

# **U.S. Cement Industry: Plant Information Summary**

December 31, 2022



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# **U.S. Portland Cement Industry:**

## **Plant Information Summary**

**December 31, 2022**

**Market Intelligence Group**

The following material is prepared by the American Cement Association's Market Intelligence Group and is based on data sources believed to be reliable; however, accuracy cannot be guaranteed. The American Cement Association assumes no legal responsibility for the outcome of decisions or commitments made on the basis of this information.

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## U.S. Executive Summary

*The U.S. cement*  
facilities) operatin

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sh grinding

The 2022 plant s  
clinker producing  
However, the ave  
2019 report. This  
cement manufact

Major changes w

he number of  
decade ago.  
s greater than the  
g domestic

U.S. cement man

As of December

*Results presented in this report were obtained from the annual survey of cement plant operations conducted by the Market Intelligence Group of the American Cement Association. All clinker capacity, finished grinding capacity, and ownership are reported as of December 31, 2022. Plant modernization and expansion plans reflect only publically announced plans through December 2023. Types of cement produced and fuels used pertain to production during the entire year. Plants producing exclusively or near exclusively Blended Type IL cement may have reported blended cement characteristics instead of ASTM C150 cement characteristics under Table 16.*

**TABLE 1**  
**U.S. HISTORICAL DATA SUMAMRY**  
*(Tonnage reported in Metric Tons)*

	1974	1990	1991	1992	1993	1994	1995	1996	1997	1998
<b>Daily Clinker Capacity</b> <i>(Tons)</i>										
<b>Annual Clinker Capacity</b> <i>(000</i>										
Total										
Gray										
White										
Wet										
Dry										
<b>Finish Grinding Capacity</b> <i>(000</i>										
Total										
Gray										
White										
Grinding Only										
<b>Number of Kilns</b>										
Total										
Wet										
Dry										
<b>Average Capacity Per Kiln</b>										
<i>(000 Tons)</i>										
<b>Average Kiln Startup/Modern</b>										
Number of Kilns										
Kiln Capacity										
<b>Primary Kiln Fuel</b> <i>(Inc. gray &amp; w</i>										
% of plants - coal&coke										
% of plants - natural gas										
% of plants - oil										
% of plants - multiple fuel										
<b>Number of Plants</b>										
Total										
Gray										
White										
Grinding Only										
<b>Concentration Ratio</b> <sup>(1)</sup>										
of Top 5 Firms										
of Top 10 Firms										

<sup>(1)</sup> *Company capacity as percent of to*  
*\*Plant Information Summary went to*

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**TABLE 2**

**CAPACITY EXPANSIONS**

*(Clinker; 000 Metric Tons)*

**SUMMARY OF KILN ADDITIONS**

<u>Company</u>	<u>City</u>	<u>State</u>	<u>Clinker</u>
----------------	-------------	--------------	----------------

2022

2023

**SAMPLE**

TABLE 3

U.S. INDUSTRY UPDATE

2020

SAMPLE

**TABLE 4**

**U.S. RETIRED CEMENT FACILITIES**  
*(000 Metric Tons)*

**Company**

**City**

**State**

**Grinding**

**Clinker**

**SAMPLE**

---

**CAPACITY Total Rep**

**Active Clinker Capac**

TABLE 6

## UNITED STATES CEMENT PLANT INFORMATION SUMMARY

(Includes Gray and White Plants)

## KILN AGE SUMMARY

(Capacities in 000 Tons)

<u>Age</u>	<u>Number of Kilns</u>	<u>Clinker Capacity</u>	<u>Average Capacity Per Kiln</u>
AFTER 1980			
1976 - 1980			
1971 - 1975			
1966 - 1970			
1961 - 1965			
1956 - 1960			
1951 - 1955			
1946 - 1950			
1941 - 1945			
1936 - 1940			
1931 - 1935			
BEFORE 1931			
<b>Totals:</b>			
AFTER 1980			
1976 - 1980			
1971 - 1975			
1966 - 1970			
1961 - 1965			
1956 - 1960			
1951 - 1955			
1946 - 1950			
1941 - 1945			
1936 - 1940			
1931 - 1935			
BEFORE 1931			
<b>Totals:</b>			
AFTER 1980			
1976 - 1980			
1971 - 1975			
1966 - 1970			
1961 - 1965			
1956 - 1960			
1951 - 1955			
1946 - 1950			
1941 - 1945			
1936 - 1940			
1931 - 1935			
BEFORE 1931			
<b>Totals:</b>			
<b>AVERAGE KILN AGE (Year)</b>	<b><u>WET</u></b>	<b><u>DRY</u></b>	<b><u>TOTAL</u></b>
BASED ON NUMBER OF KILNS			

