## IRON AND STEEL SLAG STATISTICS ${ }^{1}$

U.S. GEOLOGICAL SURVEY
[All values in metric tons ( $\mathbf{t}$ ) iron \& steel slag unless otherwise noted]
Last modification: October 4, 2007

| Year | Production <br> (Sales) | Imports | Exports | Apparent <br> consumption | Unit value <br> (\$/t) | Unit value <br> (98\$/t) |
| ---: | ---: | :--- | ---: | ---: | ---: | ---: |
| 1942 | $17,300,000$ |  |  | $17,300,000$ | 0.84 | 8.40 |
| 1943 | $15,000,000$ |  |  | $15,000,000$ | 0.93 | 8.76 |
| 1944 | $11,300,000$ |  |  | $11,300,000$ | 0.97 | 8.98 |
| 1945 | $11,500,000$ |  |  | $11,500,000$ | 1.00 | 9.06 |
| 1946 | $15,200,000$ |  |  | $15,200,000$ | 1.08 | 9.03 |
| 1947 | $17,800,000$ |  |  | $17,800,000$ | 1.21 | 8.84 |
| 1948 | $19,200,000$ |  |  | $19,200,000$ | 1.29 | 8.72 |
| 1949 | $19,600,000$ |  |  | $19,600,000$ | 1.38 | 9.45 |
| 1950 | $22,600,000$ |  |  | $22,600,000$ | 1.44 | 9.74 |
| 1951 | $26,600,000$ |  |  | $26,600,000$ | 1.50 | 9.40 |
| 1952 | $24,400,000$ |  |  | $24,400,000$ | 1.53 | 9.41 |
| 1953 | $27,700,000$ |  |  | $27,700,000$ | 1.60 | 9.77 |
| 1954 | $26,500,000$ |  |  | $26,500,000$ | 1.64 | 9.94 |
| 1955 | $29,400,000$ |  |  | $29,400,000$ | 1.73 | 10.50 |
| 1956 | $32,000,000$ |  |  | $32,000,000$ | 1.72 | 10.30 |
| 1957 | $29,800,000$ |  |  | $29,800,000$ | 1.86 | 10.80 |
| 1958 | $25,800,000$ |  |  | $25,800,000$ | 1.60 | 9.02 |
| 1959 | $25,700,000$ |  |  | $25,700,000$ | 2.02 | 11.30 |
| 1960 | $26,100,000$ |  |  | $26,100,000$ | 2.02 | 11.10 |
| 1961 | $23,300,000$ |  |  |  | $23,300,000$ | 2.04 |

## IRON AND STEEL SLAG STATISTICS ${ }^{1}$

U.S. GEOLOGICAL SURVEY
[All values in metric tons (t) iron \& steel slag unless otherwise noted]
Last modification: October 4, 2007

| Year | Production (Sales) | Imports | Exports | Apparent consumption | $\begin{array}{c\|} \hline \text { Unit value } \\ (\$ / \mathbf{t}) \\ \hline \end{array}$ | $\begin{array}{c\|} \hline \text { Unit value } \\ (98 \$ / t) \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1993 | 19,000,000 | 162,000 | 4,000 | 19,200,000 | 6.63 | 7.48 |
| 1994 | 20,100,000 | 199,000 | 4,000 | 20,300,000 | 6.97 | 7.67 |
| 1995 | 21,000,000 | 280,000 | 4,000 | 21,300,000 | 6.86 | 7.34 |
| 1996 | 20,500,000 | 346,000 | 3,000 | 20,800,000 | 6.88 | 7.15 |
| 1997 | 18,900,000 | 663,000 | 9,000 | 19,600,000 | 7.25 | 7.36 |
| 1998 | 18,400,000 | 700,000 | 10,000 | 19,100,000 | 8.15 | 8.15 |
| 1999 | 17,100,000 | 920,000 | 12,000 | 18,000,000 | 8.21 | 8.03 |
| 2000 | 16,300,000 | 1,200,000 | 20,000 | 17,500,000 | 8.65 | 8.19 |
| 2001 | 16,900,000 | 2,600,000 | 50,000 | 19,500,000 | 8.05 | 7.41 |
| 2002 | 19,100,000 | 1,100,000 | 100,000 | 19,100,000 | 15.50 | 14.00 |
| 2003 | 19,700,000 | 1,100,000 | 100,000 | 19,700,000 | 15.00 | 13.30 |
| 2004 | 21,200,000 | 1,000,000 | 100,000 | 21,100,000 | 15.50 | 13.40 |
| 2005 | 21,600,000 | 1,600,000 | 35,000 | 21,600,000 | 17.60 | 14.70 |
| 2006 | 20,300,000 | 1,600,000 | 98,000 | 20,300,000 | 20.00 | 16.20 |

