

Fatal and non-fatal accidents in water supply/sewage construction work in Japan in 1999-2021

water supply/sewage construction work industry Code No.030110

Type of accidents in water supply/sewage construction work in 1999-2021

| 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 | 2021 | total | Type of accidents |
|------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------------------------------------|
| fall from height | 216 | 170 | 145 | 128 | 137 | 120 | 101 | 110 | 91 | 78 | 65 | 65 | 62 | 61 | 52 | 57 | 44 | 55 | 44 | 48 | 50 | 35 | 42 | 1,976 | fall from height |
| falling to same level | 106 | 97 | 81 | 64 | 54 | 60 | 56 | 55 | 44 | 62 | 40 | 45 | 33 | 42 | 28 | 29 | 32 | 26 | 31 | 35 | 34 | 15 | 32 | 1,101 | falling to same level |
| crash | 65 | 51 | 35 | 30 | 21 | 30 | 26 | 35 | 22 | 16 | 17 | 21 | 17 | 15 | 16 | 15 | 23 | 14 | 8 | 14 | 11 | 15 | 11 | 528 | crash |
| struck by flying or falling object | 215 | 201 | 169 | 141 | 142 | 125 | 105 | 94 | 73 | 89 | 66 | 68 | 68 | 68 | 51 | 41 | 42 | 34 | 38 | 28 | 22 | 23 | 33 | 1,936 | struck by flying or falling object |
| collapse | 144 | 119 | 114 | 96 | 97 | 78 | 73 | 68 | 57 | 70 | 46 | 39 | 37 | 46 | 46 | 42 | 50 | 30 | 25 | 36 | 24 | 26 | 27 | 1,390 | collapse |
| crashed by | 143 | 125 | 100 | 103 | 89 | 92 | 66 | 68 | 71 | 60 | 52 | 40 | 46 | 48 | 31 | 36 | 30 | 32 | 33 | 23 | 30 | 36 | 19 | 1,373 | crashed by |
| caught in/between | 348 | 282 | 254 | 256 | 218 | 204 | 171 | 155 | 136 | 107 | 94 | 108 | 78 | 73 | 95 | 80 | 72 | 69 | 67 | 49 | 58 | 59 | 61 | 3,094 | caught in/between |
| cut | 51 | 45 | 49 | 55 | 33 | 38 | 31 | 24 | 30 | 32 | 27 | 21 | 19 | 28 | 29 | 18 | 17 | 19 | 20 | 17 | 12 | 11 | 17 | 643 | cut |
| injury to the sole of the foot | 3 | 4 | 2 | 2 | | 2 | 2 | 1 | | 1 | 1 | 2 | | | | 2 | | 1 | | | | 1 | | 24 | injury to the sole of the foot |
| drown | 1 | | 2 | | | | | | | 6 | 1 | | 4 | 2 | | | | 1 | | | | 1 | | 18 | drown |
| contact to high/low-temperature | 14 | 10 | 6 | 9 | 7 | 7 | 8 | 6 | 7 | 3 | 1 | 10 | 3 | 10 | 4 | 4 | 5 | 3 | 2 | 6 | 7 | 8 | 6 | 146 | contact to high/low-temperature |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|-----|---|-----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|---|
| engine | | | | | 1 | | | | 1 | 5 | | | | 1 | 1 | 1 | | | | | | | | | 10 | engine | |
| power transmission mechanism | | | | 1 | | 1 | | | | 1 | | 2 | | | | | | | | | | | | | | 6 | power transmission mechanism |
| circular sawing machine | | | | 11 | | 5 | | 6 | 5 | 7 | 10 | 4 | 3 | 2 | 8 | 2 | 1 | 3 | 3 | 1 | 1 | | | | 1 | 73 | circular sawing machine |
| band sawing machine | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 2 | band sawing machine |
| wood planer machine | | | | 1 | | | | | | | 1 | | | | | | | | | | | | | | | 2 | wood planer machine |
| hollow chisel mortiser, wood borer | | | | | | | | 1 | | | | | 1 | | | | | | | | | | | | | 2 | hollow chisel mortiser, wood borer |
| chamfering machine, router, woodworking milling machine | | | | | | | | | | | | | | | | | | | | | | | | | | | chamfering machine, router, woodworking milling machine |
| chain saw | | | | | 2 | | | | | | 2 | | | | 3 | | | 1 | 2 | | 1 | | | | | 11 | chain saw |
| other woodworking machines | | | | 5 | | | | 1 | 1 | | 4 | 1 | | 2 | | 1 | 1 | | 1 | | | | | | | 17 | other woodworking machines |
| leveling, transporting or loading machine | | | | 29 | | 23 | | 12 | 20 | 15 | 9 | 13 | 8 | 9 | 11 | 5 | 7 | 10 | 11 | 9 | 6 | 5 | 7 | 5 | | 214 | leveling, transporting or loading machine |
| excavating machine | | | | 122 | | 107 | | 83 | 81 | 82 | 66 | 56 | 58 | 54 | 53 | 55 | 53 | 34 | 39 | 35 | 25 | 33 | 30 | 30 | | 1,096 | excavating machine |
| foundation work machine | | | | 2 | | 12 | | 1 | 4 | 1 | | 3 | 2 | 2 | 2 | 2 | 1 | 1 | | | 1 | | 1 | 1 | | 36 | foundation work machine |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|----|--|----|--|----|----|----|----|----|----|----|----|---|----|----|---|----|----|----|----|----|-----|--|
| machine | | | | | | | | | | | | | | | | | | | | | | | | | machine |
| food manufacturing machine | | | | | | | | | | | | | | | | | | | | | | | | | food manufacturing machine |
| printing machine | | | | | | | | | | | | | | | | | | | | | | | | | printing machine |
| industrial robot | | | | | | | | | | | | | | | | | | | | | | | | | industrial robot |
| other general power machines | | | 25 | | 15 | | 17 | 11 | 10 | 10 | 11 | 11 | 10 | 9 | 7 | 4 | 4 | 8 | 7 | 4 | 7 | 10 | 7 | 187 | other general power machines |
| felling machine | | | | | | | | | | | | | | | | | | | | | | | | | felling machine |
| mobile logging machine | | | | | | | | | | | | | | | | | | | | | | | | | mobile logging machine |
| skyline yarding machine | | | | | | | | | | | | | | | | | | | | | | | | | skyline yarding machine |
| other mobile silviculture machine | | | | | | | | | | | | | | | | | | | | | | | | | other mobile silviculture machine |
| crane | | | 3 | | 7 | | 6 | 4 | 4 | 1 | 1 | 2 | 3 | 3 | 4 | 1 | 3 | 3 | 2 | 1 | 2 | 3 | 1 | 54 | crane |
| mobile crane | | | 28 | | 28 | | 26 | 22 | 15 | 15 | 22 | 19 | 19 | 12 | 9 | 13 | 22 | 9 | 16 | 12 | 12 | 10 | 11 | 320 | mobile crane |
| derrick crane | | | | | | | | | | | | | | | | | | | | | | | | | derrick crane |
| elevator, lift | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 | elevator, lift |
| cargo lifting appliance | | | | | | | | | | | | | | | | | | | | | | | | | cargo lifting appliance |
| gondola | | | | | | | | | | | | | | | | | | | | | | | | | gondola |
| lumberyard equipment, logging cableway | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 | lumberyard equipment, logging cableway |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|--|--|----|--|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-------------------------------------|------------------------|
| simple skyline yarding equipment | | | | | | | | | | | | | | | | | | | | | | | | | simple skyline yarding equipment | |
| other powered crane | | | 2 | | 1 | | 1 | | 2 | 1 | | | | | 2 | 1 | 1 | | 1 | | 1 | | | | 13 | other powered crane |
