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Domestic Uranium Production Report
Third-Quarter 2019

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Contacts

This report was prepared by the Electricity Supply & Uranium Statistics & Product Innovation Team, Office of Energy Production, Conversion, & Delivery. If you have questions about the preparation and content of this report, email us at InfoNuclearData@eia.gov.

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Introduction

In this report, the U.S. Energy Information Administration (EIA) reports U.S. uranium production from 1996 through the third quarter of 2019. Data in this report are based on information reported on Form EIA-851A, *Domestic Uranium Production Report (Annual),* and Form EIA-851Q, *Domestic Uranium Production Report (Quarterly*).

Previous issues of this report are available on the EIA website.

Definitions for terms used in this report are available in EIA's Energy Glossary.

Third-quarter of 2019

U.S. production of uranium concentrate (U_3O_8) in the third quarter of 2019 was 32,211 pounds, down 27% from the second quarter of 2019 and down 94% from the third quarter of 2018. During the third quarter of 2019, U.S. uranium was produced at four U.S. uranium facilities, the same number as in the second quarter of 2019.

U.S. uranium in-situ leach plants in production (state)

- Lost Creek Project (Wyoming)
- Nichols Ranch ISR Project (Wyoming)
- Ross CPP (Wyoming)
- Smith Ranch-Highland Operation (Wyoming)

Table 1. Total production of uranium concentrate in the United States, 1996 to third-quarter of 2019

pounds U_3O_8

Calendar-year quarter	First quarter	Second quarter	Third quarter	Fourth quarter	Calendar-year total
1996	1,734,427	1,460,058	1,691,796	1,434,425	**6,320,706**
1997	1,149,050	1,321,079	1,631,384	1,541,052	**5,642,565**
1998	1,151,587	1,143,942	1,203,042	1,206,003	**4,704,574**
1999	1,196,225	1,132,566	1,204,984	1,076,897	**4,610,672**
2000	1,018,683	983,330	981,948	973,585	**3,975,545**
2001	709,177	748,298	628,720	553,060	**2,639,256**
2002	620,952	643,432	579,723	E500,000	**E2,344,107**
2003	E400,000	E600,000	E400,000	E600,000	**E2,000,000**
2004	E600,000	E400,000	588,738	E600,000	**2,282,406**
2005	709,600	630,053	663,068	686,456	**2,689,178**
2006	931,065	894,268	1,083,808	1,196,485	**4,105,626**
2007	1,162,737	1,119,536	1,075,460	1,175,845	**4,533,578**
2008	810,189	1,073,315	980,933	1,037,946	**3,902,383**
2009	880,036	982,760	956,657	888,905	**3,708,358**
2010	876,084	1,055,102	1,150,725	1,146,281	**4,228,192**
2011	1,063,047	1,189,083	846,624	892,013	**3,990,767**
2012	1,078,404	1,061,289	1,048,018	957,936	**4,145,647**
2013	1,147,031	1,394,232	1,171,278	946,301	**4,658,842**
2014	1,242,179	1,095,011	1,468,608	1,085,534	**4,891,332**
2015	1,154,408	789,980	774,541	624,278	**3,343,207**
2016	626,522	745,306	818,783	725,947	**2,916,558**
2017	450,215	726,375	643,212	622,987	**2,442,789**
2018	226,780	365,421	527,064	328,680	**1,447,945**
P2019	58,481	44,569	32,211		**135,261**

E = Estimated data. P = Preliminary data. NA = Not available. -- = Not applicable.

Notes: The reported fourth quarter 2002 production amount was adjusted by rounding to the nearest 100,000 pounds to avoid disclosure of individual company data. This adjustment also affects the 2002 annual production. The reported production amounts in 2003 and the first, second, and fourth quarters of 2004 were adjusted by rounding to the nearest 200,000 pounds to avoid disclosure of individual company data. The reported 2004 total is the actual production for 2004. Totals may not equal the sum of components because of independent rounding.

