

# Domestic Uranium Production Report Third-Quarter 2022

November 2022















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# **Contacts**

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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 2022. 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 2022**

U.S. production of uranium concentrate ( $U_3O_8$ ) in the third quarter of 2022 totaled 3,245 pounds  $U_3O_8$ , down 46% from the second quarter of 2022. This quarter's production occurred at three facilities in Wyoming: the Nichols Ranch ISR Project, Ross CPP, and the Smith Ranch-Highland Operation.

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

pounds U<sub>3</sub>O<sub>8</sub>

Facility	Location	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022
	Johnson and Campbell,					
Nichols Ranch ISR Project	Wyoming	153	120	126	131	101
Ross CPP	Crook, Wyoming	1,335	1,085	1,890	2,245	367
Smith Ranch-Highland Operation	Converse, Wyoming	3,809	-	7,930	3,666	2,777
Crowe Butte Operation	Dawes, Nebraska	-	8,773	-	-	-
Total production		5,297	9,978	9,946	6,042	3,245

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

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

<sup>&</sup>lt;sup>1</sup> Milling uranium-bearing ore

<sup>&</sup>lt;sup>2</sup> Not milling ore, but producing uranium concentrate from other (non-ore) materials

<sup>&</sup>lt;sup>3</sup> Not including in-situ-recovery plants that only produced uranium concentrate from restoration

<sup>&</sup>lt;sup>4</sup> Uranium concentrate as a byproduct from phosphate production

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

		Capacity		Operating status at end of						
Mill and heap leach <sup>1</sup> facility name	County, state (existing and planned locations)	(short tons of ore per day)	2021	First-quarter 2022	Second-quarter 2022	Third-quarter 2022	Fourth-quarter 2022			
Shootaring Canyon	Garfield									
Uranium Mill	Utah	750	standby	standby	standby	standby				
White Mesa Mill	San Juan, Utah	2,000	operating	standby	standby	standby	-			
Sheep Mountain	Fremont, Wyoming	725	undeveloped	undeveloped	undeveloped	undeveloped	-			
Sweetwater	Sweetwater,		standby	standby	standby	standby				
	leach¹ facility name  Shootaring Canyon Uranium Mill  White Mesa Mill  Sheep Mountain	Mill and heap leach¹ facility name leach¹ facility name locations)  Shootaring Canyon Uranium Mill	Mill and heap leach¹ facility name  Shootaring Canyon Uranium Mill  White Mesa Mill  Sheep Mountain  County, state (existing and planned planned locations)  Garfield, Utah  San Juan, Utah  Fremont, Wyoming  725	County, state (short (existing and planned ore per leach¹ facility name locations) day) 2021  Shootaring Canyon Uranium Mill Utah 750 standby  San Juan, Utah 2,000 operating  Fremont, Sheep Mountain Wyoming 725 undeveloped	Mill and heap planned planned ore per leach¹ facility name locations) day) 2021 2022  Shootaring Canyon Uranium Mill San Juan, Utah 2,000 operating Standby  Sheep Mountain Wyoming 725 undeveloped undeveloped	Mill and heap leach¹ facility name locations) day) 2021 First-quarter locations) day) 2021 2022  Shootaring Canyon Uranium Mill San Juan, Utah 750 standby standby Standby  White Mesa Mill Utah 2,000 operating standby Standby  Fremont, Wyoming 725 undeveloped undeveloped undeveloped	Mill and heap leach¹ facility nameCounty, state (existing and planned ore per leach¹ facility name)(short tons of ore per leach¹ facility name)First-quarter locations)Second-quarter 2022Third-quarter 2022Shootaring Canyon Uranium MillGarfield, Utah750standbystandbystandbystandbyWhite Mesa MillSan Juan, Utah2,000operatingstandbystandbystandbySheep MountainFremont, Wyoming725undevelopedundevelopedundevelopedundeveloped			

#### Total capacity 6,475

#### - = No data reported

Notes: Capacity for the third-quarter of 2022. 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, Domestic Uranium Production Report (Annual), and Form EIA-851Q, Domestic Uranium Production Report (Quarterly)

<sup>&</sup>lt;sup>1</sup> 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.

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

		County, state (existing and	Production capacity (pounds	Operating status at end of				Outputing status at and of				
In-situ recovery plant owner	In-situ recovery plant name	planned locations)	U3O8 per year)	2021	First-quarter 2022	Second- quarter 2022	Third-quarter 2022	Fourth- quarter 2022				
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					
Strata Energy Inc	Ross CPP	Crook, Wyoming	3,000,000	standby	standby	standby	standby					

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

		County, state (existing and	Production capacity (pounds	Operating status at end of					
In-situ recovery plant owner	In-situ recovery plant name	planned locations)	U3O8 per year)	2021	First-quarter 2022	Second- quarter 2022	Third-quarter 2022	Fourth- quarter 2022	
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 2022. An operating status of operating 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.

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

pounds U<sub>3</sub>O<sub>8</sub> 6,500,000 6,000,000 5,500,000 5,000,000 4,500,000 4,000,000 3,500,000 3,000,000 2,500,000 2,000,000 1,500,000 1,000,000 500,000 0 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 P2022 First quarter ■ Second quarter Third quarter Fourth quarter

Figure 1. Uranium concentrate production in the United States, 1996 to third-quarter 2022

P = Preliminary data

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