| truck | | | 87 | | 85 | | 62 | 62 | 66 | 52 | 34 | 40 | 48 | 39 | 35 | 37 | 34 | 32 | 30 | 30 | 35 | 28 | 29 | 865 | truck | |
| forklift | | | | | 1 | | 1 | | | | | 1 | | | | | | | | | | 1 | | 4 | forklift | |
| railway equipment | | | 1 | | 1 | | 1 | 1 | | | 1 | | | | | | | | | | | 2 | | 7 | railway equipment | |
| conveyor | | | 1 | | 2 | | | 1 | | | | | | | | | 1 | | | | 1 | | | 6 | conveyor | |
| loader | | | 3 | | 1 | | 2 | | 1 | | 1 | | | | 1 | | | | | | | | | 9 | loader | |
| straddle carrier | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 | straddle carrier | |
| rough terrain hauler | | | 1 | | 2 | | | 2 | | 3 | 1 | | | | 1 | | | | | 1 | | 2 | | 13 | rough terrain hauler | |
| other powered conveying machines | | | 4 | | 1 | | 1 | 1 | 1 | 1 | | 1 | | 2 | 1 | | | 2 | | 3 | 2 | 1 | | 21 | other powered conveying machines | |
| cars, bus, motorcycle | | | 25 | | 30 | | 13 | 17 | 18 | 17 | 6 | 12 | 1 | 5 | 14 | 8 | 7 | 8 | 6 | 13 | 11 | 9 | 8 | 228 | cars, bus, motorcycle | |
| railway vehicle | | | | | | | | | | | | | | | | | | | | | | | | | railway vehicle | |
| other vehicles | | | | | | | 1 | | | | | | 1 | | | | | | | | | | | 2 | other vehicles | |
| boiler | | | | | | | | 1 | | | | | | 1 | | | | | | | | 1 | | 3 | boiler | |
| pressure vessel | | | | | | | | | | | | | | | | | | | | | | | | | pressure vessel | |
| other pressure vessels | | | | | | | | 1 | | | | 1 | | | 1 | | 1 | | 2 | | | | | 6 | other pressure vessels | |
| chemical facilities | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 | chemical facilities | |
| gas welding | | | 1 | | 2 | | | | | | | | | | | | | | | | | | 1 | 4 | gas welding | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|----|--|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|---|
| facilities | | | 12 | | 9 | | 9 | 2 | 12 | 5 | 5 | 5 | 9 | 7 | 5 | 5 | 9 | 6 | 8 | 4 | 2 | 5 | 7 | 126 | facilities |
| scaffolding | | | 9 | | 5 | | 7 | 4 | 4 | 1 | 1 | 3 | 2 | 1 | 3 | 4 | 2 | | 4 | 2 | 2 | 4 | 2 | 60 | scaffolding |
| timbering | | | 38 | | 18 | | 10 | 7 | 15 | 14 | 17 | 5 | 6 | 4 | 7 | 4 | 9 | 2 | 2 | 3 | | 2 | 3 | 166 | timbering |
| stairs, landing stage | | | 7 | | 10 | | 6 | 6 | 2 | 5 | 5 | 1 | 2 | 8 | 5 | 1 | 2 | 5 | 2 | 6 | 4 | 4 | 3 | 84 | stairs, landing stage |
| opening | | | 9 | | 14 | | 9 | 10 | 10 | 9 | 8 | 5 | 2 | 6 | 7 | 5 | 4 | 8 | 4 | 8 | 6 | 3 | 4 | 131 | opening |
| roof, beam, haze, crossbeam, principal rafter | | | 2 | | 5 | | 2 | 2 | 1 | 1 | 1 | 1 | 4 | | 1 | | | 2 | 3 | 2 | 1 | 1 | 2 | 31 | roof, beam, haze, crossbeam, principal rafter |
| working platform, boot board | | | 18 | | 17 | | 7 | 15 | 9 | 17 | 8 | 7 | 5 | 7 | 6 | 8 | 6 | 4 | 4 | 4 | 2 | 6 | 4 | 154 | working platform, boot board |
| passage | | | 20 | | 17 | | 21 | 25 | 13 | 17 | 14 | 19 | 8 | 14 | 10 | 7 | 12 | 11 | 18 | 17 | 11 | 8 | 17 | 279 | passage |
| building, establishment | | | 48 | | 33 | | 34 | 38 | 26 | 29 | 19 | 21 | 13 | 22 | 16 | 17 | 12 | 12 | 10 | 17 | 14 | 10 | 14 | 405 | building, establishment |
| other temporary buildings, establishments | | | 23 | | 28 | | 20 | 19 | 11 | 10 | 9 | 14 | 10 | 8 | 5 | 7 | 12 | 8 | 9 | 10 | 4 | 6 | 9 | 222 | other temporary buildings, establishments |
| explosive substance | | | | | | | | | | | | | | | | | | | | | | | | | explosive substance |
| inflammable substance | | | 3 | | 1 | | 1 | | 1 | 1 | | | | 1 | | | 2 | | | | | 1 | | 11 | inflammable substance |
| inflammable gas | | | 1 | | | | | 4 | 1 | 3 | | | 1 | 2 | | | | | 2 | | 1 | | | 15 | inflammable gas |
| harmful substance | | | 5 | | | | | 2 | 1 | | 3 | 1 | 1 | | 1 | 2 | 1 | | 2 | 5 | | 1 | | 25 | harmful substance |
| radiation | | | | | | | | | | | | | | | | | | | | | | | | | radiation |
| other hazards, harmful substances | | | 3 | | | | 3 | | | 1 | 1 | | 1 | 2 | 2 | | | 1 | | | 2 | 1 | 1 | 18 | other hazards, harmful substances |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|--|-------|--|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----------------------------------|
| metal material | | | 100 | | 73 | | 66 | 52 | 34 | 37 | 29 | 32 | 27 | 37 | 23 | 31 | 29 | 21 | 17 | 20 | 17 | 14 | 15 | 674 | metal material |
| lumber, bamboo | | | 6 | | 7 | | 6 | 1 | 4 | 4 | 5 | 3 | 3 | 3 | 3 | 1 | 2 | 6 | 4 | 1 | 1 | 4 | | 64 | lumber, bamboo |
| stone, sand, substance | | | 22 | | 21 | | 18 | 10 | 11 | 12 | 10 | 12 | 9 | 6 | 9 | 7 | 4 | 6 | 5 | 6 | 4 | 4 | 2 | 178 | stone, sand, substance |
| other materials | | | 39 | | 14 | | 27 | 19 | 20 | 14 | 15 | 16 | 7 | 11 | 10 | 10 | 8 | 9 | 8 | 5 | 7 | 13 | 9 | 261 | other materials |
| load | | | 23 | | 15 | | 10 | 14 | 10 | 11 | 14 | 10 | 8 | 6 | 6 | 8 | 7 | 2 | 5 | 7 | 5 | 1 | 6 | 168 | load |
| machine/equipment as load | | | 9 | | 7 | | 4 | 6 | 2 | 7 | 5 | 1 | 2 | 4 | 4 | 3 | 2 | 3 | | 1 | | | 2 | 62 | machine/equipment as load |
| natural ground, rock | | | 103 | | 83 | | 55 | 61 | 55 | 56 | 36 | 38 | 33 | 37 | 34 | 31 | 31 | 30 | 19 | 25 | 24 | 22 | 24 | 797 | natural ground, rock |
| standing tree | | | | | | | 3 | 2 | 2 | 2 | 4 | 2 | 1 | 1 | | 1 | 3 | | | 2 | 1 | 1 | | 25 | standing tree |
| water | | | 4 | | 1 | | | 1 | | 5 | | | 8 | | | 1 | | | | | | 1 | | 21 | water |
| abnormal environment | | | 2 | | | | | | | 2 | 1 | 1 | | | | | | 5 | | | | | | 11 | abnormal environment |
| high/cold temperature environment | | | 3 | | | | 3 | 3 | 3 | 2 | 1 | 8 | 2 | 4 | 4 | 4 | 1 | 3 | 2 | 5 | 3 | 7 | 4 | 62 | high/cold temperature environment |
| other environments | | | 10 | | 3 | | 2 | 7 | 6 | 5 | 2 | 6 | 5 | 2 | 3 | 3 | 1 | | 2 | 4 | 1 | 1 | 2 | 65 | other environments |
| other causal agent | | | 1 | | 11 | | | 1 | 4 | 1 | 2 | 2 | 1 | 1 | 6 | 2 | | 2 | 3 | 3 | | 2 | 8 | 50 | other causal agent |
| no causal agent | | | 15 | | 13 | | 6 | 14 | 4 | 10 | 10 | 7 | 2 | 6 | 11 | 3 | 6 | 4 | 5 | 10 | 6 | 5 | 11 | 148 | no causal agent |
| unclassifiable | | | | | | | | 2 | | 3 | 1 | 1 | | | | | 2 | | 1 | | 1 | | | 11 | unclassifiable |
| total | | | 1,051 | | 880 | | 691 | 669 | 583 | 586 | 453 | 457 | 397 | 428 | 403 | 364 | 343 | 316 | 298 | 299 | 273 | 268 | 287 | 9,046 | total |

