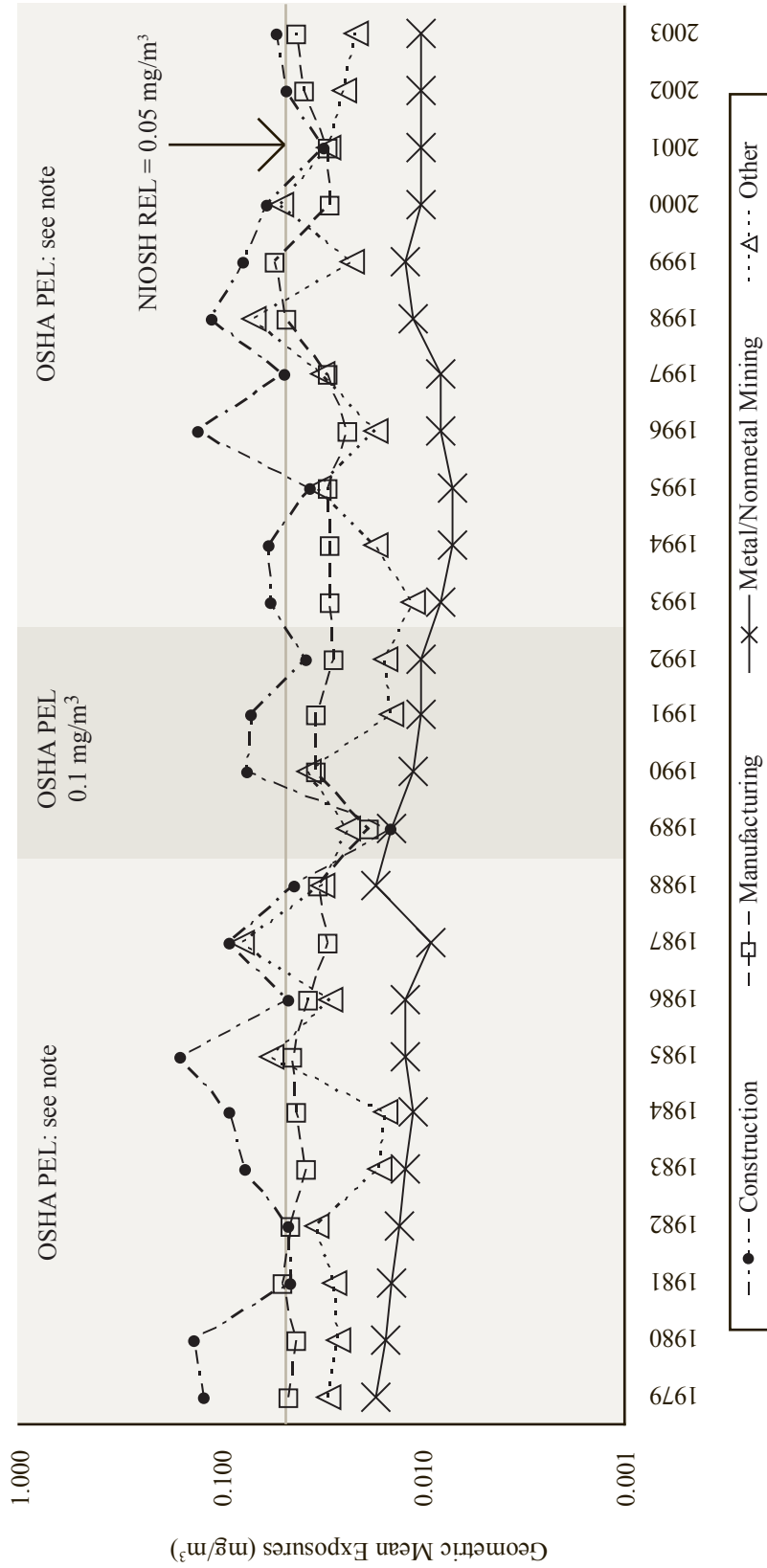


Respirable quartz: Geometric mean exposures by major industry division, MSHA and OSHA samples, 1979–2003



PEL - permissible exposure limit REL - recommended exposure limit mg/m³ - milligrams per cubic meter MSHA - Mine Safety and Health Administration
 OSHA - Occupational Safety and Health Administration
 NOTE: Before March 1, 1989 and after March 22, 1993, the OSHA PEL is [(10 mg/m³) / (% quartz + 2)], for respirable dust containing at least 1 percent quartz. From March 1, 1989 to March 22, 1993, the OSHA PEL was 0.1 mg/m³ for respirable quartz. For metal/nonmetal mining, the MSHA PEL is [(10 mg/m³) / (% quartz+2)] for respirable dust containing at least 1 percent quartz. See appendices for source description, methods, and agents.
 SOURCE: MSHA metal/nonmetal data. OSHA Integrated Management Information System.