Industrial accidents in road construction work in Japan in 1999-2020

road construction work industry Code No.030106

Type of accidents in road 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 | 424 | 351 | 320 | 301 | 263 | 247 | 242 | 214 | 172 | 189 | 175 | 141 | 172 | 159 | 172 | 174 | 174 | 160 | 172 | 138 | 154 | 168 |
| falling to same level | 193 | 165 | 144 | 141 | 120 | 118 | 109 | 87 | 81 | 93 | 65 | 76 | 78 | 64 | 86 | 97 | 74 | 66 | 69 | 82 | 84 | 93 |
| crash | 77 | 87 | 70 | 51 | 53 | 49 | 58 | 47 | 37 | 40 | 34 | 24 | 30 | 36 | 38 | 38 | 28 | 16 | 33 | 27 | 37 | 35 |
| struck by flying or falling object | 329 | 301 | 267 | 205 | 206 | 175 | 148 | 141 | 121 | 119 | 112 | 95 | 105 | 101 | 86 | 94 | 84 | 98 | 80 | 67 | 86 | 76 |
| collapse | 85 | 85 | 70 | 68 | 54 | 57 | 48 | 50 | 37 | 33 | 41 | 21 | 27 | 25 | 18 | 32 | 24 | 21 | 32 | 27 | 24 | 26 |
| crashed by | 236 | 223 | 204 | 180 | 144 | 150 | 162 | 115 | 122 | 104 | 115 | 100 | 87 | 84 | 74 | 78 | 79 | 63 | 78 | 73 | 82 | 74 |
| caught in/between | 419 | 365 | 355 | 311 | 263 | 247 | 230 | 193 | 170 | 200 | 178 | 160 | 141 | 162 | 146 | 145 | 139 | 105 | 116 | 129 | 111 | 117 |
| cut | 111 | 98 | 104 | 78 | 80 | 74 | 71 | 53 | 56 | 41 | 46 | 38 | 44 | 54 | 42 | 38 | 47 | 42 | 41 | 42 | 41 | 45 |
| injury to the sole of the foot | 6 | 6 | 4 | 1 | 7 | 1 | 6 | 4 | 0 | 1 | 3 | 2 | 4 | 2 | 0 | 1 | 2 | 2 | 3 | 3 | 4 | 1 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| drown | 1 | 0 | 0 | - | 2 | - | 0 | 3 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| contact to high/low-temperature | 21 | 34 | 29 | 27 | 15 | 16 | 16 | 19 | 13 | 17 | 16 | 18 | 11 | 14 | 17 | 15 | 19 | 20 | 11 | 25 | 21 | 22 |
| contact to harmful substance | 5 | 3 | 8 | 4 | 4 | 3 | 4 | 3 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 4 | 0 | 6 | 1 | 4 | 3 | 1 |
| electric shock | 0 | 1 | 0 | - | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 2 | 0 | 0 | 0 | 1 | 1 | 0 |
| explosion | 2 | 0 | 3 | 1 | 0 | 2 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| burst | 1 | 3 | 2 | 1 | 0 | - | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 3 | 1 | 0 | 0 | 0 |
| fire | 1 | 3 | 2 | 1 | 2 | 3 | 3 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 2 | 0 |
| traffic accident (public road) | 98 | 97 | 108 | 77 | 80 | 83 | 85 | 61 | 49 | 50 | 47 | 59 | 58 | 51 | 57 | 49 | 50 | 60 | 55 | 32 | 45 | 40 |
| traffic accident (others) | 4 | 4 | 1 | 1 | 0 | - | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 0 |
| reaction to motion/improper motion | 68 | 71 | 55 | 52 | 53 | 43 | 43 | 30 | 37 | 35 | 27 | 28 | 41 | 30 | 37 | 31 | 37 | 41 | 41 | 38 | 40 | 39 |
| others | 4 | 7 | 8 | 7 | 4 | 12 | 5 | 5 | 4 | 4 | 3 | 2 | 14 | 3 | 6 | 5 | 8 | 4 | 7 | 4 | 5 | 9 |
| unclassifiable | 2 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 1 | 2 | 0 | 0 | 1 | 4 | 0 | 1 | 0 | 1 | 1 | 2 | 1 |

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| total | 2,087 | 1,905 | 1,754 | 1,508 | 1,350 | 1,282 | 1,233 | 1,029 | 902 | 930 | 868 | 768 | 821 | 794 | 792 | 806 | 767 | 709 | 744 | 695 | 743 | 747 |

Causal agents (middle) of industrial accidents in road 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 | 1 | 2 | 1 | 3 | 0 | - | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 |
| power transmission mechanism | 1 | 2 | 4 | 1 | 0 | 2 | 1 | 2 | 2 | 1 | 3 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| woodworking machine | 56 | 47 | 61 | 43 | 55 | 35 | 41 | 29 | 20 | 20 | 22 | 20 | 26 | 23 | 22 | 20 | 20 | 20 | 16 | 13 | 16 | 21 |
| construction machine | 433 | 347 | 354 | 328 | 249 | 256 | 252 | 213 | 203 | 220 | 190 | 175 | 154 | 168 | 166 | 175 | 135 | 131 | 128 | 134 | 136 | 131 |
| metal manufacturing machine | 21 | 20 | 15 | 16 | 14 | 7 | 12 | 12 | 10 | 9 | 9 | 4 | 8 | 12 | 6 | 8 | 14 | 5 | 7 | 13 | 7 | 9 |
| general machine | 43 | 47 | 43 | 33 | 41 | 31 | 26 | 30 | 25 | 16 | 25 | 30 | 18 | 20 | 17 | 23 | 18 | 21 | 23 | 19 | 26 | 23 |
| mobile silviculture | | | | | | | | | | | | | | | | | 3 | 2 | 5 | 1 | 1 | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| machine | | | | | | | | | | | | | | | | | | | | | | |
| crane | 71 | 63 | 52 | 49 | 40 | 33 | 43 | 34 | 29 | 41 | 30 | 34 | 27 | 17 | 29 | 24 | 31 | 17 | 31 | 32 | 29 | 24 |
| conveying machine | 211 | 244 | 214 | 182 | 179 | 171 | 158 | 117 | 129 | 136 | 125 | 115 | 116 | 124 | 115 | 123 | 112 | 94 | 114 | 98 | 103 | 105 |
| vehicle | 80 | 69 | 77 | 49 | 58 | 55 | 61 | 47 | 33 | 34 | 28 | 42 | 42 | 33 | 34 | 34 | 31 | 46 | 36 | 22 | 34 | 31 |
| pressure vessel | 1 | 0 | 0 | - | 2 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 2 | 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 | 3 | 3 | 0 | - | 1 | 3 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| kiln, caldron | 0 | 1 | 1 | - | 1 | - | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| electric equipment | 1 | 0 | 4 | - | 1 | 2 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 3 | 0 | 4 | 0 | 1 | 1 | 2 | 1 | 0 |
| human power machine, tools | 77 | 61 | 64 | 37 | 48 | 58 | 39 | 28 | 26 | 19 | 31 | 16 | 22 | 26 | 18 | 29 | 19 | 14 | 16 | 17 | 24 | 17 |
| tools | 91 | 81 | 71 | 63 | 57 | 44 | 73 | 43 | 39 | 36 | 50 | 37 | 41 | 41 | 37 | 43 | 48 | 42 | 40 | 35 | 35 | 45 |
| other equipments, facilities | 12 | 8 | 14 | 7 | 11 | 12 | 11 | 5 | 8 | 4 | 6 | 3 | 3 | 7 | 8 | 10 | 6 | 10 | 8 | 3 | 3 | 4 |
| temporary | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| buildings, establishments | 314 | 286 | 235 | 231 | 213 | 180 | 179 | 159 | 138 | 158 | 119 | 91 | 120 | 107 | 112 | 117 | 117 | 115 | 123 | 109 | 131 | 128 |
| hazards, harmful substances | 13 | 19 | 17 | 14 | 8 | 10 | 8 | 8 | 6 | 2 | 4 | 2 | 6 | 7 | 3 | 1 | 1 | 5 | 4 | 5 | 7 | 3 |
| materials | 321 | 302 | 251 | 208 | 152 | 144 | 147 | 138 | 113 | 89 | 101 | 77 | 94 | 78 | 72 | 72 | 73 | 83 | 74 | 63 | 83 | 62 |
| load | 41 | 55 | 47 | 37 | 29 | 32 | 30 | 22 | 23 | 22 | 16 | 20 | 17 | 19 | 18 | 13 | 20 | 16 | 16 | 16 | 14 | 21 |
| natural environment | 256 | 200 | 200 | 179 | 173 | 170 | 129 | 123 | 81 | 104 | 86 | 76 | 99 | 95 | 112 | 95 | 101 | 70 | 79 | 88 | 79 | 96 |
| other causal agent | 14 | 16 | 11 | 8 | 8 | 10 | 7 | 7 | 3 | 3 | 3 | 3 | 6 | 1 | 4 | 3 | 2 | 4 | 5 | 5 | 1 | 5 |
| no causal agent | 24 | 28 | 16 | 19 | 10 | 16 | 13 | 10 | 12 | 12 | 12 | 19 | 20 | 10 | 16 | 11 | 12 | 11 | 17 | 16 | 10 | 17 |
| unclassifiable | 2 | 4 | 2 | 1 | 0 | 10 | 1 | 0 | 0 | 1 | 2 | 2 | 1 | 2 | 2 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| total | 2,087 | 1,905 | 1,754 | 1,508 | 1,350 | 1,282 | 1,233 | 1,029 | 902 | 930 | 868 | 768 | 821 | 794 | 792 | 806 | 767 | 709 | 744 | 695 | 743 | 747 |

