

Industrial accidents in port/seaside construction work in Japan in 1999-2020

port/seaside construction work industry Code No.030111

Type of accidents in port/seaside construction work 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 | 40 | 42 | 45 | 30 | 32 | 33 | 28 | 23 | 19 | 19 | 14 | 20 | 20 | 12 | 31 | 33 | 12 | 19 | 23 | 8 | 16 | 22 |
| falling to same level | 22 | 18 | 15 | 17 | 14 | 13 | 12 | 8 | 12 | 10 | 5 | 9 | 5 | 3 | 16 | 8 | 7 | 10 | 11 | 8 | 5 | 14 |
| crash | 9 | 9 | 4 | 8 | 3 | 4 | 7 | 1 | 6 | 3 | 2 | 7 | 1 | 6 | 9 | 6 | 5 | 8 | 3 | 4 | 6 | 2 |
| struck by flying or falling object | 29 | 22 | 19 | 21 | 17 | 8 | 18 | 9 | 11 | 14 | 10 | 7 | 8 | 6 | 11 | 8 | 10 | 12 | 8 | 10 | 6 | 9 |
| collapse | 8 | 5 | 8 | 6 | 6 | 2 | 5 | 9 | 7 | 3 | 3 | 7 | 1 | 4 | 4 | 5 | 5 | 2 | 1 | 3 | 4 | 8 |
| crashed by | 32 | 30 | 29 | 18 | 16 | 12 | 16 | 14 | 16 | 13 | 3 | 6 | 9 | 6 | 8 | 14 | 8 | 17 | 8 | 2 | 6 | 11 |
| caught in/between | 39 | 46 | 47 | 44 | 36 | 30 | 28 | 21 | 20 | 12 | 34 | 15 | 11 | 26 | 18 | 23 | 16 | 21 | 21 | 10 | 15 | 20 |
| cut | 4 | 6 | 7 | 4 | 3 | 4 | 2 | 0 | 2 | 2 | 3 | 0 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 4 | 4 | 3 |
| injury to the sole of the foot | 1 | 0 | 0 | - | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| drown | 1 | 4 | 2 | 1 | 4 | 2 | 2 | 1 | 0 | 2 | 1 | 1 | 3 | 5 | 2 | 0 | 2 | 1 | 2 | 3 | 0 | 1 |
| contact to high/low-temperature | 1 | 1 | 2 | 1 | 1 | - | 2 | 1 | 2 | 0 | 1 | 2 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 1 |
| contact to harmful substance | 7 | 2 | 2 | - | 3 | 2 | 3 | 3 | 3 | 1 | 1 | 3 | 1 | 2 | 0 | 5 | 1 | 1 | 1 | 1 | 1 | 1 |
| electric shock | 0 | 1 | 0 | - | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| explosion | 0 | 0 | 0 | - | 0 | - | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| burst | 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 | - | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| traffic accident (public road) | 3 | 6 | 1 | 6 | 3 | - | 3 | 0 | 3 | 1 | 0 | 2 | 2 | 0 | 3 | 4 | 6 | 3 | 1 | 9 | 3 | 3 |
| traffic accident (others) | 0 | 0 | 0 | 2 | 0 | - | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| reaction to motion/improper motion | 6 | 5 | 7 | 2 | 5 | 5 | 3 | 6 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 1 | 3 | 2 | 4 | 1 | 2 |
| others | 3 | 2 | 1 | 2 | 2 | 1 | 2 | 0 | 2 | 1 | 2 | 0 | 6 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|
| unclassifiable | 0 | 0 | 0 | - | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | |
| total | 205 | 199 | 189 | 162 | 145 | 117 | 133 | 97 | 107 | 85 | 82 | 85 | 76 | 79 | 111 | 112 | 76 | 99 | 84 | 69 | 69 | 97 |

