Industrial accidents in petroleum/coal products in Japan in 1999-2020

petroleum/coal products industry Code No.010804

Type of accidents in petroleum/coal products in 1999-2020

| Type of accidents | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| fall from height | 12 | 10 | 25 | 9 | 7 | 8 | 13 | 4 | 13 | 13 | 10 | 14 | 17 | 12 | 14 | 16 | 5 | 10 | 16 | 6 | 15 | 10 |
| falling to same level | 7 | 12 | 12 | 7 | 8 | 11 | 13 | 3 | 11 | 9 | 4 | 11 | 4 | 9 | 15 | 9 | 7 | 7 | 6 | 7 | 10 | 8 |
| crash | 5 | 4 | 4 | 1 | 2 | 7 | 8 | 2 | 2 | 1 | 7 | 5 | 3 | 3 | 1 | 5 | 2 | 3 | 2 | 2 | 1 | 1 |
| struck by flying or falling object | 11 | 7 | 4 | 10 | 2 | 4 | 4 | 6 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | 3 | 1 | 4 | 3 | 1 | 2 | 2 |
| collapse | 0 | 1 | 1 | 1 | 2 | 1 | 0 | 3 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 2 |
| crashed by | 1 | 3 | 5 | 5 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 0 | 5 | 3 | 2 | 3 | 2 | 2 | 0 | 2 | 1 | 5 |
| caught in/between | 25 | 20 | 23 | 21 | 14 | 30 | 12 | 25 | 15 | 14 | 13 | 17 | 16 | 7 | 10 | 19 | 16 | 7 | 13 | 14 | 9 | 11 |
| cut | 9 | 4 | 4 | 3 | 2 | 5 | 4 | 4 | 2 | 5 | 1 | 2 | 3 | 2 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| injury to the sole of the foot | 1 | 0 | 0 | - | 0 | - | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| drown | 0 | 1 | 0 | - | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| contact to high/low-temperature | 5 | 2 | 10 | 5 | 7 | 6 | 9 | 2 | 4 | 5 | 5 | 5 | 4 | 5 | 1 | 5 | 3 | 5 | 6 | 5 | 4 | 1 |
| contact to harmful substance | 2 | 4 | 2 | 2 | 1 | 2 | 0 | 1 | 1 | 0 | 1 | 3 | 0 | 6 | 0 | 9 | 1 | 1 | 1 | 2 | 1 | 1 |
| electric shock | 0 | 0 | 0 | - | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| explosion | 1 | 0 | 0 | 4 | 1 | - | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| burst | 0 | 0 | 0 | - | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| fire | 0 | 0 | 1 | - | 0 | - | 1 | 2 | 0 | 0 | 4 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| traffic accident (public road) | 1 | 0 | 0 | - | 1 | - | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 |
| traffic accident (others) | 0 | 0 | 0 | - | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| reaction to motion/improper motion | 6 | 10 | 3 | 4 | 4 | 12 | 8 | 8 | 3 | 4 | 4 | 8 | 3 | 4 | 6 | 1 | 2 | 3 | 8 | 5 | 4 | 5 |
| others | 0 | 1 | 0 | - | 0 | - | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 3 | 4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| unclassifiable | 0 | 0 | 0 | - | 0 | - | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| total | 86 | 79 | 94 | 72 | 54 | 87 | 75 | 63 | 59 | 54 | 58 | 71 | 71 | 54 | 60 | 71 | 42 | 43 | 58 | 47 | 52 | 56 |

Causal agents (middle) of industrial accidents in petroleum/coal products in 1999-2020

