "Operating" indicates the in-situ-leach plant usually was producing uranium concentrate at the end of the period. Hobson ISR Plant processed uranium concentrate that came from La Palangana. Hobson and La Palangana are part of the same project. ISR stands for in-situ recovery. Christensen Ranch and Irigaray are part of the Willow Creek Project.

Source: U.S. Energy Information Administration: Form EIA-851A, "Domestic Uranium Production Report" (2008-2012).

Table 6. Employment in the U.S. uranium production industry by category, 2003-2012

person-years

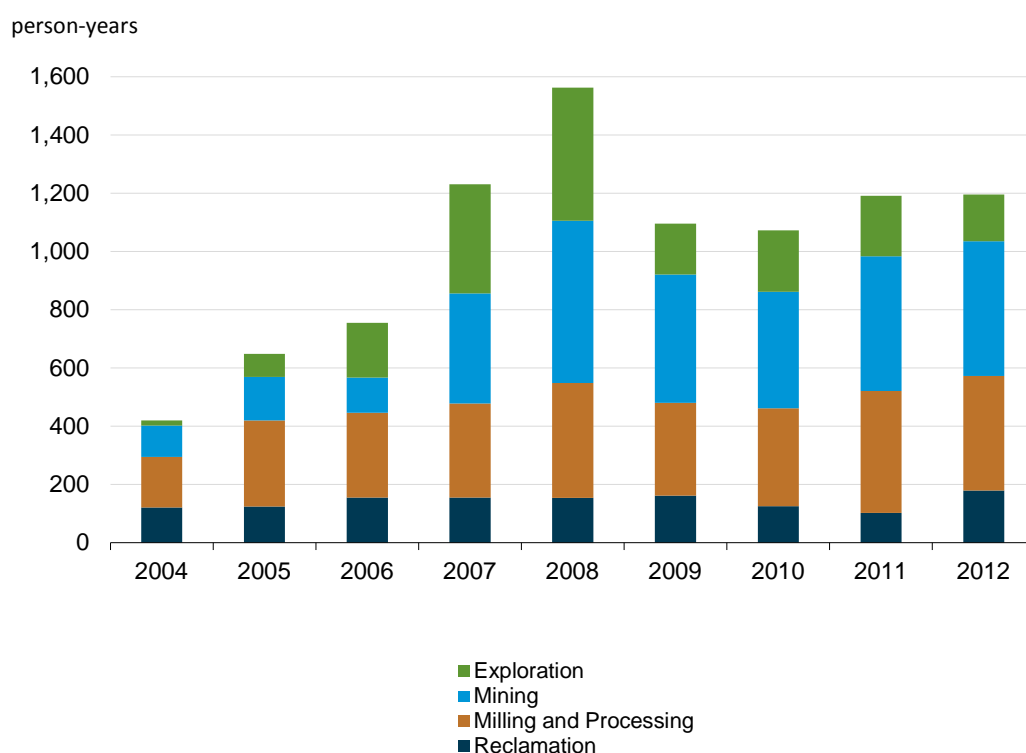
Year	Exploration	Mining	Milling	Processing	Reclamation	Total
2003	W	W	W	W	117	321
2004	18	108	W	W	121	420
2005	79	149	142	154	124	648
2006	188	121	W	W	155	755
2007	375	378	107	216	155	1,231
2008	457	558	W	W	154	1,563
2009	175	441	W	W	162	1,096
2010	211	400	W	W	125	1,073
2011	208	462	W	W	102	1,191
2012	161	462	W	W	179	1,196

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-851A, "Domestic Uranium Production Report" (2003-2012).

Figure 3. Employment in the U.S. uranium production industry by category, 2004-2012



Source: U.S. Energy Information Administration: Form EIA-851A, "Domestic Uranium Production Report" (2004-2012).

Table 7. Employment in the U.S. uranium production industry by state, 2003-2012

person-years

State(s)	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wyoming	134	139	181	195	245	301	308	348	424	512
Colorado and Texas	48	140	269	263	557	696	340	292	331	248
Nebraska and New Mexico	92	102	123	160	149	160	159	134	127	W
Arizona, Utah, and Washington	47	40	75	120	245	360	273	281	W	W
Alaska, Michigan, Nevada, and South Dakota	0	0	0	16	25	30	W	W	W	W
California, Montana, North Dakota, Oklahoma, Oregon, and Virginia	0	0	0	0	9	17	W	W	W	W
Total	321	420	648	755	1,231	1,563	1,096	1,073	1,191	1,196

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-851A, "Domestic Uranium Production Report" (2003-2012).

