

Fatal and non-fatal accidents in warehousing in Japan in 1999-2022

warehousing industry Code No.080401

Type of accidents in warehousing in 1999-2022

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
fall from height	70	84	97	84	80	99	71	87	88	88	68	72	75	96	86	74	88	104	118	93	107	94	96	92	2,111
falling to same level	55	58	54	59	46	57	52	59	67	93	83	72	86	106	96	106	110	123	132	138	148	143	170	226	2,339
crash	25	22	27	20	33	32	31	28	34	35	40	30	30	38	40	40	65	47	38	46	57	52	58	77	945
struck by flying or falling object	22	26	30	25	39	24	26	35	29	33	26	31	27	24	26	38	23	32	38	35	39	40	34	39	741
collapse	7	11	19	10	17	20	12	22	17	18	18	14	13	16	17	14	13	11	12	18	26	16	23	8	372
crashed by	26	28	18	36	34	31	42	31	37	48	45	23	45	41	55	50	53	45	56	53	62	61	72	63	1,055
caught in/between	74	72	76	85	95	57	82	86	94	73	67	75	67	75	82	72	86	86	86	85	73	86	97	82	1,913
cut	10	10	9	17	9	13	8	10	14	16	10	14	19	18	13	11	6	8	12	24	14	13	14	22	314
injury to the sole of the foot	1	1			1	2					1			1	2	1		1		1		1		1	14
drown				1									2	1											4
contact to high/low-	3	2	2	1	2		4	6	2	1	3	7	3	5	8	5	5	5	5	9	14	8	3	14	117

temperature																									
contact to harmful substance	1		1	2	1	1		2	2			3	3		1	1			1		4	3			26
electric shock															1						1				2
explosion																									
burst																							1	1	
fire							1	1			1													3	
traffic accident (public road)	6	8	4	6	7	6	4	5	3	6	9	4	5	4	11	2	5	4	9	5	3	6		1	123
traffic accident (others)						1	1												1				1	1	5
reaction to motion/improper motion	39	40	33	40	36	45	49	47	49	48	38	51	65	69	73	86	103	80	110	103	114	151	178	187	1,834
others		3	3		4	4	2	1	1	4	2	2	4	1	2	1	1	2	2	4	4	10	35	6	98
unclassifiable	1				2		1	2		1				2	1		1		1			1		1	14
total	340	365	373	386	406	392	386	422	437	464	411	398	444	497	513	502	559	548	620	615	666	685	781	821	12,031

Causal agents (large) of fatal and non-fatal accidents in warehousing in 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
machine	13	9	11	15	13	18	10	13	12	11	9	12	8	9	9	8	7	10	11	12	9	14	16	11	270

construction machine						2									1		1				1		2		7	
metal manufacturing machine	3			1		1			1	1	1	1					2		1	1	2	1	2	1	2	21
general machine	9	6	10	8	10	9	8	12	8	7	4	7	7	3	8	4	4	6	10	9	7	11	11	8	186	
mobile silviculture machine																										
crane	8	9	12	12	12	1	6	11	7	8	5	3	4	3	9	4	3	3	4	6	5	5	5	4	149	
conveying machine	110	127	121	113	140	110	127	121	140	124	131	96	107	110	126	117	116	145	128	122	147	145	129	136	2,988	
vehicle	7	4	2	6	6	4	3	6	5	5	8	5	4	4	10	2	3	5	8	7	10	4	1	4	123	
pressure vessel	1	1		1							1			1				1			1				7	
chemical facilities																										
welding equipment				1											1						1				3	
kiln, caldron			1																						1	
electric equipment					1			1		1			1		1	1			1	1	2		2	1	13	
human power machine, tools	14	20	15	37	26	28	32	29	30	32	28	33	48	53	51	41	53	49	75	78	70	78	99	107	1,126	
tools	27	35	46	31	47	43	25	52	46	68	42	39	53	57	69	65	74	56	74	68	74	81	92	99	1,363	
other equipments,	6	3	8	6	4	7	8	7	12	9	12	12	5	8	11	20	11	14	19	15	16	13	10	16	252	