Source: U.S. Energy Information Administration: Form EIA-851A and Form EIA-851Q, *Domestic Uranium Production Report*

Table 2. Number of uranium mills and plants producing uranium concentrate in the United States

	Uranium concentrate processing facilities				
End of	Mills - conventional milling [1]	Mills - other operations [2]	In-situ-leach plants [3]	Byproduct recovery plants [4]	Total
1996	0	2	5	2	**9**
1997	0	3	6	2	**11**
1998	0	2	6	1	**9**
1999	1	2	4	0	**7**
2000	1	2	3	0	**6**
2001	0	1	3	0	**4**
2002	0	1	2	0	**3**
2003	0	0	2	0	**2**
2004	0	0	3	0	**3**
2005	0	1	3	0	**4**
2006	0	1	5	0	**6**
2007	0	1	5	0	**6**
2008	1	0	6	0	**7**
2009	0	1	3	0	**4**
2010	1	0	4	0	**5**
2011	1	0	5	0	**6**
2012	1	0	5	0	**6**
2013	0	1	6	0	**7**
2014	0	0	7	0	**7**
2015	0	0	4	0	**4**
2016	0	1	6	0	**7**
2017	0	1	6	0	**7**
2018	0	1	5	0	**6**
Third-quarter of 2019	0	0	4	0	**4**

[1] Milling uranium-bearing ore
[2] Not milling ore, but producing uranium concentrate from other (non-ore) materials
[3] Not including in-situ-leach plants that only produced uranium concentrate from restoration
[4] Uranium concentrate as a byproduct from phosphate production

Source: U.S. Energy Information Administration: Form EIA-851A and Form EIA-851Q, *Domestic Uranium Production Report*

Table 3. U.S. uranium mills and heap leach facilities by owner, location, capacity, and operating status

Owner	Mill and heap leach[1] facility name	County, state (existing and planned locations)	Capacity (short tons of ore per day)	Operating status at end of 2018	First-quarter 2019	Second-quarter 2019	Third-quarter 2019	Fourth-quarter 2019
Anfield Resources Inc.	Shootaring Canyon Uranium Mill	Garfield, Utah	750	standby	standby	standby	standby	
EFR White Mesa LLC	White Mesa Mill	San Juan, Utah	2,000	operating-processing alternate feed	operating-processing alternate feed	operating-processing alternate feed	standby	
Energy Fuels Wyoming Inc	Sheep Mountain	Fremont, Wyoming	725	undeveloped	undeveloped	undeveloped	undeveloped	
Kennecott Uranium Company/Wyoming Coal Resource Company	Sweetwater Uranium Project	Sweetwater, Wyoming	3,000	standby	standby	standby	standby	
Total capacity			**6,475**					

[1] Heap leach solutions: The separation, or dissolving-out from mined rock, of the soluble uranium constituents by the natural action of percolating a prepared chemical solution through mounded (heaped) rock material. The mounded material usually contains low-grade mineralized material and/or waste rock produced from open pit or underground mines. The solutions are collected after percolation is completed, and the solutions are processed to recover the valued components.

- = No data reported

Notes: Capacity for the third-quarter of 2019. An operating status of o*perating* indicates the mill usually was producing uranium concentrate at the end of the period.

Source: U.S. Energy Information Administration: Form EIA-851A and Form EIA-851Q, *Domestic Uranium Production Report*

Table 4. U.S. uranium in-situ-leach plants by owner, location, capacity, and operating status

In-situ-leach plant owner	In-situ-leach plant name	County, state (existing and planned locations)	Production capacity (pounds U_3O_8 per year)	Operating status at end of 2018	First-quarter 2019	Second-quarter 2019	Third-quarter 2019	Fourth-quarter 2019
AUC LLC	Reno Creek	Campbell, Wyoming	2,000,000	partially permitted and licensed	partially permitted and licensed	partially permitted and licensed	partially permitted and licensed	
Azarga Uranium Corp	Dewey Burdock Project	Fall River and Custer, South Dakota	1,000,000	partially permitted and licensed	partially permitted and licensed	partially permitted and licensed	partially permitted and licensed	
Cameco	Crow Butte Operation	Dawes, Nebraska	1,000,000	operating	standby	standby	standby	
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	
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	
Lost Creek ISR LLC	Lost Creek Project	Sweetwater, Wyoming	2,000,000	operating	operating	operating	operating	
Mestena Uranium LLC	Alta Mesa Project	Brooks, Texas	1,500,000	standby	standby	standby	standby	
Power Resources, Inc. doing business as Cameco Resources	Smith Ranch-Highland Operation	Converse, Wyoming	5,500,000	operating	operating	operating	operating	
South Texas Mining Venture	Hobson ISR Plant	Karnes, Texas	1,000,000	standby	standby	standby	standby	
South Texas Mining Venture	La Palangana	Duval, Texas	1,000,000	standby	standby	standby	standby	
Strata Energy Inc	Ross CPP	Crook, Wyoming	375,000	operating	operating	operating	standby	