Table 8. U.S. uranium expenditures, 2003-2012

million dollars

Year	Drilling	Production	Land and Other				Total Expenditures
			Total Land and Other	Land	Exploration	Reclamation	
2003	W	W	31.3	NA	NA	NA	W
2004	10.6	27.8	48.4	NA	NA	NA	86.9
2005	18.1	58.2	59.7	NA	NA	NA	136.0
2006	40.1	65.9	115.2	41.0	23.3	50.9	221.2
2007	67.5	90.4	178.2	77.7	50.3	50.2	336.2
2008	81.9	221.2	164.4	65.2	50.2	49.1	467.6
2009	35.4	141.0	104.0	17.3	24.2	62.4	280.5
2010	44.6	133.3	99.5	20.2	34.5	44.7	277.3
2011	53.6	168.8	96.8	19.6	43.5	33.7	319.2
2012	66.6	186.9	99.4	16.8	33.3	49.3	352.9

Drilling: All expenditures directly associated with exploration and development drilling.

Production: All expenditures for mining, milling, processing of uranium, and facility expense.

Land and Other: All expenditures for land; geological research; geochemical and geophysical surveys; costs incurred by field personnel in the course of exploration, reclamation and restoration work; and overhead and administrative charges directly associated with supervising and supporting field activities.

NA = Not available.

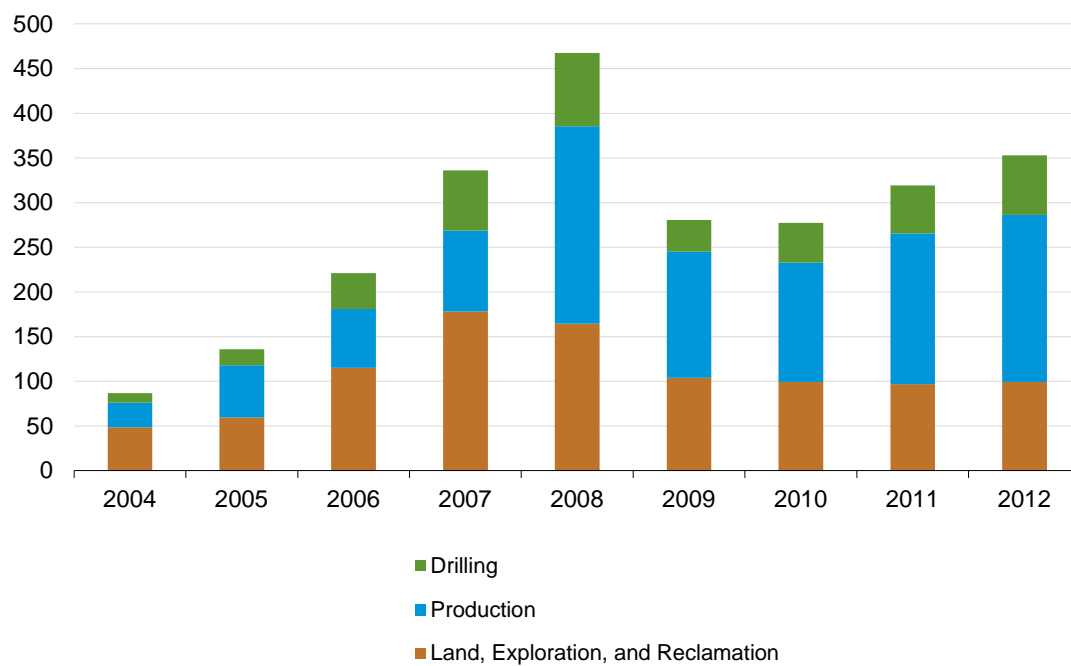
W = Data withheld to avoid disclosure of individual company data.

Notes: Expenditures are in nominal U.S. dollars. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration: Form EIA-851A, "Domestic Uranium Production Report" (2003-2012).

Figure 4. U.S. uranium expenditures, 2004-2012

million dollars



Source: U.S. Energy Information Administration: Form EIA-851A, "Domestic Uranium Production Report" (2004-2012).

Table 9. Summary production statistics of the U.S. uranium industry, 1993-2012

Item	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	E2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Exploration and Development																				
Surface Drilling (million feet)	1.1	0.7	1.3	3.0	4.9	4.6	2.5	1.0	0.7	W	W	1.2	1.7	2.7	5.1	5.1	3.7	4.9	6.3	7.2
dollars) ¹	5.7	1.1	2.6	7.2	20.0	18.1	7.9	5.6	2.7	W	W	10.6	18.1	40.1	67.5	81.9	35.4	44.6	53.6	66.6
Mine Production of Uranium																				
(million pounds U ₃ O ₈)	2.1	2.5	3.5	4.7	4.7	4.8	4.5	3.1	2.6	2.4	2.2	2.5	3.0	4.7	4.5	3.9	4.1	4.2	4.1	4.3
Uranium Concentrate Production																				
(million pounds U ₃ O ₈)	3.1	3.4	6.0	6.3	5.6	4.7	4.6	4.0	2.6	2.3	2.0	2.3	2.7	4.1	4.5	3.9	3.7	4.2	4.0	4.1
Uranium Concentrate Shipments																				
(million pounds U ₃ O ₈)	3.4	6.3	5.5	6.0	5.8	4.9	5.5	3.2	2.2	3.8	1.6	2.3	2.7	3.8	4.0	4.1	3.6	5.1	4.0	3.9
Employment																				
(person-years)	871	980	1,107	1,118	1,097	1,120	848	627	423	426	321	420	648	755	1,231	1,563	1,096	1,073	1,191	1,196

