

Industrial accidents in over/under wear in Japan in 1999-2020

over/under wear industry Code No.010301

Type of accidents in over/under wear 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                   | 23   | 18   | 14   | 19   | 21   | 13   | 17   | 17   | 13   | 11   | 17   | 10   | 9    | 14   | 7    | 8    | 9    | 7    | 11   | 7    | 15   | 5    |
| falling to same level              | 56   | 36   | 49   | 41   | 45   | 46   | 36   | 34   | 41   | 41   | 37   | 38   | 31   | 47   | 51   | 36   | 29   | 27   | 28   | 34   | 34   | 19   |
| crash                              | 6    | 4    | 7    | 2    | 3    | 7    | 7    | 4    | 3    | 4    | 7    | 4    | 4    | 3    | 2    | 2    | 1    | 2    | 5    | 3    | 2    | 5    |
| struck by flying or falling object | 4    | 4    | 5    | 3    | 2    | 3    | 4    | 5    | 3    | 2    | 3    | 3    | 1    | 5    | 1    | 1    | 4    | 3    | 1    | 4    | 3    | 0    |
| collapse                           | 3    | 0    | 0    | -    | 2    | 2    | 2    | 1    | 0    | 0    | 0    | 2    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 1    | 0    | 0    |
| crashed by                         | 6    | 4    | 0    | 5    | 1    | 1    | 3    | 0    | 2    | 1    | 0    | 2    | 1    | 1    | 1    | 1    | 1    | 0    | 0    | 1    | 2    | 2    |
| caught in/between                  | 50   | 36   | 20   | 33   | 24   | 19   | 10   | 18   | 21   | 12   | 13   | 15   | 12   | 10   | 12   | 11   | 7    | 8    | 10   | 10   | 9    | 12   |
| cut                                | 35   | 26   | 27   | 22   | 24   | 16   | 17   | 14   | 11   | 14   | 15   | 7    | 8    | 6    | 13   | 8    | 9    | 5    | 13   | 7    | 8    | 6    |
| injury to the sole of the foot     | 0    | 0    | 0    | -    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    |
| drown                              | 0    | 0    | 0    | -    | 0    | -    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| contact to high/low-temperature    | 5    | 6    | 6    | 4    | 6    | 3    | 2    | 2    | 3    | 4    | 3    | 5    | 1    | 4    | 6    | 1    | 2    | 1    | 1    | 1    | 1    | 0    |
| contact to harmful substance       | 1    | 1    | 2    | 1    | 1    | -    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    |
| electric shock                     | 0    | 0    | 0    | 2    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 1    | 0    | 0    | 0    | 0    |
| explosion                          | 0    | 0    | 0    | -    | 0    | -    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| burst                              | 0    | 0    | 0    | -    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| fire                               | 0    | 0    | 0    | -    | 0    | -    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| traffic accident (public road)     | 9    | 9    | 5    | 9    | 4    | 4    | 5    | 3    | 9    | 2    | 1    | 1    | 1    | 3    | 0    | 2    | 3    | 0    | 0    | 1    | 0    | 0    |
| traffic accident (others)          | 0    | 0    | 0    | -    | 0    | -    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| reaction to motion/improper motion | 19   | 22   | 13   | 10   | 11   | 10   | 5    | 9    | 11   | 8    | 10   | 8    | 2    | 11   | 7    | 10   | 6    | 7    | 4    | 7    | 4    | 2    |
| others                             | 0    | 2    | 3    | -    | 0    | -    | 0    | 0    | 2    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 79   |

|                |     |     |     |     |     |     |     |     |     |     |     |    |    |     |     |    |    |    |    |    |    |     |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|----|----|----|----|----|----|-----|
| unclassifiable | 0   | 1   | 0   | -   | 0   | -   | 3   | 0   | 0   | 1   | 0   | 0  | 0  | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 0  |     |
| total          | 217 | 169 | 151 | 151 | 144 | 127 | 113 | 109 | 119 | 100 | 106 | 95 | 72 | 105 | 102 | 81 | 71 | 62 | 73 | 76 | 78 | 131 |

