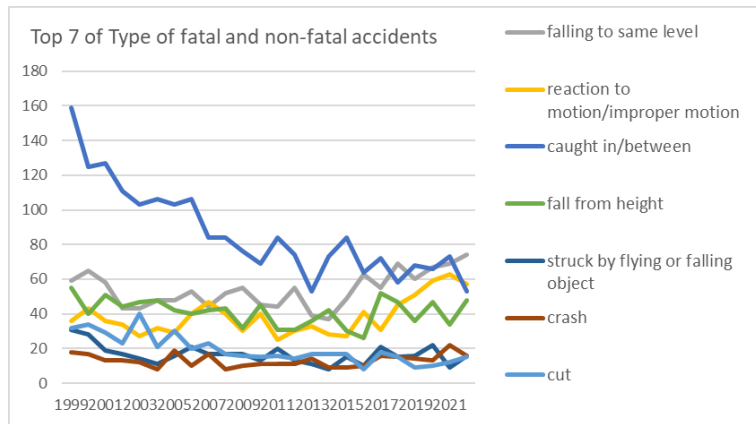
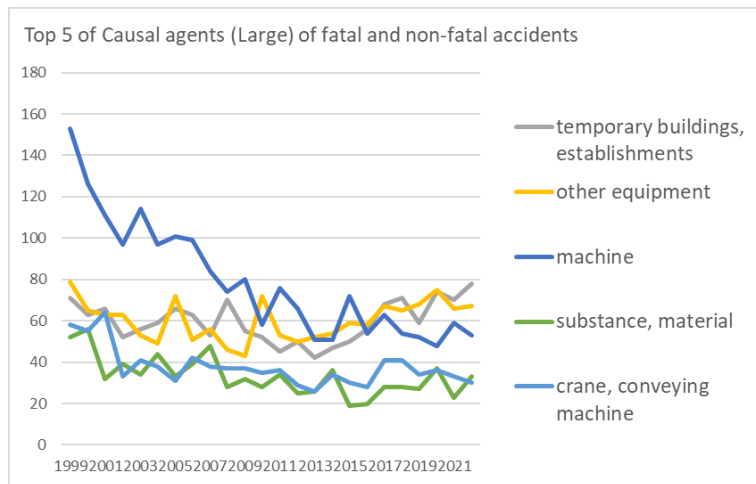


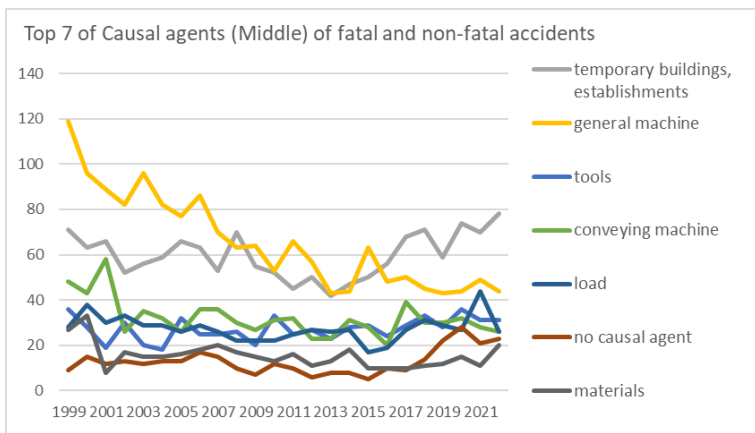
Transition of fatal and non-fatal accidents in 010899 other chemical products in Japan (1999-2022)



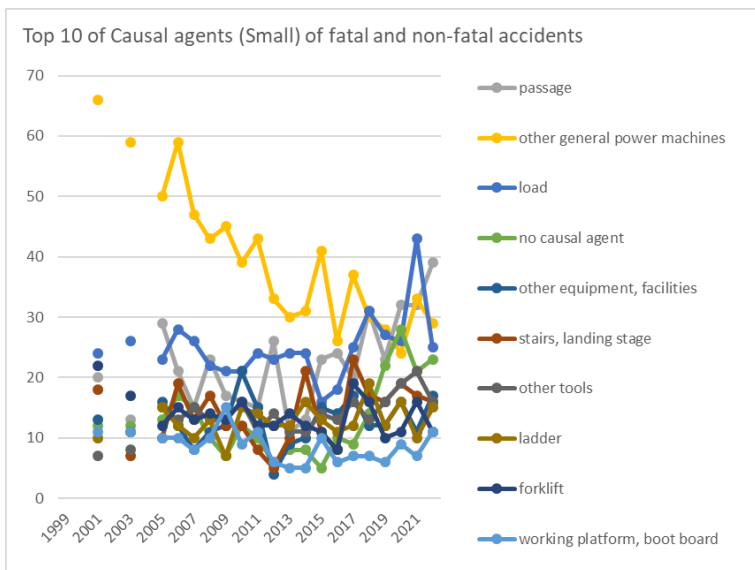
Transition of Top 7 of Type of fatal and non-fatal accidents in 010899 other chemical products in Japan (1999-2022)



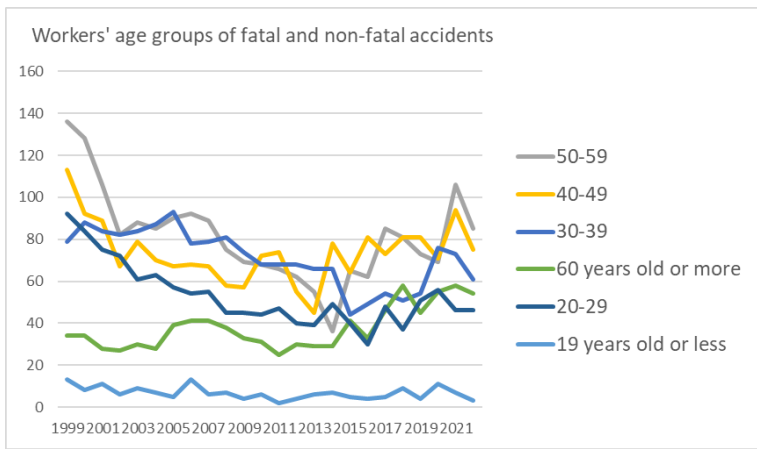
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 010899 other chemical products in Japan (1999-2022)