TABLE 7

## UNITED STATES FUEL USAGE SUMMARY

(Includes Gray and White Plants)

<u>TYPE OF FUEL</u>	<u>Number of Plants</u>	<u>Clinker Capacity (000 Tons)</u>	<u>Percent of Total Capacity</u>
<b>PRIMARY FUEL</b>			
Coal			
Natural Gas			
Coal, Natural Gas			
Coke			
Coal, Coke			
Alternative Fuel			
Coal, Natural Gas, Coke			
Natural Gas, Coke			
Coal, Oil, Coke			
Oil, Coke			
Oil			
Natural Gas, Coke, AF			
Coal, AF			
Coke, AF			
<b>Total:</b>			
<b>SECONDARY FUEL</b>			
Alternative Fuel			
Coal			
Natural Gas			
Natural Gas, AF			
Coal, AF			
Oil			
Coke, AF			
Natural Gas, Coke, AF			
Coke			
Coal, Oil, AF			
Coal, Natural Gas, AF			
Oil, AF			
Oil, Natural Gas, Coke, AF			
<b>Totals:</b>			

AF=Alternative Fuel

TABLE 8

PLANTS UTILIZING ALTERNATIVE FUELS

As a Primary Fuel:

As a Secondary Fuel:

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**TABLE 9**

**UNITED STATES CEMENT COMPANY CLINKER CAPACITIES**

*(Includes Gray and White Plants)*

<u>Rank</u>	<u>Clinker (000 Tons)</u>	<u>Percent Industry</u>	<u>Company Name</u>
-------------	-------------------------------	-----------------------------	---------------------

**SAMPLE**

TABLE 10

UNITED STATES CEMENT COMPANY GRINDING CAPACITIES

*(Includes Gray and White Plants)*

<u>Rank</u>	<u>Finish Grinding (000 Tons)</u>	<u>Percent Industry</u>	<u>Company Name</u>
-------------	---	-----------------------------	---------------------

SAMPLE



**TABLE 11**

**UNITED STATES CLINKER CAPACITIES BY STATE**  
*(Includes Gray and White Plants)*

<u>Rank</u>	<u>Clinker (000 Tons)</u>	<u>Percent Industry</u>	<u>State</u>
-------------	-------------------------------	-----------------------------	--------------

**SAMPLE**

***THERE ARE NO CLINKER PRODUCING PLANTS IN THE FOLLOWING STATES***

TABLE 12

UNITED STATES GRINDING CAPACITIES BY STATE  
*(Includes Gray, White and Grinding Plants)*

<u>Rank</u>	<u>Finish Grinding (000 Tons)</u>	<u>Percent Industry</u>	<u>State</u>
-------------	---	-----------------------------	--------------

SAMPLE

**THERE ARE NO CEMENT PRODUCING PLANTS IN THE FOLLOWING STATES**

TABLE 13

## UNITED STATES GRAY CEMENT PLANT CLINKER CAPACITIES

<u>Rank</u>	<u>Clinker (000 Tons)</u>	<u>Percent Industry</u>	<u>Name - Location</u>
-------------	-------------------------------	-----------------------------	------------------------

# SAMPLE

TABLE 14

UNITED STATES GRAY CEMENT PLANT GRINDING CAPACITIES

<u>Rank</u>	<u>Finish Grinding (000 Tons)</u>	<u>Percent Industry</u>	<u>Name - Location</u>
-------------	---	-----------------------------	------------------------

SAMPLE

**Table 15**

**U.S. Cement Company Capacity**

**and**

**Ownership**

Company/  
Owner

---

Number of  
Plants

---

Annual  
Grinding  
Capacity  
(000 Tons)

---

Annual  
Clinker  
Capacity  
(000 Tons)

---

# SAMPLE

## **Table 16**

### **U.S. Cement Plant Detail**

**Primary**

**Fuel Codes:** C - Coal O - Oil G - Gas K - Coke A - Alternative

**Alternative**

**Fuel Codes:** A - Oil B - Solvents C - Tire Derived D - Waste Derived  
E - Hazardous F - Renewable G - Other Solid H - Other

Secondary fuel codes are shown in parenthesis ( ) following the primary fuel code(s).  
Alternative fuel codes are shown in brackets [ ] below the fuel code(s).