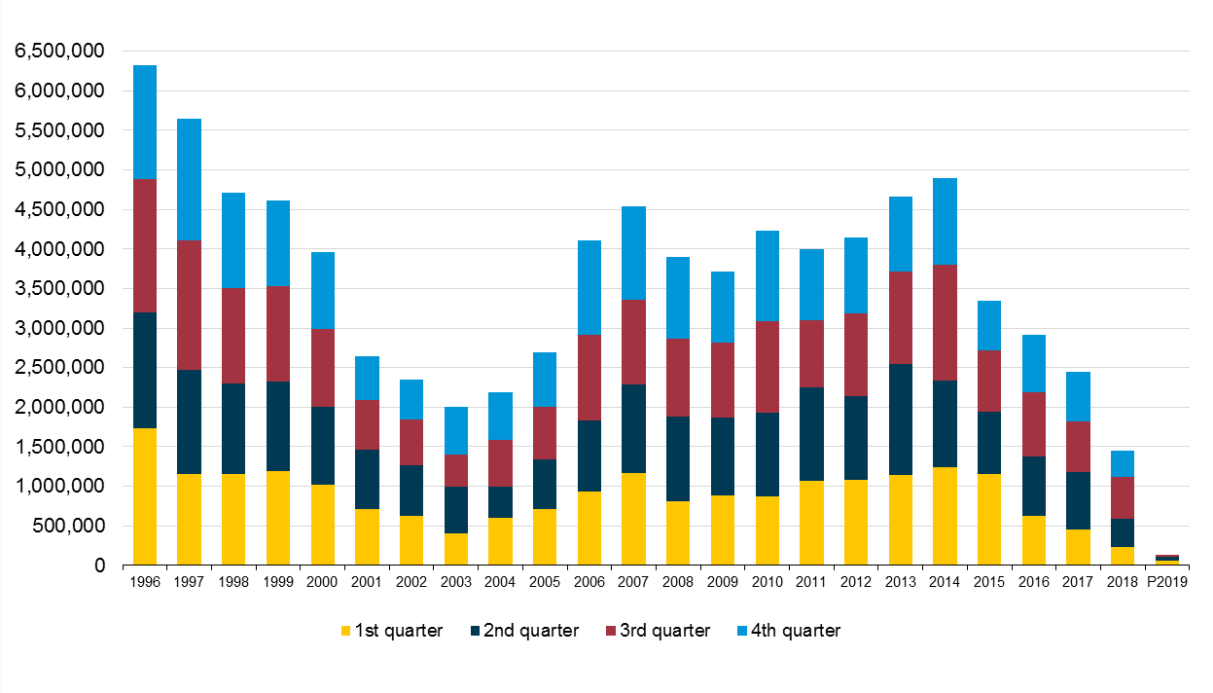
Table 4. U.S. uranium in-situ-leach plants by owner, location, capacity, and operating status (cont.)

In-situ-leach plant owner	In-situ-leach plant name	County, state (existing and planned locations)	Production capacity (pounds U_3O_8 per year)	Operating status at end of 2018	First-quarter 2019	Second-quarter 2019	Third-quarter 2019	Fourth-quarter 2019
Uranerz Energy Corporation (An Energy Fuels company)	Nichols Ranch ISR Project	Johnson and Campbell, Wyoming	2,000,000	operating	operating	operating	operating	
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	
Uranium One Americas, Inc.	Jab and Antelope	Sweetwater, Wyoming	2,000,000	developing	developing	developing	developing	
Uranium One Americas, Inc.	Moore Ranch	Campbell, Wyoming	500,000	partially permitted and licensed	partially permitted and licensed	partially permitted and licensed	partially permitted and licensed	
Uranium One USA, Inc.	Willow Creek Project (Christensen Ranch and Irigaray)	Campbell and Johnson, Wyoming	1,300,000	operating	operating	operating	operating	
Total Production Capacity			**24,175,000**					

Notes: Production capacity for the third-quarter of 2019. An operating status of o*perating* 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. Uranerz Energy has a tolling arrangement with Cameco Resources. Uranium is first processed at the Nichols Ranch plant and then transported to the Smith Ranch-Highland Operation plant for final processing into uranium concentrate. CPP stands for *central processing plant*.
Source: U.S. Energy Information Administration: Form EIA-851A and Form EIA-851Q, *Domestic Uranium Production Report*

Figure 1. Uranium concentrate production in the United States, 1996 to third-quarter of 2019

pounds U3O8



P = Preliminary data

Source: U.S. Energy Information Administration: Form EIA-851A and Form EIA-851Q, *Domestic Uranium Production Report.*