

OKLAHOMA'S INDUSTRIAL MINERALS

Questions or need additional information?

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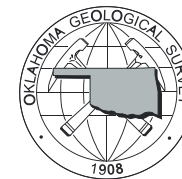
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EVERYDAY MINERALS IN OUR LIVES



**OKLAHOMA
GEOLOGICAL
SURVEY**
Charles J. Mankin, *Director*



OKLAHOMA GEOLOGICAL SURVEY

OKLAHOMA INDUSTRIAL MINERALS FACTS:

28th in U.S. Non-fuel Mineral Production Value
 \$479,000,000 total value of non-fuel minerals in 2003
 over 1% of U. S. non-fuel mineral production value
 3,298 Workers Employed in 2003 (includes coal mining)¹
 \$37,444 Average Annual Income in 2003²
 \$29,264 Total State Average (Private Sector)
 307 Non-fuel Mineral Mines

¹ Includes employees of all mining sectors, oil and gas extraction (where applicable), contractors and office workers

² Includes coal, oil and gas extraction

PRODUCTION VALUE OF MAJOR INDUSTRIAL MINERALS IN OKLAHOMA ^a	
INDUSTRIAL MINERAL	PRODUCTION VALUE
1. Crushed Stone	\$202,000,000
2. Cement	W
3. Sand & Gravel	
Construction Sand & Gravel	\$39,700,000
Industrial Sand & Gravel	\$28,400,000
4. Gypsum, crude	\$18,700,000
5. Iodine	\$19,700,000
6. Clays, common	\$2,250,000
7. Tripoli	\$2,290,000
8. Dimension Stone	\$2,100,000

^a Production value for 2003

W- Withheld to avoid disclosure of company proprietary information

OKLAHOMA INDUSTRIAL MINERALS RANKING IN U.S. PRODUCTION

1st in IODINE
 1st in GYPSUM
 2nd in TRIPOLI
 3rd in CRUDE HELIUM*
 5th in FELDSPAR
 7th in GRADE A HELIUM
 7th in COMMON CLAY
 8th in INDUSTRIAL SAND & GRAVEL

OTHER IMPORTANT INDUSTRIAL MINERALS IN OKLAHOMA

- Lime
- Pumice and Pumicite
- Perlite
- Salt
- Gemstones

INDUSTRIAL MINERALS USE(S)/CONSUMPTION	
INDUSTRIAL MINERAL	USE(S)/CONSUMPTION
GYPSUM	WALLBOARD ROAD METAL RETARDER IN CEMENT
IODINE	STAIN GUARD PHOTOGRAPHY DISINFECTANTS CATALYSTS DYES
TRIPOLI	ABRASIVES PIGMENTS INDUSTRIAL FILLERS
HELIUM	CRYOGENICS PRESSURIZING & PURGING WELDING COVER GAS CONTROLLED ATMOSPHERES
FELDSPAR	GLASS MAKING CERAMIC TILE
CRUSHED STONE	CONCRETE AGGREGATE ASPHALT AGGREGATE DECORATIVE STONE
SAND & GRAVEL	CONCRETE AGGREGATES ASPHALT AGGREGATES GLASS MAKING
COMMON CLAYS	BRICK MANUFACTURE
DIMENSION STONE	BUILDING STONE DECORATIVE STONE

Sources:

*U.S. Geological Survey, Mineral Industry Surveys, 2000

U.S. Geological Survey Minerals Yearbook, 2003

National Mining Association, 2002-2005, <http://www.nma.org/>