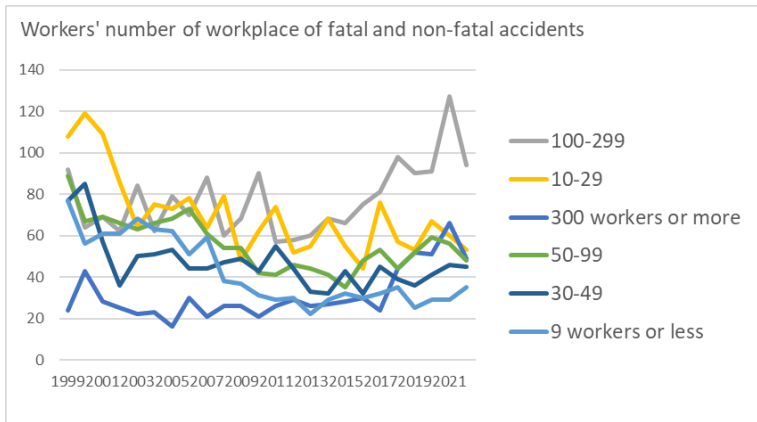
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 010899 other chemical products in Japan (1999-2022)



Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 010899 other chemical products in Japan (1999-2022)



Transition of workers' age groups of fatal and non-fatal accidents in 010899 other chemical products in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 010899 other chemical products in Japan (1999-2022)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|------------------------------------|
| motion/improper motion | 36 | 43 | 36 | 34 | 27 | 32 | 29 | 40 | 47 | 40 | 30 | 40 | 25 | 30 | 33 | 28 | 27 | 41 | 31 | 45 | 51 | 59 | 63 | 57 | 924 | motion/improper motion |
| caught in/between | 159 | 125 | 127 | 111 | 103 | 106 | 103 | 106 | 84 | 84 | 76 | 69 | 84 | 74 | 53 | 73 | 84 | 64 | 72 | 58 | 68 | 66 | 73 | 53 | 2,075 | caught in/between |
| fall from height | 55 | 40 | 51 | 44 | 47 | 48 | 42 | 40 | 42 | 43 | 32 | 45 | 31 | 31 | 36 | 42 | 30 | 26 | 52 | 47 | 36 | 47 | 34 | 48 | 989 | fall from height |
| struck by flying or falling object | 31 | 28 | 19 | 17 | 14 | 11 | 16 | 21 | 17 | 17 | 17 | 13 | 20 | 13 | 11 | 8 | 15 | 10 | 21 | 15 | 16 | 22 | 9 | 16 | 397 | struck by flying or falling object |
| crash | 18 | 17 | 13 | 13 | 12 | 8 | 19 | 10 | 17 | 8 | 10 | 11 | 11 | 11 | 14 | 9 | 9 | 10 | 16 | 15 | 14 | 13 | 22 | 16 | 316 | crash |
| cut | 32 | 34 | 29 | 23 | 40 | 21 | 30 | 20 | 23 | 17 | 16 | 15 | 16 | 14 | 17 | 17 | 17 | 8 | 18 | 15 | 9 | 10 | 12 | 15 | 468 | cut |
| contact to high/low-temperature | 23 | 25 | 11 | 9 | 17 | 14 | 16 | 9 | 10 | 16 | 9 | 13 | 14 | 6 | 13 | 13 | 4 | 10 | 12 | 11 | 16 | 16 | 9 | 12 | 308 | contact to high/low-temperature |
| contact to harmful substance | 7 | 13 | 14 | 13 | 12 | 18 | 15 | 15 | 10 | 7 | 11 | 10 | 11 | 6 | 6 | 12 | 9 | 7 | 9 | 11 | 11 | 16 | 11 | 10 | 264 | contact to harmful substance |
| crashed by | 15 | 17 | 15 | 15 | 16 | 13 | 12 | 14 | 11 | 6 | 9 | 15 | 13 | 7 | 4 | 9 | 6 | 8 | 13 | 12 | 10 | 7 | 10 | 8 | 265 | crashed by |
| others | 4 | 2 | 2 | | 1 | 3 | 3 | | 8 | | 3 | | | 1 | 1 | 2 | | 3 | 1 | 1 | 3 | 3 | 62 | 7 | 110 | others |
| traffic accident (public road) | 5 | 5 | 2 | 2 | 5 | 4 | 4 | 3 | 1 | 4 | 7 | 3 | 1 | 3 | 2 | 3 | 2 | 3 | | 6 | 3 | 1 | 2 | 3 | 74 | traffic accident (public road) |
| collapse | 9 | 11 | 3 | 1 | 4 | 8 | 8 | 8 | 6 | 5 | 2 | 2 | 4 | | 5 | 6 | 2 | 3 | 3 | 4 | 4 | 5 | 4 | 2 | 109 | collapse |
| injury to the sole of the foot | 2 | | 2 | 2 | | | 1 | | | | | | | | | | 1 | 1 | | | | | | 2 | 11 | injury to the sole of the foot |
| explosion | 4 | 3 | 2 | 8 | 2 | 5 | 4 | 4 | 11 | | 1 | 5 | 6 | 5 | 2 | 2 | 2 | 1 | 5 | 5 | 3 | 1 | 2 | 1 | 84 | explosion |
| fire | 4 | 3 | 4 | | 1 | 1 | | 1 | 3 | 3 | 1 | 2 | 1 | 1 | 1 | | | | | 1 | 1 | 3 | 1 | | 32 | fire |
| unclassifiable | 1 | 2 | 2 | | 2 | | 1 | | | 1 | | 1 | | 1 | 2 | 2 | 1 | | | 1 | 1 | 1 | | | 19 | unclassifiable |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|------------------------------|
| burst | 2 | | 1 | | 4 | | | 1 | 2 | 1 | 1 | | | | | 1 | | 1 | 2 | | 1 | | | | | 17 | burst |
| electric shock | | | 1 | 1 | 1 | | | 1 | | | 1 | | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | | | | | 12 | electric shock |
| traffic accident (others) | 1 | 1 | 1 | | | | | | 1 | | 1 | | | | | | | | 1 | | | 1 | | | | 7 | traffic accident (others) |
| drown | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | drown |
| total | 467 | 434 | 393 | 336 | 351 | 340 | 351 | 346 | 337 | 304 | 282 | 289 | 282 | 259 | 240 | 265 | 259 | 259 | 311 | 317 | 308 | 338 | 384 | 324 | 7,776 | total | |