**Process Codes:** X - Preheater C - Precalciner

Mill Data - Number of Mills:

Year Began	Mill Grinding Capacity		Roller Press Used
	Tons/Hour	Tons/Yr (000)	

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# SAMPLE

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Types of Cement Produced:

---

Predominant Cement Produced:

---

Characteristics of Most	% Clinker	% Gypsum	% Limestone
Common ASTM C150 Cement:	% Inorganic Processing Addition		% Other

---



# **Table 17**

## **U.S. Cement Plant Detail**

### **by State**

**Primary**

**Fuel Codes:** C - Coal O - Oil G - Gas K - Coke A - Alternate

Alternate fuel codes are shown in parenthesis ( ) following the primary fuel code(s).

**Alternative Fuel Codes (AF):** A - Oil B - Solvents C - Tire Derived D - Waste Derived  
E - Hazardous F - Renewable G - Other Solid H - Other

**Process Codes:** X - Preheater C - Precalciner

Inactive kilns are identified by [I] following the kiln year.

There are no cement-producing plants in the following states:

**U.S. CEMENT PLANT INFORMATION SUMMARY BY STATE**  
(Gray Cement)

PLANT DATA			KILN DATA				
Plant Location	No. Kilns	Finish Grinding Capacity	Year	Fuel	AF	Process	Clinker Capacity
		(000 Tons)					(Tons/Day) (000 Tons/Year)

**ALABAMA**

**SAMPLE**

State Totals:

**ARIZONA**

[illegible]

# SAMPLE

$$\begin{array}{ccc} \text{---} & & \text{---} \\ | & & | \\ \text{---} & & \text{---} \end{array}$$

— 2 —

**ALTERNAT**  
supplement

**ANDHYDRI**  
removed, u  
insoluble an

**BAUXITE:**  
oxide. It is a  
alumina sou

**BLAST FU**  
of calcium a  
furnace.

**BOTTOM A**  
removal an

**CEMENT:** A  
materials in

**CKD:** Ceme  
the final pro  
collected in  
cement ma  
agricultural

**CLAY:** An i  
and their co

**CLINKER:**

**CLINKER C**  
given a real  
days. Norm  
clean-up. C

**COAL:** A re  
moisture, c  
carbonaceo  
altered, and

**COKE:** In th  
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derived fro  
baking in an  
are fused to  
Coke from c

**DRY PROC**  
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**FINISH MIL**  
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( 2 ) The ent

**FLY ASH:** R  
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**GRINDING**  
Mills"]

**GYPSUM:** H  
about 3 to 6

**HYDRAULI**

**INORGANIC**  
process, fac  
reducing the  
materials ar

**KILN:** Equip  
1450 degree

**LIMESTON**  
used as an i

**MAGNETIT**

**MARL:** A lo  
shells.

**MILL SCAL**  
component

**NATURAL**  
wells. Consi  
carbon, nitro

**OIL:** A mixtu  
reservoirs, b  
condensate,  
plant liquids.  
additives an

**PORTLAND**  
silicates, us  
in color unle

# SAMPLE

3 to 6 percent

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ogen, oxide of

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lease  
natural gas  
unds, such as

raulic  
dition. Gray

<b>PRECALCIN</b> separate burn calciner, calci	<b>SAMPLE</b>	s with ce,
<b>PRECALCIN</b> raw meal is h preheater.		ich cement clonic
<b>PREHEATE</b> improve over Parallel Flow Fluidized Bed or (3) Crosse		per to pension 3,(5) ) Chains,
<b>ROTARY KIL</b> for burning ce heat exchang Preheating Z conjunction w		arge end, internal rocess), ed in d.
<b>SHALE:</b> Roc in lime. Used		de, but low
<b>SOLVENTS:</b> applications i		Example ctant.
<b>SYNTHETIC</b> with gaseous emissions at portland cem the setting of		r limestone oxide be used at o control
<b>WET PROCE</b> cement raw and sticky, w		umping emely wet
<b>WHITE CEM</b> materials (su		aw elements.

U.S. HYDRAULIC CEMENT

Portland Cement Types

I Normal  
SAMPLE g

Blend

Blend

Blend

Blend

Hydra

Hydra

Hydra

Hydra

Hydra

Hydra

Color

Expan

Grouti

Oil We ells

Mason

Morta

Plasti est)

White

\* Optio -

High S

## U.S. Cement Plant Directory

Company Plant Contact	Address Phone Number	City	State	Zip Code
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**SAMPLE**



# SAMPLE