Causal agents (small) of industrial accidents in road 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 | | | 1 | | 0 | | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 |
| power transmission mechanism | | | 4 | | 0 | | 1 | 2 | 2 | 1 | 3 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

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| circular sawing machine | | | 37 | | 31 | | 24 | 17 | 16 | 8 | 10 | 7 | 8 | 12 | 12 | 12 | 10 | 10 | 7 | 5 | 8 | 7 |
| band sawing machine | | | 0 | | 0 | | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| wood planer machine | | | 1 | | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| hollow chisel mortiser, wood borer | | | 0 | | 0 | | 0 | 0 | 1 | 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 | 1 | 0 | 0 | 0 | 0 |
| chain saw | | | 18 | | 21 | | 11 | 9 | 3 | 9 | 12 | 9 | 14 | 9 | 6 | 6 | 9 | 7 | 4 | 6 | 8 | 13 |
| other woodworking machines | | | 5 | | 2 | | 6 | 3 | 0 | 2 | 0 | 4 | 4 | 2 | 2 | 2 | 1 | 2 | 5 | 2 | 0 | 1 |
| leveling, transporting or loading machine | | | 62 | | 49 | | 35 | 41 | 26 | 32 | 24 | 25 | 23 | 24 | 32 | 25 | 31 | 18 | 24 | 27 | 18 | 14 |
| excavating machine | | | 150 | | 108 | | 131 | 91 | 100 | 99 | 89 | 78 | 73 | 84 | 84 | 85 | 56 | 57 | 68 | 66 | 69 | 75 |
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| foundation work machine | | | 8 | | 3 | | 3 | 10 | 4 | 2 | 3 | 1 | 1 | 3 | 3 | 3 | 2 | 3 | 4 | 6 | 2 | 2 |
| hardening machine | | | 63 | | 34 | | 33 | 32 | 32 | 37 | 30 | 37 | 22 | 22 | 19 | 27 | 23 | 27 | 16 | 21 | 18 | 21 |
| demolition machine | | | 14 | | 10 | | 9 | 9 | 9 | 11 | 15 | 9 | 7 | 11 | 5 | 6 | 5 | 6 | 2 | 3 | 5 | 3 |
| vehicle for high lift work | | | 2 | | 2 | | 2 | 1 | 0 | 4 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 2 |
| other construction machines | | | 55 | | 43 | | 39 | 29 | 32 | 35 | 28 | 25 | 28 | 23 | 23 | 27 | 17 | 20 | 14 | 10 | 24 | 14 |
| lathe | | | 1 | | 1 | | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| drill press, milling machine | | | 0 | | 0 | | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| grinding machine, buffing machine | | | 6 | | 6 | | 7 | 5 | 7 | 5 | 4 | 2 | 4 | 9 | 5 | 6 | 7 | 4 | 5 | 9 | 5 | 6 |
| power press | | | 0 | | 1 | | 0 | 1 | 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 | 1 | 0 | 0 | 0 | 0 | 0 |
| shearing machine | | | 1 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other metal manufacturing machines | | | 7 | | 6 | | 4 | 6 | 3 | 2 | 5 | 2 | 4 | 3 | 1 | 2 | 6 | 1 | 2 | 4 | 2 | 2 |

