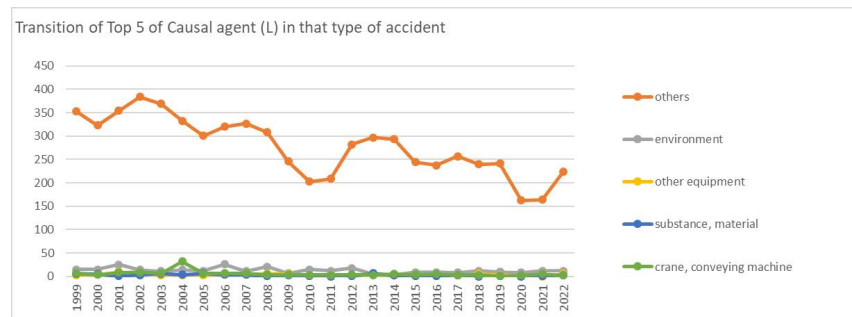
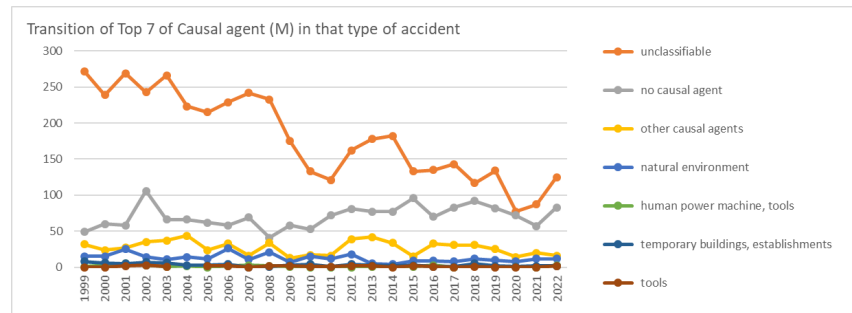


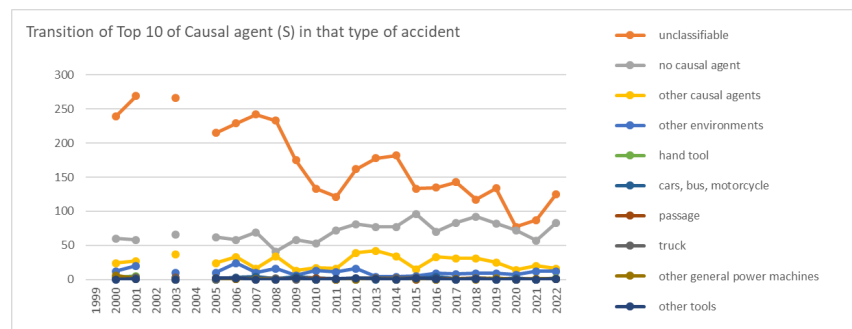
Transition of Causal agent (L, M, S) of fatal & non-fatal accident (unclassifiable) in 1999-2022



Transition of Causal agent (L) of fatal & non-fatal accident (unclassifiable) in 1999-2022



Transition of Causal agent (M) of fatal & non-fatal accident (unclassifiable) in 1999-2022



Transition of Causal agent (S) of fatal & non-fatal accident (unclassifiable) in 1999-2022

Transition of Causal agent (L) of fatal & non-fatal accident (unclassifiable) in 1999-2022

