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Domestic Uranium Production Report 3rd Quarter 2017

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Preface

The U.S. Energy Information Administration (EIA) reports data spanning 1996 through third quarter 2017 on U.S. uranium production activities in this report, *Domestic Uranium Production Report 3rd Quarter 2017*. 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 may be found on the EIA website at http://www.eia.gov/uranium/production/quarterly

Definitions for terms used in this report can be found in EIA's Energy Glossary: http://www.eia.gov/tools/glossary/.

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U.S. production of uranium concentrate in the third quarter 2017 was 643,212 pounds U_3O_8, down 11% from the second quarter 2017 and down 21% from the third quarter 2016. Through the first three-quarters of 2017, uranium concentrate production totaled 1.82 million pounds U_3O_8, down 17% from the 2.19 million pounds produced through the first three-quarters of 2016. During the third quarter 2017, U.S. uranium was produced at seven U.S. uranium facilities, the same number as in the second quarter 2017.

U.S. uranium mill in production (state)

1. White Mesa Mill (Utah)

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

2. Crow Butte Operation (Nebraska)
3. Lost Creek Project (Wyoming)
4. Nichols Ranch ISR Project (Wyoming)
5. Ross CPP (Wyoming)
6. Smith Ranch-Highland Operation (Wyoming)
7. Willow Creek Project (Wyoming)

Table 1. Total production of uranium concentrate in the United States, 1996 – 3rd Quarter 2017

pounds U_3O_8

Calendar-year quarter	1st quarter	2nd quarter	3rd quarter	4th 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	500,000	**2,344,107**
2003	400,000	600,000	400,000	600,000	**2,000,000**
2004	600,000	400,000	588,738	600,000	**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**
P2017	450,215	726,375	643,212	NA	**1,819,802**

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

Notes: The reported 4th quarter 2002 production amount was adjusted by rounding to the nearest 100,000 pounds to avoid disclosure of individual company data. This also affects the 2002 annual production. The reported 2003 and 1st, 2nd, and 4th quarter 2004 production amounts 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 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	7	0	**8**
3rd quarter 2017	0	1	6	0	**7**

[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 2016	1st quarter 2017	2nd quarter 2017	3rd quarter 2017	4th quarter 2017
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	Operating-Processing Alternate Feed	
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	
Pinon Ridge Corporation	Pinon Ridge Mill	*Montrose, Colorado*	500	Permitted and Licensed	Permitted and Licensed	Permitted and Licensed	Permitted and Licensed	
Total Capacity:			**6,975**					

[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 processed to recover the valued components.

- = No data reported

Notes: Capacity for 3rd Quarter 2017. An operating status of "Operating" 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 2016	1st quarter 2017	2nd quarter 2017	3rd quarter 2017	4th quarter 2017
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	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	
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. dba 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	Operating	

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

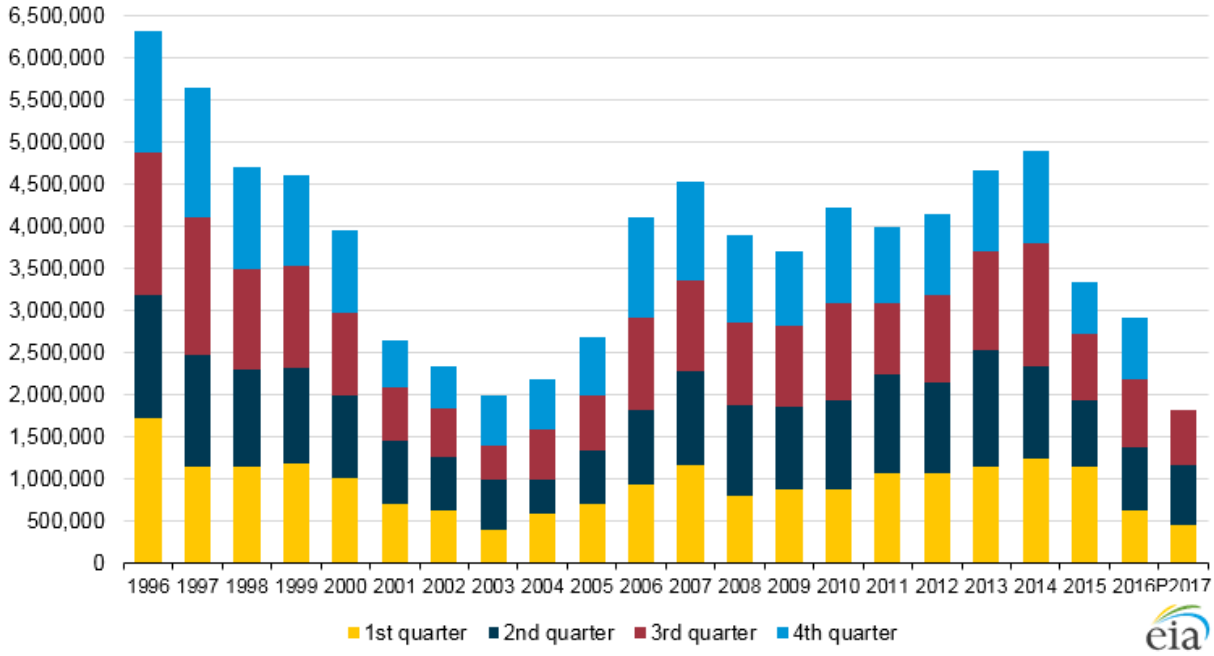
In-situ-leach plant owner	In-situ-leach plant name	County, state (existing and *planned* locations)	Production capacity (pounds U_3O_8 per year)	Operating status at end of 2016	1st quarter 2017	2nd quarter 2017	3rd quarter 2017	4th quarter 2017
Uranerz Energy Corporation (An Energy Fuels company)	Nichols 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	Permitted And Licensed	Permitted And Licensed	Permitted And Licensed	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	Permitted And Licensed	Permitted And Licensed	Permitted And Licensed	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 3rd Quarter 2017. 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. 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 Uranerz's 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 – 3rd Quarter 2017

pounds U_3O_8



P = Preliminary data.

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