







general machine	228	224	267	230	255	233	198	187	217	182	161	185	146	124	150	142	156	132	133	147	146	109	120	116	4,188
mobile silviculture machine																									
crane	452	481	491	445	436	383	436	401	403	394	314	305	303	281	273	284	276	285	303	306	285	261	276	279	8,353
conveying machine	374	381	322	340	327	319	292	316	301	263	224	230	209	231	208	256	203	187	233	204	199	197	226	189	6,231
vehicle	51	46	51	36	41	34	29	42	32	32	32	36	21	28	26	20	21	30	26	30	19	24	23	32	762
pressure vessel	9	13	10	5	5	6	5	2	7	8	5	7	3	6	5	5	3	2	4	10	1	3	4	3	131
chemical facilities		2	1	4	1	6	3	1		1	2	1			1	1	3	2	1		1	1	1	3	36
welding equipment	119	114	98	98	88	89	78	86	98	92	66	42	56	60	70	64	56	71	63	56	58	64	47	55	1,788
kiln, caldron	15	12	15	6	16	13	3	2	6	12	6	9	7	5	4	7	6	4	11	6	6	2	5	2	180
electric equipment	11	9	7	6	6	12	5	7	9	9	6	5	10	4	6	3	11	4	8	9	5	4	4	3	163
human power machine, tools	214	210	208	174	183	166	167	178	180	145	128	128	106	113	106	110	102	116	105	134	114	112	133	145	3,477
tools	525	566	555	443	473	452	501	470	513	471	391	343	357	314	324	310	337	321	321	299	334	266	283	308	9,477
other equipments, facilities	81	98	87	81	81	92	81	96	81	77	70	65	57	64	66	75	71	80	45	70	74	57	64	73	1,786
temporary buildings, establishments	558	578	616	539	534	507	518	538	482	497	410	377	426	386	348	379	381	366	373	414	368	373	372	374	10,714
hazards, harmful substances	49	54	46	34	44	42	36	44	41	41	27	31	25	37	47	34	41	24	20	23	32	29	20	30	851
materials	1,887	1,726	1,648	1,467	1,372	1,371	1,247	1,261	1,220	1,165	937	826	819	844	790	836	797	779	791	820	676	646	657	682	25,264











conveying machines			14		19		15	18	7	17	12	13	12	12	5	14	12	9	9	7	6	3	12	4	220
cars, bus, motorcycle			48		38		29	37	28	32	29	32	21	27	24	20	20	29	25	29	19	24	19	31	561
railway vehicle																							1		1
other vehicles			3		3			5	4		3	4		1	2		1	1	1	1			3	1	33
boiler			1						2	1	1				1									1	7
pressure vessel			2				2	1	1			2	1	1	1	2	2		1	3	1		2		22
other pressure vessels			7		5		3	1	4	7	4	5	2	5	3	3	1	2	3	7		3	2	2	69
chemical facilities			1		1		3	1		1	2	1			1	1	3	2	1		1	1	1	3	24
gas welding equipment			25		15		16	14	20	14	15	8	16	8	13	13	8	16	12	13	13	12	4	13	268
arc welding equipment			27		29		27	31	40	45	36	17	24	28	32	23	22	33	29	20	22	28	24	20	557
other welding equipment			46		44		35	41	38	33	15	17	16	24	25	28	26	22	22	23	23	24	19	22	543
kiln, caldron			10		12		3	2	3	9	4	7	5	3	4	6	4	4	9	5	4	2	5	2	103
industrial dryer			2		2				3	3	1	2	1	1		1			2		2				20
other kiln, caldron			3		2						1		1	1			2			1					11
transmission			4		1		2	3	5	4	2	1	3	3	1	1	9	4	2	6	4	2	2	3	62
electric power facilities			1		2		1	1	2	1	3	1	3	1	2		1		1	2	1	1			24
other electrical			2		3		2	3	2	4	1	3	4		3	2	1		5	1		1	2		39