Causal agents (middle) of industrial accidents in over/under wear 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    |
| power transmission mechanism | 1    | 0    | 1    | 1    | 0    | 2    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 0    | 0    | 0    |
| woodworking machine          | 0    | 0    | 0    | -    | 0    | -    | 0    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    |
| construction machine         | 0    | 1    | 0    | -    | 0    | -    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| metal manufacturing machine  | 7    | 5    | 3    | 2    | 1    | 3    | 2    | 1    | 1    | 0    | 0    | 1    | 0    | 0    | 1    | 0    | 0    | 2    | 1    | 1    | 0    | 2    |
| general machine              | 67   | 60   | 39   | 52   | 48   | 29   | 24   | 28   | 25   | 24   | 24   | 22   | 15   | 16   | 22   | 21   | 17   | 8    | 14   | 14   | 15   | 17   |
| mobile silviculture machine  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0    | 0    | 0    | 0    | 0    | 0    |
| crane                        | 4    | 2    | 1    | -    | 1    | 3    | 0    | 2    | 2    | 0    | 0    | 0    | 0    | 2    | 0    | 0    | 1    | 1    | 0    | 0    | 1    | 0    |
| conveying machine            | 4    | 0    | 3    | 5    | 4    | 5    | 4    | 3    | 2    | 3    | 5    | 3    | 1    | 3    | 3    | 1    | 0    | 0    | 1    | 1    | 3    | 0    |
| vehicle                      | 9    | 11   | 7    | 14   | 4    | 3    | 7    | 2    | 10   | 4    | 2    | 2    | 2    | 7    | 1    | 1    | 4    | 0    | 0    | 2    | 1    | 1    |
| pressure vessel              | 1    | 1    | 1    | -    | 0    | 1    | 0    | 1    | 3    | 0    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    |
| chemical facilities          | 0    | 0    | 0    | -    | 0    | -    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| welding equipment            | 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    |
| electric equipment           | 0    | 0    | 1    | 2    | 0    | 1    | 0    | 0    | 0    | 2    | 0    | 1    | 1    | 0    | 0    | 0    | 1    | 0    | 0    | 1    | 0    | 0    |
| human power machine, tools   | 10   | 5    | 9    | 9    | 2    | 4    | 4    | 1    | 5    | 4    | 8    | 7    | 4    | 5    | 6    | 4    | 3    | 10   | 6    | 5    | 2    | 5    |
| tools                        | 15   | 9    | 12   | 8    | 8    | 6    | 10   | 12   | 13   | 7    | 11   | 8    | 8    | 8    | 9    | 5    | 6    | 5    | 6    | 3    | 9    | 2    |
| other equipments, facilities | 6    | 4    | 7    | 7    | 2    | 6    | 6    | 2    | 6    | 4    | 5    | 6    | 2    | 2    | 2    | 5    | 3    | 3    | 5    | 2    | 5    | 1    |
| temporary buildings,         | 55   | 35   | 38   | 29   | 51   | 46   | 38   | 36   | 38   | 36   | 35   | 31   | 29   | 41   | 26   | 31   | 28   | 22   | 31   | 32   | 32   | 18   |