Workers age of fatal and non-fatal accidents in water supply/sewage construction work in 1999-2021

| Age | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | total | Age |
|----------------------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|----------------------|
| 19 years old or less | 40 | 39 | 20 | 19 | 13 | 15 | 12 | 7 | 5 | 2 | 7 | 5 | 5 | 9 | 13 | 7 | 7 | 6 | 5 | 4 | 5 | 1 | 9 | 255 | 19 years old or less |
| 20-29 | 279 | 237 | 217 | 184 | 149 | 133 | 97 | 98 | 70 | 78 | 52 | 51 | 45 | 45 | 45 | 37 | 39 | 31 | 34 | 34 | 22 | 37 | 34 | 2,048 | 20-29 |
| 30-39 | 194 | 192 | 162 | 146 | 151 | 159 | 126 | 112 | 120 | 108 | 88 | 95 | 99 | 69 | 58 | 68 | 46 | 50 | 47 | 38 | 33 | 44 | 40 | 2,245 | 30-39 |
| 40-49 | 227 | 185 | 178 | 154 | 168 | 140 | 107 | 122 | 100 | 94 | 73 | 81 | 68 | 84 | 88 | 77 | 79 | 69 | 69 | 74 | 60 | 58 | 61 | 2,416 | 40-49 |
| 50-59 | 401 | 310 | 279 | 279 | 223 | 220 | 226 | 171 | 180 | 160 | 122 | 110 | 91 | 95 | 91 | 65 | 71 | 77 | 55 | 66 | 57 | 50 | 75 | 3,474 | 50-59 |
| 60 years old or more | 291 | 253 | 195 | 193 | 176 | 151 | 123 | 159 | 108 | 144 | 111 | 115 | 89 | 126 | 108 | 110 | 101 | 83 | 88 | 83 | 96 | 78 | 68 | 3,049 | 60 years old or more |
| total | 1,432 | 1,216 | 1,051 | 975 | 880 | 818 | 691 | 669 | 583 | 586 | 453 | 457 | 397 | 428 | 403 | 364 | 343 | 316 | 298 | 299 | 273 | 268 | 287 | 13,487 | total |