water								1		3		3	16			3	1	1	1			2		2	33
abnormal environment			1						3			1		1	1		1		1	4	1		1	1	16
high/cold temperature environment			11		5		5	9	3	7	8	27	24	19	23	13	10	12	15	31	17	32	8	15	294
other environments			19		12		15	12	15	10	8	5	18	11	13	15	7	24	19	26	7	16	14	13	279
other causal agent			50		34		22	21	29	28	19	14	20	19	18	15	14	17	18	29	23	20	220	10	640
no causal agent			93		113		117	119	95	99	102	85	99	81	98	97	92	95	91	92	91	84	105	103	1,951
unclassifiable			5		8		5	8	12	7	7	1	1	2	3	5	3	4	4	4		1	3	2	85
total	6,967	7,001	6,626	5,847	5,895	5,633	5,360	5,483	5,428	5,018	4,004	3,825	3,878	3,763	3,676	3,766	3,661	3,549	3,538	3,694	3,457	3,157	3,464	3,299	109,989

Workers age of fatal and non-fatal accidents in other metal products 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	280	257	275	226	231	191	195	162	182	138	103	102	116	118	127	132	121	102	83	96	80	64	73	60	3,514
20-29	1,349	1,366	1,269	1,101	1,092	1,021	975	980	965	880	722	714	680	674	653	699	670	625	663	632	624	546	613	576	20,089
30-39	1,088	1,106	1,082	1,085	1,088	1,127	1,067	1,154	1,133	1,084	843	863	802	781	763	745	735	672	660	700	618	551	605	593	20,945
40-49	1,290	1,266	1,091	915	976	879	827	860	859	810	720	726	779	774	798	814	786	824	760	839	775	732	776	720	20,596
50-59	2,098	2,149	1,997	1,706	1,625	1,568	1,457	1,408	1,348	1,160	864	726	722	665	620	639	590	640	673	673	677	619	740	711	26,075
60 years old or more	862	857	912	814	883	847	839	919	941	946	752	694	779	751	715	737	759	686	699	754	683	645	657	639	18,770
total	6,967	7,001	6,626	5,847	5,895	5,633	5,360	5,483	5,428	5,018	4,004	3,825	3,878	3,763	3,676	3,766	3,661	3,549	3,538	3,694	3,457	3,157	3,464	3,299	109,989



September	631	615	523	494	499	504	446	474	439	415	359	347	340	309	295	312	286	320	310	293	287	288	281	294	9,361
October	572	611	591	581	532	523	454	494	475	446	312	294	322	288	359	358	344	288	341	351	297	288	293	259	9,673
November	534	563	520	468	417	468	418	456	411	396	337	337	324	291	320	301	295	285	275	301	281	239	292	261	8,790
December	562	558	482	416	400	434	365	399	409	331	268	284	313	256	270	269	257	250	269	272	251	255	249	253	8,072
total	6,967	7,001	6,626	5,847	5,895	5,633	5,360	5,483	5,428	5,018	4,004	3,825	3,878	3,763	3,676	3,766	3,661	3,549	3,538	3,694	3,457	3,157	3,464	3,299	109,989

Prefecture of fatal and non-fatal accidents in other metal products in 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
Hokkaido	257	246	229		166		164	164	157	150	108	96	97	92	96	108	115	97	113	101	89	96	89	70	2,900
Aomori	38	34	42		25		33	32	27	34	19	13	23	25	19	21	20	17	30	31	28	20	22	21	574
Iwate	49	62	45		47		37	30	22	20	16	26	18	26	25	22	22	27	17	17	22	21	19	26	616
Miyagi	80	65	61		57		57	53	54	55	44	54	43	39	46	42	43	49	42	54	37	40	46	28	1,089
Akita	51	46	32		23		25	35	23	26	35	13	26	16	34	26	26	22	26	16	20	13	24	17	575
Yamagata	52	51	51		47		39	56	45	33	33	30	31	26	42	28	38	33	28	33	30	26	40	29	821
Fukushima	90	98	98		76		86	68	80	59	54	51	61	59	48	59	49	29	41	42	40	41	37	41	1,307
Ibaraki	186	214	182		176		130	163	139	140	102	111	116	147	143	130	116	129	125	130	121	92	116	106	3,014
Tochigi	116	116	107		102		110	95	89	94	88	51	66	70	68	64	74	93	75	74	60	54	119	64	1,849
Gunma	198	198	165		175		173	157	156	166	102	101	99	109	105	99	91	97	93	107	83	95	90	83	2,742
Saitama	303	257	273		277		263	256	233	256	205	165	171	188	187	199	150	187	148	164	171	172	158	172	4,555
Chiba	288	291	310		297		265	265	248	250	237	217	196	189	161	194	208	181	161	170	173	182	162	164	4,809
Tokyo	237	201	204		173		140	133	150	128	97	85	83	92	73	83	87	91	75	95	57	57	57	42	2,440
Kanagawa	312	321	318		245		227	238	196	192	176	156	145	141	145	149	151	118	138	137	140	105	127	128	4,005