Causal agents (middle) of industrial accidents in port/seaside construction work 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 | 1 | 0 | - | 0 | - | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| power transmission mechanism | 0 | 0 | 1 | - | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| woodworking machine | 2 | 3 | 2 | - | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 2 |
| construction machine | 15 | 15 | 8 | 11 | 6 | 5 | 12 | 2 | 13 | 9 | 8 | 5 | 5 | 5 | 9 | 9 | 3 | 10 | 12 | 3 | 2 | 3 |
| metal manufacturing machine | 2 | 1 | 3 | 3 | 3 | - | 0 | 0 | 1 | 1 | 2 | 0 | 1 | 3 | 0 | 2 | 1 | 1 | 2 | 2 | 1 | 1 |
| general machine | 2 | 1 | 3 | 2 | 5 | - | 1 | 0 | 2 | 2 | 0 | 2 | 1 | 1 | 0 | 3 | 0 | 2 | 2 | 0 | 4 | 2 |
| mobile silviculture machine | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| crane | 32 | 22 | 34 | 16 | 29 | 15 | 14 | 15 | 15 | 8 | 9 | 10 | 9 | 12 | 19 | 15 | 19 | 11 | 14 | 3 | 5 | 10 |
| conveying machine | 5 | 8 | 5 | 10 | 5 | 11 | 6 | 3 | 1 | 4 | 3 | 5 | 7 | 2 | 5 | 10 | 5 | 3 | 2 | 3 | 5 | 4 |
| vehicle | 13 | 12 | 8 | 24 | 9 | 8 | 13 | 3 | 9 | 5 | 10 | 7 | 8 | 5 | 10 | 4 | 10 | 10 | 6 | 11 | 7 | 8 |
| pressure vessel | 0 | 0 | 0 | - | 0 | - | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| chemical facilities | 0 | 0 | 0 | - | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| welding equipment | 1 | 0 | 0 | - | 0 | - | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| kiln, caldron | 0 | 0 | 0 | - | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| electric equipment | 0 | 1 | 0 | - | 1 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| human power machine, tools | 6 | 4 | 5 | 2 | 2 | 1 | 3 | 0 | 1 | 2 | 2 | 4 | 1 | 2 | 0 | 1 | 0 | 3 | 0 | 1 | 0 | 1 |
| tools | 26 | 25 | 28 | 31 | 17 | 12 | 10 | 9 | 12 | 11 | 9 | 6 | 7 | 10 | 11 | 17 | 10 | 11 | 11 | 7 | 7 | 8 |
| other equipments, facilities | 5 | 4 | 3 | 4 | 2 | 4 | 1 | 0 | 1 | 3 | 1 | 3 | 4 | 2 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 2 |
| temporary buildings, | 41 | 52 | 49 | 32 | 33 | 32 | 31 | 31 | 27 | 19 | 15 | 25 | 10 | 17 | 30 | 26 | 13 | 22 | 22 | 14 | 18 | 28 |

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|-----------------------------|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|
| establishments | | | | | | | | | | | | | | | | | | | | | | |
| hazards, harmful substances | 1 | 0 | 2 | - | 0 | - | 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 1 |
| materials | 32 | 31 | 23 | 18 | 19 | 10 | 20 | 18 | 14 | 9 | 10 | 7 | 8 | 5 | 8 | 8 | 4 | 9 | 4 | 7 | 8 | 10 |
| load | 4 | 2 | 6 | 3 | 3 | 2 | 4 | 0 | 2 | 3 | 3 | 1 | 3 | 3 | 3 | 2 | 3 | 4 | 3 | 1 | 5 | 5 |
| natural environment | 15 | 14 | 7 | 5 | 7 | 10 | 5 | 11 | 7 | 6 | 7 | 6 | 11 | 8 | 8 | 6 | 6 | 3 | 4 | 9 | 2 | 10 |
| other causal agent | 1 | 1 | 0 | - | 3 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| no causal agent | 2 | 2 | 2 | 1 | 0 | 1 | 2 | 2 | 2 | 0 | 1 | 1 | 1 | 1 | 3 | 3 | 0 | 2 | 1 | 5 | 1 | 2 |
| unclassifiable | 0 | 0 | 0 | - | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| total | 205 | 199 | 189 | 162 | 145 | 117 | 133 | 97 | 107 | 85 | 82 | 85 | 76 | 79 | 111 | 112 | 76 | 99 | 84 | 69 | 69 | 97 |

