Domestic Uranium Production Report Third-Quarter 2023

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Table of Contents

Tables

Figures

Introduction

In this report, the U.S. Energy Information Administration (EIA) reports U.S. uranium production from 2000 through the third quarter of 2023. 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 2023

U.S. production of uranium concentrate (U_3O_8) in the third quarter of 2023 totaled 27,012 pounds U_3O_8. This quarter's total uranium production occurred at three facilities in Wyoming (Nichols Ranch ISR Project, Lost Creek Project, and Smith Ranch-Highland Operation).

Table 1. Total production of uranium concentrate in the United States

pounds U_3O_8

Facility	Location	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
Nichols Ranch ISR Project	Johnson and Campbell, Wyoming	101	106	90	560	428
Ross CPP	Crook, Wyoming	367	93	98	2,483	-
Smith Ranch-Highland Operation	Converse, Wyoming	2,777	6,663	2,323	4,400	10,825
Lost Creek Project	Sweetwater, Wyoming	-	-	-	-	15,759
Crowe Butte Operation	Dawes, Nebraska	-	5,916	-	-	-
White Mesa Mill	San Juan, Utah		161,934	-	-	-
Total production		**3,245**	**174,712**	**2,511**	**7,443**	**27,012**

Data source: U.S. Energy Information Administration: Form EIA-851Q, Domestic Uranium Production Report (Quarterly)

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 recovery plants [3]	Byproduct recovery plants [4]	Total
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**
2019	0	0	5	0	**5**
2020	0	1	5	0	**6**
2021	0	0	3	0	**3**
2022	0	1	4	0	**5**
Third quarter of 2023	0	0	3	0	**3**

[1] Milling uranium-bearing ore

[2] Not milling ore, but producing uranium concentrate from other (non-ore) materials

[3] Not including in-situ-recovery plants that only produced uranium concentrate from restoration

[4] Uranium concentrate as a byproduct from phosphate production

Data source: U.S. Energy Information Administration: Form EIA-851A, Domestic Uranium Production Report (Annual), and Form EIA-851Q, Domestic Uranium Production Report (Quarterly)

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 2022	First-quarter 2023	Second-quarter 2023	Third-quarter 2023	Fourth-quarter 2023
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	operating	operating	operating	-
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 2023. An operating status of o*perating* indicates the mill usually was producing uranium concentrate at the end of the period.

Data source: U.S. Energy Information Administration: Form EIA-851A, Domestic Uranium Production Report (Annual), and Form EIA-851Q, Domestic Uranium Production Report (Quarterly)

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

In-situ recovery plant owner	In-situ recovery plant name	County, state (existing and planned locations)	Production capacity (pounds U3O8 per year)	Operating status at end of 2022	First-quarter 2023	Second-quarter 2023	Third-quarter 2023	Fourth-quarter 2023
Uranium Energy Corporation	Reno Creek ISR Uranium Project	Campbell, Wyoming	2,000,000	permitted and licensed	permitted and licensed	permitted and licensed	permitted and licensed	-
Azarga Uranium Corp	Dewey Burdock Project	Fall River and Custer, South Dakota	1,000,000	permitted and licensed	permitted and licensed	permitted and licensed	permitted and licensed	-
Cameco	Crow Butte Operation	Dawes, Nebraska	1,000,000	standby	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	-
Pathfinder Mines Corporation	Pathfinder Shirley Basin	Carbon County, Wyoming	2,000,000	permitted and licensed	permitted and licensed	permitted and licensed	permitted and licensed	-
Power Resources, Inc. doing business as Cameco Resources	Smith Ranch-Highland Operation	Converse, Wyoming	5,500,000	operating	operating	operating	operating	-
Uranium Energy Corporation	Hobson ISR Processing Plant	Karnes, Texas	2,000,000	standby	standby	standby	standby	-
Uranium Energy Corporation	La Palangana ISR Uranium Project	Duval, Texas	1,000,000	standby	standby	standby	standby	-