|   |  |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|--|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| equipment                                     |  |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| arc welding equipment                         |  |  | 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  |
| kiln, caldron                                 |  |  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| industrial dryer                              |  |  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| other kiln, caldron                           |  |  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| transmission                                  |  |  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 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  |
| other electrical equipment                    |  |  | 0  | 0  | 0  | 0  | 0  | 2  | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  |
| human power cranes                            |  |  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| human power hauling equipment                 |  |  | 4  | 2  | 2  | 0  | 1  | 0  | 3  | 5  | 1  | 4  | 3  | 4  | 2  | 8  | 1  | 4  | 1  | 4  | 1  | 4  |
| human power machine                           |  |  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  |
| hand tool                                     |  |  | 5  | 0  | 2  | 1  | 4  | 4  | 4  | 2  | 3  | 1  | 3  | 0  | 1  | 2  | 4  | 1  | 1  | 1  | 1  | 1  |
| ladder  |  |  | 5  | 3  | 2  | 5  | 3  | 2  | 8  | 5  | 4  | 3  | 4  | 1  | 2  | 2  | 4  | 2  | 5  | 2  | 2  | 2  |
| slinging tool                                 |  |  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| other tools                                   |  |  | 7  | 5  | 8  | 7  | 10 | 5  | 3  | 3  | 4  | 5  | 5  | 4  | 4  | 3  | 2  | 1  | 4  | 0  | 0  | 0  |
| other equipment, facilities                   |  |  | 7  | 2  | 6  | 2  | 6  | 4  | 5  | 6  | 2  | 2  | 2  | 5  | 3  | 3  | 5  | 2  | 5  | 1  | 1  | 1  |
| scaffolding                                   |  |  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  |
| timbering                                     |  |  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| stairs, landing stage                         |  |  | 6  | 13 | 9  | 5  | 10 | 7  | 11 | 3  | 4  | 9  | 3  | 3  | 6  | 0  | 3  | 6  | 6  | 4  | 4  | 4  |
| opening                                       |  |  | 1  | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  |
| roof, beam, haze, crossbeam, principal rafter |  |  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  |
| working platform, boot board                  |  |  | 4  | 8  | 2  | 1  | 1  | 2  | 1  | 3  | 3  | 4  | 0  | 3  | 4  | 3  | 1  | 1  | 5  | 1  | 1  | 1  |
| passage                                       |  |  | 23 | 23 | 20 | 24 | 23 | 21 | 18 | 21 | 17 | 23 | 17 | 18 | 15 | 14 | 19 | 22 | 17 | 13 | 13 | 13 |
| building, establishment                       |  |  | 2  | 4  | 4  | 3  | 1  | 2  | 3  | 2  | 3  | 3  | 3  | 4  | 3  | 2  | 3  | 1  | 2  | 0  | 0  | 0  |



|                      |     |     |     |     |     |     |     |     |     |     |     |    |    |     |     |    |    |    |    |    |    |     |
|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|----|----|----|----|----|----|-----|
| 19 years old or less | 5   | 2   | 1   | 5   | 2   | 2   | 1   | 0   | 2   | 2   | 0   | 2  | 0  | 1   | 2   | 2  | 3  | 2  | 0  | 0  | 2  | 3   |
| 20-29                | 26  | 16  | 13  | 17  | 19  | 13  | 4   | 13  | 12  | 9   | 7   | 10 | 10 | 9   | 5   | 5  | 7  | 2  | 7  | 7  | 3  | 31  |
| 30-39                | 29  | 24  | 18  | 23  | 22  | 22  | 17  | 13  | 12  | 15  | 14  | 15 | 6  | 6   | 9   | 8  | 7  | 5  | 9  | 4  | 8  | 35  |
| 40-49                | 64  | 48  | 39  | 37  | 29  | 22  | 22  | 16  | 18  | 17  | 10  | 22 | 13 | 20  | 16  | 14 | 11 | 11 | 7  | 6  | 11 | 17  |
| 50-59                | 77  | 62  | 55  | 51  | 56  | 56  | 54  | 50  | 56  | 37  | 49  | 28 | 22 | 44  | 39  | 23 | 23 | 16 | 23 | 30 | 26 | 19  |
| 60 years old or more | 16  | 17  | 25  | 18  | 16  | 12  | 15  | 17  | 19  | 20  | 26  | 18 | 21 | 25  | 31  | 29 | 20 | 26 | 27 | 29 | 28 | 26  |
| total                | 217 | 169 | 151 | 151 | 144 | 127 | 113 | 109 | 119 | 100 | 106 | 95 | 72 | 105 | 102 | 81 | 71 | 62 | 73 | 76 | 78 | 131 |