Causal agents (small) of industrial accidents in port/seaside construction work 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 | | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| power transmission mechanism | | | 1 | | 0 | | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| circular sawing machine | | | 1 | | 1 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 2 |
| 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 | 1 | 0 | 0 | 0 | 0 |
| other woodworking machines | | | 1 | | 0 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| leveling, transporting or loading machine | | | 1 | | 0 | | 2 | 0 | 2 | 2 | 0 | 1 | 0 | 0 | 2 | 1 | 0 | 2 | 2 | 0 | 0 | 1 |
| excavating machine | | | 6 | | 6 | | 6 | 1 | 5 | 5 | 2 | 2 | 2 | 3 | 7 | 2 | 1 | 4 | 6 | 3 | 2 | 0 |

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|--|--|--|----|----|--|----|----|----|---|----|---|---|----|----|----|----|----|---|---|---|---|
| machine | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| other mobile silviculture machine | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| crane | | | 3 | 4 | | 1 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 1 | 3 |
| mobile crane | | | 23 | 20 | | 11 | 13 | 11 | 7 | 8 | 8 | 7 | 10 | 16 | 13 | 16 | 10 | 9 | 3 | 4 | 7 |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| cargo lifting appliance | | | 1 | 1 | | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 |
| gondola | | | 0 | 0 | | 0 | 0 | 0 | 0 | 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 | | | 7 | 4 | | 1 | 2 | 1 | 1 | 0 | 2 | 1 | 2 | 2 | 0 | 3 | 1 | 0 | 0 | 0 | 0 |
| truck | | | 4 | 4 | | 4 | 2 | 1 | 3 | 2 | 5 | 6 | 2 | 4 | 8 | 5 | 3 | 2 | 1 | 5 | 3 |
| forklift | | | 0 | 1 | | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 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 |
| conveyor | | | 1 | 0 | | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| loader | | | 0 | 0 | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| cars, bus, motorcycle | | | 1 | 2 | | 2 | 0 | 2 | 1 | 0 | 2 | 2 | 0 | 3 | 2 | 6 | 1 | 1 | 8 | 1 | 2 |
| railway vehicle | | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other vehicles | | | 7 | 7 | | 11 | 3 | 7 | 4 | 10 | 5 | 6 | 5 | 7 | 2 | 4 | 9 | 5 | 3 | 6 | 6 |
| boiler | | | 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 | 1 | 0 | 0 | 0 | 0 |
| other pressure vessels | | | 0 | 0 | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| chemical facilities | | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| gas welding | | | 0 | 0 | | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |

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|---|--|--|----|----|----|----|---|---|---|---|---|---|----|---|---|---|---|---|---|---|---|---|
| equipment | | | | | | | | | | | | | | | | | | | | | | |
| arc welding equipment | | | 0 | 0 | 1 | 1 | 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 |
| kiln, caldron | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| industrial dryer | | | 0 | 0 | 0 | 0 | 0 | 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 |
| transmission | | | 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 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| other electrical equipment | | | 0 | 1 | 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 |
| human power hauling equipment | | | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| human power machine | | | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| hand tool | | | 5 | 1 | 2 | 0 | 1 | 2 | 2 | 4 | 0 | 2 | 0 | 1 | 0 | 3 | 0 | 1 | 0 | 1 | 0 | 1 |
| ladder | | | 5 | 3 | 2 | 4 | 3 | 4 | 3 | 2 | 3 | 4 | 4 | 6 | 3 | 5 | 4 | 0 | 2 | 2 | 0 | 2 |
| slinging tool | | | 6 | 4 | 5 | 1 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 3 | 2 | 3 | 4 | 4 | 4 | 3 | 0 | 0 |
| other tools | | | 17 | 10 | 3 | 4 | 7 | 5 | 4 | 2 | 2 | 2 | 3 | 8 | 5 | 3 | 3 | 3 | 2 | 6 | 0 | 6 |
| other equipment, facilities | | | 3 | 2 | 1 | 0 | 1 | 3 | 1 | 3 | 4 | 2 | 1 | 2 | 1 | 4 | 1 | 1 | 0 | 2 | 0 | 2 |
| scaffolding | | | 8 | 4 | 6 | 2 | 4 | 3 | 2 | 4 | 2 | 1 | 5 | 6 | 4 | 3 | 6 | 1 | 5 | 3 | 0 | 3 |
| timbering | | | 3 | 2 | 0 | 2 | 1 | 4 | 0 | 6 | 1 | 0 | 0 | 2 | 1 | 0 | 2 | 0 | 2 | 1 | 0 | 1 |
| stairs, landing stage | | | 1 | 3 | 4 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 0 | 1 | 1 | 0 | 2 | 4 | 0 | 4 |
| opening | | | 3 | 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 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 3 |
| working platform, boot board | | | 5 | 4 | 1 | 3 | 1 | 3 | 1 | 3 | 0 | 3 | 3 | 1 | 2 | 1 | 4 | 1 | 1 | 1 | 0 | 1 |
| passage | | | 6 | 3 | 2 | 1 | 3 | 1 | 1 | 4 | 2 | 1 | 7 | 2 | 2 | 5 | 2 | 4 | 2 | 5 | 0 | 5 |
| building, establishment | | | 13 | 12 | 11 | 11 | 9 | 1 | 6 | 4 | 2 | 6 | 12 | 6 | 1 | 7 | 4 | 7 | 4 | 6 | 0 | 6 |