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| centrifugal machine | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| mixer, grinder | | | 6 | | 3 | | 2 | 1 | 1 | 1 | 3 | 4 | 3 | 0 | 3 | 3 | 3 | 0 | 2 | 2 | 1 | 0 |
| roll machine (except printingroll machine) | | | 0 | | 0 | | 0 | 1 | 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 |
| food manufacturing machine | | | 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 |
| industrial robot | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other general power machines | | | 37 | | 38 | | 24 | 28 | 24 | 15 | 22 | 26 | 15 | 20 | 14 | 20 | 15 | 21 | 21 | 17 | 25 | 23 |
| felling machine | | | | | | | | | | | | | | | | | 2 | 2 | 2 | 1 | 1 | 2 |
| mobile logging machine | | | | | | | | | | | | | | | | | 1 | 0 | 3 | 0 | 0 | 0 |
| skyline yarding machine | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 1 |
| other mobile silviculture machine | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| crane | | | 3 | | 3 | | 5 | 5 | 3 | 7 | 5 | 2 | 3 | 2 | 2 | 4 | 4 | 0 | 6 | 0 | 4 | 5 |
| mobile crane | | | 47 | | 34 | | 36 | 25 | 26 | 33 | 23 | 32 | 24 | 15 | 27 | 20 | 26 | 17 | 25 | 31 | 24 | 19 |
| derrick crane | | | 0 | | 0 | | 0 | 1 | 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 | | | 0 | | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 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 | 1 | 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 | | | 2 | | 2 | | 2 | 2 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| truck | | | 202 | | 159 | | 139 | 106 | 124 | 124 | 115 | 111 | 107 | 112 | 104 | 107 | 107 | 89 | 104 | 92 | 97 | 100 |
| forklift | | | 3 | | 0 | | 2 | 1 | 1 | 2 | 0 | 1 | 3 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 1 | 1 |
| railway equipment | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| conveyor | | | 0 | | 2 | | 2 | 1 | 0 | 1 | 1 | 0 | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 |
| loader | | | 4 | | 2 | | 3 | 5 | 0 | 2 | 1 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 0 |
| straddle carrier | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| rough terrain hauler | | | 4 | | 7 | | 4 | 3 | 2 | 5 | 7 | 0 | 3 | 2 | 5 | 7 | 1 | 2 | 3 | 3 | 2 | 1 |
| other powered conveying machines | | | 1 | | 9 | | 8 | 1 | 2 | 2 | 1 | 3 | 1 | 5 | 4 | 5 | 2 | 1 | 3 | 0 | 1 | 2 |
| cars, bus, motorcycle | | | 74 | | 58 | | 60 | 47 | 32 | 33 | 27 | 41 | 41 | 33 | 34 | 34 | 31 | 46 | 36 | 21 | 33 | 31 |
| railway vehicle | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other vehicles | | | 3 | | 0 | | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| boiler | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| pressure vessel | | | 0 | | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other pressure vessels | | | 0 | | 1 | | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 2 | 0 |
| chemical facilities | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| gas welding equipment | | | 0 | | 0 | | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| arc welding equipment | | | 0 | | 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 |
| kiln, caldron | | | 1 | | 0 | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
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| industrial dryer | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other kiln, caldron | | | 0 | | 1 | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| transmission | | | 0 | | 0 | | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |
| electric power facilities | | | 1 | | 0 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| other electrical equipment | | | 3 | | 1 | | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 3 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 0 |
| human power cranes | | | 0 | | 1 | | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| human power hauling equipment | | | 5 | | 4 | | 3 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| human power machine | | | 5 | | 2 | | 1 | 2 | 0 | 0 | 2 | 2 | 1 | 0 | 1 | 2 | 2 | 0 | 1 | 1 | 0 | 0 |
| hand tool | | | 54 | | 41 | | 35 | 25 | 24 | 18 | 24 | 12 | 17 | 24 | 15 | 24 | 16 | 12 | 13 | 15 | 22 | 15 |
| ladder | | | 37 | | 28 | | 35 | 18 | 17 | 15 | 30 | 14 | 16 | 18 | 16 | 24 | 25 | 25 | 23 | 14 | 18 | 20 |
| slinging tool | | | 12 | | 14 | | 15 | 13 | 13 | 6 | 9 | 12 | 9 | 12 | 11 | 10 | 12 | 8 | 11 | 10 | 8 | 14 |
| other tools | | | 22 | | 15 | | 23 | 12 | 9 | 15 | 11 | 11 | 16 | 11 | 10 | 9 | 11 | 9 | 6 | 11 | 9 | 11 |
| other equipment, facilities | | | 14 | | 11 | | 11 | 5 | 8 | 4 | 6 | 3 | 3 | 7 | 8 | 10 | 6 | 10 | 8 | 3 | 3 | 4 |
| scaffolding | | | 36 | | 24 | | 15 | 14 | 13 | 15 | 12 | 5 | 8 | 5 | 6 | 8 | 8 | 7 | 11 | 6 | 6 | 5 |

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| timbering | | | 10 | | 11 | | 7 | 9 | 9 | 5 | 5 | 2 | 0 | 3 | 3 | 0 | 5 | 2 | 2 | 2 | 1 | 3 |
| stairs, landing stage | | | 4 | | 5 | | 8 | 10 | 6 | 9 | 6 | 5 | 11 | 12 | 10 | 2 | 8 | 8 | 9 | 7 | 8 | 10 |
| opening | | | 1 | | 4 | | 8 | 6 | 5 | 2 | 3 | 1 | 3 | 2 | 3 | 4 | 5 | 6 | 2 | 3 | 3 | 6 |
| roof, beam, haze, crossbeam, principal rafter | | | 3 | | 5 | | 2 | 2 | 0 | 1 | 3 | 3 | 6 | 1 | 2 | 2 | 1 | 5 | 1 | 3 | 3 | 0 |
| working platform, boot board | | | 27 | | 31 | | 18 | 9 | 13 | 16 | 24 | 8 | 14 | 14 | 12 | 17 | 10 | 9 | 15 | 15 | 16 | 15 |
| passage | | | 41 | | 31 | | 43 | 37 | 34 | 38 | 24 | 28 | 33 | 22 | 28 | 38 | 22 | 40 | 30 | 27 | 44 | 33 |
| building, establishment | | | 86 | | 66 | | 52 | 50 | 40 | 45 | 27 | 24 | 32 | 29 | 29 | 35 | 37 | 22 | 35 | 26 | 34 | 40 |
| other temporary buildings, establishments | | | 27 | | 36 | | 26 | 22 | 18 | 27 | 15 | 15 | 13 | 19 | 19 | 11 | 21 | 16 | 18 | 20 | 16 | 16 |
| explosive substance | | | 1 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| inflammable substance | | | 4 | | 1 | | 3 | 4 | 1 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 1 |
| inflammable gas | | | 3 | | 3 | | 4 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| harmful substance | | | 3 | | 1 | | 0 | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 0 | 1 |
| radiation | | | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| other hazards, harmful substances | | | 6 | | 3 | | 1 | 0 | 2 | 1 | 3 | 0 | 2 | 3 | 2 | 1 | 1 | 2 | 3 | 2 | 4 | 1 |
| metal material | | | 99 | | 58 | | 51 | 48 | 37 | 40 | 40 | 36 | 40 | 31 | 30 | 17 | 30 | 35 | 30 | 35 | 34 | 30 |
| lumber, bamboo | | | 30 | | 21 | | 25 | 18 | 21 | 6 | 18 | 11 | 15 | 11 | 9 | 8 | 15 | 9 | 15 | 4 | 13 | 11 |
| stone, sand, substance | | | 69 | | 40 | | 42 | 37 | 23 | 17 | 19 | 11 | 17 | 20 | 18 | 25 | 13 | 22 | 10 | 10 | 20 | 12 |
| other materials | | | 53 | | 33 | | 29 | 35 | 32 | 26 | 24 | 19 | 22 | 16 | 15 | 22 | 15 | 17 | 19 | 14 | 16 | 9 |
| load | | | 39 | | 25 | | 25 | 21 | 20 | 18 | 13 | 16 | 12 | 16 | 10 | 13 | 18 | 12 | 15 | 14 | 11 | 18 |
| machine/equipment as load | | | 8 | | 4 | | 5 | 1 | 3 | 4 | 3 | 4 | 5 | 3 | 8 | 0 | 2 | 4 | 1 | 2 | 3 | 3 |
| natural ground, rock | | | 128 | | 109 | | 80 | 75 | 51 | 57 | 47 | 42 | 49 | 50 | 56 | 44 | 48 | 35 | 41 | 40 | 36 | 41 |
| standing tree | | | 37 | | 37 | | 30 | 30 | 18 | 24 | 32 | 14 | 28 | 21 | 22 | 23 | 24 | 16 | 16 | 22 | 14 | 21 |
| water | | | 1 | | 3 | | 1 | 2 | 0 | 0 | 0 | 1 | 7 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| abnormal environment | | | 2 | | 1 | | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| high/cold temperature environment | | | 16 | | 7 | | 5 | 11 | 5 | 12 | 3 | 15 | 6 | 9 | 13 | 10 | 13 | 14 | 7 | 18 | 13 | 18 |
| other environments | | | 16 | | 16 | | 12 | 5 | 6 | 10 | 4 | 4 | 9 | 14 | 20 | 17 | 15 | 5 | 14 | 8 | 14 | 15 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| other causal agent | | | 11 | | 8 | | 7 | 7 | 3 | 3 | 3 | 3 | 6 | 1 | 4 | 3 | 2 | 4 | 5 | 5 | 1 | 5 |
| no causal agent | | | 16 | | 10 | | 13 | 10 | 12 | 12 | 12 | 19 | 20 | 10 | 16 | 11 | 12 | 11 | 17 | 16 | 10 | 17 |
| unclassifiable | | | 2 | | 0 | | 1 | 0 | 0 | 1 | 2 | 2 | 1 | 2 | 2 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| total | | | 1,754 | | 1,350 | | 1,233 | 1,029 | 902 | 930 | 868 | 768 | 821 | 794 | 792 | 806 | 767 | 709 | 744 | 695 | 743 | 747 |

