

Surveillance Program PPOP

What are our priorities?

The National Institute for Occupational Safety and Health (NIOSH) Surveillance Program works with partners in industry, labor, trade associations, professional organizations, government agencies, and academia. The program:

- Expands awareness, knowledge, and use of occupational safety and health (OSH) surveillance data
- Builds capacity for state-based OSH surveillance
- Integrates OSH variables into general health surveillance systems and Occupational Data for Health (ODH) into health information technology (IT) systems
- Supports industry and health and safety surveillance needs, and addresses cross-cutting surveillance issues

What do we do?

- Encourage that OSH variables are included in national population-based surveys and data collections, standards for electronic health records (EHRs), and CDC surveillance systems, for example, the [Behavioral Risk Factor Surveillance System](#) and [National Notifiable Diseases Surveillance System](#).
- Promote use of OSH surveillance resources and data tools, such as the [NIOSH Industry and Occupation Computerized Coding System \(NIOCCS\)](#).
- Examine surveillance trends by visualizing data from state and federal partners. Examples include [Worker Health Charts](#), [Absenteeism in the Workplace](#) dashboards, and [Mine and Mine Worker Charts](#).
- Increase jurisdiction capacity to conduct case-based surveillance of priority occupational injuries and illnesses and include OSH variables in case-reporting.
- Identify opportunities to use novel sources of surveillance data, such as audiometric (hearing) data, workers' compensation data, and absenteeism data.
- Promote and support the use of ODH for self-entry of OSH variables in health IT systems to support patient care and public and population health.

What have we accomplished?

- Coded industry and occupation text for >3 million 2020 death certificates for 46 states. In collaboration with the National Center for Health Statistics, included these in the 2020 [National Vital Statistics System Mortality File](#).
- Released an [Epi Info](#) field template to collect standardized I/O information without an internet connection.
- Increased access to oil and gas worker fatalities surveillance data on the [NIOSH website](#).
- Updated the NIOSH [Mine and Mine Worker Charts](#) with mining disaster data summarizing all U.S. mining disasters from 1839 – 2021.
- Identified COVID-19 related trends by occupational category in monthly updates to the [Absenteeism in the Workplace](#) dashboards.
- Published papers on [suicide among workers, drug overdoses at work, binge drinking among workers, and health status and health behaviors of mining populations](#).

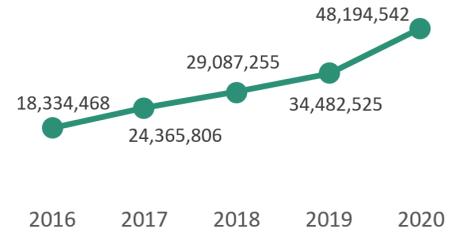
What's next?

- Publish ODH informatics and survey tools to use in health IT applications, like Research Electronic Data Capture (REDCap) instruments.
- Expand the NOMS website. Add (1) resources to help funeral directors collect useful I/O data on death certificates, (2) analytical resources for researchers, and (3) I/O data coding metrics.
- Pilot ODH collection and use in EHRs in healthcare organizations to promote ODH REDCap survey use.
- Create data visualizations to demonstrate changes in workplace lead exposure trends using [Adult Blood Lead Exposure Surveillance](#) data.
- Publish Mining Industry and Workforce Survey results, a probability sample survey containing data on U.S. mining operations and employees.
- Complete studies of (1) depression and mental distress among miners and oil and gas extraction workers, and (2) non-coal miners' exposures to respirable crystalline silica.
- Train 18 jurisdictions to collect I/O for COVID-19 cases and other infectious diseases.

At-A-Glance

The Surveillance Program improves the understanding of worker safety and health by identifying and tracking workplace injuries, illnesses, hazards, deaths, and exposures in the United States. This snapshot shows recent accomplishments and upcoming activities.

Cumulative number of records submitted* to NIOCCS



Includes both internal and external user submissions, crosswalks, and industry and occupation coding.

Source: NIOSH Program Records

Epi Info 7 field template collects and codes industry and occupation information

Occupation <input type="text" value="Nurse"/>	Industry <input type="text" value="Hospital"/>	<input type="button" value="Get I/O Codes"/>
Occupation Code <input type="text" value="3255"/>	Industry Code <input type="text" value="8190"/>	
Occupation Title <input type="text" value="Registered Nurses"/>	Industry Title <input type="text" value="Hospitals"/>	
Coding Scheme <input type="text" value="Census Industry and Occupation 2012"/>		

Source:

www.cdc.gov/niosh/topics/coding/usingepi.html

Mining disaster listing added to the NIOSH Mine and Mine Worker Charts

Year	State	County	City	Industry	Occupation	Deaths	Injuries	Property Damage	Notes
1839	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1840	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1841	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1842	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1843	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1844	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1845	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1846	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1847	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1848	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1849	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1850	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1851	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1852	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1853	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1854	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1855	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1856	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1857	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1858	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1859	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1860	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1861	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1862	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1863	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1864	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1865	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1866	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1867	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1868	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1869	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1870	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1871	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1872	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1873	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1874	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1875	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
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1880	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1881	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1882	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1883	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1884	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1885	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1886	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1887	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1888	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1889	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1890	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1891	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1892	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1893	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1894	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1895	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1896	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1897	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1898	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1899	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner
1900	VA	Rockingham	Rockingham	Coal	Coal Miner	1	0	\$0	Coal Miner

Source: www.cdc.gov/NIOSH-Mining/MMWC/MineDisasters/Table

To learn more, visit www.cdc.gov/niosh/topics/surveillance January 2022



Centers for Disease Control and Prevention
National Institute for Occupational Safety and Health

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