Workers' number of workplace of industrial accidents in over/under wear 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   | 25   | 20   | 22   | 18   | 18   | 24   | 22   | 28   | 15   | 12   | 17   | 14   | 11   | 8    | 8    | 9    | 10   | 7    | 6    | 8    | 7    | 9    |
| 10-29               | 45   | 38   | 32   | 42   | 28   | 27   | 22   | 26   | 29   | 27   | 19   | 23   | 16   | 31   | 22   | 23   | 17   | 16   | 23   | 15   | 15   | 15   |
| 30-49               | 37   | 32   | 30   | 28   | 20   | 19   | 14   | 8    | 24   | 14   | 12   | 21   | 13   | 16   | 14   | 11   | 13   | 10   | 12   | 14   | 16   | 10   |
| 50-99               | 51   | 40   | 24   | 25   | 30   | 31   | 29   | 22   | 17   | 21   | 26   | 21   | 18   | 22   | 27   | 24   | 17   | 16   | 20   | 17   | 19   | 6    |
| 100-299             | 51   | 34   | 34   | 32   | 41   | 24   | 26   | 20   | 31   | 21   | 24   | 15   | 11   | 21   | 23   | 12   | 11   | 11   | 10   | 19   | 16   | 85   |
| 300 workers or more | 8    | 5    | 9    | 6    | 7    | 2    | 0    | 5    | 3    | 5    | 8    | 1    | 3    | 7    | 8    | 2    | 3    | 2    | 2    | 3    | 5    | 6    |
| total               | 217  | 169  | 151  | 151  | 144  | 127  | 113  | 109  | 119  | 100  | 106  | 95   | 72   | 105  | 102  | 81   | 71   | 62   | 73   | 76   | 78   | 131  |

Month of industrial accidents in over/under wear 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   | 12   | 14   | 14   | 18   | 13   | 25   | 12   | 13   | 9    | 8    | 6    | 11   | 10   | 10   | 14   | 7    | 7    | 6    | 4    | 15   | 10   | 4    |
| February  | 26   | 20   | 9    | 6    | 9    | 11   | 16   | 9    | 5    | 9    | 8    | 6    | 4    | 9    | 13   | 14   | 6    | 8    | 11   | 8    | 7    | 9    |
| March     | 25   | 12   | 13   | 18   | 12   | 7    | 12   | 11   | 14   | 6    | 6    | 9    | 7    | 8    | 9    | 7    | 7    | 5    | 5    | 4    | 9    | 5    |
| April     | 24   | 10   | 14   | 16   | 19   | 11   | 6    | 6    | 8    | 7    | 9    | 11   | 8    | 5    | 11   | 6    | 6    | 7    | 7    | 4    | 5    | 6    |
| May       | 15   | 17   | 10   | 11   | 14   | 10   | 8    | 9    | 10   | 6    | 16   | 7    | 3    | 8    | 7    | 5    | 4    | 4    | 3    | 7    | 2    | 4    |
| June      | 13   | 8    | 7    | 8    | 12   | 9    | 4    | 10   | 11   | 9    | 10   | 7    | 4    | 10   | 6    | 8    | 6    | 6    | 7    | 8    | 6    | 4    |
| July      | 20   | 19   | 15   | 12   | 9    | 9    | 7    | 8    | 8    | 10   | 14   | 4    | 5    | 10   | 8    | 5    | 7    | 5    | 7    | 3    | 6    | 2    |
| August    | 10   | 20   | 14   | 9    | 16   | 8    | 11   | 4    | 16   | 4    | 6    | 8    | 6    | 2    | 5    | 3    | 4    | 4    | 8    | 4    | 7    | 4    |
| September | 24   | 11   | 13   | 15   | 11   | 13   | 7    | 12   | 8    | 12   | 7    | 4    | 5    | 9    | 3    | 5    | 8    | 2    | 3    | 6    | 10   | 3    |
| October   | 16   | 13   | 12   | 12   | 11   | 12   | 12   | 7    | 8    | 10   | 6    | 11   | 4    | 16   | 8    | 9    | 5    | 5    | 8    | 7    | 3    | 3    |
| November  | 14   | 14   | 18   | 13   | 9    | 6    | 9    | 11   | 10   | 8    | 8    | 9    | 9    | 6    | 5    | 4    | 3    | 6    | 4    | 6    | 6    | 6    |
| December  | 18   | 11   | 12   | 13   | 9    | 6    | 9    | 9    | 12   | 11   | 10   | 8    | 7    | 12   | 13   | 8    | 8    | 4    | 6    | 4    | 7    | 81   |



|       |     |     |     |     |     |     |     |     |     |     |     |    |    |     |     |    |    |    |    |    |    |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|----|----|----|----|----|----|-----|
| total | 217 | 169 | 151 | 151 | 144 | 127 | 113 | 109 | 119 | 100 | 106 | 95 | 72 | 105 | 102 | 81 | 71 | 62 | 73 | 76 | 78 | 131 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|----|----|----|----|----|----|-----|