Workers age of industrial accidents in road 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 | 68 | 49 | 35 | 37 | 29 | 15 | 19 | 15 | 12 | 13 | 15 | 13 | 13 | 10 | 21 | 20 | 16 | 13 | 18 | 12 | 15 | 12 |
| 20-29 | 291 | 276 | 268 | 251 | 201 | 166 | 155 | 124 | 89 | 100 | 81 | 65 | 64 | 84 | 79 | 76 | 78 | 72 | 86 | 62 | 73 | 74 |
| 30-39 | 207 | 208 | 177 | 183 | 194 | 191 | 185 | 162 | 155 | 151 | 150 | 141 | 155 | 156 | 130 | 139 | 96 | 79 | 94 | 95 | 78 | 82 |
| 40-49 | 337 | 325 | 298 | 276 | 212 | 229 | 208 | 165 | 143 | 148 | 137 | 148 | 131 | 132 | 143 | 154 | 146 | 148 | 156 | 139 | 147 | 149 |
| 50-59 | 566 | 506 | 535 | 412 | 414 | 385 | 377 | 319 | 284 | 301 | 251 | 219 | 220 | 195 | 185 | 171 | 196 | 154 | 140 | 150 | 169 | 163 |
| 60 years old or more | 618 | 541 | 441 | 349 | 300 | 296 | 289 | 244 | 219 | 217 | 234 | 182 | 238 | 217 | 234 | 246 | 235 | 243 | 250 | 237 | 261 | 267 |
| total | 2,087 | 1,905 | 1,754 | 1,508 | 1,350 | 1,282 | 1,233 | 1,029 | 902 | 930 | 868 | 768 | 821 | 794 | 792 | 806 | 767 | 709 | 744 | 695 | 743 | 747 |

Workers' number of workplace of industrial accidents in road 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 | 858 | 814 | 711 | 632 | 598 | 578 | 562 | 488 | 435 | 447 | 412 | 340 | 370 | 366 | 376 | 364 | 326 | 344 | 317 | 322 | 320 | 321 |
| 10-29 | 871 | 772 | 719 | 632 | 550 | 498 | 526 | 426 | 346 | 356 | 341 | 331 | 329 | 325 | 307 | 337 | 310 | 252 | 299 | 263 | 297 | 306 |
| 30-49 | 232 | 190 | 211 | 150 | 117 | 119 | 87 | 84 | 77 | 84 | 74 | 64 | 80 | 64 | 73 | 66 | 82 | 66 | 81 | 67 | 78 | 72 |
| 50-99 | 99 | 105 | 81 | 62 | 58 | 63 | 45 | 23 | 32 | 36 | 33 | 26 | 38 | 33 | 27 | 30 | 35 | 33 | 38 | 32 | 33 | 33 |
| 100-299 | 26 | 21 | 32 | 30 | 26 | 22 | 12 | 6 | 11 | 7 | 8 | 7 | 4 | 6 | 9 | 8 | 12 | 13 | 8 | 11 | 13 | 12 |
| 300 workers or more | 1 | 3 | 0 | 2 | 1 | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 2 | 3 |
| total | 2,087 | 1,905 | 1,754 | 1,508 | 1,350 | 1,282 | 1,233 | 1,029 | 902 | 930 | 868 | 768 | 821 | 794 | 792 | 806 | 767 | 709 | 744 | 695 | 743 | 747 |

Month of industrial accidents in road 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 | 191 | 178 | 125 | 140 | 126 | 129 | 106 | 96 | 80 | 84 | 79 | 56 | 92 | 72 | 78 | 84 | 72 | 42 | 61 | 62 | 57 | 58 |
| February | 214 | 223 | 157 | 149 | 135 | 162 | 121 | 119 | 100 | 122 | 89 | 88 | 65 | 84 | 63 | 79 | 71 | 82 | 68 | 71 | 63 | 71 |
| March | 196 | 199 | 217 | 162 | 162 | 144 | 135 | 95 | 102 | 104 | 88 | 96 | 81 | 91 | 70 | 76 | 56 | 65 | 58 | 57 | 74 | 63 |
| April | 135 | 121 | 141 | 104 | 83 | 85 | 79 | 70 | 51 | 53 | 56 | 36 | 47 | 52 | 58 | 52 | 50 | 45 | 58 | 39 | 36 | 51 |
| May | 149 | 138 | 99 | 99 | 70 | 74 | 67 | 77 | 52 | 54 | 62 | 55 | 43 | 60 | 53 | 61 | 44 | 51 | 66 | 45 | 50 | 54 |
| | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| June | 150 | 120 | 115 | 103 | 77 | 84 | 92 | 71 | 52 | 55 | 60 | 61 | 72 | 56 | 60 | 50 | 64 | 52 | 61 | 42 | 51 | 54 |
| July | 171 | 165 | 142 | 141 | 121 | 94 | 110 | 61 | 88 | 73 | 74 | 53 | 48 | 68 | 77 | 81 | 76 | 84 | 76 | 77 | 68 | 57 |
| August | 160 | 149 | 148 | 115 | 99 | 79 | 87 | 95 | 60 | 67 | 59 | 71 | 70 | 53 | 64 | 56 | 70 | 57 | 62 | 53 | 69 | 70 |
| September | 206 | 160 | 141 | 116 | 123 | 103 | 97 | 89 | 61 | 60 | 75 | 66 | 58 | 52 | 65 | 63 | 60 | 51 | 43 | 55 | 53 | 65 |
| October | 173 | 153 | 144 | 140 | 118 | 113 | 96 | 87 | 88 | 102 | 74 | 53 | 88 | 74 | 58 | 83 | 77 | 67 | 59 | 77 | 79 | 65 |
| November | 187 | 164 | 155 | 138 | 115 | 118 | 121 | 90 | 83 | 84 | 68 | 69 | 82 | 58 | 76 | 54 | 67 | 56 | 67 | 73 | 74 | 72 |
| December | 155 | 135 | 170 | 101 | 121 | 97 | 122 | 79 | 85 | 72 | 84 | 64 | 75 | 74 | 70 | 67 | 60 | 57 | 65 | 44 | 69 | 67 |
| total | 2,087 | 1,905 | 1,754 | 1,508 | 1,350 | 1,282 | 1,233 | 1,029 | 902 | 930 | 868 | 768 | 821 | 794 | 792 | 806 | 767 | 709 | 744 | 695 | 743 | 747 |