Workers' number of workplace of fatal and non-fatal accidents in water supply/sewage construction work in 1999-2021

| Workers scale | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | total | Workers scale |
|---------------------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|---------------------|
| 9 workers or less | 697 | 641 | 537 | 514 | 474 | 466 | 391 | 385 | 356 | 351 | 261 | 264 | 233 | 259 | 234 | 218 | 204 | 179 | 166 | 157 | 133 | 143 | 157 | 7,420 | 9 workers or less |
| 10-29 | 580 | 439 | 410 | 366 | 329 | 271 | 249 | 230 | 183 | 185 | 155 | 150 | 129 | 133 | 130 | 113 | 106 | 114 | 102 | 109 | 107 | 91 | 95 | 4,776 | 10-29 |
| 30-49 | 91 | 94 | 62 | 61 | 45 | 64 | 31 | 33 | 34 | 39 | 26 | 22 | 23 | 29 | 30 | 24 | 20 | 16 | 19 | 24 | 24 | 18 | 23 | 852 | 30-49 |
| 50-99 | 41 | 29 | 29 | 24 | 21 | 12 | 13 | 16 | 4 | 8 | 7 | 14 | 10 | 3 | 2 | 8 | 10 | 6 | 10 | 8 | 6 | 9 | 10 | 300 | 50-99 |
| 100-299 | 22 | 12 | 12 | 10 | 8 | 5 | 6 | 4 | 3 | 3 | 4 | 5 | 1 | 4 | 7 | 1 | 2 | 1 | 1 | 1 | 3 | 5 | 1 | 121 | 100-299 |
| 300 workers or more | 1 | 1 | 1 | | 3 | | 1 | 1 | 3 | | | 2 | 1 | | | | 1 | | | | | 2 | 1 | 18 | 300 workers or more |
| total | 1,432 | 1,216 | 1,051 | 975 | 880 | 818 | 691 | 669 | 583 | 586 | 453 | 457 | 397 | 428 | 403 | 364 | 343 | 316 | 298 | 299 | 273 | 268 | 287 | 13,487 | total |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|----|----|----|--|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----------|
| Iwate | 17 | 26 | 16 | | 16 | | 11 | 9 | 11 | 7 | 4 | 7 | 9 | 4 | 7 | 3 | 5 | 7 | 3 | 5 | 13 | 6 | 6 | 192 | Iwate |
| Miyagi | 31 | 17 | 16 | | 18 | | 5 | 11 | 10 | 10 | 8 | 8 | 10 | 17 | 13 | 11 | 9 | 12 | 3 | 5 | 8 | 8 | 11 | 241 | Miyagi |
| Akita | 15 | 17 | 18 | | 18 | | 16 | 6 | 6 | 10 | 6 | 4 | 5 | 7 | 5 | 5 | 10 | 2 | 6 | 2 | 7 | 5 | 6 | 176 | Akita |
| Yamagata | 17 | 13 | 15 | | 8 | | 18 | 21 | 16 | 6 | 3 | 8 | 6 | 5 | 8 | 4 | 8 | 7 | 11 | 6 | 5 | 7 | 1 | 193 | Yamagata |
| Fukushima | 29 | 24 | 19 | | 14 | | 12 | 9 | 11 | 11 | 7 | 7 | 8 | 10 | 7 | 11 | 6 | 6 | 6 | 5 | 7 | 6 | 2 | 217 | Fukushima |
| Ibaraki | 39 | 24 | 34 | | 25 | | 15 | 17 | 20 | 19 | 18 | 11 | 12 | 20 | 18 | 10 | 13 | 7 | 13 | 6 | 8 | 6 | 1 | 336 | Ibaraki |
| Tochigi | 25 | 18 | 11 | | 12 | | 8 | 5 | 8 | 8 | 5 | 9 | 3 | 2 | 2 | 4 | 2 | 2 | 5 | 1 | 7 | 1 | 5 | 143 | Tochigi |
| Gunma | 36 | 38 | 18 | | 27 | | 19 | 9 | 11 | 13 | 15 | 10 | 6 | 10 | 6 | 3 | 5 | 3 | 3 | 9 | 3 | 9 | 6 | 259 | Gunma |
| Saitama | 49 | 48 | 29 | | 37 | | 28 | 22 | 20 | 25 | 17 | 20 | 10 | 17 | 20 | 12 | 23 | 15 | 14 | 16 | 12 | 16 | 9 | 459 | Saitama |
| Chiba | 40 | 36 | 35 | | 26 | | 22 | 30 | 22 | 27 | 21 | 27 | 18 | 14 | 26 | 18 | 13 | 4 | 9 | 14 | 12 | 12 | 9 | 435 | Chiba |
| Tokyo | 86 | 68 | 53 | | 58 | | 54 | 63 | 36 | 60 | 33 | 41 | 34 | 54 | 52 | 40 | 40 | 30 | 40 | 29 | 20 | 25 | 25 | 941 | Tokyo |
| Kanagawa | 80 | 62 | 49 | | 46 | | 46 | 54 | 50 | 35 | 20 | 29 | 37 | 24 | 19 | 18 | 17 | 25 | 17 | 23 | 13 | 24 | 17 | 705 | Kanagawa |
| Niigata | 36 | 42 | 34 | | 22 | | 24 | 30 | 15 | 17 | 16 | 9 | 10 | 10 | 5 | 4 | 4 | 7 | 4 | 8 | 5 | 3 | 12 | 317 | Niigata |
| Toyama | 20 | 23 | 26 | | 15 | | 15 | 7 | 14 | 6 | 6 | 6 | 10 | 11 | 6 | 6 | 11 | 4 | 3 | 5 | 7 | 5 | 5 | 211 | Toyama |
| Ishikawa | 7 | 10 | 7 | | 10 | | 5 | 3 | 6 | 3 | 9 | 7 | 3 | 5 | 2 | 2 | 4 | 2 | 2 | 2 | 1 | 2 | | 92 | Ishikawa |
| Fukui | 16 | 15 | 14 | | 10 | | 10 | 8 | 5 | 3 | 3 | 5 | 5 | 9 | 4 | 3 | 4 | 5 | 4 | 7 | 2 | 3 | 4 | 139 | Fukui |
| Yamanashi | 11 | 10 | 16 | | 5 | | 3 | 10 | 5 | 7 | 2 | 4 | 3 | 2 | 1 | 2 | 5 | 2 | 2 | 2 | 2 | | 2 | 96 | Yamanashi |
