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<thead>
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<th>Year</th>
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<th>Foundry</th>
<th>Metallurgical</th>
<th>Abrasives</th>
<th>Ceramic, porcelain, pottery, brick, tile, etc.</th>
<th>Petroleum industry</th>
<th>Recreational</th>
<th>Tractions, engines</th>
<th>Ceiling, wall, and floor finishes</th>
<th>Roofing granules and shingles</th>
<th>Other</th>
<th>Subtotal</th>
<th>Silica,lijah, filtration</th>
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<th>Nonmetallurgical blast</th>
<th>Other uses, specified</th>
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* Withheld to avoid disclosing company proprietary data. For sand, withheld data included with the other uses category; for gravel, withheld data included with the total of sold or used by gravel producers. XX Not applicable.

Compiled by G.R. Matos and T.P. Delley.
End Uses of Industrial Sand and Gravel

- Glassmaking
- Foundry
- Metallurgical
- Abrasives
- Chemicals, ground and unground
- Fillers, ground, rubber, paints, putty, etc.
- Whole grain fillers, building products
- Ceramic, ground, pottery, brick, tile, etc.
- Recreational
- Filtration
- Petroleum industry
- Traction, engine
- Roofing granules and fillers
- Coal washing
- Other
Industrial Sand and Gravel End-Use Worksheet Notes

Data Sources

End Use
End use is defined as the use of the mineral commodity in a particular industrial sector or product.

Industrial sand end uses are based on sold or used by producers. For industrial sand, end-use categories are glassmaking; foundry; metallurgical; abrasives; chemicals, ground and unground; fillers, ground rubber, paints, putty, etc.; whole grain fillers, building products; ceramic, ground, pottery, brick, tile, etc.; filtration; petroleum industry; recreational; traction, engine; coal washing; roofing granules and fillers; and other uses.

The glassmaking category includes containers; flat, plate and window; specialty; fiberglass, unground; and fiberglass ground.

The foundry category includes molding and core, unground; molding and core, ground; and refractory.

The metallurgical category includes silicon carbide and flux for metal smelting.

The abrasives category includes blasting; scouring cleansers, unground; and sawing and sanding.

The filtration category includes water, municipal, county, local; and swimming pool, other.

The petroleum industry category includes hydraulic fracturing and well packing and cementing.

The recreational category includes golf course, greens and traps; and baseball, volleyball, play sand, beaches.

The other uses category includes the other, ground silica; other, whole grain; and withheld data included in the group of sold or used by sand producers. Because some of the industrial sand producers did not report a breakdown by end use, their total production was reported in the MYB under other, ground silica. Other, ground silica also includes silica flour. The estimated production of nonrespondents was reported under other, whole grain. Other, whole grain was called the other, unspecified category until 1992.

Industrial gravel end uses are based on sold or used by producers. For industrial gravel, end-use categories are silicon, ferrosilicon; filtration; metallurgical; nonmetallurgical flux; and other uses, specified. The category metallurgical was broken down into silicon, ferrosilicon and filtration starting in 1978.

The undistributed category is the difference between apparent consumption and grand total, which is the sum of industrial sand and gravel. It reflects trade data, stocks, and data not reported by end use.

W in the spreadsheet indicates information withheld to avoid disclosing company proprietary data; for sand, withheld data are included with the other uses category; for gravel, withheld data are included with the total of sold or used by gravel producers. XX indicate that data were not applicable. Blank cells indicate that data were not available. Data are rounded to no more than three significant digits; data may not add to totals shown.

References

Recommended Citation Format:
(1) If taken from CD version:

(2) If taken from online version:

U.S. Geological Survey, Data Series 140.
For more information, please contact:

USGS Industrial Sand and Gravel Commodity Specialist