Prefecture of industrial accidents in road 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 | 114 | 119 | 114 | | 87 | | 82 | 50 | 44 | 46 | 42 | 39 | 51 | 35 | 57 | 53 | 40 | 39 | 40 | 45 | 42 | 48 |
| Aomori | 28 | 33 | 22 | | 28 | | 15 | 8 | 5 | 18 | 10 | 11 | 12 | 12 | 19 | 17 | 12 | 21 | 14 | 17 | 9 | 13 |
| Iwate | 37 | 37 | 30 | | 18 | | 13 | 12 | 14 | 14 | 15 | 11 | 13 | 14 | 16 | 18 | 14 | 9 | 21 | 26 | 28 | 19 |
| Miyagi | 33 | 17 | 24 | | 16 | | 15 | 17 | 20 | 16 | 11 | 13 | 20 | 19 | 16 | 14 | 13 | 12 | 7 | 16 | 27 | 24 |
| Akita | 28 | 14 | 16 | | 14 | | 16 | 16 | 9 | 23 | 17 | 13 | 15 | 9 | 8 | 15 | 20 | 12 | 11 | 10 | 16 | 19 |
| Yamagata | 25 | 34 | 26 | | 20 | | 7 | 9 | 14 | 7 | 6 | 11 | 11 | 6 | 7 | 18 | 13 | 9 | 15 | 10 | 11 | 3 |
| Fukushima | 29 | 35 | 30 | | 21 | | 25 | 24 | 21 | 36 | 31 | 27 | 26 | 26 | 17 | 30 | 25 | 20 | 28 | 11 | 14 | 18 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ibaraki | 41 | 22 | 21 | | 22 | | 29 | 10 | 15 | 20 | 19 | 20 | 15 | 17 | 17 | 16 | 17 | 17 | 24 | 18 | 6 | 19 |
| Tochigi | 36 | 36 | 18 | | 10 | | 19 | 8 | 7 | 13 | 16 | 11 | 10 | 10 | 9 | 7 | 9 | 7 | 5 | 3 | 8 | 10 |
| Gunma | 48 | 30 | 39 | | 16 | | 12 | 16 | 14 | 15 | 19 | 20 | 12 | 11 | 14 | 10 | 8 | 14 | 19 | 19 | 8 | 8 |
| Saitama | 50 | 42 | 49 | | 44 | | 47 | 32 | 27 | 41 | 34 | 22 | 23 | 27 | 17 | 35 | 25 | 13 | 24 | 21 | 21 | 24 |
| Chiba | 39 | 29 | 33 | | 22 | | 32 | 22 | 23 | 31 | 19 | 19 | 22 | 12 | 21 | 26 | 23 | 23 | 13 | 22 | 18 | 13 |
| Tokyo | 67 | 75 | 52 | | 63 | | 53 | 52 | 48 | 43 | 45 | 33 | 33 | 41 | 29 | 30 | 26 | 23 | 23 | 27 | 31 | 36 |
| Kanagawa | 49 | 58 | 50 | | 31 | | 37 | 34 | 30 | 34 | 25 | 28 | 35 | 20 | 22 | 29 | 26 | 22 | 20 | 22 | 20 | 21 |
| Niigata | 39 | 29 | 35 | | 19 | | 47 | 26 | 22 | 20 | 22 | 16 | 20 | 20 | 19 | 12 | 12 | 10 | 9 | 16 | 13 | 8 |
| Toyama | 25 | 22 | 31 | | 11 | | 11 | 10 | 12 | 9 | 18 | 7 | 7 | 18 | 5 | 15 | 5 | 5 | 9 | 4 | 11 | 10 |
| Ishikawa | 19 | 21 | 19 | | 22 | | 9 | 15 | 4 | 6 | 12 | 9 | 15 | 9 | 11 | 10 | 4 | 7 | 5 | 6 | 12 | 5 |
| Fukui | 30 | 25 | 36 | | 16 | | 7 | 9 | 8 | 13 | 6 | 6 | 17 | 11 | 11 | 12 | 10 | 2 | 5 | 6 | 5 | 5 |
| Yamanashi | 17 | 29 | 24 | | 21 | | 15 | 7 | 12 | 12 | 10 | 9 | 10 | 11 | 12 | 20 | 12 | 9 | 7 | 6 | 18 | 5 |
| Nagano | 63 | 54 | 38 | | 42 | | 28 | 15 | 17 | 16 | 28 | 21 | 18 | 23 | 16 | 23 | 22 | 24 | 20 | 20 | 21 | 24 |
| Gifu | 77 | 51 | 49 | | 60 | | 22 | 26 | 20 | 24 | 16 | 20 | 11 | 15 | 16 | 11 | 13 | 17 | 17 | 20 | 16 | 27 |
| Shizuoka | 74 | 75 | 62 | | 42 | | 38 | 42 | 34 | 32 | 26 | 22 | 39 | 30 | 21 | 15 | 28 | 17 | 20 | 25 | 22 | 25 |
| Aichi | 54 | 53 | 46 | | 38 | | 37 | 33 | 28 | 30 | 26 | 33 | 14 | 20 | 36 | 42 | 29 | 16 | 33 | 19 | 17 | 22 |
| Mie | 51 | 32 | 36 | | 22 | | 23 | 12 | 21 | 12 | 9 | 9 | 15 | 25 | 20 | 21 | 19 | 18 | 17 | 23 | 17 | 3 |
| Shiga | 12 | 16 | 10 | | 16 | | 10 | 4 | 10 | 11 | 6 | 3 | 7 | 3 | 1 | 4 | 7 | 2 | 2 | 3 | 3 | 4 |
| Kyoto | 32 | 19 | 19 | | 19 | | 12 | 10 | 8 | 7 | 10 | 3 | 14 | 11 | 13 | 12 | 13 | 10 | 12 | 12 | 10 | 7 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Osaka | 38 | 26 | 50 | | 35 | | 19 | 14 | 25 | 30 | 13 | 10 | 13 | 14 | 16 | 21 | 14 | 15 | 14 | 16 | 10 | 14 |
| Hyogo | 58 | 39 | 40 | | 45 | | 44 | 34 | 30 | 19 | 22 | 17 | 24 | 31 | 16 | 16 | 19 | 19 | 11 | 14 | 12 | 14 |
| Nara | 34 | 16 | 20 | | 23 | | 19 | 17 | 14 | 16 | 12 | 9 | 7 | 10 | 9 | 14 | 7 | 6 | 5 | 5 | 7 | 6 |
| Wakayama | 60 | 46 | 35 | | 43 | | 33 | 35 | 26 | 27 | 24 | 18 | 21 | 26 | 27 | 21 | 26 | 26 | 12 | 12 | 17 | 15 |
| Tottori | 9 | 8 | 11 | | 13 | | 10 | 11 | 4 | 6 | 6 | 6 | 12 | 5 | 7 | 2 | 9 | 10 | 11 | 6 | 6 | 10 |
| Shimane | 27 | 29 | 32 | | 24 | | 31 | 14 | 19 | 19 | 17 | 17 | 16 | 7 | 14 | 13 | 11 | 8 | 14 | 9 | 14 | 15 |
| Okayama | 63 | 49 | 51 | | 33 | | 28 | 23 | 13 | 17 | 15 | 17 | 11 | 15 | 23 | 18 | 12 | 10 | 8 | 9 | 16 | 6 |
| Hiroshima | 57 | 65 | 66 | | 44 | | 30 | 31 | 32 | 25 | 23 | 13 | 20 | 21 | 15 | 14 | 15 | 11 | 20 | 18 | 21 | 17 |
| Yamaguchi | 41 | 44 | 35 | | 22 | | 26 | 14 | 23 | 8 | 20 | 18 | 17 | 22 | 13 | 7 | 14 | 16 | 11 | 12 | 16 | 7 |
| Tokushima | 50 | 43 | 59 | | 26 | | 35 | 34 | 29 | 22 | 24 | 16 | 23 | 14 | 16 | 17 | 12 | 16 | 27 | 12 | 18 | 24 |
| Kagawa | 22 | 13 | 7 | | 15 | | 13 | 13 | 5 | 12 | 5 | 9 | 2 | 8 | 6 | 4 | 5 | 4 | 7 | 5 | 8 | 10 |
| Ehime | 88 | 89 | 74 | | 44 | | 41 | 38 | 27 | 19 | 23 | 18 | 11 | 16 | 21 | 13 | 12 | 17 | 18 | 26 | 15 | 15 |
| Kochi | 83 | 56 | 49 | | 30 | | 35 | 33 | 27 | 20 | 17 | 16 | 25 | 18 | 30 | 16 | 30 | 26 | 28 | 13 | 23 | 24 |
| Fukuoka | 91 | 98 | 71 | | 48 | | 57 | 49 | 33 | 36 | 38 | 26 | 33 | 34 | 35 | 24 | 32 | 24 | 25 | 27 | 22 | 23 |
| Saga | 15 | 27 | 19 | | 12 | | 11 | 12 | 3 | 9 | 3 | 13 | 12 | 10 | 10 | 14 | 14 | 10 | 15 | 4 | 7 | 8 |
| Nagasaki | 40 | 45 | 47 | | 24 | | 23 | 23 | 13 | 8 | 13 | 16 | 7 | 13 | 9 | 13 | 8 | 10 | 10 | 11 | 5 | 12 |
| Kumamoto | 40 | 39 | 42 | | 38 | | 32 | 24 | 23 | 16 | 30 | 24 | 17 | 19 | 21 | 13 | 14 | 23 | 28 | 19 | 21 | 24 |
| Oita | 50 | 41 | 28 | | 28 | | 29 | 16 | 14 | 15 | 9 | 13 | 18 | 11 | 12 | 15 | 17 | 16 | 19 | 20 | 14 | 16 |
| Miyazaki | 44 | 54 | 51 | | 15 | | 23 | 36 | 26 | 30 | 17 | 20 | 11 | 18 | 17 | 16 | 14 | 16 | 17 | 12 | 28 | 30 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kagoshima | 52 | 61 | 34 | | 44 | | 30 | 36 | 28 | 25 | 37 | 33 | 32 | 26 | 23 | 15 | 28 | 47 | 23 | 15 | 36 | 31 |
| Okinawa | 8 | 10 | 4 | | 4 | | 3 | 3 | 1 | 2 | 2 | 3 | 4 | 1 | 2 | 5 | 9 | 1 | 1 | 3 | 3 | 6 |
| total | 2,087 | 1,905 | 1,754 | | 1,350 | | 1,233 | 1,029 | 902 | 930 | 868 | 768 | 821 | 794 | 792 | 806 | 767 | 709 | 744 | 695 | 743 | 747 |