Transition of Causal agents (Large) of fatal and non-fatal accidents in 010899 other chemical products in Japan (1999-2022)

| 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 | 2022 | total | Causal (L) agents |
|-------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------------------------------------|
| temporary buildings, establishments | 71 | 63 | 66 | 52 | 56 | 59 | 66 | 63 | 53 | 70 | 55 | 52 | 45 | 50 | 42 | 47 | 50 | 56 | 68 | 71 | 59 | 74 | 70 | 78 | 1,436 | temporary buildings, establishments |
| other equipment | 79 | 65 | 63 | 63 | 53 | 49 | 72 | 51 | 56 | 46 | 43 | 72 | 53 | 50 | 52 | 54 | 59 | 58 | 67 | 65 | 68 | 75 | 66 | 67 | 1,446 | other equipment |
| machine | 153 | 126 | 111 | 97 | 114 | 97 | 101 | 99 | 84 | 74 | 80 | 58 | 76 | 66 | 51 | 51 | 72 | 54 | 63 | 54 | 52 | 48 | 59 | 53 | 1,893 | machine |
| substance, material | 52 | 56 | 32 | 39 | 34 | 44 | 33 | 39 | 48 | 28 | 32 | 28 | 34 | 25 | 26 | 36 | 19 | 20 | 28 | 28 | 27 | 37 | 23 | 33 | 801 | substance, material |
| crane, conveying machine | 58 | 55 | 64 | 33 | 41 | 38 | 31 | 42 | 38 | 37 | 37 | 35 | 36 | 29 | 26 | 34 | 30 | 28 | 41 | 41 | 34 | 36 | 33 | 30 | 907 | crane, conveying machine |
| others | 20 | 24 | 22 | 15 | 18 | 20 | 19 | 19 | 29 | 17 | 12 | 16 | 11 | 7 | 13 | 12 | 10 | 17 | 14 | 20 | 29 | 30 | 84 | 29 | 507 | others |
| load | 28 | 38 | 30 | 33 | 29 | 29 | 26 | 29 | 26 | 22 | 22 | 22 | 25 | 27 | 26 | 27 | 17 | 19 | 27 | 31 | 29 | 27 | 44 | 26 | 659 | load |
| environment | 6 | 7 | 5 | 4 | 6 | 4 | 3 | 4 | 3 | 10 | 1 | 6 | 2 | 5 | 4 | 4 | 2 | 7 | 3 | 7 | 10 | 11 | 5 | 8 | 127 | environment |
| total | 467 | 434 | 393 | 336 | 351 | 340 | 351 | 346 | 337 | 304 | 282 | 289 | 282 | 259 | 240 | 265 | 259 | 259 | 311 | 317 | 308 | 338 | 384 | 324 | 7,776 | total |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|----|----|----|---|----|---|----|---|----|----|---|---|---|---|---|---|---|---|---|---|----|----|----|---|-----|-----------------------------|------------------------------|
| natural environment | 6 | 7 | 5 | 4 | 6 | 4 | 3 | 4 | 3 | 10 | 1 | 6 | 2 | 5 | 4 | 4 | 2 | 7 | 3 | 7 | 10 | 11 | 5 | 8 | 127 | environment | |
| other causal agent | 8 | 6 | 7 | 2 | 6 | 6 | 5 | 2 | 11 | 6 | 5 | 4 | 1 | | 4 | 2 | 4 | 6 | 5 | 5 | 7 | 2 | 63 | 6 | 173 | other causal agent | |
| metal manufacturing machine | 18 | 18 | 10 | 9 | 10 | 6 | 10 | 4 | 6 | 6 | 7 | 1 | 6 | 3 | 2 | 2 | 5 | 4 | 8 | 6 | 5 | 3 | 5 | 5 | 159 | metal manufacturing machine | |
| vehicle | 5 | 7 | 3 | 4 | 5 | 5 | 4 | 3 | 2 | 4 | 5 | 2 | 1 | 4 | 1 | 1 | 1 | 7 | 1 | 9 | 3 | 3 | 2 | 4 | 86 | vehicle | |
| chemical facilities | 5 | 3 | 2 | 2 | 4 | 5 | 3 | 2 | 3 | | | 2 | | 1 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 59 | chemical facilities | |
| woodworking machine | 8 | 3 | 3 | 1 | 5 | 2 | 6 | 3 | 3 | 1 | 2 | 1 | | | 1 | 3 | | | 1 | 1 | 1 | | 1 | 2 | 48 | woodworking machine | |
| power transmission mechanism | 6 | 7 | 7 | 4 | 2 | 5 | 5 | 4 | 3 | 2 | 5 | 3 | 2 | 3 | 4 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 1 | 79 | power transmission mechanism |
| kiln, caldron | 2 | 1 | 4 | 1 | | 1 | 1 | | | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | 2 | | 1 | 2 | 2 | 2 | 2 | 1 | 28 | kiln, caldron |
| construction machine | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 1 | 2 | 2 | | 2 | 2 | | 1 | 1 | | 2 | | 1 | | | 1 | 27 | construction machine | |
| electric equipment | | | 3 | 1 | 1 | 1 | 1 | | 1 | | 3 | | | 1 | 4 | | 1 | 1 | | | 1 | | 1 | 1 | 21 | electric equipment | |
| crane | 5 | 5 | 3 | 3 | 1 | 1 | 1 | 3 | | 3 | 5 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 3 | | 51 | crane | |
| pressure vessel | 1 | 3 | 1 | 4 | | 1 | 1 | | 1 | 1 | 1 | 3 | | 1 | 2 | | 1 | | 3 | | 1 | | 1 | | 26 | pressure vessel | |
| unclassifiable | 3 | 3 | 3 | | | 1 | 1 | | 3 | 1 | | | | 1 | 1 | 2 | 1 | 1 | | 1 | | | | | 22 | unclassifiable | |
| engine | | 1 | 1 | | | 1 | | | 1 | | | | | 1 | 1 | | | | | | | | 1 | | 7 | engine | |
| welding equipment | | | | | | 1 | | | | | | 1 | | 1 | | | | | | 2 | | | | | 5 | welding equipment | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|----|--|----|--|----|----|----|----|---|---|----|----|----|----|----|----|----|---|----|----|----|---|-----|---|
| metal material | | | 6 | | 6 | | 5 | 8 | 7 | 9 | 5 | 2 | 5 | 4 | 4 | 5 | | 5 | 5 | 2 | 5 | 5 | 3 | 8 | 99 | metal material |
| conveyor | | | 22 | | 10 | | 9 | 11 | 12 | 11 | 4 | 7 | 15 | 4 | 3 | 10 | 10 | 9 | 10 | 9 | 7 | 8 | 6 | 7 | 184 | conveyor |
| harmful substance | | | 9 | | 7 | | 10 | 10 | 8 | 5 | 9 | 5 | 7 | 5 | 4 | 10 | 5 | 4 | 5 | 5 | 7 | 13 | 5 | 7 | 140 | harmful substance |
| truck | | | 11 | | 6 | | 5 | 10 | 9 | 2 | 7 | 6 | 5 | 5 | 5 | 7 | 3 | 3 | 7 | 4 | 12 | 10 | 5 | 7 | 129 | truck |
| building, establishment | | | 7 | | 9 | | 8 | 8 | 10 | 11 | 5 | 5 | 6 | 10 | 10 | 4 | 3 | 13 | 12 | 8 | 6 | 8 | 8 | 6 | 157 | building, establishment |
| human power hauling equipment | | | 9 | | 12 | | 6 | 3 | 10 | 2 | 3 | 5 | 8 | 8 | 6 | 7 | 5 | 11 | 9 | 9 | 19 | 9 | 9 | 6 | 156 | human power hauling equipment |
| other causal agent | | | 7 | | 6 | | 5 | 2 | 11 | 6 | 5 | 4 | 1 | | 4 | 2 | 4 | 6 | 5 | 5 | 7 | 2 | 63 | 6 | 151 | other causal agent |
| hand tool | | | 12 | | 5 | | 12 | 9 | 8 | 5 | 3 | 5 | 3 | 6 | 5 | 5 | 3 | 4 | 4 | 4 | 3 | 7 | 5 | 5 | 113 | hand tool |
| high/cold temperature environment | | | 1 | | 1 | | | 1 | 1 | 4 | 1 | 1 | 2 | 1 | 1 | 2 | | 2 | 1 | 1 | 7 | 6 | 2 | 5 | 40 | high/cold temperature environment |