¹ Expenditures are in nominal U.S. dollars.

E = Estimated data, except for employment.

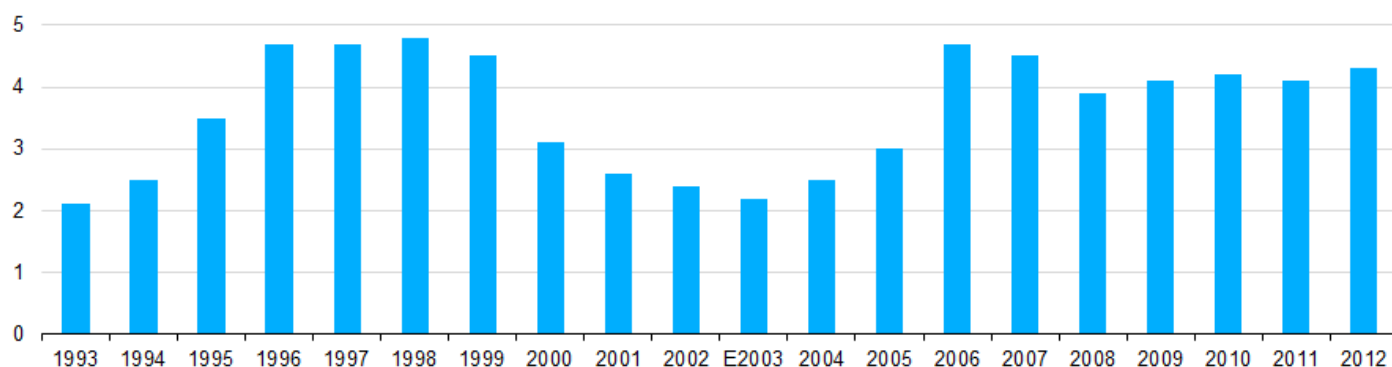
W = Data withheld to avoid disclosure of individual company data.

Note: The 2003 annual production and shipment amounts were estimated by rounding to the nearest 200,000 pounds to avoid disclosure of individual company data.

Source: U.S. Energy Information Administration: 1993-2002-Uranium Industry Annual 2002 (May 2003), Table H1 and Table 2. 2003-2012-Form EIA-851A, "Domestic Uranium Production Report" (2003-2012).

Figure 5. U.S. mine production of uranium, 1993-2012

million pounds U₃O₈

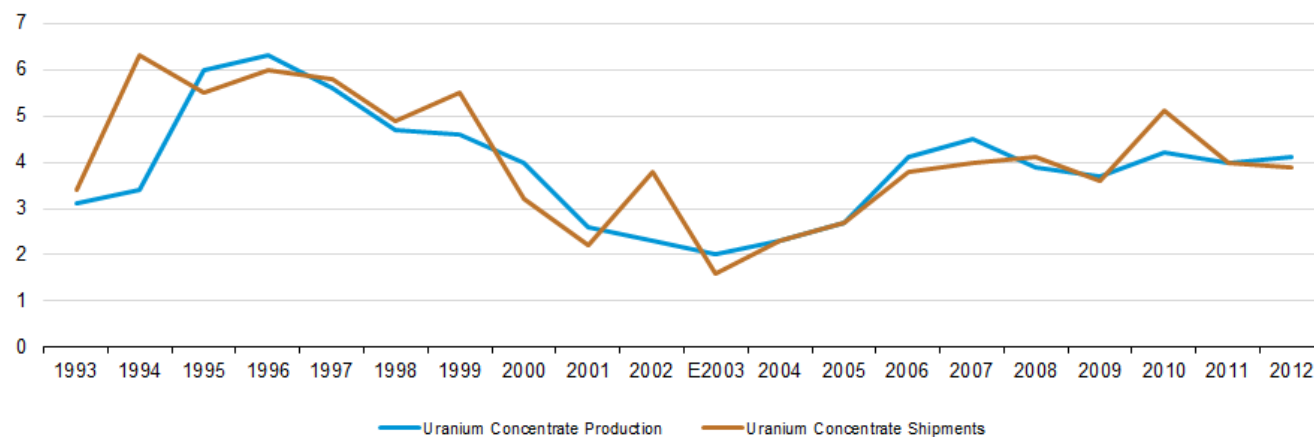


E = Estimated data.