| Nagano | 38 | 31 | 30 | | 20 | | 8 | 11 | 5 | 18 | 8 | 7 | 8 | 1 | 5 | 9 | 7 | 5 | 3 | 9 | 6 | 1 | 4 | 234 | Nagano |
| Gifu | 39 | 26 | 25 | | 25 | | 8 | 13 | 9 | 13 | 8 | 11 | 3 | 5 | 6 | 7 | 5 | 4 | 6 | 4 | 3 | 4 | 3 | 227 | Gifu |
| Shizuoka | 34 | 37 | 27 | | 18 | | 20 | 15 | 22 | 10 | 15 | 11 | 9 | 7 | 13 | 13 | 9 | 6 | 9 | 7 | 3 | 5 | 6 | 296 | Shizuoka |
| Aichi | 77 | 68 | 47 | | 39 | | 38 | 38 | 44 | 33 | 32 | 18 | 23 | 23 | 18 | 26 | 13 | 12 | 17 | 17 | 14 | 22 | 20 | 639 | Aichi |
| Mie | 32 | 39 | 29 | | 16 | | 13 | 19 | 10 | 16 | 14 | 9 | 8 | 12 | 13 | 6 | 9 | 9 | 7 | 5 | 3 | 5 | 5 | 279 | Mie |
| Shiga | 17 | 17 | 14 | | 10 | | 6 | 5 | 3 | 6 | 3 | 1 | 5 | | | 1 | 1 | 3 | | 1 | 1 | 1 | 1 | 96 | Shiga |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|-------|-------|-------|--|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------|
| Kyoto | 21 | 26 | 24 | | 15 | | 15 | 19 | 13 | 7 | 13 | 9 | 11 | 10 | 6 | 6 | 5 | 5 | 6 | | 3 | 3 | 5 | 222 | Kyoto |
| Osaka | 64 | 56 | 40 | | 41 | | 32 | 28 | 24 | 24 | 23 | 23 | 9 | 13 | 12 | 9 | 15 | 14 | 12 | 10 | 11 | 6 | 8 | 474 | Osaka |
| Hyogo | 92 | 68 | 55 | | 40 | | 17 | 26 | 17 | 9 | 12 | 14 | 8 | 7 | 5 | 10 | 7 | 8 | 5 | 7 | 5 | 5 | 3 | 420 | Hyogo |
| Nara | 14 | 10 | 19 | | 10 | | 11 | 11 | 8 | 9 | 9 | 7 | 9 | 5 | 3 | 4 | 8 | 2 | 4 | 1 | 11 | 3 | 3 | 161 | Nara |
| Wakayama | 17 | 10 | 14 | | 11 | | 7 | 10 | 11 | 7 | 6 | 9 | 6 | 3 | 6 | 3 | 3 | 2 | 3 | 3 | 5 | 2 | 1 | 139 | Wakayama |
| Tottori | 13 | 5 | 4 | | 7 | | 5 | | 1 | 1 | 1 | 2 | 1 | 1 | 4 | 6 | | | 1 | 1 | 2 | 1 | 4 | 60 | Tottori |
| Shimane | 13 | 4 | 11 | | 17 | | 5 | 2 | 2 | 5 | 1 | | 5 | 3 | 4 | | 2 | 1 | 4 | 5 | 3 | 2 | 5 | 94 | Shimane |
| Okayama | 34 | 27 | 19 | | 19 | | 19 | 11 | 8 | 8 | 7 | 6 | 9 | 7 | 9 | 8 | 3 | 4 | 6 | 7 | 7 | 7 | 6 | 231 | Okayama |
| Hiroshima | 44 | 34 | 24 | | 28 | | 17 | 12 | 6 | 14 | 13 | 12 | 8 | 10 | 7 | 6 | 4 | 6 | 4 | 7 | 4 | 6 | 7 | 273 | Hiroshima |
| Yamaguchi | 26 | 12 | 19 | | 10 | | 15 | 2 | 6 | 9 | 8 | 4 | 6 | 8 | 5 | 3 | 3 | 9 | 6 | 4 | 6 | 5 | 2 | 168 | Yamaguchi |
| Tokushima | 2 | 1 | 3 | | 2 | | 6 | 4 | 6 | 2 | 2 | 1 | | | 2 | 1 | 1 | | 2 | | 2 | | 2 | 39 | Tokushima |
| Kagawa | 8 | 2 | 7 | | 2 | | 12 | 3 | 3 | 6 | 1 | 2 | 6 | 3 | 2 | 4 | 1 | | 2 | 4 | 1 | 2 | 5 | 76 | Kagawa |
| Ehime | 28 | 22 | 30 | | 11 | | 14 | 10 | 11 | 17 | 6 | 10 | 9 | 3 | 6 | 5 | 5 | 10 | 3 | 3 | 2 | 1 | 6 | 212 | Ehime |
| Kochi | 18 | 11 | 5 | | | | 3 | 7 | 6 | 2 | 1 | 1 | 4 | 5 | 3 | 5 | 3 | 2 | 1 | 1 | 6 | 1 | 4 | 89 | Kochi |
| Fukuoka | 52 | 55 | 62 | | 49 | | 38 | 31 | 37 | 35 | 24 | 22 | 20 | 15 | 20 | 20 | 20 | 25 | 9 | 10 | 9 | 13 | 23 | 589 | Fukuoka |
| Saga | 5 | 8 | 3 | | 11 | | 8 | 1 | 6 | 3 | 4 | 7 | 2 | 4 | 1 | 7 | 8 | 1 | 2 | 6 | | 2 | 3 | 92 | Saga |
| Nagasaki | 30 | 16 | 10 | | 15 | | 6 | 5 | 9 | 13 | 12 | 10 | 1 | 10 | 5 | 8 | 8 | 6 | 4 | 5 | 2 | 2 | 5 | 182 | Nagasaki |
| Kumamoto | 19 | 16 | 15 | | 18 | | 7 | 6 | 5 | 4 | 4 | 6 | 6 | 10 | 7 | 4 | | 4 | 4 | 4 | 2 | 3 | 1 | 145 | Kumamoto |
| Oita | 22 | 13 | 8 | | 12 | | 8 | 11 | 11 | 6 | 1 | 7 | 3 | 11 | 3 | 4 | 5 | 5 | 3 | 2 | 4 | 6 | 1 | 146 | Oita |
| Miyazaki | 13 | 12 | 7 | | 4 | | 4 | 6 | | 2 | | 2 | 2 | 5 | 1 | 3 | | 3 | 2 | 1 | 4 | 3 | 3 | 77 | Miyazaki |
| Kagoshima | 14 | 12 | 10 | | 10 | | 5 | 5 | 10 | 7 | 4 | 7 | 2 | 5 | 9 | 5 | 3 | 5 | 5 | 7 | 2 | 1 | 4 | 132 | Kagoshima |
| Okinawa | 5 | 1 | 1 | | 5 | | 3 | 5 | | 5 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 1 | 2 | 3 | 3 | 4 | 6 | 62 | Okinawa |
| total | 1,432 | 1,216 | 1,051 | | 880 | | 691 | 669 | 583 | 586 | 453 | 457 | 397 | 428 | 403 | 364 | 343 | 316 | 298 | 299 | 273 | 268 | 287 | 11,694 | total |