Prefecture of industrial accidents in over/under wear 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   | 6    | 5    | 8    |      | 2    |      | 3    | 4    | 2    | 1    | 4    | 2    | 2    | 0    | 1    | 3    | 2    | 0    | 5    | 0    | 0    | 2    |
| Aomori     | 3    | 4    | 2    |      | 2    |      | 3    | 1    | 4    | 4    | 1    | 2    | 2    | 3    | 8    | 3    | 1    | 2    | 3    | 6    | 2    | 2    |
| Iwate      | 1    | 5    | 4    |      | 5    |      | 1    | 1    | 7    | 1    | 5    | 3    | 3    | 8    | 4    | 4    | 2    | 5    | 3    | 1    | 3    | 1    |
| Miyagi     | 8    | 6    | 7    |      | 1    |      | 4    | 6    | 3    | 2    | 2    | 2    | 3    | 2    | 1    | 1    | 2    | 1    | 0    | 2    | 0    | 2    |
| Akita      | 13   | 12   | 14   |      | 11   |      | 5    | 5    | 15   | 7    | 7    | 9    | 5    | 8    | 6    | 7    | 5    | 3    | 4    | 11   | 10   | 1    |
| Yamagata   | 14   | 7    | 6    |      | 5    |      | 8    | 4    | 7    | 7    | 3    | 2    | 0    | 3    | 9    | 5    | 2    | 3    | 2    | 6    | 3    | 3    |
| Fukushima  | 12   | 9    | 6    |      | 11   |      | 9    | 6    | 6    | 8    | 7    | 6    | 6    | 9    | 7    | 5    | 4    | 2    | 5    | 3    | 7    | 2    |
| Ibaraki    | 2    | 1    | 0    |      | 5    |      | 0    | 1    | 0    | 1    | 2    | 0    | 0    | 0    | 0    | 4    | 1    | 0    | 0    | 0    | 1    | 0    |
| Tochigi    | 2    | 1    | 2    |      | 0    |      | 0    | 0    | 1    | 0    | 1    | 0    | 0    | 2    | 0    | 0    | 0    | 1    | 3    | 1    | 1    | 0    |
| Gunma      | 2    | 1    | 2    |      | 4    |      | 0    | 5    | 0    | 0    | 1    | 0    | 0    | 1    | 1    | 1    | 3    | 0    | 0    | 1    | 1    | 0    |
| Saitama    | 1    | 5    | 2    |      | 5    |      | 4    | 1    | 3    | 1    | 7    | 2    | 1    | 4    | 1    | 2    | 2    | 0    | 1    | 2    | 4    | 1    |
| Chiba      | 3    | 4    | 1    |      | 2    |      | 0    | 0    | 1    | 2    | 2    | 3    | 1    | 1    | 4    | 0    | 1    | 2    | 2    | 1    | 1    | 1    |
| Tokyo      | 1    | 2    | 1    |      | 4    |      | 1    | 2    | 1    | 3    | 1    | 0    | 0    | 0    | 2    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| Kanagawa   | 2    | 0    | 0    |      | 0    |      | 0    | 1    | 1    | 1    | 1    | 2    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Niigata    | 2    | 6    | 4    |      | 7    |      | 2    | 2    | 3    | 3    | 6    | 7    | 2    | 10   | 2    | 4    | 2    | 4    | 3    | 3    | 0    | 2    |