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|----------------------|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|
| 19 years old or less | 3 | 5 | 4 | 2 | 4 | - | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 2 | 3 | 0 | 4 | 3 | 1 | 0 | 1 |
| 20-29 | 15 | 26 | 22 | 22 | 20 | 14 | 17 | 7 | 5 | 10 | 6 | 3 | 9 | 9 | 7 | 10 | 6 | 11 | 8 | 3 | 4 | 10 |
| 30-39 | 37 | 24 | 27 | 23 | 22 | 16 | 19 | 21 | 15 | 18 | 12 | 15 | 10 | 13 | 19 | 10 | 9 | 8 | 10 | 8 | 9 | 11 |
| 40-49 | 45 | 39 | 36 | 45 | 32 | 27 | 30 | 22 | 24 | 10 | 16 | 12 | 9 | 14 | 23 | 29 | 21 | 21 | 17 | 14 | 9 | 20 |
| 50-59 | 69 | 55 | 66 | 42 | 49 | 43 | 45 | 34 | 40 | 29 | 27 | 29 | 26 | 26 | 35 | 30 | 20 | 26 | 17 | 20 | 20 | 19 |
| 60 years old or more | 36 | 50 | 34 | 28 | 18 | 17 | 21 | 13 | 22 | 17 | 20 | 26 | 21 | 16 | 25 | 30 | 20 | 29 | 29 | 23 | 27 | 36 |
| total | 205 | 199 | 189 | 162 | 145 | 117 | 133 | 97 | 107 | 85 | 82 | 85 | 76 | 79 | 111 | 112 | 76 | 99 | 84 | 69 | 69 | 97 |

Workers' number of workplace of industrial accidents in port/seaside construction work 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 | 69 | 61 | 68 | 51 | 51 | 42 | 51 | 30 | 38 | 34 | 29 | 27 | 19 | 26 | 32 | 37 | 19 | 20 | 27 | 19 | 24 | 28 |
| 10-29 | 84 | 78 | 77 | 60 | 53 | 47 | 50 | 49 | 42 | 30 | 33 | 31 | 24 | 25 | 41 | 42 | 39 | 39 | 39 | 28 | 28 | 46 |
| 30-49 | 22 | 27 | 20 | 23 | 14 | 15 | 17 | 6 | 16 | 11 | 10 | 14 | 19 | 19 | 19 | 17 | 10 | 20 | 11 | 13 | 8 | 13 |
| 50-99 | 20 | 18 | 12 | 18 | 10 | 6 | 10 | 5 | 2 | 5 | 7 | 11 | 10 | 4 | 17 | 14 | 6 | 13 | 5 | 6 | 5 | 8 |
| 100-299 | 8 | 13 | 10 | 7 | 14 | 6 | 5 | 5 | 7 | 3 | 1 | 1 | 4 | 5 | 2 | 2 | 2 | 7 | 2 | 3 | 4 | 2 |
| 300 workers or more | 2 | 2 | 2 | 3 | 3 | 1 | 0 | 2 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| total | 205 | 199 | 189 | 162 | 145 | 117 | 133 | 97 | 107 | 85 | 82 | 85 | 76 | 79 | 111 | 112 | 76 | 99 | 84 | 69 | 69 | 97 |