${ }^{1}$ Compiled by T.D. Kelly (retired), R.S. Kalyoncu (retired), and H.G. van Oss.
Data are calculated, estimated, or reported. See notes for more information.

## Iron and Steel Slag Worksheet Notes

## Data Sources

The sources of data for the slag-iron and steel worksheet are the mineral statistics publications of the U.S. Bureau of Mines and the U.S. Geological Survey-Minerals Yearbook (MYB) and Mineral Commodity Summaries (MCS). Blank cells in the worksheet indicate that data were not available.

## Production (Sales)

Production data of iron and steel slag is the sum of blast furnace slag and steel slag reported as total sales in the MYB for the years 1942-2000. Data for the years 2001-06 are reported in the MCS. Due to the length of materials remaining in stockpiles for longer than the usual yearly turnaround, data estimates may be less accurate. Data on total slag production are not collected.

## Imports

Imports are reported from the MYB for the years 1970-73 as the sum of slag, dross, and scaling. For the years 1985-2006, imports are reported in the MCS as "imports." For the years 1942-69 and 1974-84, import data were not available.

## Exports

Exports are reported from the MYB for the years 1970-74 as the sum of slag, dross, and scaling. For the years 1985-2006, exports are reported in MCS as "exports." For the years 1942-69 and 1975-84, export data were not available. The reported amount of exports for the years 2002-06 is considerably higher than that of previous years, due to the addition of granulated slag, which had not been included in exports statistics previously.

## Apparent Consumption

Apparent consumption was estimated by the following formula:
APPARENT CONSUMPTION = PRODUCTION (SALES) + IMPORTS - EXPORTS.

For the years that imports and exports were not available, production (sales) was assumed equal to apparent consumption. Data for the years 2001-06 are reported in the MCS.

## Unit Value (\$/t)

Unit value is defined as the value in current dollars of 1 metric ton ( t ) of slag apparent consumption. Unit value was estimated by dividing total slag production value by total slag production quantity, (as defined above). Data prior to 2001 are reported from the MYB. Unit value data for the years 2001-06 are the average value f.o.b. plant, reported in the MCS. The higher unit value for the years 2002-06, represents more complete data on sales of ground granulated blast furnace slag, value at almost $\$ 60.00$ per ton as opposed to air-cooled blast furnace and steel slags, valued from $\$ 4.00$ to $\$ 7.00$ per ton.

## Unit Value (98\$/t)

The Consumer Price Index conversion factor, with 1998 as the base year, is used to adjust unit value in current U.S. dollars to the unit value in constant 1998 U.S. dollars.

## References

U.S. Bureau of Mines, 1945-96, Minerals Yearbook, 1942-94.
U.S. Bureau of Mines, 1978-95, Mineral Commodity Summaries, 1978-95.
U.S. Geological Survey, 1997-2007, Mineral Commodity Summaries, 1997-2007.
U.S. Geological Survey, 1997-2007, Minerals Yearbook, v. I, 1995-2006.
U.S. Geological Survey and U.S. Bureau of Mines, 1996, Mineral Commodity Summaries, 1996.

## Recommended Citation Format:

U.S. Geological Survey, [year of last update, e.g., 2005], [Mineral commodity, e.g., Gold] statistics, in Kelly, T.D., and Matos, G.R., comps., Historical statistics for mineral and material commodities in the United States: U.S. Geological Survey Data Series 140, available online at http://pubs.usgs.gov/ds/2005/140/. (Accessed [date].)

## For more information, please contact:

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