| Toyama     | 2    | 1    | 0    |      | 2    |      | 1    | 0    | 1    | 1    | 1    | 0    | 0    | 0    | 1    | 1    | 1    | 2    | 1    | 0    | 0    | 1    |
| Ishikawa   | 1    | 2    | 6    |      | 1    |      | 2    | 3    | 3    | 1    | 3    | 2    | 3    | 0    | 4    | 3    | 0    | 1    | 1    | 0    | 1    | 2    |
| Fukui      | 0    | 1    | 4    |      | 2    |      | 1    | 2    | 3    | 2    | 4    | 2    | 2    | 3    | 2    | 0    | 1    | 2    | 0    | 2    | 3    | 2    |
| Yamanashi  | 0    | 3    | 2    |      | 1    |      | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| Nagano     | 3    | 1    | 2    |      | 2    |      | 0    | 2    | 0    | 1    | 3    | 0    | 2    | 3    | 2    | 1    | 2    | 0    | 0    | 2    | 1    | 1    |
| Gifu       | 3    | 6    | 9    |      | 4    |      | 7    | 3    | 3    | 2    | 7    | 4    | 4    | 3    | 3    | 2    | 0    | 2    | 2    | 2    | 0    | 3    |
| Shizuoka   | 5    | 4    | 3    |      | 0    |      | 0    | 2    | 1    | 0    | 0    | 0    | 0    | 2    | 0    | 0    | 2    | 1    | 0    | 0    | 1    | 2    |
| Aichi      | 3    | 1    | 2    |      | 1    |      | 2    | 2    | 1    | 2    | 4    | 2    | 0    | 0    | 2    | 4    | 0    | 1    | 0    | 0    | 0    | 1    |
| Mie        | 3    | 4    | 2    |      | 1    |      | 2    | 0    | 1    | 0    | 0    | 1    | 0    | 2    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Shiga      | 1    | 0    | 2    |      | 0    |      | 1    | 2    | 3    | 0    | 0    | 0    | 2    | 0    | 4    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Kyoto      | 2    | 1    | 1    |      | 3    |      | 2    | 4    | 4    | 1    | 1    | 1    | 0    | 0    | 0    | 2    | 1    | 1    | 0    | 1    | 3    | 0    |
| Osaka      | 12   | 8    | 5    |      | 3    |      | 5    | 7    | 8    | 6    | 0    | 4    | 2    | 3    | 4    | 1    | 2    | 2    | 1    | 2    | 2    | 2    |
| Hyogo      | 7    | 3    | 5    |      | 3    |      | 5    | 1    | 3    | 3    | 1    | 1    | 2    | 2    | 0    | 2    | 2    | 1    | 0    | 3    | 3    | 2    |
| Nara       | 4    | 1    | 0    |      | 1    |      | 0    | 2    | 2    | 2    | 0    | 1    | 2    | 0    | 2    | 0    | 2    | 0    | 5    | 2    | 2    | 1    |
| Wakayama   | 3    | 1    | 2    |      | 2    |      | 1    | 2    | 1    | 3    | 0    | 1    | 1    | 0    | 2    | 0    | 3    | 0    | 0    | 1    | 0    | 1    |
| Tottori    | 3    | 4    | 3    |      | 2    |      | 0    | 0    | 2    | 1    | 3    | 2    | 1    | 3    | 1    | 0    | 1    | 1    | 2    | 0    | 1    | 2    |