| other temporary buildings, establishments | | | 7 | | 11 | | 5 | 3 | 5 | 5 | 4 | 7 | 3 | 1 | 5 | 3 | 2 | 5 | 5 | 5 | 7 | 2 | 6 | 4 | 95 | other temporary buildings, establishments |
| cars, bus, motorcycle | | | 3 | | 5 | | 4 | 3 | 2 | 4 | 5 | 2 | 1 | 3 | 1 | 1 | 1 | 7 | 1 | 8 | 3 | 3 | 2 | 4 | 63 | cars, bus, motorcycle |
| mixer, grinder | | | 5 | | 18 | | 5 | 13 | 6 | 7 | 7 | 3 | 6 | 10 | 3 | 6 | 8 | 5 | 8 | 4 | 9 | 5 | 8 | 3 | 139 | mixer, grinder |
| other hazards, harmful substances | | | 8 | | 6 | | 3 | 6 | 9 | 4 | 4 | 3 | 5 | 4 | 4 | 4 | 3 | 5 | 10 | 7 | 5 | 7 | 4 | 3 | 104 | other hazards, harmful substances |
| chemical facilities | | | 2 | | 4 | | 3 | 2 | 3 | | | 2 | | 1 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 44 | chemical facilities |
| other environments | | | 4 | | 2 | | 1 | 2 | 1 | 3 | | 2 | | 4 | 2 | 1 | 1 | 4 | 1 | 6 | 1 | 2 | 1 | 3 | 41 | other environments |
| explosive substance | | | 2 | | 5 | | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | | 1 | | 3 | 1 | 1 | 2 | 3 | 34 | explosive substance |
| printing machine | | | 3 | | 1 | | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 2 | | 1 | 1 | 3 | 30 | printing machine |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|---|--|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----------------------------------|
| human power cranes | | | | | | | | | | | | | | | | | | 1 | | | 2 | 3 | 3 | 9 | human power cranes | |
| circular sawing machine | | | 2 | | 3 | | 4 | 2 | 2 | 1 | 1 | 1 | | | 3 | | | 1 | 1 | 1 | | 1 | 2 | 25 | circular sawing machine | |
| lumber, bamboo | | | | | 1 | | 1 | 2 | 2 | | 1 | 1 | 1 | | 1 | 1 | | | 1 | | 1 | 2 | 2 | 17 | lumber, bamboo | |
| power transmission mechanism | | | 7 | | 2 | | 5 | 4 | 3 | 2 | 5 | 3 | 2 | 3 | 4 | 1 | 3 | 2 | 2 | 2 | 2 | 1 | 3 | 1 | 57 | power transmission mechanism |
| other metal manufacturing machines | | | 7 | | 1 | | 5 | 1 | 2 | 2 | 2 | | 3 | 1 | | 2 | | 2 | 1 | | 3 | 2 | 1 | 35 | other metal manufacturing machines | |
| machine/equipment as load | | | 6 | | 3 | | 3 | 1 | | | 1 | 1 | 1 | 4 | 2 | 3 | 1 | 1 | 2 | | 2 | 1 | 1 | 1 | 34 | machine/equipment as load |
| other powered conveying machines | | | 3 | | 2 | | | | 2 | 1 | 2 | 2 | | 1 | 1 | 2 | 4 | | 3 | 1 | 1 | 3 | 1 | 1 | 30 | other powered conveying machines |
| power press | | | | | 3 | | 2 | | | 2 | 4 | 1 | | 2 | 1 | 1 | | 3 | 1 | 3 | 2 | | 2 | 1 | 28 | power press |
| roof, beam, haze, crossbeam, principal rafter | | | 1 | | 4 | | 2 | 1 | | 3 | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | | 3 | | 1 | 22 | roof, beam, haze, crossbeam, principal rafter | |
| lathe | | | | | 2 | | 1 | 2 | | 1 | 1 | | 1 | | | 2 | | 3 | | 1 | | 1 | 1 | 16 | lathe | |
| opening | | | 1 | | | | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | | | | 1 | 1 | 1 | | 1 | 12 | opening |
| grinding machine, buffing machine | | | 1 | | 1 | | 1 | | 1 | 1 | | | 1 | | 1 | | | 1 | 1 | | | | | 1 | 10 | grinding machine, buffing machine |
| transmission | | | 1 | | | | | | 1 | | 3 | | | | 3 | | | 1 | | | | | | 1 | 10 | transmission |
| drill press, milling machine | | | 1 | | 1 | | | | 1 | 1 | | | | | | | | | | 1 | 1 | | | 1 | 7 | drill press, milling machine |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|---|--|---|--|---|---|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|---|
| centrifugal machine | | | | | | | | 1 | | | | | | | | | 1 | | 4 | | | | 1 | 7 | centrifugal machine | |
| vehicle for high lift work | | | | | | | | | | | | | 1 | | | | | | | | | | 1 | 2 | vehicle for high lift work | |
| other kiln, caldron | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 2 | other kiln, caldron | |
| inflammable substance | | | 5 | | 1 | | 1 | 3 | 10 | 1 | 3 | 4 | 4 | 4 | 2 | 2 | | | 3 | 1 | 2 | 1 | 1 | | 48 | inflammable substance |
| injection molding machine | | | 1 | | 2 | | 3 | 2 | 6 | 3 | 3 | 4 | 1 | 2 | 2 | | | 2 | 2 | 1 | | 1 | 2 | | 37 | injection molding machine |
| crane | | | 1 | | 1 | | | 2 | | 1 | 2 | 2 | 3 | | 2 | | 1 | 1 | | 1 | 1 | | 3 | | 21 | crane |
| kiln, caldron | | | 4 | | | | | | | 1 | | 1 | 1 | | 1 | 1 | | 2 | | 1 | 1 | 1 | 1 | | 15 | kiln, caldron |
| unclassifiable | | | 3 | | | | 1 | | 3 | 1 | | | | 1 | 1 | 2 | 1 | 1 | | 1 | | | | | 15 | unclassifiable |
| slinging tool | | | 2 | | 1 | | 2 | | | | | 2 | | 1 | | 1 | 2 | | 1 | 1 | | 1 | | | 14 | slinging tool |
| shearing machine | | | 1 | | 2 | | 1 | | 2 | | | | 1 | | | 1 | 1 | | 1 | 1 | 1 | | | | 12 | shearing machine |
| water | | | | | 2 | | 2 | | 1 | 2 | | | | | | 1 | 1 | | | | 1 | 2 | | | 12 | water |
| pressure vessel | | | 1 | | | | 1 | | | | | 3 | | 1 | 1 | | | | 2 | | | | 1 | | 10 | pressure vessel |
| leveling, transporting or loading machine | | | | | | | 1 | | | | 1 | 1 | | 1 | 1 | | | 1 | | 2 | | 1 | | | 9 | leveling, transporting or loading machine |
| scaffolding | | | 1 | | 1 | | 1 | 1 | 1 | | 1 | 1 | | 1 | | | | | 1 | | | | | | 9 | scaffolding |
| elevator, lift | | | 2 | | | | | | | 1 | 1 | | | | | 1 | | | 1 | 1 | | 1 | | | 8 | elevator, lift |
| stone, sand, substance | | | | | | | 1 | | | 1 | | | 1 | 1 | 1 | | | | 1 | | 1 | | 1 | | 8 | stone, sand, substance |
| excavating machine | | | 1 | | 1 | | | 1 | 1 | 1 | | | 1 | | | | | | | | | | | | 6 | excavating machine |
| food manufacturing | | | | | 1 | | | | | | | | | | 1 | | 1 | 1 | | 1 | | 1 | | | 6 | food manufacturing |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| total | 467 | 434 | 393 | 336 | 351 | 340 | 351 | 346 | 337 | 304 | 282 | 289 | 282 | 259 | 240 | 265 | 259 | 259 | 311 | 317 | 308 | 338 | 384 | 324 | 7,776 | total |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|