| Causal (M) agents | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| engine | 0 | 0 | 0 | - | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| power transmission mechanism | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 1 | 2 | 4 | 0 | 0 | 1 | 0 | 0 |
| woodworking machine | 2 | 1 | 0 | - | 0 | - | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| construction machine | 4 | 2 | 6 | - | 3 | 2 | 0 | 1 | 2 | 0 | 1 | 2 | 1 | 1 | 1 | 5 | 2 | 0 | 0 | 0 | 1 | 3 |
| metal manufacturing machine | 4 | 1 | 2 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| general machine | 14 | 9 | 12 | 13 | 5 | 15 | 7 | 12 | 7 | 6 | 7 | 6 | 9 | 3 | 5 | 6 | 4 | 3 | 4 | 4 | 3 | 3 |
| mobile silviculture machine | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| crane | 0 | 2 | 0 | 2 | 0 | - | 2 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| conveying machine | 16 | 9 | 15 | 8 | 11 | 17 | 10 | 15 | 10 | 7 | 7 | 10 | 8 | 5 | 10 | 9 | 6 | 8 | 7 | 12 | 8 | 12 |
| vehicle | 1 | 0 | 3 | - | 2 | - | 0 | 1 | 0 | 0 | 4 | 2 | 0 | 0 | 1 | 5 | 0 | 0 | 2 | 1 | 2 | 3 |
| pressure vessel | 0 | 0 | 0 | - | 1 | - | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| chemical facilities | 2 | 2 | 1 | 3 | 0 | - | 0 | 1 | 0 | 3 | 0 | 3 | 3 | 2 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |
| welding equipment | 0 | 0 | 0 | - | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| kiln, caldron | 0 | 1 | 0 | 4 | 0 | - | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 1 | 0 | 0 | 1 | 1 | 1 |
| electric equipment | 0 | 0 | 0 | - | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| human power machine, tools | 2 | 1 | 2 | 2 | 1 | 3 | 6 | 3 | 4 | 2 | 2 | 1 | 3 | 2 | 3 | 1 | 1 | 4 | 3 | 1 | 2 | 2 |
| tools | 5 | 1 | 14 | 5 | 2 | 3 | 4 | 4 | 3 | 6 | 3 | 7 | 4 | 8 | 3 | 3 | 1 | 6 | 5 | 2 | 4 | 2 |
| other equipments, facilities | 3 | 7 | 5 | 4 | 3 | 7 | 4 | 1 | 3 | 3 | 4 | 4 | 7 | 4 | 4 | 4 | 4 | 1 | 2 | 2 | 5 | 5 |
| temporary buildings, | 11 | 14 | 13 | 12 | 10 | 15 | 25 | 8 | 11 | 12 | 11 | 16 | 14 | 11 | 15 | 14 | 9 | 8 | 15 | 9 | 11 | 13 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| establishments | | | | | | | | | | | | | | | | | | | | | | |
| hazards, harmful substances | 4 | 6 | 6 | 3 | 3 | 3 | 4 | 4 | 2 | 1 | 9 | 6 | 4 | 7 | 4 | 10 | 2 | 1 | 3 | 3 | 4 | 2 |
| materials | 5 | 9 | 2 | 4 | 3 | 6 | 0 | 3 | 5 | 1 | 3 | 4 | 1 | 1 | 1 | 3 | 1 | 3 | 3 | 1 | 2 | 1 |
| load | 9 | 7 | 5 | 9 | 3 | 8 | 5 | 7 | 1 | 3 | 3 | 3 | 3 | 3 | 6 | 2 | 3 | 1 | 6 | 2 | 2 | 3 |
| natural environment | 1 | 3 | 3 | - | 3 | - | 1 | 1 | 3 | 3 | 1 | 0 | 10 | 2 | 3 | 1 | 2 | 2 | 3 | 4 | 2 | 0 |
| other causal agent | 0 | 0 | 1 | 1 | 1 | - | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 4 |
| no causal agent | 1 | 2 | 1 | - | 1 | 4 | 3 | 1 | 0 | 1 | 1 | 4 | 1 | 2 | 1 | 2 | 0 | 1 | 3 | 2 | 2 | 1 |
| unclassifiable | 0 | 0 | 1 | - | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| total | 86 | 79 | 94 | 72 | 54 | 87 | 75 | 63 | 59 | 54 | 58 | 71 | 71 | 54 | 60 | 71 | 42 | 43 | 58 | 47 | 52 | 56 |

Causal agents (small) of industrial accidents in petroleum/coal products in 1999-2020

| Causal (S) agents | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| engine | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| power transmission mechanism | | | 2 | | 2 | | 1 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 1 | 2 | 4 | 0 | 0 | 1 | 0 | 0 |
| circular sawing machine | | | 0 | | 0 | | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| band sawing machine | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| wood planer machine | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| hollow chisel mortiser, wood borer | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| chamfering machine, router, woodworking milling machine | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| chain saw | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other woodworking machines | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| leveling, transporting or loading machine | | | 5 | | 1 | | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 0 |
| excavating machine | | | 0 | | 2 | | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 3 |