| Causal agent (L) | 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 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| others | 353 | 323 | 354 | 384 | 369 | 333 | 301 | 320 | 327 | 308 | 246 | 203 | 209 | 282 | 297 | 293 | 244 | 238 | 257 | 240 | 241 | 163 | 164 | 224 | 6,673 |
| environment | 15 | 15 | 25 | 14 | 11 | 14 | 12 | 26 | 11 | 21 | 7 | 15 | 12 | 18 | 5 | 4 | 9 | 9 | 8 | 12 | 10 | 8 | 12 | 12 | 305 |
| other equipment | 3 | 4 | 10 | 7 | 3 | 3 | 3 | 4 | 4 | 6 | 5 | 1 | 2 | 2 | 4 | 2 | 3 | 4 | 2 | 5 | 3 | 1 | | 5 | 86 |
| substance, material | 6 | 5 | 1 | 3 | 6 | 4 | 7 | 4 | 4 | 1 | 2 | 1 | | 1 | 7 | 2 | 1 | 1 | 3 | | 1 | | 1 | 3 | 64 |
| crane, conveying machine | 7 | 4 | 8 | 9 | 7 | 32 | 6 | 7 | 7 | 4 | 4 | 3 | 3 | 4 | 3 | 5 | 4 | 5 | 3 | 3 | 1 | 2 | 5 | 2 | 138 |
| temporary buildings, establishments | 8 | 6 | 5 | 7 | 6 | 3 | 3 | 4 | | 1 | 3 | 4 | 1 | 4 | 3 | 2 | 3 | 1 | 1 | 5 | 2 | 1 | 2 | 2 | 77 |
| machine | 5 | 8 | 4 | 6 | 3 | 4 | 5 | 3 | 5 | 3 | 2 | 2 | | | 2 | 1 | 2 | | 1 | 1 | 4 | 1 | 1 | 1 | 64 |
| load | 6 | 4 | 6 | 8 | 2 | | 2 | 4 | 2 | 4 | 1 | 1 | | 4 | | 1 | 3 | 1 | | 1 | 4 | 1 | 1 | | 56 |
| total | 403 | 369 | 413 | 438 | 407 | 393 | 339 | 372 | 360 | 348 | 270 | 230 | 227 | 315 | 321 | 310 | 269 | 259 | 275 | 267 | 266 | 177 | 186 | 249 | 7,463 |

Transition of Causal agent (M) of fatal & non-fatal accident (unclassifiable) in 1999-2022