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

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

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Fatal accidents in water supply/sewage construction work in Japan in 1999-2021

water supply/sewage construction work industry Code No.030110

Type of fatal accidents in water supply/sewage construction work in 1999-2021

| 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 | 2021 | total | Type of accidents |
|------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------------------------------------|
| fall from height | 5 | 5 | 1 | 5 | 7 | 8 | 1 | 3 | 2 | 1 | 2 | | 2 | | 2 | 1 | | 1 | 2 | 1 | 3 | 1 | 2 | 55 | fall from height |
| falling to same level | 3 | 3 | 3 | 1 | 4 | | 2 | | 1 | 1 | 2 | | | | | | 2 | | | | 1 | | 1 | 24 | falling to same level |
| crash | 1 | | 1 | | 1 | | | | | | | | | | | | | | | | | | | 3 | crash |
| struck by flying or falling object | 4 | 4 | 1 | | 2 | 1 | 2 | 2 | 3 | 1 | 2 | | 1 | | 1 | | | 1 | | | | | 1 | 26 | struck by flying or falling object |
| collapse | 24 | 8 | 12 | 8 | 12 | 7 | 1 | 3 | 8 | 8 | 4 | 4 | 1 | 6 | 3 | 4 | 4 | 1 | 2 | 2 | 5 | 4 | 3 | 134 | collapse |
| crashed by | 4 | 5 | 4 | 1 | 1 | 4 | 1 | 4 | 3 | 3 | 1 | 2 | 2 | 1 | | | 1 | 1 | 3 | | 2 | 2 | | 45 | crashed by |
| caught in/between | 10 | 1 | 10 | 11 | 3 | 4 | 3 | 4 | 2 | 4 | 2 | 5 | | | 1 | 2 | 2 | | 1 | 1 | | 1 | 1 | 68 | caught in/between |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|----|---|---|---|----|----|----|------------------------------------|-------|
| cut | | | | | | | | | | | | | | | | | | | | | | | | cut | |
| injury to the sole of the foot | | | | | | | | | | | | | | | | | | | | | | | | injury to the sole of the foot | |
| drown | | | 1 | | | 1 | 1 | | 6 | | | 4 | | | | | 1 | | | | 1 | | 15 | drown | |
| contact to high/low-temperature | | 1 | 1 | | | | | | | | | 2 | | | | | | | | | | | 5 | contact to high/low-temperature | |
| contact to harmful substance | 1 | | 1 | | | | | | 5 | | 1 | | | 1 | 2 | 1 | | | | | | 1 | 13 | contact to harmful substance | |
| electric shock | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | electric shock | |
| explosion | | | | | | | | | | | | | | | | | | | | | | | | explosion | |
| burst | | 1 | 1 | | | | | | | | | | | | | | | | | | | | 2 | burst | |
| fire | | | | | | | | | | | | | | | | | | | | | | | | fire | |
| traffic accident (public road) | 9 | 4 | 3 | 5 | 4 | | 1 | 1 | 4 | 2 | 2 | 1 | 1 | | 1 | 2 | | 1 | | | 1 | 2 | 44 | traffic accident (public road) | |
| traffic accident (others) | | | 1 | | | | | | | | | | | | | | | | | | | | 1 | traffic accident (others) | |
| reaction to motion/improper motion | | | | | | | | | | | | | | | | | | | | | | | | reaction to motion/improper motion | |
| others | | | | | | | | | 1 | | | | 4 | | | | | | | | | | 5 | others | |
| unclassifiable | | | | | | | | | | | | | | | | | | | | | | | | unclassifiable | |
| total | 62 | 32 | 40 | 31 | 34 | 25 | 12 | 18 | 24 | 31 | 15 | 15 | 15 | 7 | 9 | 11 | 10 | 6 | 8 | 4 | 12 | 12 | 8 | 441 | total |

Causal agents (large) of fatal accidents in water supply/sewage construction work in 1999-2021

| Causal (L) agents | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | total | Causal (L) agents | |
|-------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------------------------------------|--------|
| machine | 15 | 8 | 9 | 6 | 10 | 6 | 5 | 8 | 4 | 9 | 4 | 7 | 3 | 1 | 2 | 1 | 4 | 2 | 2 | | 1 | 3 | 2 | 112 | machine | |
| crane, conveying machine | 13 | 8 | 11 | 12 | 5 | 2 | 4 | 2 | 7 | 3 | 3 | 1 | 1 | | 1 | 3 | 1 | 1 | 3 | 1 | 3 | 2 | 2 | 89 | crane, conveying machine | |
| other equipment | 2 | 3 | 3 | | 2 | 2 | 1 | 3 | 2 | 1 | 1 | | | 1 | 1 | | | 2 | | | | | | 24 | other equipment | |
| temporary buildings, establishments | 8 | 5 | 4 | 6 | 4 | 9 | 1 | 1 | 1 | 4 | 3 | | 2 | | | 2 | 1 | | 1 | 1 | 3 | 1 | 1 | 58 | temporary buildings, establishments | |
| substance, material | 4 | 1 | 1 | 2 | 1 | | | | 1 | 1 | | | | | | 2 | 1 | | | | | 2 | | 16 | substance, material | |
| load | 1 | | | | 1 | | | | | | | 1 | | | | | | | | | | | | 3 | load | |
| environment | 19 | 7 | 12 | 5 | 11 | 6 | 1 | 4 | 9 | 13 | 4 | 6 | 9 | 5 | 5 | 3 | 3 | 1 | 2 | 2 | 5 | 4 | 3 | 139 | environment | |
| others | | | | | | | | | | | | | | | | | | | | | | | | | | others |
| total | 62 | 32 | 40 | 31 | 34 | 25 | 12 | 18 | 24 | 31 | 15 | 15 | 15 | 7 | 9 | 11 | 10 | 6 | 8 | 4 | 12 | 12 | 8 | 441 | total | |