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| foundation work machine | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| hardening machine | | | 1 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| demolition machine | | | 0 | | 0 | | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| vehicle for high lift work | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other construction machines | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| lathe | | | 1 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| drill press, milling machine | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| grinding machine, buffing machine | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| power press | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| forging pressure hammer | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| shearing machine | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other metal manufacturing machines | | | 1 | | 0 | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| centrifugal machine | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| mixer, grinder | | | 3 | | 0 | | 3 | 2 | 0 | 1 | 1 | 1 | 4 | 1 | 1 | 2 | 1 | 0 | 1 | 1 | 0 | 0 |
| roll machine (except printingroll machine) | | | 1 | | 1 | | 1 | 1 | 1 | 0 | 1 | 2 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| injection molding machine | | | 1 | | 2 | | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| food manufacturing machine | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| printing machine | | | 0 | | 1 | | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| industrial robot | | | 0 | | 0 | | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other general power machines | | | 7 | | 1 | | 2 | 8 | 4 | 5 | 4 | 3 | 5 | 1 | 3 | 4 | 2 | 3 | 2 | 2 | 2 | 2 |
| felling machine | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| mobile logging machine | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| skyline yarding | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| machine | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| other mobile silviculture machine | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| crane | | | 0 | | 0 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| mobile crane | | | 0 | | 0 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| derrick crane | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| elevator, lift | | | 0 | | 0 | | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| cargo lifting appliance | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| gondola | | | 0 | | 0 | | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| lumberyard equipment, logging cableway | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| simple skyline yarding equipment | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| other powered crane | | | 0 | | 0 | | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| truck | | | 4 | | 7 | | 4 | 3 | 5 | 0 | 0 | 1 | 0 | 1 | 4 | 4 | 1 | 4 | 2 | 4 | 4 | 3 |
| forklift | | | 4 | | 1 | | 3 | 1 | 1 | 2 | 1 | 1 | 4 | 2 | 2 | 0 | 4 | 2 | 1 | 2 | 0 | 1 |
| railway equipment | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| conveyor | | | 5 | | 3 | | 3 | 11 | 3 | 5 | 5 | 7 | 3 | 1 | 3 | 3 | 1 | 1 | 4 | 5 | 2 | 5 |
| loader | | | 2 | | 0 | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 |
| straddle carrier | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| rough terrain hauler | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other powered conveying machines | | | 0 | | 0 | | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 2 |
| cars, bus, motorcycle | | | 3 | | 1 | | 0 | 1 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 0 | 1 | 3 |
| railway vehicle | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other vehicles | | | 0 | | 1 | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 1 | 0 |
| boiler | | | 0 | | 1 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| pressure vessel | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other pressure vessels | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| chemical facilities | | | 1 | | 0 | | 0 | 1 | 0 | 3 | 0 | 3 | 3 | 2 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |
| gas welding | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| equipment | | | | | | | | | | | | | | | | | | | | | | |
| arc welding equipment | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other welding equipment | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| kiln, caldron | | | 0 | | 0 | | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 |
| industrial dryer | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| other kiln, caldron | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| transmission | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| electric power facilities | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| other electrical equipment | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| human power cranes | | | 0 | | 0 | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| human power hauling equipment | | | 0 | | 1 | | 4 | 2 | 3 | 1 | 1 | 0 | 0 | 0 | 2 | 0 | 1 | 1 | 2 | 1 | 2 | 1 |
| human power machine | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| hand tool | | | 2 | | 0 | | 2 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 0 | 0 | 3 | 1 | 0 | 0 | 1 |
| ladder | | | 10 | | 2 | | 3 | 1 | 2 | 4 | 2 | 5 | 2 | 5 | 1 | 2 | 0 | 3 | 4 | 0 | 3 | 1 |
| slinging tool | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| other tools | | | 4 | | 0 | | 1 | 3 | 1 | 2 | 1 | 1 | 2 | 3 | 2 | 0 | 1 | 2 | 1 | 2 | 1 | 1 |
| other equipment, facilities | | | 5 | | 3 | | 4 | 1 | 3 | 3 | 4 | 4 | 7 | 4 | 4 | 4 | 4 | 1 | 2 | 2 | 5 | 5 |
| scaffolding | | | 0 | | 1 | | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 1 | 0 | 0 |
| timbering | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| stairs, landing stage | | | 1 | | 3 | | 6 | 1 | 4 | 4 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 1 | 4 |
| opening | | | 0 | | 0 | | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| roof, beam, haze, crossbeam, principal rafter | | | 0 | | 0 | | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| working platform, boot board | | | 1 | | 0 | | 3 | 1 | 1 | 0 | 1 | 2 | 0 | 2 | 1 | 2 | 1 | 0 | 4 | 0 | 1 | 1 |
| passage | | | 5 | | 3 | | 7 | 1 | 4 | 1 | 4 | 7 | 2 | 2 | 4 | 3 | 2 | 3 | 5 | 4 | 7 | 4 |
| building, establishment | | | 5 | | 2 | | 6 | 2 | 1 | 3 | 4 | 4 | 6 | 3 | 3 | 1 | 2 | 1 | 2 | 0 | 1 | 0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| other temporary buildings, establishments | | | 1 | | 1 | | 3 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 2 | 3 | 1 | 0 | 1 | 1 | 1 | 3 |
| explosive substance | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| inflammable substance | | | 0 | | 0 | | 1 | 1 | 0 | 0 | 8 | 5 | 0 | 1 | 4 | 0 | 1 | 1 | 2 | 0 | 0 | 1 |
| inflammable gas | | | 0 | | 0 | | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| harmful substance | | | 0 | | 1 | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 9 | 0 | 0 | 0 | 0 | 1 | 1 |
| radiation | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other hazards, harmful substances | | | 6 | | 2 | | 2 | 2 | 2 | 1 | 0 | 1 | 0 | 3 | 0 | 1 | 1 | 0 | 1 | 3 | 3 | 0 |
| metal material | | | 1 | | 1 | | 0 | 1 | 3 | 0 | 1 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 1 |
| lumber, bamboo | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| stone, sand, substance | | | 1 | | 0 | | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other materials | | | 0 | | 2 | | 0 | 2 | 2 | 0 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 0 | 2 | 0 |
| load | | | 4 | | 2 | | 5 | 6 | 1 | 3 | 3 | 3 | 3 | 3 | 6 | 2 | 3 | 1 | 6 | 2 | 2 | 3 |
| machine/equipment as load | | | 1 | | 1 | | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| natural ground, rock | | | 0 | | 0 | | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| standing tree | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| water | | | 0 | | 0 | | 0 | 0 | 1 | 0 | 1 | 0 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| abnormal environment | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| high/cold temperature environment | | | 1 | | 1 | | 0 | 1 | 0 | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 0 | 0 |
| other environments | | | 2 | | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 1 | 0 | 2 | 1 | 0 | 1 | 0 |
| other causal agent | | | 1 | | 1 | | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 4 |
| no causal agent | | | 1 | | 1 | | 3 | 1 | 0 | 1 | 1 | 4 | 1 | 2 | 1 | 2 | 0 | 1 | 3 | 2 | 2 | 1 |
| unclassifiable | | | 1 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| total | | | 94 | | 54 | | 75 | 63 | 59 | 54 | 58 | 71 | 71 | 54 | 60 | 71 | 42 | 43 | 58 | 47 | 52 | 56 |

