



MORENCI FACT SHEET

Revised July, 1997

GENERAL

- The population of Morenci is about 4,700.
- There are 1,157 Company-owned houses in Morenci; 1,103 are occupied.
- There are approximately 1,171 students in the Morenci Schools, 61 high school seniors (1995-1996 school year).
- The first mineral discoveries in Morenci were made in 1865 by volunteer Union soldiers from California.
- Between 1872 and 1882, ore mined by the Longfellow Copper Company was 20% copper. We now mine ore that is less than 1% copper.
- The first railroad in the District was built in 1879, it ran along Chase Creek from Clifton to the Longfellow incline in the area of the present open pit. Mules were used to pull the cars.
- The first locomotive was put into use in 1880.
- Phelps Dodge entered the Morenci mining picture in 1881 when it purchased an interest in the Detroit Mining Company.
- Phelps Dodge became the sole operation in the District in 1921.
- All mining, which was then by underground methods, stopped in 1932.
- Development of the open pit began in 1937.
- Since that time, 3 billion tons of ore and other rock material have been removed.
- Mining of copper ore for production in the open pit began in 1939.
- The last smelter was built in 1942. It was shut down in December 31, 1984 and dismantled in 1996.
- On May 26, 1996, a record 1,327,800 tons of material was mined in one day. This is a World Record.
- Approximately 2,800 employees are employed in the Morenci operations (07/01/97).
- Phelps Dodge has approximately 50,000 acres in its Morenci (1 pit) operations. (82 square miles total mining operations - 3 pits)
- The average automobile contains 50 pounds of copper.
- A 1,700 sq. ft. house contains approximately 400 pounds of copper.
- The workers in the copper industry are the highest paid of any industry in the state. (Average \$14.50/hour without bonuses.)

- 35% of US copper production is produced by Phelps Dodge Corporation. About 18% is produced at Morenci.

CONCENTRATOR DIVISION

- The Morenci Concentrator began producing copper concentrate in 1942; the Metcalf Concentrator in 1974.
- The two concentrators set a combined production record of 148,139 tons of ore processed in one day.
- Together, the two concentrators produce about 450 million pounds of copper per year.
- The concentrators produce a concentrate that is about 30% copper from ore that is less than 1% copper.
- The Metcalf Concentrator has received the State Mine Inspector's Safety Award for having the safest concentrators in the State for the last 10 years.
- The Morenci Concentrator received the State Mine Inspector' Safety Award in 1991, 1992 and 1993.
- In 1994, the Concentrator Division employees completed 3.45 million employee hours worked without experiencing a lost-time accident while producing 1.5 billion pounds of copper—a record that started in November, 1990.

SX-EW

- The SX-EW plant began operating in 1987 and was expanded in 1990, 1992, 1994 and again during 1995.
- The SX-EW plant presently produces approximately 518 million pounds of copper per year.
- On April 23, 1996, the SX-EW set a record production day by producing 1,558,266 pounds in a 24-hour period.
- Since its start-up in 1987, the Morenci SX-EW has received the State Mine Inspector's Award for having the safest SX-EW in the State for the years 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995 and 1996. In addition, they have worked over 2 million employee hours and/or over eight years without experiencing a lost-time accident while producing 1.6 billion pounds of copper.