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 road construction work in Japan in 1999-2020

road construction work industry Code No.030106

Type of fatal accidents in road 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 | 32 | 16 | 18 | 20 | 21 | 13 | 19 | 12 | 8 | 7 | 3 | 10 | 10 | 12 | 10 | 5 | 4 | 7 | 4 | 8 | 6 | 5 |
| falling to same level | 4 | 4 | 1 | 3 | 3 | 0 | 1 | 3 | 1 | 0 | 1 | 1 | 1 | 0 | 4 | 1 | 2 | 1 | 1 | 1 | 1 | 0 |
| crash | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| struck by flying or falling object | 9 | 7 | 3 | 3 | 3 | 5 | 3 | 2 | 3 | 2 | 1 | 2 | 2 | 0 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | 0 |
| collapse | 7 | 11 | 8 | 10 | 5 | 7 | 5 | 7 | 2 | 2 | 4 | 3 | 2 | 1 | 9 | 3 | 1 | 3 | 4 | 1 | 2 | 3 |
| crashed by | 7 | 12 | 6 | 11 | 6 | 2 | 10 | 7 | 6 | 3 | 4 | 3 | 3 | 7 | 5 | 5 | 3 | 1 | 2 | 1 | 1 | 2 |
| caught in/between | 23 | 16 | 22 | 12 | 14 | 11 | 11 | 3 | 9 | 11 | 6 | 5 | 4 | 9 | 2 | 7 | 6 | 3 | 4 | 4 | 3 | 5 |
| cut | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 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 | 0 |
| drown | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| contact to high/low-temperature | 1 | 2 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |
| contact to harmful substance | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| burst | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| fire | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| traffic accident (public road) | 8 | 15 | 18 | 10 | 8 | 12 | 10 | 8 | 7 | 3 | 6 | 2 | 1 | 2 | 6 | 4 | 3 | 8 | 6 | 2 | 3 | 2 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| traffic accident (others) | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 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 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 4 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| unclassifiable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| total | 92 | 84 | 82 | 72 | 63 | 53 | 63 | 44 | 38 | 30 | 26 | 28 | 33 | 36 | 41 | 30 | 21 | 27 | 26 | 20 | 20 | 18 |

Causal agents (middle) of fatal accidents in road 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 | 1 | 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 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| construction machine | 34 | 27 | 21 | 23 | 28 | 14 | 18 | 16 | 13 | 11 | 10 | 12 | 9 | 10 | 11 | 9 | 5 | 6 | 6 | 8 | 3 | 7 |
| metal manufacturing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| machine | | | | | | | | | | | | | | | | | | | | | | |
| general machine | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| mobile silviculture machine | | | | | | | | | | | | | | | | | 1 | 1 | 2 | 0 | 1 | 0 |
| crane | 3 | 0 | 3 | 2 | 1 | 1 | 1 | 0 | 3 | 0 | 2 | 2 | 1 | 0 | 2 | 1 | 1 | 1 | 0 | 2 | 1 | 1 |
| conveying machine | 18 | 19 | 20 | 12 | 9 | 11 | 9 | 6 | 7 | 9 | 6 | 2 | 2 | 9 | 5 | 6 | 3 | 7 | 7 | 2 | 6 | 0 |
| vehicle | 4 | 6 | 9 | 8 | 4 | 6 | 10 | 3 | 3 | 1 | 1 | 1 | 0 | 1 | 3 | 3 | 1 | 4 | 1 | 2 | 1 | 2 |
| pressure vessel | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 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 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| human power machine, tools | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| tools | 1 | 3 | 2 | 2 | 5 | 1 | 4 | 2 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 1 |
| other equipments, facilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| temporary buildings, establishments | 11 | 6 | 6 | 6 | 5 | 5 | 4 | 7 | 2 | 1 | 2 | 3 | 2 | 3 | 5 | 2 | 2 | 0 | 4 | 3 | 3 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| hazards, harmful substances | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| materials | 3 | 1 | 1 | 1 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| load | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| natural environment | 15 | 20 | 17 | 17 | 11 | 12 | 11 | 9 | 8 | 7 | 5 | 6 | 13 | 9 | 13 | 8 | 5 | 7 | 3 | 2 | 4 | 4 |
| other causal agent | 0 | 0 | 1 | 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 | 1 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| unclassifiable | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| total | 92 | 84 | 82 | 72 | 63 | 53 | 63 | 44 | 38 | 30 | 26 | 28 | 33 | 36 | 41 | 30 | 21 | 27 | 26 | 20 | 20 | 18 |