Workers age of industrial accidents in petroleum/coal products in 1999-2020

| Age | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 years old or less | 2 | 0 | 2 | 3 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 4 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 3 |
| 20-29 | 11 | 14 | 20 | 17 | 4 | 11 | 10 | 12 | 4 | 4 | 10 | 12 | 8 | 5 | 8 | 14 | 4 | 5 | 5 | 4 | 5 | 7 |
| 30-39 | 16 | 14 | 15 | 14 | 11 | 15 | 17 | 17 | 13 | 5 | 10 | 20 | 20 | 11 | 10 | 12 | 8 | 8 | 6 | 5 | 8 | 8 |
| 40-49 | 19 | 27 | 25 | 11 | 19 | 24 | 14 | 18 | 14 | 15 | 14 | 12 | 13 | 8 | 16 | 15 | 11 | 11 | 20 | 15 | 13 | 19 |
| 50-59 | 26 | 21 | 23 | 20 | 14 | 27 | 24 | 13 | 18 | 19 | 17 | 20 | 19 | 15 | 15 | 19 | 11 | 10 | 14 | 13 | 13 | 11 |
| 60 years old or more | 12 | 3 | 9 | 7 | 6 | 9 | 10 | 3 | 9 | 10 | 7 | 7 | 11 | 11 | 10 | 10 | 6 | 7 | 11 | 9 | 12 | 8 |
| total | 86 | 79 | 94 | 72 | 54 | 87 | 75 | 63 | 59 | 54 | 58 | 71 | 71 | 54 | 60 | 71 | 42 | 43 | 58 | 47 | 52 | 56 |