|           |     |     |     |  |     |  |     |     |     |     |     |    |    |     |     |    |    |    |    |    |    |     |
|-----------|-----|-----|-----|--|-----|--|-----|-----|-----|-----|-----|----|----|-----|-----|----|----|----|----|----|----|-----|
| Shimane   | 9   | 3   | 4   |  | 3   |  | 9   | 1   | 1   | 2   | 3   | 5  | 0  | 1   | 0   | 1  | 4  | 0  | 1  | 0  | 3  | 0   |
| Okayama   | 7   | 5   | 4   |  | 9   |  | 2   | 5   | 7   | 5   | 6   | 4  | 3  | 6   | 6   | 3  | 6  | 4  | 7  | 6  | 7  | 86  |
| Hiroshima | 13  | 8   | 8   |  | 3   |  | 6   | 5   | 5   | 4   | 0   | 6  | 3  | 2   | 3   | 2  | 0  | 3  | 5  | 2  | 9  | 0   |
| Yamaguchi | 1   | 7   | 3   |  | 0   |  | 3   | 4   | 0   | 1   | 1   | 0  | 0  | 3   | 0   | 1  | 1  | 0  | 0  | 1  | 1  | 0   |
| Tokushima | 9   | 1   | 3   |  | 2   |  | 3   | 1   | 0   | 1   | 1   | 0  | 0  | 2   | 1   | 0  | 1  | 2  | 1  | 0  | 0  | 0   |
| Kagawa    | 7   | 4   | 3   |  | 2   |  | 0   | 2   | 1   | 0   | 1   | 0  | 2  | 0   | 1   | 2  | 2  | 1  | 1  | 1  | 0  | 1   |
| Ehime     | 7   | 1   | 4   |  | 3   |  | 2   | 1   | 2   | 2   | 0   | 1  | 1  | 2   | 2   | 1  | 0  | 0  | 3  | 0  | 0  | 0   |
| Kochi     | 5   | 2   | 0   |  | 3   |  | 2   | 1   | 0   | 2   | 0   | 1  | 0  | 1   | 0   | 1  | 1  | 0  | 1  | 1  | 0  | 0   |
| Fukuoka   | 9   | 4   | 4   |  | 4   |  | 4   | 4   | 4   | 2   | 5   | 3  | 0  | 1   | 2   | 2  | 3  | 1  | 2  | 1  | 1  | 0   |
| Saga      | 2   | 2   | 1   |  | 6   |  | 4   | 4   | 3   | 1   | 1   | 2  | 5  | 7   | 1   | 0  | 1  | 0  | 2  | 1  | 2  | 1   |
| Nagasaki  | 4   | 6   | 3   |  | 4   |  | 3   | 2   | 2   | 9   | 1   | 4  | 1  | 0   | 1   | 1  | 3  | 2  | 0  | 2  | 0  | 1   |
| Kumamoto  | 4   | 4   | 3   |  | 0   |  | 0   | 3   | 1   | 2   | 1   | 1  | 0  | 5   | 2   | 2  | 1  | 3  | 2  | 4  | 1  | 2   |
| Oita      | 1   | 1   | 0   |  | 3   |  | 1   | 1   | 0   | 0   | 0   | 0  | 2  | 1   | 0   | 2  | 0  | 1  | 0  | 1  | 0  | 0   |
| Miyazaki  | 11  | 8   | 1   |  | 7   |  | 5   | 2   | 3   | 2   | 5   | 6  | 6  | 2   | 7   | 4  | 1  | 7  | 2  | 3  | 3  | 1   |
| Kagoshima | 4   | 4   | 1   |  | 2   |  | 0   | 1   | 0   | 1   | 4   | 1  | 0  | 0   | 2   | 3  | 2  | 1  | 2  | 1  | 1  | 2   |
| Okinawa   | 0   | 0   | 2   |  | 1   |  | 0   | 0   | 0   | 0   | 0   | 0  | 1  | 0   | 0   | 0  | 0  | 0  | 1  | 0  | 0  | 0   |
| total     | 217 | 169 | 151 |  | 144 |  | 113 | 109 | 119 | 100 | 106 | 95 | 72 | 105 | 102 | 81 | 71 | 62 | 73 | 76 | 78 | 131 |

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)

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**Fatal accidents in over/under wear in Japan in 1999-2020**

over/under wear industry Code No.010301

**Type of fatal accidents in over/under wear in 1999-2020**

| Type of accidents     | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| fall from height      | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| falling to same level | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| crash                 | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| struck by flying or   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    |



|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| construction machine                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| metal manufacturing machine         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| general machine                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| mobile silviculture machine         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0 | 0 | 0 | 0 | 0 | 0 |
| crane                               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| conveying machine                   | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| vehicle                             | 1 | 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 |
| chemical facilities                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| welding equipment                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| kiln, caldron                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| electric equipment                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| human power machine, tools          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| tools                               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| natural environment                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| other causal agent                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| no causal agent                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| unclassifiable                      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| total                               | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

















|           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Oita      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Miyazaki  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kagoshima | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Okinawa   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| total     | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |

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

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