Causal agents (small) of fatal accidents in road 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 | 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 | 1 | 0 | 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 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 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 | 5 | 3 | 2 | 1 | 3 | 2 | 4 | 3 | 4 | 1 | 2 | 1 | 1 | 0 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 |
| excavating machine | 21 | 16 | 13 | 12 | 16 | 6 | 8 | 5 | 8 | 5 | 5 | 3 | 4 | 7 | 7 | 3 | 1 | 2 | 2 | 3 | 0 | 2 |
| foundation work machine | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| hardening machine | 8 | 6 | 4 | 9 | 5 | 3 | 5 | 5 | 0 | 4 | 1 | 5 | 2 | 1 | 1 | 4 | 1 | 3 | 1 | 1 | 2 | 3 |
| demolition machine | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 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 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other construction | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| machines | 0 | 1 | 1 | 1 | 3 | 2 | 1 | 3 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| 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 | 1 | 0 | 1 | 0 | 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 |
| | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| felling machine | | | | | | | | | | | | | | | | | 0 | 1 | 0 | 0 | 1 | 0 |
| mobile logging machine | | | | | | | | | | | | | | | | | 1 | 0 | 2 | 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 | 1 | 0 |
| mobile crane | 3 | 0 | 3 | 2 | 1 | 1 | 1 | 0 | 3 | 0 | 2 | 2 | 1 | 0 | 2 | 1 | 1 | 1 | 0 | 2 | 0 | 1 |
| 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 cableway | 0 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| truck | 17 | 19 | 18 | 10 | 8 | 9 | 7 | 6 | 7 | 9 | 6 | 2 | 1 | 7 | 5 | 6 | 3 | 6 | 6 | 2 | 6 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 1 | 0 | 1 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| other powered conveying machines | 0 | 0 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| cars, bus, motorcycle | 4 | 6 | 9 | 8 | 4 | 6 | 10 | 3 | 3 | 1 | 1 | 1 | 0 | 1 | 3 | 3 | 1 | 4 | 1 | 2 | 1 | 2 |
| 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 | 1 | 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 |
| 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 | 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 | 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 | 1 | 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 | | | | | | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ladder | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| slinging tool | 1 | 2 | 1 | 1 | 1 | 1 | 3 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 1 |
| other tools | 0 | 1 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other equipment, facilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| scaffolding | 3 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| timbering | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| stairs, landing stage | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| opening | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| roof, beam, haze, crossbeam, principal rafter | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| working platform, boot board | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| passage | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| building, establishment | 5 | 4 | 4 | 3 | 2 | 2 | 1 | 4 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 2 | 0 | 2 | 0 | 2 | 0 |
| other temporary buildings, establishments | 2 | 0 | 1 | 1 | 0 | 2 | 1 | 3 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 2 | 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 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| inflammable gas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| harmful substance | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 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 | 0 | 0 |
| metal material | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| lumber, bamboo | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| stone, sand, substance | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other materials | 0 | 0 | 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 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 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 | 11 | 14 | 11 | 10 | 6 | 7 | 8 | 7 | 5 | 6 | 2 | 4 | 4 | 3 | 11 | 5 | 2 | 5 | 2 | 2 | 1 | 2 |
| standing tree | 2 | 4 | 1 | 6 | 0 | 2 | 2 | 1 | 3 | 0 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 0 | 0 | 2 | 1 |
| water | 0 | 1 | 1 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| abnormal environment | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| high/cold temperature environment | 1 | 1 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |
| other environments | 1 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other causal agent | 0 | 0 | 1 | 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 | 1 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| unclassifiable | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| total | 92 | 84 | 82 | 72 | 63 | 53 | 63 | 44 | 38 | 30 | 26 | 28 | 33 | 36 | 41 | 30 | 21 | 27 | 26 | 20 | 20 | 18 |

Workers age of fatal accidents in road 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 | 1 | 2 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20-29 | 3 | 7 | 9 | 10 | 7 | 2 | 7 | 5 | 5 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 6 | 0 | 2 | 1 |
| 30-39 | 7 | 3 | 7 | 5 | 6 | 7 | 5 | 9 | 5 | 1 | 3 | 5 | 1 | 5 | 6 | 5 | 1 | 5 | 2 | 5 | 2 | 2 |
| 40-49 | 20 | 14 | 8 | 9 | 9 | 8 | 9 | 6 | 5 | 9 | 2 | 1 | 8 | 6 | 5 | 3 | 3 | 3 | 3 | 1 | 1 | 6 |
| 50-59 | 26 | 21 | 31 | 24 | 26 | 19 | 27 | 16 | 7 | 12 | 8 | 10 | 8 | 10 | 6 | 12 | 7 | 6 | 5 | 2 | 6 | 3 |
| 60 years old or more | 36 | 38 | 25 | 24 | 13 | 17 | 14 | 8 | 15 | 6 | 11 | 10 | 14 | 11 | 19 | 9 | 9 | 11 | 10 | 12 | 9 | 6 |
| total | 92 | 84 | 82 | 72 | 63 | 53 | 63 | 44 | 38 | 30 | 26 | 28 | 33 | 36 | 41 | 30 | 21 | 27 | 26 | 20 | 20 | 18 |

Workers' number of workplace of fatal accidents in road 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 | 27 | 27 | 32 | 24 | 14 | 23 | 28 | 23 | 15 | 7 | 11 | 11 | 12 | 17 | 10 | 9 | 9 | 11 | 8 | 9 | 8 | 8 |
| 10-29 | 35 | 33 | 28 | 29 | 33 | 23 | 25 | 14 | 17 | 15 | 7 | 13 | 10 | 14 | 20 | 15 | 9 | 13 | 11 | 6 | 8 | 9 |
| 30-49 | 21 | 12 | 11 | 11 | 14 | 2 | 6 | 6 | 4 | 6 | 7 | 3 | 9 | 2 | 1 | 4 | 2 | 2 | 5 | 4 | 3 | 1 |
| 50-99 | 6 | 9 | 6 | 6 | 2 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 3 | 4 | 2 | 1 | 1 | 2 | 1 | 1 | 0 |
| 100-299 | 3 | 3 | 4 | 2 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 300 workers or more | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| total | 92 | 84 | 82 | 72 | 63 | 53 | 63 | 44 | 38 | 30 | 26 | 28 | 33 | 36 | 41 | 30 | 21 | 27 | 26 | 20 | 20 | 18 |