Workers' number of workplace of industrial accidents in petroleum/coal products in 1999-2020

| Workers scale | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 workers or less | 27 | 21 | 26 | 17 | 15 | 23 | 14 | 13 | 13 | 21 | 15 | 11 | 13 | 6 | 14 | 20 | 13 | 12 | 9 | 9 | 9 | 8 |
| 10-29 | 24 | 22 | 18 | 19 | 18 | 19 | 15 | 13 | 16 | 8 | 10 | 17 | 15 | 15 | 12 | 9 | 11 | 8 | 12 | 11 | 14 | 11 |
| 30-49 | 11 | 11 | 17 | 5 | 5 | 13 | 10 | 7 | 9 | 10 | 10 | 5 | 8 | 2 | 7 | 4 | 4 | 4 | 10 | 3 | 11 | 8 |
| 50-99 | 11 | 13 | 13 | 14 | 6 | 18 | 14 | 11 | 9 | 2 | 11 | 10 | 17 | 11 | 8 | 16 | 5 | 5 | 6 | 8 | 7 | 11 |
| 100-299 | 7 | 7 | 10 | 9 | 6 | 10 | 13 | 14 | 4 | 7 | 6 | 14 | 7 | 6 | 15 | 7 | 2 | 10 | 11 | 7 | 7 | 5 |
| 300 workers or more | 6 | 5 | 10 | 8 | 4 | 4 | 9 | 5 | 8 | 6 | 6 | 14 | 11 | 14 | 4 | 15 | 7 | 4 | 10 | 9 | 4 | 13 |
| total | 86 | 79 | 94 | 72 | 54 | 87 | 75 | 63 | 59 | 54 | 58 | 71 | 71 | 54 | 60 | 71 | 42 | 43 | 58 | 47 | 52 | 56 |

Month of industrial accidents in petroleum/coal products in 1999-2020

| Month | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 4 | 9 | 7 | 3 | 7 | 8 | 4 | 8 | 3 | 2 | 3 | 4 | 0 | 6 | 4 | 6 | 1 | 6 | 1 | 2 | 5 | 7 |
| February | 7 | 2 | 8 | 4 | 3 | 2 | 4 | 5 | 3 | 2 | 11 | 7 | 11 | 4 | 6 | 6 | 4 | 4 | 10 | 4 | 9 | 6 |
| March | 8 | 7 | 10 | 4 | 1 | 9 | 5 | 8 | 7 | 3 | 7 | 7 | 14 | 6 | 4 | 4 | 5 | 3 | 3 | 4 | 3 | 4 |
| April | 3 | 8 | 8 | 5 | 6 | 6 | 3 | 9 | 4 | 3 | 5 | 6 | 4 | 4 | 6 | 3 | 6 | 1 | 3 | 2 | 3 | 1 |
| May | 5 | 4 | 7 | 8 | 5 | 4 | 8 | 2 | 5 | 6 | 6 | 1 | 5 | 6 | 2 | 2 | 1 | 3 | 6 | 4 | 2 | 2 |
| June | 6 | 16 | 6 | 6 | 2 | 17 | 10 | 7 | 3 | 4 | 1 | 9 | 5 | 3 | 4 | 4 | 0 | 2 | 1 | 2 | 4 | 4 |
| July | 10 | 6 | 10 | 12 | 7 | 11 | 11 | 6 | 1 | 8 | 8 | 3 | 3 | 7 | 9 | 11 | 4 | 5 | 6 | 3 | 4 | 7 |
| August | 10 | 5 | 13 | 5 | 2 | 3 | 8 | 0 | 4 | 3 | 5 | 4 | 8 | 2 | 3 | 7 | 3 | 5 | 6 | 9 | 6 | 5 |
| September | 14 | 4 | 7 | 7 | 7 | 10 | 5 | 4 | 1 | 7 | 3 | 10 | 1 | 4 | 7 | 5 | 2 | 5 | 4 | 5 | 5 | 9 |
| October | 7 | 9 | 6 | 4 | 5 | 5 | 7 | 2 | 9 | 7 | 2 | 7 | 12 | 5 | 2 | 8 | 6 | 0 | 6 | 6 | 2 | 9 |
| November | 8 | 3 | 6 | 4 | 3 | 3 | 7 | 8 | 16 | 6 | 3 | 8 | 7 | 3 | 12 | 11 | 5 | 6 | 6 | 3 | 3 | 1 |
| December | 4 | 6 | 6 | 10 | 6 | 9 | 3 | 4 | 3 | 3 | 4 | 5 | 1 | 4 | 1 | 4 | 5 | 3 | 6 | 3 | 6 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| total | 86 | 79 | 94 | 72 | 54 | 87 | 75 | 63 | 59 | 54 | 58 | 71 | 71 | 54 | 60 | 71 | 42 | 43 | 58 | 47 | 52 | 56 |