Transition of workers' age groups of fatal and non-fatal accidents in 010899 other chemical products in Japan (1999-2022)

| Age | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | total | Age |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----------------------|
| 50-59 | 136 | 128 | 106 | 82 | 88 | 85 | 90 | 92 | 89 | 75 | 69 | 68 | 66 | 62 | 55 | 36 | 65 | 62 | 85 | 81 | 73 | 69 | 106 | 85 | 1,953 | 50-59 |
| 40-49 | 113 | 92 | 89 | 67 | 79 | 70 | 67 | 68 | 67 | 58 | 57 | 72 | 74 | 55 | 45 | 78 | 64 | 81 | 73 | 81 | 81 | 71 | 94 | 75 | 1,771 | 40-49 |
| 30-39 | 79 | 88 | 84 | 82 | 84 | 87 | 93 | 78 | 79 | 81 | 74 | 68 | 68 | 68 | 66 | 66 | 44 | 49 | 54 | 51 | 54 | 76 | 73 | 61 | 1,707 | 30-39 |
| 60 years old or more | 34 | 34 | 28 | 27 | 30 | 28 | 39 | 41 | 41 | 38 | 33 | 31 | 25 | 30 | 29 | 29 | 41 | 33 | 46 | 58 | 45 | 55 | 58 | 54 | 907 | 60 years old or more |
| 20-29 | 92 | 84 | 75 | 72 | 61 | 63 | 57 | 54 | 55 | 45 | 45 | 44 | 47 | 40 | 39 | 49 | 40 | 30 | 48 | 37 | 51 | 56 | 46 | 46 | 1,276 | 20-29 |
| 19 years old or less | 13 | 8 | 11 | 6 | 9 | 7 | 5 | 13 | 6 | 7 | 4 | 6 | 2 | 4 | 6 | 7 | 5 | 4 | 5 | 9 | 4 | 11 | 7 | 3 | 162 | 19 years old or less |
| total | 467 | 434 | 393 | 336 | 351 | 340 | 351 | 346 | 337 | 304 | 282 | 289 | 282 | 259 | 240 | 265 | 259 | 259 | 311 | 317 | 308 | 338 | 384 | 324 | 7,776 | total |