Causal agents (middle) of fatal accidents in water supply/sewage construction work in 1999-2021

| 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 | 2021 | total | Causal (M) agents |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------------------|
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------------------|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|----|---|---|---|----|----|---|-----|-------|----------------|
| unclassifiable | | | | | | | | | | | | | | | | | | | | | | | | | | unclassifiable |
| total | 62 | 32 | 40 | 31 | 34 | 25 | 12 | 18 | 24 | 31 | 15 | 15 | 15 | 7 | 9 | 11 | 10 | 6 | 8 | 4 | 12 | 12 | 8 | 441 | total | |

Causal agents (small) of fatal accidents in water supply/sewage construction work in 1999-2021

| 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 | 2021 | total | Causal (S) agents | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------------------|--------|---|
| engine | | | | | | | | | | 3 | | | | | | | | | | | | | | | 3 | engine | |
| power transmission mechanism | | | | | | | | | | | | | | | | | | | | | | | | | | | power transmission mechanism |
| circular sawing machine | | | | | | | | | | | | | | | | | | | | | | | | | | | circular sawing machine |
| band sawing machine | | | | | | | | | | | | | | | | | | | | | | | | | | | band sawing machine |
| wood planer machine | | | | | | | | | | | | | | | | | | | | | | | | | | | wood planer machine |
| hollow chisel mortiser, wood borer | | | | | | | | | | | | | | | | | | | | | | | | | | | hollow chisel mortiser, wood borer |
| chamfering machine, router, woodworking milling machine | | | | | | | | | | | | | | | | | | | | | | | | | | | chamfering machine, router, woodworking milling machine |
| chain saw | | | | | | | | | | | | | | | | | | | | | | | | | | | chain saw |
| other woodworking machines | | | | | | | | | | | | | | | | | | | | | | | | | | | other woodworking machines |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|----|---|
| leveling, transporting or loading machine | 3 | | 2 | 1 | | 2 | 1 | | 1 | | 2 | | 1 | | | | | | | | | 1 | | 14 | leveling, transporting or loading machine |
| excavating machine | 8 | 6 | 7 | 4 | 9 | 1 | 4 | 7 | 2 | 5 | | 5 | 2 | 1 | 2 | 1 | 3 | 2 | 2 | | 1 | 1 | 1 | 74 | excavating machine |
| foundation work machine | | | | | | | | | | | | | | | | | | | | | | | | | foundation work machine |
| hardening machine | 2 | | | | | 1 | | | | | 1 | | | | | | | | | | | | | 4 | hardening machine |
| demolition machine | | 1 | | | | | | | | | 1 | | | | | | | | | | | | 1 | 3 | demolition machine |
| vehicle for high lift work | | | | | | | | | | | | | | | | | | | | | | | | | vehicle for high lift work |
| other construction machines | 2 | 1 | | | | 2 | | 1 | 1 | 1 | | 1 | | | | | 1 | | | | | | 1 | 11 | other construction machines |
| lathe | | | | | | | | | | | | | | | | | | | | | | | | | lathe |
| drill press, milling machine | | | | | | | | | | | | | | | | | | | | | | | | | drill press, milling machine |
| grinding machine, buffing machine | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 | grinding machine, buffing machine |
| power press | | | | | | | | | | | | | | | | | | | | | | | | | power press |
| forging pressure hammer | | | | | | | | | | | | | | | | | | | | | | | | | forging pressure hammer |
| shearing machine | | | | | | | | | | | | | | | | | | | | | | | | | shearing machine |
| other metal manufacturing machines | | | | | | | | | | | | | | | | | | | | | | | | | other metal manufacturing machines |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|---|---|---|--|---|---|---|---|----|---|
| hand tool | | | | | | 1 | | | | | | | | | | | | | | | | | 1 | hand tool |
| ladder | | 1 | | | 1 | | | 1 | | | | | | | | | | | | | | | 3 | ladder |
| slinging tool | 1 | 1 | 1 | | 1 | | | 2 | 1 | 1 | 1 | | | | | | 1 | | | | | | 10 | slinging tool |
| other tools | | | 1 | | | | 1 | | 1 | | | | | | | | | | | | | | 3 | other tools |
| other equipment, facilities | | | | | | 1 | | | | | | | | | 1 | | | | | | | | 3 | other equipment, facilities |
| scaffolding | | 1 | 1 | | 1 | | | | | | | | | | | | | | | 1 | | | 4 | scaffolding |
| timbering | 2 | | | | | 2 | | | | 1 | 1 | | | | | 1 | | | | | | | 7 | timbering |
| stairs, landing stage | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | stairs, landing stage |
| opening | 2 | | | 2 | 1 | 4 | | 1 | | | 1 | | | | | | | | 1 | | | 1 | 13 | opening |
| roof, beam, haze, crossbeam, principal rafter | | | | | | | 1 | | | | | | | | | | | | 1 | | 1 | | 3 | roof, beam, haze, crossbeam, principal rafter |
| working platform, boot board | | | | | | | | | | 1 | | | | | | | | | | | | | 1 | working platform, boot board |
| passage | | | 1 | 1 | | | | | | | | | | | | | | | | 1 | | | 3 | passage |
| building, establishment | 3 | 2 | 2 | 3 | 1 | 2 | 1 | | 1 | 2 | 1 | | | | 2 | | | | | | 1 | | 21 | building, establishment |
| other temporary buildings, establishments | | 2 | | | | 1 | | | | | | | | | 2 | | | | | | | | 5 | other temporary buildings, establishments |
| explosive substance | | | | | | | | | | | | | | | | | | | | | | | | explosive substance |
| inflammable substance | | | | | | | | | | | | | | | | | | | | | | | | inflammable substance |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|----|---|---|---|----|----|---|-----|---------------------|
| 100-299 | | | | 3 | | | | | | | | | | | | | | | | | | | | 3 | 100-299 |
| 300 workers or more | | 1 | | | | 1 | | | | | | | | | | | | | | | | | | 2 | 300 workers or more |
| total | 62 | 32 | 40 | 31 | 34 | 25 | 12 | 18 | 24 | 31 | 15 | 15 | 15 | 7 | 9 | 11 | 10 | 6 | 8 | 4 | 12 | 12 | 8 | 441 | total |