Prefecture of industrial accidents in petroleum/coal products in 1999-2020

| Prefecture | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hokkaido | 3 | 5 | 8 | | 4 | | 2 | 5 | 0 | 3 | 9 | 6 | 3 | 7 | 6 | 1 | 0 | 4 | 3 | 4 | 1 | 0 |
| Aomori | 3 | 1 | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Iwate | 1 | 0 | 1 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 1 |
| Miyagi | 1 | 1 | 1 | | 2 | | 1 | 0 | 1 | 1 | 0 | 0 | 6 | 0 | 1 | 1 | 2 | 1 | 0 | 1 | 1 | 1 |
| Akita | 0 | 0 | 0 | | 0 | | 0 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yamagata | 0 | 0 | 0 | | 0 | | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Fukushima | 1 | 0 | 2 | | 2 | | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| Ibaraki | 5 | 4 | 3 | | 1 | | 0 | 4 | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 2 | 1 | 2 | 2 | 1 | 2 | 0 |
| Tochigi | 1 | 0 | 0 | | 0 | | 2 | 4 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 1 | 2 | 0 | 0 | 1 | 1 | 3 |
| Gunma | 1 | 2 | 0 | | 0 | | 2 | 1 | 2 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 0 |
| Saitama | 4 | 2 | 4 | | 4 | | 2 | 5 | 3 | 2 | 3 | 4 | 5 | 1 | 2 | 1 | 0 | 3 | 2 | 2 | 0 | 0 |
| Chiba | 3 | 4 | 5 | | 2 | | 6 | 4 | 5 | 7 | 6 | 11 | 11 | 4 | 10 | 6 | 4 | 1 | 8 | 3 | 5 | 6 |
| Tokyo | 6 | 6 | 1 | | 0 | | 3 | 0 | 1 | 1 | 2 | 2 | 3 | 0 | 1 | 4 | 0 | 0 | 1 | 2 | 0 | 1 |
| Kanagawa | 4 | 2 | 10 | | 2 | | 8 | 6 | 6 | 3 | 4 | 6 | 1 | 10 | 4 | 6 | 2 | 3 | 2 | 4 | 7 | 9 |
| Niigata | 1 | 1 | 2 | | 3 | | 4 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Toyama | 0 | 0 | 0 | | 1 | | 2 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ishikawa | 2 | 1 | 0 | | 0 | | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fukui | 0 | 0 | 2 | | 0 | | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yamanashi | 0 | 0 | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nagano | 1 | 1 | 1 | | 0 | | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 1 | 0 | 1 |
| Gifu | 0 | 0 | 2 | | 1 | | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 0 |
| Shizuoka | 3 | 2 | 2 | | 0 | | 3 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 2 | 1 | 0 |
| Aichi | 3 | 2 | 3 | | 4 | | 5 | 5 | 4 | 0 | 4 | 4 | 3 | 3 | 4 | 4 | 1 | 2 | 5 | 1 | 10 | 5 |
| Mie | 4 | 1 | 2 | | 3 | | 1 | 1 | 1 | 4 | 0 | 2 | 2 | 3 | 1 | 2 | 0 | 0 | 4 | 1 | 2 | 0 |
| Shiga | 0 | 0 | 1 | | 0 | | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Kyoto | 5 | 2 | 2 | | 1 | | 3 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |
| Osaka | 12 | 17 | 8 | | 8 | | 12 | 4 | 8 | 5 | 4 | 9 | 11 | 6 | 6 | 4 | 3 | 6 | 4 | 6 | 3 | 3 |
| Hyogo | 1 | 2 | 4 | | 2 | | 3 | 3 | 3 | 3 | 3 | 8 | 2 | 1 | 1 | 5 | 1 | 0 | 2 | 1 | 3 | 3 |
| Nara | 1 | 0 | 1 | | 0 | | 2 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |
| Wakayama | 1 | 2 | 2 | | 0 | | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 2 | 1 | 0 |
| Tottori | 2 | 0 | 0 | | 0 | | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Shimane | 0 | 0 | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| Okayama | 1 | 1 | 2 | | 4 | | 3 | 1 | 2 | 6 | 2 | 0 | 4 | 2 | 1 | 0 | 1 | 2 | 3 | 3 | 1 | 2 |
| Hiroshima | 2 | 3 | 2 | | 2 | | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 8 | 4 | 0 | 1 | 0 | 0 | 5 |
| Yamaguchi | 4 | 4 | 6 | | 1 | | 1 | 2 | 3 | 4 | 3 | 3 | 1 | 6 | 6 | 2 | 1 | 1 | 3 | 3 | 2 | 5 |
| Tokushima | 1 | 0 | 0 | | 0 | | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kagawa | 0 | 0 | 1 | | 0 | | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 1 | 1 | 2 | 0 | 0 | 2 |
| Ehime | 0 | 1 | 1 | | 0 | | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 0 | 2 | 0 | 0 | 1 | 1 |
| Kochi | 0 | 0 | 0 | | 0 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fukuoka | 7 | 6 | 10 | | 5 | | 2 | 1 | 6 | 1 | 10 | 2 | 5 | 5 | 3 | 4 | 7 | 5 | 3 | 5 | 3 | 2 |
| Saga | 0 | 1 | 0 | | 1 | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Nagasaki | 0 | 0 | 2 | | 0 | | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Kumamoto | 0 | 1 | 0 | | 1 | | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 1 |
| Oita | 0 | 1 | 0 | | 0 | | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 1 | 2 |
| Miyazaki | 0 | 0 | 0 | | 0 | | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 |
| Kagoshima | 1 | 1 | 2 | | 0 | | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 |
| Okinawa | 1 | 2 | 1 | | 0 | | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| total | 86 | 79 | 94 | | 54 | | 75 | 63 | 59 | 54 | 58 | 71 | 71 | 54 | 60 | 71 | 42 | 43 | 58 | 47 | 52 | 56 |