Month of industrial accidents in port/seaside construction work 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 | 16 | 16 | 21 | 22 | 15 | 11 | 5 | 8 | 7 | 8 | 10 | 10 | 7 | 2 | 6 | 7 | 9 | 9 | 9 | 4 | 8 | 11 |
| February | 21 | 14 | 16 | 9 | 15 | 12 | 13 | 16 | 10 | 8 | 12 | 6 | 4 | 9 | 11 | 10 | 5 | 6 | 8 | 4 | 6 | 9 |
| March | 24 | 17 | 16 | 10 | 11 | 8 | 8 | 10 | 9 | 9 | 7 | 8 | 11 | 9 | 4 | 10 | 4 | 10 | 12 | 7 | 8 | 9 |
| April | 16 | 14 | 9 | 9 | 8 | 5 | 9 | 1 | 3 | 8 | 2 | 4 | 4 | 8 | 5 | 12 | 8 | 8 | 7 | 5 | 6 | 3 |
| May | 11 | 12 | 14 | 9 | 10 | 7 | 8 | 3 | 12 | 6 | 1 | 5 | 7 | 6 | 8 | 8 | 8 | 11 | 9 | 7 | 5 | 3 |
| June | 18 | 21 | 10 | 18 | 12 | 13 | 10 | 3 | 7 | 3 | 3 | 8 | 7 | 9 | 7 | 6 | 4 | 4 | 4 | 7 | 1 | 4 |
| July | 10 | 13 | 14 | 9 | 20 | 10 | 11 | 12 | 12 | 7 | 5 | 6 | 6 | 6 | 5 | 12 | 1 | 3 | 7 | 3 | 8 | 9 |
| August | 15 | 17 | 12 | 27 | 14 | 6 | 24 | 9 | 7 | 6 | 9 | 6 | 5 | 6 | 19 | 9 | 5 | 9 | 7 | 14 | 3 | 9 |
| September | 12 | 13 | 18 | 11 | 15 | 11 | 16 | 10 | 8 | 9 | 10 | 11 | 7 | 6 | 9 | 9 | 8 | 10 | 6 | 0 | 8 | 8 |
| October | 29 | 21 | 16 | 18 | 7 | 15 | 10 | 6 | 9 | 10 | 9 | 8 | 1 | 7 | 11 | 12 | 8 | 7 | 4 | 3 | 4 | 15 |
| November | 20 | 17 | 20 | 8 | 13 | 13 | 15 | 6 | 13 | 6 | 10 | 9 | 8 | 5 | 11 | 9 | 9 | 13 | 5 | 8 | 5 | 10 |
| December | 13 | 24 | 23 | 12 | 5 | 6 | 4 | 13 | 10 | 5 | 4 | 4 | 9 | 6 | 15 | 8 | 7 | 9 | 6 | 7 | 7 | 7 |

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|-------|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|
| total | 205 | 199 | 189 | 162 | 145 | 117 | 133 | 97 | 107 | 85 | 82 | 85 | 76 | 79 | 111 | 112 | 76 | 99 | 84 | 69 | 69 | 97 |
|-------|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|