Sources: U.S. Energy Information Administration: 1993-2002-Uranium Industry Annual 2002 (May 2003), Table H1 and Table 2. 2003-2012-Form EIA-851A, "Domestic Uranium Production Report" (2003-2012).

Figure 6. U.S. uranium concentrate production and shipments, 1993-2012

million pounds U_3O_8

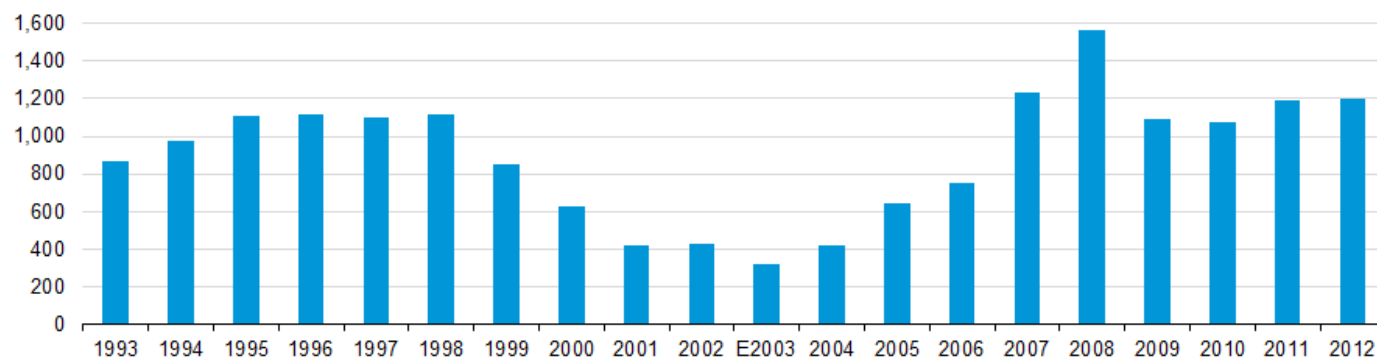


E = Estimated data.

Sources: U.S. Energy Information Administration: 1993-2002-Uranium Industry Annual2002 (May 2003), Table H1 and Table 2. 2003-2012-Form EIA-851A, "Domestic Uranium Production Report" (2003-2012).

Figure 7. Employment in the U.S. production industry, 1993-2012

person-years



Sources: U.S. Energy Information Administration: 1993-2002-Uranium Industry Annual2002 (May 2003), Table H1 and Table 2. 2003-2012-Form EIA-851A, "Domestic Uranium Production Report" (2003-2012).

Table 10. Uranium reserve estimates at the end of 2012*million pounds U₃O₈*

Uranium Reserve Estimates ¹ by Mine and Property Status, Mining Method, and State(s)	Forward Cost ²		
	\$0 to \$30 per pound	\$0 to \$50 per pound	\$0 to \$100 per pound
Properties with Exploration Completed, Exploration Continuing, and Only Assessment Work	W	W	102.0
Properties Under Development for Production	W	W	W
Mines in Production	W	21.4	W
Mines Closed Temporarily and Closed Permanently	W	W	133.1
In-Situ Leach Mining	W	W	128.6
Underground and Open Pit Mining	W	W	175.4
Arizona, New Mexico and Utah	0	W	164.7
Colorado, Nebraska and Texas	W	W	40.8
Wyoming	W	W	98.5
Total	51.8	W	304.0

¹ Sixteen respondents reported reserve estimates on 71 mines and properties. These uranium reserve estimates cannot be compared with the much larger historical data set of uranium reserves that were published in the July 2010 report *U.S. Uranium Reserves Estimates* at <http://www.eia.gov/cneaf/nuclear/page/reserves/ures.html>. Reserves, as reported here, do not necessarily imply compliance with U.S. or Canadian government definitions for purposes of investment disclosure.

² Forward Cost: The operating and capital costs still to be incurred in the production of uranium from in-place reserves. By using forward costing, estimates for reserves for ore deposits in differing geological settings and status of development can be aggregated and reported for selected cost categories. Included are costs for labor, materials, power and fuel, royalties, payroll taxes, insurance, and applicable general and administrative costs. Excluded from forward cost estimates are prior expenditures, if any, incurred for property acquisition, exploration, mine development, and mill construction, as well as income taxes, profit, and the cost of money. Forward costs are neither the full costs of production nor the market price at which the uranium, when produced, might be sold.

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-851A, "Domestic Uranium Production Report" (2012).