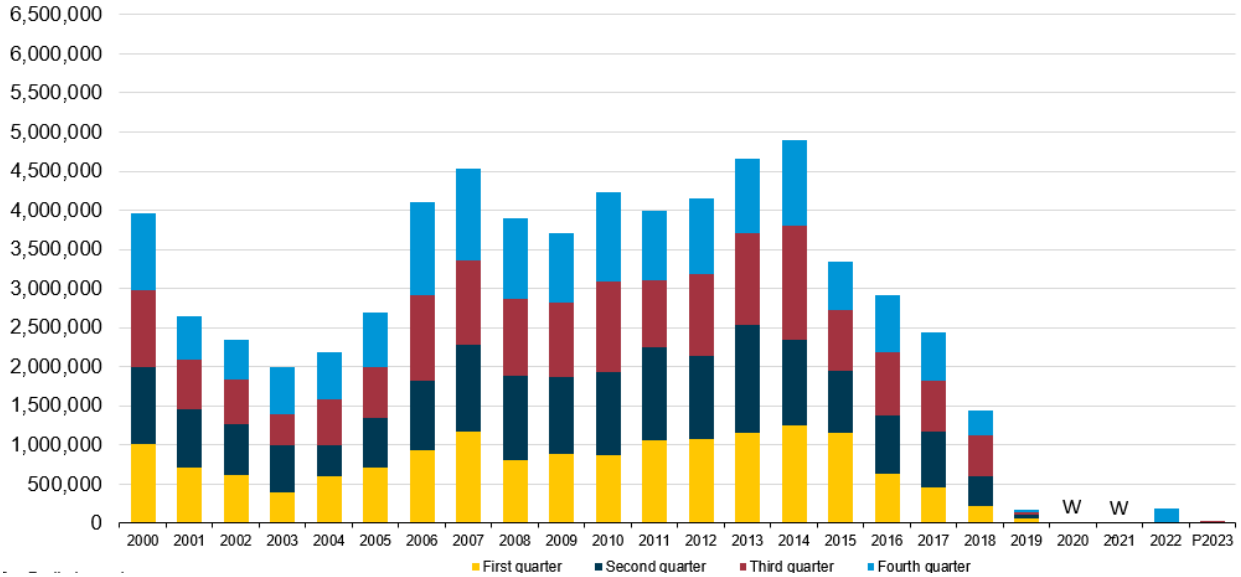
Table 4. U.S. uranium in-situ-recovery plants by owner, location, capacity, and operating status (cont.)

In-situ recovery plant owner	In-situ recovery plant name	County, state (existing and planned locations)	Production capacity (pounds U3O8 per year)	Operating status at end of 2022	First-quarter 2023	Second-quarter 2023	Third-quarter 2023	Fourth-quarter 2023
Strata Energy Inc	Ross CPP	Crook, Wyoming	3,000,000	standby	standby	standby	standby	-
Uranerz Energy Corporation (An Energy Fuels company)	Nichols Ranch ISR Project	Johnson and Campbell, Wyoming	2,000,000	standby	standby	standby	standby	-
URI, Inc. (an enCore Energy company)	Vasquez	Duval, Texas	1,000,000	reclamation	reclamation	reclamation	reclamation	-
URI, Inc. (an enCore Energy company)	Kingsville Dome	Kleberg, Texas	1,000,000	standby	standby	standby	standby	-
URI, Inc. (an enCore Energy company)	Rosita	Duval, Texas	1,000,000	standby	standby	standby	standby	-
Uranium Energy Corporation	Burke Hollow ISR Uranium Project	Bee County, Texas	1,000,000	permitted and licensed	permitted and licensed	permitted and licensed	permitted and licensed	-
Uranium Energy Corporation	Goliad ISR Uranium Project	Goliad, Texas	1,000,000	permitted and licensed	permitted and licensed	permitted and licensed	permitted and licensed	-
Uranium Energy Corporation	Jab and Antelope	Sweetwater, Wyoming	2,000,000	developing	developing	developing	developing	-
Uranium Energy Corporation	Moore Ranch	Campbell, Wyoming	3,000,000	permitted and licensed	permitted and licensed	permitted and licensed	permitted and licensed	-
Uranium Energy Corporation	Willow Creek Project (Ludeman, Christensen Ranch and Irigaray)	Campbell and Johnson, Wyoming	1,300,000	standby	standby	standby	standby	-
Total production capacity			**36,300,000**					

Notes: Production capacity for the third-quarter of 2023. An operating status of o*perating* indicates the in-situ recovery 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. Ludeman, 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*.
Data source: U.S. Energy Information Administration: Form EIA-851A, Domestic Uranium Production Report (Annual), and Form EIA-851Q, Domestic Uranium Production Report (Quarterly)

Figure 1. Uranium concentrate production in the United States, 2000 to third-quarter 2023

pounds U_3O_8



P = Preliminary data

Data source: U.S. Energy Information Administration, Form EIA-851A, *Domestic Uranium Production Report (Annual),* and Form EIA-851Q, *Domestic Uranium Production Report (Quarterly)*