| Causal agent (M) | 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 |
|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| unclassifiable | 272 | 239 | 269 | 243 | 266 | 223 | 215 | 229 | 242 | 233 | 175 | 133 | 121 | 162 | 178 | 182 | 133 | 135 | 143 | 117 | 134 | 77 | 87 | 125 | 4,333 |
| no causal agent | 49 | 60 | 58 | 106 | 66 | 66 | 62 | 58 | 69 | 41 | 58 | 53 | 72 | 81 | 77 | 77 | 96 | 70 | 83 | 92 | 82 | 72 | 57 | 83 | 1,688 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| other causal agents | 32 | 24 | 27 | 35 | 37 | 44 | 24 | 33 | 16 | 34 | 13 | 17 | 16 | 39 | 42 | 34 | 15 | 33 | 31 | 31 | 25 | 14 | 20 | 16 | 652 |
| natural environment | 15 | 15 | 25 | 14 | 11 | 14 | 12 | 26 | 11 | 21 | 7 | 15 | 12 | 18 | 5 | 4 | 9 | 9 | 8 | 12 | 10 | 8 | 12 | 12 | 305 |
| human power machine, tools | 1 | 3 | 5 | 3 | 1 | 2 | | 2 | 3 | 2 | 1 | | | | 1 | 1 | 1 | 3 | | 2 | 1 | 1 | | 3 | 36 |
| temporary buildings, establishments | 8 | 6 | 5 | 7 | 6 | 3 | 3 | 4 | | 1 | 3 | 4 | 1 | 4 | 3 | 2 | 3 | 1 | 1 | 5 | 2 | 1 | 2 | 2 | 77 |
| tools | | | 2 | 3 | 1 | | 2 | 2 | | 2 | 2 | 1 | 1 | 2 | 2 | | 2 | 1 | | 1 | | | | 2 | 26 |
| hazards, harmful substances | | | | | 1 | 1 | 4 | 1 | | | | | | 1 | 2 | 1 | 1 | 1 | | | | | | 2 | 15 |
| vehicle | 1 | 1 | 5 | 9 | 5 | 30 | 4 | 3 | 4 | 1 | 4 | 2 | 1 | 2 | 1 | 1 | 1 | 4 | 2 | 1 | 1 | 2 | 4 | 1 | 90 |
| materials | 6 | 5 | 1 | 3 | 5 | 3 | 3 | 3 | 4 | 1 | 2 | 1 | | | 5 | 1 | | | 3 | | 1 | | 1 | 1 | 49 |
| conveying machine | 6 | 3 | 3 | | 2 | 1 | 2 | 3 | 3 | 3 | | 1 | 2 | 2 | 2 | 3 | 3 | 1 | 1 | 2 | | | | 1 | 44 |
| general machine | 4 | 6 | 1 | 2 | | | 3 | 1 | 1 | | 2 | | | | 1 | | 1 | | 1 | | 2 | | 1 | 1 | 27 |
| load | 6 | 4 | 6 | 8 | 2 | | 2 | 4 | 2 | 4 | 1 | 1 | | 4 | | 1 | 3 | 1 | | 1 | 4 | 1 | 1 | | 56 |
| other equipments, facilities | | 1 | 3 | 1 | 1 | | 1 | | 1 | 2 | 1 | | 1 | | | 1 | | | 2 | 2 | 1 | | | | 18 |
| metal manufacturing | | 1 | 2 | 2 | | | | | | 3 | 2 | | 1 | | | 1 | 1 | | | | 1 | 1 | | | 15 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---|--|---|--|---|---|---|---|---|---|--|--|--|---|---|--|---|---|--|---|---|
| machines | | | 1 | | | | 1 | | 1 | 1 | | | | | | | | | | | | | 4 |
| other powered conveying machines | | 1 | | | | | | 1 | | | 1 | | | | | | 1 | | | | | | 4 |
| standing tree | | | | | 1 | | | | | 1 | 1 | | | | | | | | | 1 | | | 4 |
| working platform, boot board | | | | | 1 | | | | | | 1 | | | | | 1 | | | | | | | 3 |
| lumber, bamboo | | 1 | | | | | | 1 | | | | | | | | | 1 | | | | | | 3 |
| natural ground, rock | | | | | | | | 1 | | 2 | | | | | | | | | | | | | 3 |
| engine | | | | | | | | | | | | | | | | | | | 1 | 1 | | | 2 |
| leveling, transporting or loading machine | | | | | | | | | | | 1 | | | | | 1 | | | | | | | 2 |
| excavating machine | | | | | 1 | | 1 | | | | | | | | | | | | | | | | 2 |
| other construction machines | | 1 | | | | | | 1 | | | | | | | | | | | | | | | 2 |
| crane | | | | | | | | 1 | | | | | | | | | | | | | | 1 | 2 |
| loader | | | | | | | | | 1 | | | | | | | 1 | | | | | | | 2 |
| pressure vessel | | | | | | | | | | 1 | | | | | | | | | | 1 | | | 2 |
| scaffolding | | | | | 1 | | | | | | | 1 | | | | | | | | | | | 2 |
| machine/equipment | | | | | | | 1 | | | | | | | | | | | | | 1 | | | 2 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| human power cranes | | | | | | | | | | | | | | | | | | | | | | | | |
| human power machine | | | | | | | | | | | | | | | | | | | | | | | | |
| timbering | | | | | | | | | | | | | | | | | | | | | | | | |
| opening | | | | | | | | | | | | | | | | | | | | | | | | |
| roof, beam, haze, crossbeam, principal rafter | | | | | | | | | | | | | | | | | | | | | | | | |
| explosive substance | | | | | | | | | | | | | | | | | | | | | | | | |
| inflammable gas | | | | | | | | | | | | | | | | | | | | | | | | |
| radiation | | | | | | | | | | | | | | | | | | | | | | | | |

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

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