Prefecture of industrial accidents in port/seaside construction work 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 | 17 | 23 | 18 | | 15 | | 22 | 15 | 15 | 5 | 10 | 12 | 7 | 5 | 8 | 9 | 5 | 3 | 4 | 12 | 9 | 12 |
| Aomori | 8 | 12 | 5 | | 8 | | 6 | 4 | 6 | 2 | 6 | 3 | 6 | 5 | 6 | 5 | 1 | 9 | 2 | 3 | 3 | 8 |
| Iwate | 4 | 7 | 3 | | 3 | | 2 | 0 | 3 | 0 | 2 | 1 | 4 | 3 | 17 | 10 | 11 | 6 | 9 | 4 | 2 | 2 |
| Miyagi | 0 | 4 | 0 | | 0 | | 0 | 1 | 2 | 1 | 1 | 1 | 7 | 6 | 5 | 10 | 10 | 14 | 13 | 11 | 7 | 7 |
| Akita | 2 | 1 | 0 | | 1 | | 0 | 3 | 2 | 2 | 1 | 2 | 0 | 1 | 2 | 2 | 0 | 2 | 2 | 0 | 2 | 0 |
| Yamagata | 2 | 2 | 1 | | 1 | | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 2 | 2 | 0 | 0 | 3 | 1 | 0 | 0 |
| Fukushima | 4 | 0 | 1 | | 3 | | 2 | 0 | 1 | 2 | 1 | 2 | 3 | 3 | 8 | 9 | 7 | 5 | 5 | 1 | 2 | 7 |
| Ibaraki | 3 | 1 | 0 | | 2 | | 0 | 2 | 1 | 2 | 2 | 1 | 2 | 3 | 1 | 4 | 1 | 3 | 5 | 1 | 3 | 3 |
| Tochigi | 0 | 0 | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gunma | 1 | 0 | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Saitama | 0 | 0 | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chiba | 2 | 1 | 5 | | 2 | | 6 | 5 | 2 | 1 | 2 | 1 | 2 | 1 | 0 | 0 | 1 | 3 | 0 | 1 | 1 | 2 |
| Tokyo | 11 | 11 | 11 | | 9 | | 6 | 3 | 6 | 4 | 7 | 3 | 6 | 3 | 5 | 10 | 4 | 4 | 3 | 2 | 7 | 8 |
| Kanagawa | 5 | 7 | 6 | | 10 | | 0 | 4 | 4 | 5 | 4 | 1 | 3 | 1 | 3 | 0 | 2 | 2 | 3 | 1 | 1 | 3 |
| Niigata | 5 | 4 | 9 | | 9 | | 8 | 1 | 4 | 1 | 1 | 3 | 1 | 2 | 3 | 1 | 0 | 2 | 1 | 2 | 0 | 2 |
| Toyama | 5 | 4 | 1 | | 3 | | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 0 |
| Ishikawa | 2 | 2 | 3 | | 1 | | 1 | 1 | 4 | 3 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 1 |
| Fukui | 1 | 1 | 2 | | 5 | | 1 | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| Yamanashi | 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 | 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 | 1 | 0 | 0 | 0 | 0 | 0 |
| Shizuoka | 4 | 6 | 5 | | 4 | | 0 | 2 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 4 | 1 | 1 | 2 | 1 | 4 | 2 |
| Aichi | 3 | 3 | 6 | | 1 | | 3 | 0 | 6 | 1 | 0 | 5 | 1 | 1 | 3 | 1 | 0 | 1 | 0 | 0 | 1 | 2 |
| Mie | 6 | 8 | 7 | | 4 | | 0 | 1 | 2 | 4 | 2 | 2 | 3 | 0 | 1 | 1 | 3 | 6 | 2 | 3 | 3 | 0 |
| Shiga | 0 | 0 | 0 | | 0 | | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kyoto | 2 | 0 | 3 | | 0 | | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| Osaka | 2 | 0 | 1 | | 1 | | 1 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 1 | 1 |
| Hyogo | 6 | 4 | 8 | | 5 | | 4 | 5 | 2 | 5 | 3 | 4 | 2 | 4 | 1 | 4 | 1 | 3 | 2 | 0 | 2 | 5 |
| Nara | 0 | 0 | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wakayama | 11 | 7 | 7 | | 1 | | 4 | 3 | 0 | 1 | 2 | 1 | 0 | 3 | 3 | 0 | 0 | 1 | 2 | 0 | 0 | 2 |
| Tottori | 1 | 0 | 1 | | 1 | | 2 | 0 | 1 | 4 | 1 | 1 | 2 | 0 | 0 | 3 | 2 | 1 | 0 | 1 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------|-----|-----|-----|--|-----|--|-----|----|-----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|
| Shimane | 1 | 1 | 5 | | 4 | | 1 | 1 | 3 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 0 |
| Okayama | 2 | 0 | 1 | | 2 | | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| Hiroshima | 10 | 8 | 3 | | 3 | | 2 | 0 | 1 | 1 | 3 | 1 | 1 | 1 | 3 | 3 | 1 | 1 | 1 | 2 | 0 | 2 |
| Yamaguchi | 6 | 12 | 6 | | 4 | | 8 | 2 | 4 | 5 | 1 | 2 | 1 | 3 | 1 | 3 | 1 | 2 | 4 | 2 | 1 | 1 |
| Tokushima | 2 | 2 | 2 | | 2 | | 2 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 2 |
| Kagawa | 2 | 0 | 2 | | 0 | | 2 | 0 | 3 | 0 | 2 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 1 |
| Ehime | 8 | 6 | 9 | | 1 | | 5 | 3 | 3 | 4 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 1 | 0 | 5 | 2 | 0 |
| Kochi | 9 | 5 | 8 | | 7 | | 6 | 4 | 6 | 2 | 2 | 0 | 2 | 1 | 2 | 2 | 0 | 1 | 1 | 1 | 0 | 4 |
| Fukuoka | 2 | 8 | 3 | | 11 | | 6 | 4 | 2 | 1 | 2 | 2 | 2 | 4 | 2 | 1 | 1 | 1 | 3 | 4 | 1 | 1 |
| Saga | 1 | 0 | 0 | | 1 | | 1 | 0 | 1 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| Nagasaki | 20 | 21 | 18 | | 9 | | 4 | 7 | 6 | 5 | 4 | 5 | 3 | 2 | 5 | 4 | 3 | 3 | 1 | 0 | 4 | 4 |
| Kumamoto | 8 | 3 | 8 | | 2 | | 3 | 5 | 0 | 2 | 2 | 3 | 1 | 1 | 3 | 3 | 2 | 2 | 1 | 1 | 0 | 1 |
| Oita | 4 | 4 | 3 | | 0 | | 4 | 4 | 2 | 3 | 2 | 3 | 1 | 3 | 3 | 2 | 1 | 1 | 2 | 0 | 2 | 0 |
| Miyazaki | 2 | 2 | 2 | | 0 | | 1 | 1 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| Kagoshima | 16 | 17 | 11 | | 9 | | 17 | 9 | 9 | 6 | 4 | 10 | 3 | 6 | 10 | 8 | 3 | 9 | 5 | 5 | 4 | 5 |
| Okinawa | 5 | 2 | 5 | | 0 | | 1 | 3 | 0 | 3 | 3 | 2 | 1 | 1 | 2 | 2 | 6 | 4 | 3 | 1 | 2 | 4 |
| total | 205 | 199 | 189 | | 145 | | 133 | 97 | 107 | 85 | 82 | 85 | 76 | 79 | 111 | 112 | 76 | 99 | 84 | 69 | 69 | 97 |