facilities																									
temporary buildings, establishments	62	74	54	61	58	83	61	69	70	95	87	82	86	101	86	89	106	131	130	127	136	132	148	161	2,289
hazards, harmful substances	1	2	1	1	1	1	1	3	1		2	1		2	2	1			2		5	2			29
materials	26	17	24	19	20	12	22	16	29	19	12	14	14	18	16	22	29	11	20	23	11	13	22	22	451
load	49	45	59	63	56	59	66	66	65	64	54	69	68	84	74	80	100	79	88	100	110	114	126	148	1,886
natural environment	2	1	6	1	2	3	8	9	5	7	5	15	19	15	19	20	11	11	13	12	17	7	19	28	255
other causal agent	2	4	7	3	8	8	3	2	3	7	3	2	4	6	5	6	5	4	8	6	6	10	41	16	169
no causal agent	10	14	6	16	11	14	11	15	11	12	11	15	22	24	24	24	38	29	38	37	46	67	70	66	631
unclassifiable	2				1	1	3	2	1	2	1		1	2		2	3		1	1			1	2	26
total	340	365	373	386	406	392	386	422	437	464	411	398	444	497	513	502	559	548	620	615	666	685	781	821	12,031

Causal agents (small) of fatal and non-fatal accidents in warehousing in 1999-2022

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine														1				1							2
power transmission mechanism							1			1	1	1		1		2	1						1		9
circular sawing			1		3					1	1	1		4		2				1		1			15

high/cold temperature environment			3				4	4	3	2		6	2	2	7	5	6	5	5	7	14	5	3	13	96
other environments			3		2		3	5	1	4	5	8	15	12	12	15	4	6	7	5	3	2	16	12	140
other causal agent			7		8		3	2	3	7	3	2	4	6	5	6	5	4	8	6	6	10	41	16	152
no causal agent			6		11		11	15	11	12	11	15	22	24	24	24	38	29	38	37	46	67	70	66	577
unclassifiable					1		3	2	1	2	1		1	2		2	3		1	1			1	2	23
total	340	365	373	386	406	392	386	422	437	464	411	398	444	497	513	502	559	548	620	615	666	685	781	821	12,031

Workers age of fatal and non-fatal accidents in warehousing in 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
19 years old or less	8	15	10	14	10	10	15	9	8	13	9	13	12	9	13	11	14	11	11	19	7	13	16	16	286
20-29	79	82	80	82	85	68	64	71	81	73	66	65	54	67	85	79	67	69	73	72	82	82	88	92	1,806
30-39	59	80	76	65	94	97	90	102	113	97	96	90	87	107	112	115	107	112	104	89	102	126	127	117	2,364
40-49	71	52	75	83	73	84	86	79	92	101	101	84	103	120	125	113	148	132	168	159	162	157	181	190	2,739
50-59	88	107	96	113	109	96	92	119	101	118	89	90	119	124	97	124	129	132	167	170	192	188	235	236	3,131
60 years old or more	35	29	36	29	35	37	39	42	42	62	50	56	69	70	81	60	94	92	97	106	121	119	134	170	1,705
total	340	365	373	386	406	392	386	422	437	464	411	398	444	497	513	502	559	548	620	615	666	685	781	821	12,031

Workers' number of workplace of fatal and non-fatal accidents in warehousing in 1999-2022

Chiba	17	19	17		21		21	12	17	28	32	38	57	49	24	38	24	29	37	42	51	35	31	41	680
Tokyo	31	25	26		20		25	20	25	33	27	30	24	28	28	30	37	33	52	47	49	57	66	67	780
Kanagawa	26	38	30		31		22	17	36	25	25	13	23	28	33	45	35	50	22	34	37	47	37	46	700
Niigata	5	4	3		4		3	6	5	5	5	12	6	5	5	7	8	10	15	7	13	7	5	18	158
Toyama	1		3		3			2	4	5	1	2	3	4	3	4	1	2		3	2	2	1	2	48
Ishikawa		1	1		2		2	4	4	4	5	4	3	3	3	3	6	3	4	5	7	7	4	3	78
Fukui	3	8	2		3		2	1	4	5	5	4	2	3	6	2	2	4	6	6	1	2	4	4	79
Yamanashi	1		1				2		2	1		2	2	1	1	3	4	1	2	3	3	2	12	4	47
Nagano	1	1	6		1		7	2	6	2	6	5	3	2	2	1	5	3	7	4	13	6	9	6	98
Gifu	4	3	5		6		3	8	5	4	3	7	6	5	6	7	11	6	15	13	20	15	4	9	165
Shizuoka	16	17	9		13		14	14	12	22	14	16	20	16	10	11	20	14	25	20	35	22	19	34	393
Aichi	33	32	33		33		29	25	28	43	28	30	26	27	20	26	22	26	33	28	34	43	38	40	677
Mie	6	9	9		10		5	8	5	4	6	7	7	7	3	7	7	3	3	8	10	7	4	12	147
Shiga	4	4	6		12		4	15	11	10	7	17	7	7	17	9	11	18	9	17	18	17	18	19	257
Kyoto	8	13	5		9		9	5	9	9	4	6	6	4	10	4	13	14	11	16	15	20	13	11	214
Osaka	37	36	50		48		42	60	60	57	58	29	35	71	67	58	52	52	77	69	71	80	107	98	1,314
Hyogo	16	14	21		15		13	26	20	17	18	19	25	15	14	28	28	27	33	26	29	29	31	37	501
Nara	1	1	2				4	3	3	4	1	3	2	5	3	4	8	2		4	7	3	6	1	67
Wakayama	4	3	2		3		2		2	2	2		1	1	3	1	2	5	2	1	2	5	4	6	53
Tottori	1	2							2		1					1	1		1	1			1		11
Shimane										1	1				1		1	2		1	1				8