Niigata	235	203	183		166		118	178	160	129	103	111	109	104	111	124	104	102	87	98	124	114	122	109	2,894
Toyama	117	126	124		88		81	89	60	88	76	75	58	67	69	58	51	68	74	64	56	52	58	54	1,653
Ishikawa	50	79	59		41		59	55	60	40	25	25	37	33	51	33	31	29	45	39	19	24	32	27	893
Fukui	41	45	40		27		32	27	39	33	26	24	25	34	34	23	30	35	27	30	29	22	21	26	670
Yamanashi	24	23	27		26		24	17	20	28	14	15	13	14	23	20	18	16	18	18	18	22	18	17	433
Nagano	85	90	82		78		84	75	64	73	63	58	54	65	50	54	58	49	63	56	57	53	66	66	1,443
Gifu	153	160	129		138		117	136	119	119	85	99	99	99	86	96	96	93	87	96	81	73	90	74	2,325
Shizuoka	276	263	236		219		205	220	196	217	152	155	144	158	145	135	154	128	145	163	168	145	137	128	3,889
Aichi	647	607	588		529		447	463	484	398	328	301	328	282	324	315	315	296	281	308	316	288	315	300	8,460
Mie	160	160	137		137		108	100	129	124	84	85	97	75	93	96	106	80	80	74	85	63	69	69	2,211
Shiga	54	79	74		88		63	65	67	62	52	51	45	41	64	66	51	52	59	54	49	38	54	50	1,278
Kyoto	104	105	113		55		65	71	83	71	55	55	55	56	58	51	55	40	51	38	47	48	51	37	1,364
Osaka	929	1,004	934		817		748	777	761	598	556	549	506	467	445	433	386	421	392	426	388	326	380	392	12,635
Hyogo	342	425	391		348		345	344	334	327	252	257	263	229	213	202	231	188	210	238	178	187	176	200	5,880
Nara	60	57	36		49		54	43	48	41	27	39	34	46	38	53	37	29	27	44	40	28	48	21	899
Wakayama	52	59	46		50		45	44	55	58	47	39	45	54	22	34	36	41	41	37	24	30	38	29	926
Tottori	16	18	15		9		10	13	10	11	8	6	5	7	8	11	7	6	11	10	7	7	11	10	216
Shimane	14	16	26		12		19	14	12	14	17	14	7	4	4	11	8	12	10	18	6	12	7	13	270
Okayama	136	116	120		111		97	108	113	76	68	65	69	69	67	67	74	62	74	69	62	62	89	83	1,857
Hiroshima	256	257	233		211		206	195	175	174	120	123	149	138	128	132	118	138	126	141	106	93	107	110	3,436
Yamaguchi	102	66	92		96		64	77	62	68	38	47	42	44	34	42	43	45	40	37	46	47	48	45	1,225
Tokushima	33	30	22		23		21	17	22	9	11	18	14	15	20	14	13	15	17	17	13	12	13	16	385
Kagawa	102	96	105		92		83	65	100	76	51	65	59	62	58	50	55	49	53	52	67	57	51	50	1,498

Ehime	106	98	97		98		79	80	88	83	63	64	59	47	39	49	48	47	54	43	50	45	30	41	1,408
Kochi	29	36	19		36		32	29	31	26	17	11	13	19	15	23	17	10	17	11	24	10	11	14	450
Fukuoka	251	267	271		216		182	179	254	212	159	126	166	136	147	151	159	142	149	146	126	110	134	151	3,834
Saga	46	34	35		31		20	23	38	48	26	30	35	30	19	36	32	33	30	32	19	32	31	26	686
Nagasaki	93	56	72		55		63	64	68	71	47	37	50	55	37	48	48	54	42	46	67	48	50	49	1,220
Kumamoto	67	82	70		66		47	59	57	52	40	35	46	28	23	36	29	35	32	45	35	25	33	40	982
Oita	49	64	53		43		29	56	39	36	30	32	29	30	28	37	28	25	30	33	35	29	21	27	783
Miyazaki	23	21	26		23		27	23	25	24	14	18	14	14	11	11	16	15	14	16	10	12	14	9	380
Kagoshima	43	39	41		21		27	25	28	16	28	18	27	13	11	18	10	15	27	18	24	23	20	15	507
Okinawa	15	20	13		10		10	7	8	13	6	9	7	9	9	13	7	9	13	6	10	6	13	10	223
total	6,967	7,001	6,626	5,847	5,895	5,633	5,360	5,483	5,428	5,018	4,004	3,825	3,878	3,763	3,676	3,766	3,661	3,549	3,538	3,694	3,457	3,157	3,464	3,299	109,989