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 port/seaside construction work in Japan in 1999-2020

port/seaside construction work industry Code No.030111

Type of fatal accidents in port/seaside construction work 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 | 0 | 2 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 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 | 1 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| falling object | | | | | | | | | | | | | | | | | | | | | | |
| collapse | 1 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| crashed by | 0 | 1 | 4 | 0 | 3 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 1 | 0 | |
| caught in/between | 0 | 4 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | |
| cut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| injury to the sole of the foot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| drown | 1 | 3 | 1 | 1 | 2 | 3 | 1 | 1 | 0 | 1 | 1 | 1 | 3 | 5 | 2 | 0 | 1 | 1 | 1 | 2 | 0 | 1 |
| contact to high/low-temperature | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| contact to harmful substance | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 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 | |
| explosion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| burst | 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 | 0 | 0 | 0 | |
| traffic accident (public road) | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | |
| traffic accident (others) | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 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 | |
| others | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | |
| unclassifiable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | |
| total | 5 | 16 | 10 | 5 | 8 | 7 | 5 | 2 | 5 | 7 | 3 | 4 | 9 | 9 | 7 | 9 | 5 | 4 | 3 | 3 | 2 | 3 |

Causal agents (middle) of fatal accidents in port/seaside construction work 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 | 0 | 0 | 0 | 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 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| construction machine | 0 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 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 | 0 | 0 | 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 | 4 | 2 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 0 |
| conveying machine | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| vehicle | 0 | 0 | 0 | 3 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 2 | 1 | 1 | 0 | 1 | 1 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 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 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| other equipments, facilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| temporary buildings, establishments | 1 | 1 | 3 | 0 | 1 | 0 | 2 | 0 | 1 | 1 | 0 | 1 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| hazards, harmful substances | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| materials | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| load | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| natural environment | 2 | 5 | 2 | 1 | 1 | 5 | 1 | 1 | 0 | 2 | 1 | 1 | 5 | 4 | 3 | 1 | 1 | 0 | 1 | 2 | 0 | 1 |
| 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 | 1 | 0 | 1 | 1 | 0 | 1 | 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 | 5 | 16 | 10 | 5 | 8 | 7 | 5 | 2 | 5 | 7 | 3 | 4 | 9 | 9 | 7 | 9 | 5 | 4 | 3 | 3 | 2 | 3 |