Okayama	9	6	3		6		11	10	7	17	8	5	4	8	10	6	9	7	6	12	10	9	11	7	181
Hiroshima	9	6	4		9		13	18	15	17	18	19	19	11	17	5	15	10	15	12	13	16	19	31	311
Yamaguchi	2	1	1		1		3	3	1	3		2	1	5	2	3	4	2	5	1	7	4	3	6	60
Tokushima							3	1	1	1		1		2							1	2		1	13
Kagawa	4	2	2		3		1	2	2	1	3		1	3		3		1	2	2	7	4	2	5	50
Ehime	2	2			5		3	4	4	1	3	3	1	1		2	3		2	3	4	2	4	2	51
Kochi	2		1						1							1		1	1	1		1	4	2	15
Fukuoka	18	19	30		21		25	31	30	21	15	13	21	31	37	29	45	37	36	55	26	17	13	9	579
Saga	4	3			6		7	3	2	2	1	2	9	8	6	7	15	10	6	8	4	5	8	16	132
Nagasaki	5	5	4		5		2			1	2	1		1	2	2	3		3		1	3	3	7	50
Kumamoto	1	4	2		6		3			1	2	1	3	2	5	3	5	3	2	1	1	2	5	3	55
Oita					1		1	2	2				1		1					1	1	1		3	14
Miyazaki		1	1						1	4		2	1		1	3	8	5	3	2	2	4	1	4	43
Kagoshima	4	6	2		8		4	5		6	4	6	2	9	7	3	6	9	4	10	4	7	7	9	122
Okinawa	1	1								1		1	2		4	1		5	1	2	1	7	6	3	36
total	340	365	373	386	406	392	386	422	437	464	411	398	444	497	513	502	559	548	620	615	666	685	781	821	12,031

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

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

20-29	1	1	1		1					1		1		2					1						9
30-39	2	1		2		2	1	1	1			2	2	2			1	2		1	1				21
40-49						1	2			2		1	3	1	1	1			1	1		1	1		16
50-59		1	2	1	4	3		1	3	1	1	1							2		1				21
60 years old or more	1	1		2	2			4	1					1	1		1	1		1			1	2	19
total	4	4	3	5	7	6	3	6	5	4	1	5	5	6	2	1	2	3	4	3	2	1	2	2	86

Workers' number of workplace of fatal accidents in warehousing in 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
9 workers or less	1	1	1		1			3	2	2	1	1	1	2	1				1			1		1	20
10-29	1	2	2	2	5	4	1		1			2	3	2		1	1	2	1		1		1		32
30-49	1	1		3		1	1	1				2			1		1	1	2	2	1		1	1	20
50-99	1				1			1	1	1				1											6
100-299							1	1		1			1							1					5
300 workers or more						1			1					1											3
total	4	4	3	5	7	6	3	6	5	4	1	5	5	6	2	1	2	3	4	3	2	1	2	2	86

Month of fatal accidents in warehousing in 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
January					2									1						1					4

total	4	4	3	5	7	6	3	6	5	4	1	5	5	6	2	1	2	3	4	3	2	1	2	2	86
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html