Transition of workers' number of workplace of fatal and non-fatal accidents in 010899 other chemical products in Japan (1999-2022)

| 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 | 2022 | total | Workers scale |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|---------------------|
| 100-299 | 92 | 64 | 69 | 62 | 84 | 62 | 79 | 70 | 88 | 60 | 68 | 90 | 57 | 58 | 60 | 68 | 66 | 75 | 81 | 98 | 90 | 91 | 127 | 94 | 1,853 | 100-299 |
| 10-29 | 108 | 119 | 109 | 86 | 64 | 75 | 73 | 78 | 64 | 79 | 48 | 62 | 74 | 52 | 55 | 68 | 55 | 44 | 76 | 57 | 53 | 67 | 60 | 53 | 1,679 | 10-29 |
| 300 workers or more | 24 | 43 | 28 | 25 | 22 | 23 | 16 | 30 | 21 | 26 | 26 | 21 | 26 | 29 | 26 | 27 | 28 | 30 | 24 | 44 | 52 | 51 | 66 | 49 | 757 | 300 workers or more |
| 50-99 | 89 | 67 | 69 | 66 | 63 | 66 | 68 | 73 | 61 | 54 | 54 | 42 | 41 | 46 | 44 | 41 | 35 | 48 | 53 | 44 | 52 | 59 | 56 | 48 | 1,339 | 50-99 |
| 30-49 | 77 | 85 | 57 | 36 | 50 | 51 | 53 | 44 | 44 | 47 | 49 | 43 | 55 | 44 | 33 | 32 | 43 | 32 | 45 | 39 | 36 | 41 | 46 | 45 | 1,127 | 30-49 |
| 9 workers or less | 77 | 56 | 61 | 61 | 68 | 63 | 62 | 51 | 59 | 38 | 37 | 31 | 29 | 30 | 22 | 29 | 32 | 30 | 32 | 35 | 25 | 29 | 29 | 35 | 1,021 | 9 workers or less |
| total | 467 | 434 | 393 | 336 | 351 | 340 | 351 | 346 | 337 | 304 | 282 | 289 | 282 | 259 | 240 | 265 | 259 | 259 | 311 | 317 | 308 | 338 | 384 | 324 | 7,776 | total |

Transition of occurred months of fatal and non-fatal accidents in 010899 other chemical products in Japan (1999-2022)

| Month | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | total | Month |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-----------|
| September | 38 | 28 | 28 | 44 | 37 | 33 | 25 | 28 | 29 | 23 | 19 | 25 | 27 | 25 | 18 | 16 | 23 | 18 | 27 | 20 | 21 | 28 | 39 | 40 | 659 | September |
| July | 33 | 45 | 49 | 42 | 32 | 39 | 28 | 36 | 28 | 29 | 32 | 23 | 22 | 20 | 27 | 29 | 23 | 23 | 27 | 28 | 32 | 30 | 36 | 31 | 744 | July |
| November | 32 | 39 | 29 | 27 | 31 | 24 | 19 | 20 | 24 | 18 | 28 | 20 | 19 | 26 | 20 | 24 | 22 | 14 | 25 | 34 | 30 | 29 | 33 | 31 | 618 | November |
| June | 45 | 41 | 31 | 22 | 26 | 35 | 34 | 29 | 22 | 22 | 23 | 23 | 30 | 26 | 17 | 19 | 25 | 28 | 28 | 26 | 34 | 27 | 37 | 28 | 678 | June |
| March | 40 | 31 | 30 | 27 | 32 | 19 | 33 | 38 | 41 | 39 | 24 | 27 | 23 | 19 | 20 | 22 | 18 | 18 | 31 | 30 | 26 | 33 | 27 | 28 | 676 | March |
| October | 54 | 39 | 36 | 25 | 31 | 25 | 21 | 24 | 25 | 25 | 24 | 27 | 23 | 26 | 23 | 19 | 26 | 32 | 23 | 30 | 26 | 34 | 34 | 27 | 679 | October |
| February | 32 | 43 | 47 | 29 | 25 | 21 | 27 | 35 | 32 | 31 | 17 | 27 | 18 | 28 | 25 | 29 | 23 | 13 | 35 | 33 | 32 | 40 | 22 | 25 | 689 | February |
| January | 37 | 46 | 29 | 22 | 26 | 24 | 35 | 31 | 24 | 31 | 29 | 36 | 18 | 18 | 17 | 18 | 19 | 23 | 32 | 31 | 23 | 26 | 36 | 25 | 656 | January |
| April | 33 | 31 | 32 | 26 | 33 | 33 | 43 | 28 | 37 | 26 | 19 | 17 | 21 | 14 | 16 | 16 | 26 | 23 | 20 | 16 | 16 | 26 | 22 | 25 | 599 | April |
| August | 50 | 29 | 28 | 28 | 24 | 33 | 34 | 31 | 28 | 28 | 26 | 30 | 20 | 21 | 22 | 26 | 13 | 31 | 15 | 35 | 31 | 29 | 45 | 24 | 681 | August |
| May | 33 | 37 | 33 | 20 | 33 | 29 | 19 | 24 | 26 | 16 | 22 | 22 | 34 | 21 | 18 | 25 | 22 | 13 | 17 | 23 | 21 | 18 | 33 | 24 | 583 | May |
| December | 40 | 25 | 21 | 24 | 21 | 25 | 33 | 22 | 21 | 16 | 19 | 12 | 27 | 15 | 17 | 22 | 19 | 23 | 31 | 11 | 16 | 18 | 20 | 16 | 514 | December |
| total | 467 | 434 | 393 | 336 | 351 | 340 | 351 | 346 | 337 | 304 | 282 | 289 | 282 | 259 | 240 | 265 | 259 | 259 | 311 | 317 | 308 | 338 | 384 | 324 | 7,776 | total |