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| load | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 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 | 1 |
| 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 | 1 | 3 | 1 | 0 | 1 | 3 | 0 | 1 | 0 | 1 | 1 | 0 | 5 | 4 | 2 | 0 | 0 | 0 | 1 | 2 | 0 | 1 |
| abnormal environment | 1 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| high/cold temperature environment | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other environments | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 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 | 1 | 0 | 1 | 1 | 0 | 1 | 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 | 5 | 16 | 10 | 5 | 8 | 7 | 5 | 2 | 5 | 7 | 3 | 4 | 9 | 9 | 7 | 9 | 5 | 4 | 3 | 3 | 2 | 3 |

Workers age of fatal accidents in port/seaside construction work 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20-29 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30-39 | 1 | 2 | 4 | 1 | 1 | 1 | 0 | 1 | 2 | 3 | 0 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 |
| 40-49 | 2 | 4 | 1 | 1 | 1 | 4 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 2 | 2 | 2 | 0 | 0 | 1 | 0 | 0 |
| 50-59 | 1 | 3 | 3 | 1 | 4 | 0 | 2 | 1 | 2 | 3 | 1 | 2 | 6 | 1 | 3 | 2 | 2 | 0 | 0 | 2 | 0 | 0 |
| 60 years old or more | 1 | 6 | 2 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 2 | 0 | 3 | 2 | 0 | 1 | 2 |
| total | 5 | 16 | 10 | 5 | 8 | 7 | 5 | 2 | 5 | 7 | 3 | 4 | 9 | 9 | 7 | 9 | 5 | 4 | 3 | 3 | 2 | 3 |

Workers' number of workplace of fatal accidents in port/seaside construction work 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 | 1 | 4 | 4 | 2 | 0 | 3 | 1 | 0 | 2 | 2 | 3 | 1 | 1 | 5 | 3 | 1 | 3 | 0 | 0 | 1 | 2 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10-29 | 2 | 5 | 2 | 2 | 4 | 2 | 2 | 1 | 1 | 5 | 0 | 2 | 2 | 1 | 0 | 6 | 2 | 1 | 1 | 0 | 0 | 1 |
| 30-49 | 2 | 2 | 1 | 0 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 4 | 0 | 0 | 1 | 2 | 0 | 0 | 1 |
| 50-99 | 0 | 2 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 |
| 100-299 | 0 | 3 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 300 workers or more | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| total | 5 | 16 | 10 | 5 | 8 | 7 | 5 | 2 | 5 | 7 | 3 | 4 | 9 | 9 | 7 | 9 | 5 | 4 | 3 | 3 | 2 | 3 |

Month of fatal accidents in port/seaside construction work 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 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| February | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 |
| March | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 3 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| April | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| May | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| June | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| July | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 |
| August | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
| September | 2 | 1 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| October | 1 | 1 | 0 | 0 | 0 | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| November | 0 | 2 | 0 | 0 | 1 | 1 | 2 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| December | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| total | 5 | 16 | 10 | 5 | 8 | 7 | 5 | 2 | 5 | 7 | 3 | 4 | 9 | 9 | 7 | 9 | 5 | 4 | 3 | 3 | 2 | 3 |

Prefecture of fatal accidents in port/seaside construction work 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 | 1 | 3 | 1 | 1 | 1 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Aomori | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Iwate | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 |
| Miyagi | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 2 | 0 |
| Akita | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fukushima | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 |
| Ibaraki | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Oita | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 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 |
| Kagoshima | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Okinawa | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| total | 5 | 16 | 10 | 5 | 8 | 7 | 5 | 2 | 5 | 7 | 3 | 4 | 9 | 9 | 7 | 9 | 5 | 4 | 3 | 3 | 2 |

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

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