Industrial accidents mean fatal and non-fatal injuries with work absence of 4 days and more. Data of 2011 year include Industrial accidents caused by Great East Japan Earthquake in 2011.

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm (MHLW, Japan)

Return to https://www.jisha.or.jp/english/statistics/2020e_industry.html

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Fatal accidents in petroleum/coal products in Japan in 1999-2020

petroleum/coal products industry Code No.010804

Type of fatal accidents in petroleum/coal products in 1999-2020

| Type of accidents | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| fall from height | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| falling to same level | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| crash | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| struck by flying or | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| falling object | | | | | | | | | | | | | | | | | | | | | | |
| collapse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| crashed by | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| caught in/between | 2 | 2 | 1 | 1 | 3 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| cut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| injury to the sole of the foot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| drown | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| contact to high/low-temperature | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| contact to harmful substance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| electric shock | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| explosion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| burst | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| fire | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| traffic accident (public road) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| traffic accident (others) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| reaction to motion/improper motion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| others | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| unclassifiable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| total | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 2 | 3 | 3 | 1 | 3 | 8 | 1 | 3 | 0 | 1 | 0 | 3 | 1 | 1 | 0 |

Causal agents (middle) of fatal accidents in petroleum/coal products in 1999-2020

| Causal (M) agents | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| engine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| power transmission mechanism | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| woodworking machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| construction machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| metal manufacturing machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| general machine | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| mobile silviculture machine | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| crane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| conveying machine | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| vehicle | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| pressure vessel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| chemical facilities | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| welding equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| kiln, caldron | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| electric equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| human power machine, tools | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| tools | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other equipments, facilities | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| temporary buildings, establishments | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| hazards, harmful substances | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| materials | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| load | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| natural environment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| other causal agent | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| no causal agent | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| unclassifiable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| total | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 2 | 3 | 3 | 1 | 3 | 8 | 1 | 3 | 0 | 1 | 0 | 3 | 1 | 1 | 0 |