Month of fatal accidents in water supply/sewage construction work in 1999-2021

| Month | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | total | Month |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-----------|
| January | 2 | 4 | 5 | 2 | 6 | 5 | | 1 | 3 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | 46 | January |
| February | 10 | 4 | 3 | 1 | 6 | 2 | 2 | | 6 | 1 | 4 | 3 | | 1 | | 2 | | | 1 | 1 | 2 | 3 | 1 | 53 | February |
| March | 3 | 3 | 2 | 2 | 2 | 1 | | 1 | 1 | 3 | | | 9 | 2 | | 1 | 2 | | | 1 | 1 | | 2 | 36 | March |
| April | 10 | 2 | 4 | 1 | 3 | 1 | 3 | 1 | 1 | 1 | 1 | | 1 | | | 1 | | 2 | 1 | | 1 | 3 | | 37 | April |
| May | 2 | 3 | 2 | 5 | 4 | | | 1 | | 1 | 1 | | | 2 | 2 | 1 | | 1 | 2 | | 1 | 1 | | 29 | May |
| June | | 2 | 3 | 2 | 2 | 2 | 1 | | 2 | 1 | 1 | | | 1 | | | 1 | | | 1 | 2 | 1 | 1 | 23 | June |
| July | 7 | 1 | 3 | | 5 | 2 | | 1 | 2 | 1 | | 1 | | | | 1 | 1 | | 1 | | | | | 26 | July |
| August | 4 | 4 | 3 | 1 | 1 | 2 | | 1 | 1 | 6 | 1 | 2 | 1 | | | 1 | 1 | | | | | 2 | 1 | 32 | August |
| September | 5 | 2 | 1 | 2 | 1 | 3 | | 7 | 2 | 4 | 2 | | | | | | 1 | 1 | 1 | | | | 1 | 33 | September |
| October | 5 | 1 | 4 | 6 | | 4 | 3 | 4 | 3 | 2 | 2 | 5 | 3 | | 3 | 1 | 2 | | | | 3 | 1 | | 52 | October |
| November | 3 | 4 | 2 | 4 | 3 | 1 | | | 1 | 2 | 1 | 2 | | | 1 | 1 | 1 | | 1 | | | | | 27 | November |
| December | 11 | 2 | 8 | 5 | 1 | 2 | 3 | 1 | 2 | 4 | 1 | 1 | | | 2 | 1 | | | | | 2 | | 1 | 47 | December |
| total | 62 | 32 | 40 | 31 | 34 | 25 | 12 | 18 | 24 | 31 | 15 | 15 | 15 | 7 | 9 | 11 | 10 | 6 | 8 | 4 | 12 | 12 | 8 | 441 | total |

Prefecture of fatal accidents in water supply/sewage construction work in 1999-2021

| Prefecture | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | total | Prefecture |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------------|
| Hokkaido | 5 | 3 | | 7 | 1 | 1 | 1 | | | | 1 | 1 | | | 1 | | 1 | | | 2 | 1 | 1 | 26 | Hokkaido | |
| Aomori | 1 | | 1 | | 1 | | 1 | 1 | | | | | 1 | | | | | | | | | | | 6 | Aomori |
| Iwate | | | 1 | | 1 | | | | | | | | 4 | | | | | | | | | | | 6 | Iwate |
| Miyagi | 3 | | 1 | | 1 | | | | | | | | 4 | | | 1 | | | | | | | | 10 | Miyagi |
| Akita | 1 | 1 | | | 1 | | | | 1 | | | | | | | | 1 | | | | | | | 5 | Akita |
| Yamagata | 1 | 1 | | | | | | 1 | | | | | | | | 1 | | | | | | | | 4 | Yamagata |
| Fukushima | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | 2 | Fukushima |
| Ibaraki | 1 | | 4 | 1 | 1 | 2 | | | 1 | 2 | 1 | 2 | 1 | 1 | | | 1 | | 1 | 1 | 1 | | | 21 | Ibaraki |
| Tochigi | 1 | | | | 1 | | | | 1 | | 1 | | 1 | | | | | | | | | | | 5 | Tochigi |
| Gunma | 2 | 1 | 3 | | 1 | 2 | 1 | | | | | | | | | | | | | | | | | 10 | Gunma |
| Saitama | 1 | 2 | 1 | | | 1 | | 1 | 1 | 1 | | | | | | | | | 1 | | | | | 9 | Saitama |
| Chiba | 1 | | 1 | 2 | | 2 | 2 | 2 | 1 | | | 3 | | | | 1 | | | 1 | | 1 | | 2 | 19 | Chiba |
| Tokyo | 4 | 3 | | 3 | | 3 | 2 | 2 | | 5 | | 1 | | 2 | 1 | 1 | 2 | 2 | | | 1 | 2 | | 34 | Tokyo |
| Kanagawa | 4 | 2 | 2 | 1 | 3 | 4 | | 1 | | 1 | | 2 | 1 | | | 1 | | 1 | 1 | 1 | | 1 | | 26 | Kanagawa |
| Niigata | | | | 1 | | 1 | | | 1 | | 1 | 1 | | | | | | | | | 1 | | | 6 | Niigata |
| Toyama | | 1 | 2 | | | | | | 1 | | | | | | | | | | | | | | | 4 | Toyama |
| Ishikawa | | | | | | | | | | | | | | | | | | | | | | | | | Ishikawa |
| Fukui | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | 2 | Fukui |
| Yamanashi | 2 | | 2 | | | | | 1 | | 1 | | | | | | | | | | | | | | 6 | Yamanashi |
| Nagano | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | Nagano |
| Gifu | 2 | 2 | | 1 | 1 | | | | | | | 1 | | | | | | | | | | | | 7 | Gifu |
| Shizuoka | | | 2 | 1 | 2 | | 1 | 1 | 2 | 1 | | | | | 1 | 1 | | | | | | 1 | | 13 | Shizuoka |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|----|---|---|---|----|----|---|-----|-----------|
| Miyazaki | | | 2 | | | | | | | | | | | | | | | | | | 1 | | | 3 | Miyazaki |
| Kagoshima | 3 | | | | 1 | | 1 | | 1 | 1 | 1 | | | | 1 | 1 | | | | | | | | 10 | Kagoshima |
| Okinawa | 1 | | | | | 2 | | 1 | | | 1 | | | | | | | | | | | | | 5 | Okinawa |
| total | 62 | 32 | 40 | 31 | 34 | 25 | 12 | 18 | 24 | 31 | 15 | 15 | 15 | 7 | 9 | 11 | 10 | 6 | 8 | 4 | 12 | 12 | 8 | 441 | total |

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

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