Transition of prefectures of fatal and non-fatal accidents in 010899 other chemical products in Japan (1999-2022)

| Prefecture | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | total | Prefecture |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------------|
| Osaka | 66 | 70 | 56 | | 38 | | 43 | 57 | 48 | 34 | 46 | 43 | 21 | 33 | 30 | 33 | 30 | 33 | 28 | 31 | 24 | 42 | 38 | 33 | 877 | Osaka |
| Saitama | 45 | 38 | 25 | | 35 | | 24 | 33 | 19 | 23 | 31 | 33 | 22 | 21 | 21 | 18 | 31 | 26 | 27 | 25 | 20 | 25 | 25 | 32 | 599 | Saitama |
| Kanagawa | 35 | 20 | 34 | | 30 | | 29 | 28 | 15 | 28 | 22 | 28 | 22 | 22 | 20 | 33 | 26 | 27 | 25 | 27 | 23 | 29 | 58 | 30 | 611 | Kanagawa |
| Hyogo | 29 | 27 | 24 | | 22 | | 24 | 22 | 22 | 19 | 18 | 13 | 24 | 14 | 21 | 17 | 13 | 24 | 17 | 22 | 29 | 21 | 25 | 23 | 470 | Hyogo |
| Chiba | 17 | 16 | 17 | | 9 | | 15 | 9 | 16 | 23 | 14 | 15 | 13 | 15 | 13 | 10 | 8 | 8 | 15 | 14 | 11 | 15 | 19 | 17 | 309 | Chiba |
| Ibaraki | 6 | 7 | 17 | | 15 | | 18 | 9 | 9 | 10 | 11 | 13 | 15 | 9 | 7 | 14 | 14 | 14 | 19 | 16 | 11 | 14 | 14 | 17 | 279 | Ibaraki |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|----|----|----|--|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----------|
| Shizuoka | 31 | 29 | 16 | | 22 | | 14 | 16 | 9 | 12 | 7 | 11 | 10 | 6 | 7 | 4 | 10 | 9 | 16 | 24 | 20 | 14 | 12 | 15 | 314 | Shizuoka |
| Aichi | 19 | 32 | 27 | | 29 | | 27 | 19 | 22 | 21 | 21 | 18 | 18 | 17 | 15 | 13 | 9 | 13 | 22 | 13 | 20 | 17 | 15 | 13 | 420 | Aichi |
| Gunma | 16 | 13 | 11 | | 12 | | 9 | 20 | 17 | 6 | 6 | 11 | 8 | 8 | 3 | 15 | 9 | 11 | 9 | 8 | 13 | 16 | 25 | 11 | 257 | Gunma |
| Fukuoka | 16 | 9 | 10 | | 15 | | 7 | 13 | 8 | 9 | 10 | 6 | 9 | 5 | 4 | 5 | 7 | 9 | 5 | 6 | 5 | 14 | 11 | 10 | 193 | Fukuoka |
| Okayama | 10 | 13 | 13 | | 11 | | 8 | 2 | 13 | 3 | 6 | 7 | 13 | 6 | 9 | 10 | 3 | 4 | 9 | 10 | 14 | 13 | 5 | 9 | 191 | Okayama |
| Shiga | 11 | 8 | 11 | | 8 | | 14 | 11 | 10 | 11 | 10 | 12 | 6 | 4 | 6 | 16 | 8 | 9 | 15 | 12 | 12 | 9 | 9 | 8 | 220 | Shiga |
| Mie | 6 | 16 | 10 | | 3 | | 13 | 9 | 15 | 13 | 7 | 6 | 11 | 9 | 7 | 3 | 5 | 10 | 7 | 7 | 11 | 6 | 17 | 8 | 199 | Mie |
| Fukushima | 4 | 3 | 6 | | 4 | | | 5 | 5 | 4 | 4 | 5 | 5 | 9 | 3 | 5 | 3 | 2 | 8 | 6 | 5 | 3 | 9 | 8 | 106 | Fukushima |
| Wakayama | 8 | 2 | 9 | | | | 7 | 9 | 7 | 6 | 6 | 7 | 5 | 6 | 13 | 2 | 5 | 3 | 8 | 9 | 6 | 11 | 8 | 7 | 144 | Wakayama |
| Hokkaido | 7 | 8 | 9 | | 3 | | 4 | 7 | 6 | 3 | 7 | 5 | 6 | 3 | 3 | 5 | 4 | 6 | 8 | 5 | 3 | 6 | 3 | 7 | 118 | Hokkaido |
| Niigata | 5 | 4 | 3 | | 4 | | 5 | 3 | 9 | 6 | 3 | 2 | 4 | 4 | 3 | 1 | 1 | 1 | 2 | 5 | 1 | 6 | 6 | 7 | 85 | Niigata |
| Tokushima | 3 | 2 | 1 | | 2 | | 2 | 1 | 3 | | | | 3 | | 2 | 2 | 2 | 4 | 4 | 2 | 2 | 4 | 4 | 6 | 49 | Tokushima |
| Gifu | 11 | 16 | 8 | | 13 | | 14 | 9 | 8 | 9 | 5 | 8 | 9 | 6 | 6 | 6 | 4 | 5 | 3 | 9 | 6 | 5 | 13 | 5 | 178 | Gifu |
| Kyoto | 10 | 5 | 3 | | 6 | | 7 | 8 | 4 | 3 | 4 | 4 | 4 | 2 | 2 | 2 | 11 | 2 | 7 | 9 | 3 | 1 | 1 | 5 | 103 | Kyoto |
| Iwate | 2 | 2 | 2 | | 4 | | 8 | 3 | 3 | 4 | 2 | 1 | 1 | 2 | 4 | 2 | 2 | 4 | 3 | 1 | | 5 | 3 | 5 | 63 | Iwate |