Month of fatal accidents in road 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 | 9 | 9 | 7 | 9 | 5 | 2 | 7 | 5 | 2 | 2 | 0 | 3 | 3 | 2 | 5 | 1 | 4 | 2 | 3 | 0 | 2 | 0 |
| February | 7 | 13 | 5 | 5 | 6 | 6 | 6 | 7 | 3 | 6 | 4 | 5 | 3 | 4 | 1 | 3 | 2 | 1 | 1 | 3 | 3 | 0 |
| March | 12 | 7 | 11 | 14 | 5 | 6 | 10 | 2 | 2 | 4 | 2 | 2 | 9 | 1 | 2 | 0 | 1 | 3 | 0 | 3 | 1 | 1 |
| April | 7 | 5 | 6 | 5 | 7 | 1 | 1 | 2 | 4 | 0 | 0 | 1 | 2 | 1 | 3 | 4 | 3 | 2 | 0 | 1 | 0 | 1 |
| May | 6 | 4 | 5 | 4 | 2 | 3 | 3 | 1 | 2 | 0 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 0 | 6 | 1 | 3 | 2 |
| June | 6 | 6 | 6 | 3 | 6 | 4 | 6 | 1 | 3 | 1 | 6 | 1 | 2 | 4 | 3 | 3 | 1 | 1 | 2 | 2 | 0 | 2 |
| July | 5 | 7 | 5 | 5 | 5 | 3 | 3 | 6 | 4 | 4 | 0 | 5 | 0 | 7 | 7 | 4 | 0 | 3 | 2 | 3 | 3 | 0 |
| August | 7 | 9 | 11 | 5 | 9 | 3 | 6 | 6 | 1 | 2 | 1 | 3 | 3 | 2 | 2 | 4 | 2 | 3 | 1 | 0 | 1 | 2 |
| September | 12 | 4 | 7 | 5 | 5 | 9 | 2 | 3 | 2 | 1 | 2 | 1 | 2 | 3 | 5 | 2 | 2 | 2 | 0 | 1 | 2 | 2 |
| October | 7 | 6 | 4 | 2 | 5 | 4 | 5 | 3 | 8 | 5 | 3 | 1 | 5 | 4 | 3 | 3 | 2 | 3 | 5 | 5 | 2 | 2 |
| November | 8 | 8 | 7 | 8 | 5 | 6 | 7 | 2 | 2 | 1 | 2 | 1 | 2 | 5 | 5 | 2 | 2 | 3 | 4 | 1 | 0 | 3 |
| December | 6 | 6 | 8 | 7 | 3 | 6 | 7 | 6 | 5 | 4 | 3 | 3 | 1 | 2 | 4 | 3 | 0 | 4 | 2 | 0 | 3 | 3 |
| total | 92 | 84 | 82 | 72 | 63 | 53 | 63 | 44 | 38 | 30 | 26 | 28 | 33 | 36 | 41 | 30 | 21 | 27 | 26 | 20 | 20 | 18 |

Prefecture of fatal accidents in road 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 | 10 | 9 | 4 | 3 | 7 | 7 | 4 | 2 | 1 | 2 | 0 | 2 | 1 | 4 | 4 | 1 | 1 | 2 | 1 | 0 | 2 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aomori | 0 | 2 | 2 | 2 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Iwate | 1 | 3 | 1 | 2 | 3 | 1 | 2 | 0 | 1 | 2 | 1 | 0 | 3 | 0 | 1 | 2 | 1 | 0 | 0 | 2 | 2 | 0 |
| Miyagi | 4 | 1 | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 5 | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 1 |
| Akita | 3 | 0 | 2 | 0 | 0 | 2 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 5 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| Yamagata | 4 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 0 |
| Fukushima | 1 | 1 | 3 | 3 | 2 | 0 | 4 | 2 | 0 | 0 | 5 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 2 | 0 | 0 | 0 |
| Ibaraki | 0 | 0 | 2 | 1 | 0 | 2 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 2 | 0 | 0 | 0 | 1 |
| Tochigi | 2 | 6 | 1 | 1 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Gunma | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Saitama | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 3 | 1 | 1 | 0 |
| Chiba | 1 | 2 | 2 | 0 | 1 | 1 | 2 | 1 | 3 | 1 | 2 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Tokyo | 1 | 3 | 2 | 1 | 2 | 0 | 3 | 1 | 1 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| Kanagawa | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| Niigata | 3 | 1 | 2 | 2 | 0 | 0 | 4 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Toyama | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ishikawa | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 |
| Fukui | 4 | 1 | 1 | 3 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 1 |
| Yamanashi | 0 | 2 | 2 | 1 | 2 | 1 | 0 | 1 | 1 | 3 | 1 | 0 | 1 | 0 | 1 | 2 | 0 | 1 | 1 | 0 | 1 | 0 |
| Nagano | 2 | 4 | 1 | 2 | 2 | 0 | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 2 | 1 | 2 | 1 | 1 | 1 | 0 | 0 | 0 |

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| Gifu | 3 | 1 | 2 | 2 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 1 |
| Shizuoka | 0 | 4 | 2 | 3 | 1 | 2 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 |
| Aichi | 0 | 0 | 4 | 2 | 1 | 5 | 2 | 6 | 1 | 1 | 0 | 3 | 0 | 0 | 3 | 2 | 1 | 0 | 3 | 1 | 0 | 3 |
| Mie | 4 | 2 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Shiga | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kyoto | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Osaka | 2 | 0 | 1 | 3 | 2 | 0 | 2 | 2 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 2 |
| Hyogo | 1 | 2 | 0 | 3 | 1 | 2 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 2 | 1 | 0 | 0 | 1 | 1 | 1 |
| Nara | 2 | 0 | 3 | 1 | 0 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| Wakayama | 2 | 0 | 2 | 1 | 1 | 1 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 2 |
| Tottori | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 |
| Shimane | 3 | 0 | 1 | 1 | 3 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Okayama | 0 | 4 | 1 | 2 | 0 | 1 | 2 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| Hiroshima | 1 | 0 | 3 | 0 | 1 | 1 | 2 | 0 | 1 | 0 | 1 | 2 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| Yamaguchi | 1 | 5 | 3 | 1 | 0 | 1 | 3 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 |
| Tokushima | 4 | 0 | 4 | 1 | 1 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| Kagawa | 1 | 0 | 0 | 1 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Ehime | 1 | 6 | 3 | 5 | 5 | 2 | 1 | 1 | 1 | 0 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 1 | 3 | 4 | 0 | 1 |
| Kochi | 3 | 2 | 4 | 4 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 0 | 0 | 2 | 0 |

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| Fukuoka | 5 | 3 | 2 | 4 | 4 | 3 | 1 | 1 | 0 | 2 | 1 | 1 | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| Saga | 0 | 3 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Nagasaki | 3 | 1 | 2 | 2 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kumamoto | 3 | 1 | 2 | 1 | 2 | 3 | 0 | 2 | 2 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Oita | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 0 | 1 | 1 |
| Miyazaki | 3 | 3 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 1 |
| Kagoshima | 4 | 2 | 1 | 4 | 1 | 3 | 4 | 1 | 3 | 1 | 0 | 3 | 1 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 |
| Okinawa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| total | 92 | 84 | 82 | 72 | 63 | 53 | 63 | 44 | 38 | 30 | 26 | 28 | 33 | 36 | 41 | 30 | 21 | 27 | 26 | 20 | 20 | 18 |

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