Causal agents (small) of fatal accidents in petroleum/coal products in 1999-2020

| Causal (S) agents | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| engine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| power transmission mechanism | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| circular sawing machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| band sawing machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| wood planer machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| hollow chisel mortiser, wood borer | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| chamfering machine, router, woodworking milling machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| chain saw | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other woodworking machines | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| leveling, transporting or loading machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| excavating machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| foundation work machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| hardening machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| demolition machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| vehicle for high lift work | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other construction machines | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| lathe | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| drill press, milling machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| grinding machine, | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| buffing machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| power press | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| forging pressure hammer | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| shearing machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other metal manufacturing machines | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| centrifugal machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| mixer, grinder | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| roll machine (except printingroll machine) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| injection molding machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| food manufacturing machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| printing machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| industrial robot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other general power machines | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| felling machine | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| mobile logging machine | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| skyline yarding machine | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| other mobile silviculture machine | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| crane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| mobile crane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| derrick crane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| elevator, lift | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| cargo lifting appliance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| gondola | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| lumberyard equipment, logging | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| cableway | | | | | | | | | | | | | | | | | | | | | | |
| simple skyline yarding equipment | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| other powered crane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| truck | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| forklift | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| railway equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| conveyor | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| loader | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| straddle carrier | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| rough terrain hauler | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other powered conveying machines | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| cars, bus, motorcycle | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| railway vehicle | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other vehicles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| boiler | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| pressure vessel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other pressure vessels | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| chemical facilities | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| gas welding equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| arc welding equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other welding equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| kiln, caldron | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| industrial dryer | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other kiln, caldron | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| transmission | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| electric power facilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other electrical equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| human power cranes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| human power hauling equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| human power machine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| hand tool | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ladder | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| slinging tool | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other tools | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other equipment, facilities | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| scaffolding | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| timbering | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| stairs, landing stage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| opening | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| roof, beam, haze, crossbeam, principal rafter | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| working platform, boot board | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| passage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| building, establishment | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other temporary buildings, establishments | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| explosive substance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| inflammable substance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| inflammable gas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| harmful substance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| radiation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other hazards, harmful substances | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| metal material | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| lumber, bamboo | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| stone, sand, substance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other materials | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| load | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| machine/equipment as load | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| natural ground, rock | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| standing tree | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| water | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| abnormal environment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| high/cold temperature environment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| other environments | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other causal agent | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| no causal agent | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| unclassifiable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| total | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 2 | 3 | 3 | 1 | 3 | 8 | 1 | 3 | 0 | 1 | 0 | 3 | 1 | 1 | 0 |

Workers age of fatal accidents in petroleum/coal products in 1999-2020

| Age | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 years old or less | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20-29 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 30-39 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40-49 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 2 | 0 | 1 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 50-59 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 1 | 2 | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 0 |
| 60 years old or more | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| total | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 2 | 3 | 3 | 1 | 3 | 8 | 1 | 3 | 0 | 1 | 0 | 3 | 1 | 1 | 0 |

Workers' number of workplace of fatal accidents in petroleum/coal products in 1999-2020

| Workers scale | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 workers or less | 2 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-29 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 1 | 0 |
| 30-49 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50-99 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 100-299 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 300 workers or more | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| total | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 2 | 3 | 3 | 1 | 3 | 8 | 1 | 3 | 0 | 1 | 0 | 3 | 1 | 1 | 0 |

Month of fatal accidents in petroleum/coal products in 1999-2020

| Month | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| February | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| March | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 8 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| April | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| June | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| July | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| August | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| September | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| October | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| total | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 2 | 3 | 3 | 1 | 3 | 8 | 1 | 3 | 0 | 1 | 0 | 3 | 1 | 1 | 0 |

Prefecture of fatal accidents in petroleum/coal products in 1999-2020

| Prefecture | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hokkaido | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Aomori | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Iwate | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Miyagi | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Akita | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yamagata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fukushima | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ibaraki | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tochigi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gunma | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Saitama | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chiba | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| Tokyo | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kanagawa | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Niigata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Toyama | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ishikawa | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fukui | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yamanashi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nagano | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gifu | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shizuoka | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Aichi | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Mie | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shiga | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kyoto | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Osaka | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hyogo | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nara | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wakayama | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tottori | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shimane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Okayama | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hiroshima | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yamaguchi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tokushima | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kagawa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ehime | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kochi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fukuoka | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Saga | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nagasaki | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kumamoto | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Oita | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Miyazaki | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kagoshima | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Okinawa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| total | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 2 | 3 | 3 | 1 | 3 | 8 | 1 | 3 | 0 | 1 | 0 | 3 | 1 | 1 | 0 |

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm (MHLW, Japan)

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