| Oita | 7 | 6 | 3 | | 1 | | 2 | | 3 | 1 | 1 | 4 | 1 | 3 | | 2 | 2 | | | 1 | | | 1 | 5 | 43 | Oita |
| Tokyo | 16 | 16 | 15 | | 17 | | 10 | 9 | 10 | 10 | 4 | 4 | 7 | 2 | 4 | 5 | 3 | 5 | 11 | 4 | 9 | 12 | 6 | 4 | 183 | Tokyo |
| Hiroshima | 2 | 6 | 10 | | 7 | | 4 | 4 | 5 | 3 | 3 | 2 | 1 | 2 | 1 | 3 | 3 | | 3 | 3 | 2 | 2 | 4 | 4 | 74 | Hiroshima |
| Yamanashi | 5 | | 2 | | 2 | | 1 | 3 | 1 | 4 | 4 | | 3 | 3 | 1 | 2 | 3 | 2 | 3 | 1 | 6 | 3 | 1 | 4 | 54 | Yamanashi |
| Tochigi | 6 | 9 | 6 | | 6 | | 7 | 5 | 11 | 5 | 7 | 7 | 6 | 8 | 6 | 5 | 8 | 5 | 6 | 7 | 9 | 5 | 19 | 3 | 156 | Tochigi |
| Nara | 11 | 7 | 5 | | 2 | | 4 | 4 | 6 | 4 | 3 | 2 | 1 | 4 | 5 | 5 | 7 | 4 | 4 | 11 | 9 | 2 | 7 | 3 | 110 | Nara |
| Kagawa | 3 | 2 | 1 | | 3 | | 2 | 4 | 3 | 5 | 5 | 2 | 4 | 4 | 5 | 5 | 6 | 2 | 4 | 2 | 1 | 3 | 4 | 3 | 73 | Kagawa |
| Miyazaki | 2 | | 3 | | 2 | | 2 | 1 | 1 | 1 | | | | 1 | | 1 | 1 | | 2 | | 2 | 1 | | 3 | 23 | Miyazaki |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----------|
| Toyama | 8 | 7 | 1 | | 6 | | 1 | 4 | 5 | 1 | 4 | 1 | 4 | 4 | 1 | 1 | 2 | 3 | 2 | 2 | 4 | 2 | | 2 | 65 | Toyama |
| Nagano | 10 | 6 | 3 | | 1 | | 1 | 2 | 4 | 5 | 2 | 2 | 2 | | 1 | 4 | 1 | 2 | 1 | | 6 | 2 | 1 | 2 | 58 | Nagano |
| Ehime | 5 | 6 | 8 | | 2 | | 1 | | | 1 | | 2 | 3 | 1 | 3 | 1 | 3 | | 3 | 2 | 3 | 3 | 4 | 2 | 53 | Ehime |
| Kumamoto | 4 | 4 | | | 1 | | | 2 | 2 | 1 | | | 1 | 1 | 2 | 4 | 3 | 3 | | 3 | 4 | 3 | 1 | 2 | 41 | Kumamoto |
| Fukui | 7 | 3 | | | | | 6 | 1 | | 1 | | | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 38 | Fukui |
| Yamaguchi | 9 | 6 | 6 | | 5 | | 6 | 8 | 4 | 4 | 5 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 4 | 1 | 9 | 1 | 1 | 87 | Yamaguchi |
| Miyagi | 6 | 8 | 7 | | 3 | | 8 | 2 | 4 | 2 | 1 | 4 | 2 | 9 | 2 | 2 | 3 | 3 | 2 | 5 | 2 | 2 | 4 | 1 | 82 | Miyagi |
| Yamagata | | 1 | 1 | | 2 | | | | 1 | 2 | 1 | 3 | 4 | 3 | 2 | 1 | 2 | 2 | 1 | 1 | | | 2 | 1 | 30 | Yamagata |
| Kochi | 1 | | | | 2 | | | | 1 | | | 1 | 2 | 2 | 1 | 2 | 1 | | 4 | 1 | 4 | 3 | | 1 | 26 | Kochi |
| Saga | 4 | 2 | | | | | 1 | | | 4 | | | 1 | 1 | 1 | | 2 | | 1 | 2 | 2 | 2 | | 1 | 24 | Saga |
| Kagoshima | | | 1 | | | | 1 | 1 | 1 | | | 1 | | 1 | 1 | | | | 1 | 2 | 1 | 2 | 1 | 1 | 15 | Kagoshima |
| Shimane | | 4 | | | 1 | | 1 | 1 | | | 1 | 1 | 1 | | 1 | | | | | | | 2 | | 1 | 14 | Shimane |
| Ishikawa | | 1 | 1 | | 1 | | | | 1 | | | | | 2 | | 1 | | | | 1 | | 1 | 2 | 1 | 12 | Ishikawa |
| Akita | 1 | | 4 | | 1 | | 1 | | | | | | | | | | | | | | 1 | | | 1 | 9 | Akita |
| Tottori | | | 1 | | | | | 1 | 1 | 1 | | | 1 | 1 | | 1 | | | 1 | 1 | 1 | 1 | 4 | | 15 | Tottori |
| Nagasaki | 1 | | | | | | | | 5 | 1 | 1 | 1 | 1 | | | | | | 2 | | | 1 | 1 | | 14 | Nagasaki |
| Okinawa | 1 | | 2 | | 1 | | | 1 | | 1 | | 1 | 1 | | | | | | | 2 | | | | | 10 | Okinawa |
| Aomori | 1 | | 1 | | | | | | | | | | 2 | 2 | | | | | | | | | | | 6 | Aomori |
| total | 467 | 434 | 393 | 336 | 351 | 340 | 351 | 346 | 337 | 304 | 282 | 289 | 282 | 259 | 240 | 265 | 259 | 259 | 311 | 317 | 308 | 338 | 384 | 324 | 7,776 | total |

Data Source : <https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html> MHLW, Jaan

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