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)

Return to [https://www.jisha.or.jp/english/statistics/2022e\\_industry.html](https://www.jisha.or.jp/english/statistics/2022e_industry.html)

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Fatal accidents in other metal products in Japan in 1999-2022

other metal products industry Code No.011209







construction machine			1					1		1	1						1	1	1							7
metal manufacturing machine	3	7	6	6	4	8	2	6	4	2	1	5	1	4	6	3	3	3		2	1	3	5	3		88
general machine	1	2	1		1		1	2	2			2	2	1			3		1			2		2		23
mobile silviculture machine																										
crane	5	7	6	8	8	7	12	3	5	7	8	5	4	2	4	2	3	8	4	4	5	2	2	2		123
conveying machine	7	6	2	5	6	6	3	3	2	1	3	4	6	3	4	5	1	1	1		3	2	4	2		80
vehicle	2	1	4	2	2	2			1		1		1					1	1	1			2			21
pressure vessel			1																							1
chemical facilities																										
welding equipment	2		1	1	2					1			1	1			2	2								13
kiln, caldron	2		1		2	2										1										8
electric equipment	1																							1		2
human power machine, tools	1					1	2							1									1			6
tools	5	4	5	8	6	6	6	6	7	9	4	1	4	2	3	2	3	4	2		1	1	2	1		92
other equipments, facilities	1	3				1	1		3	1		1				1		2		1						15
temporary buildings, establishments	4	6	4	1		6	1	5	3	2	2	2	1	2	1	1	2	3	2	4	1		1			54
hazards, harmful substances	1	4		2	3		2		4		1			1	3		2									23
materials	4	8	7	6	4	3	6	3	9	6	3	6	3	4	6	2	6	3	5	3	4	3	1	2		107
load	1	1		1	2	2	1		1	2		1	2	1				1	1	1	1		1	1		21
natural environment	3		2	2	2		1	1		1		1	14	1	2	1				4		1	1			37
other causal agent	1			1		1					1												1			5
no causal agent							1	1					1	1		1	1					1				7









roof, beam, haze, crossbeam, principal rafter	2	1	1			4	1				1	1			1		1	2	1	1	1					18
working platform, boot board		1	1						1		1					1	1			1				1		8
passage									1			1	1													3
building, establishment	2	1	1	1					2	1	2															10
other temporary buildings, establishments		1	1											1						1						4
explosive substance		2					2																			4
inflammable substance		2			1									1	2											6
inflammable gas				1	1				1																	3
harmful substance	1			1					2		1				1		2									8
radiation																										
other hazards, harmful substances					1				1																	2
metal material	4	8	7	6	4	3	6	3	9	6	3	6	3	4	6	2	6	3	5	3	4	3	1	2		107
lumber, bamboo																										
stone, sand, substance																										
other materials																										
load	1	1		1	2	2			1	2		1	2	1				1	1	1			1	1		19
machine/equipment as load							1																	1		2
natural ground, rock	1																									1
standing tree																										
water									1				14													15
abnormal environment																					3			1		4





10-29	10	17	14	14	12	17	17	12	18	11	12	5	13	6	8	8	10	11	7	7	6	3	7	4	249
30-49	7	7	7	2	6	3	8	2	3	6	6	7	2	3	5	1	4	7	3	1	2	1	3	2	98
50-99	2	5	3	3	4	2	3	3	4	2		2	3	5	3	3	1	2	2		2	2	6	2	64
100-299	3	4	3	3	3	5	4	3	2	3		2	2	2	3	3	2		2	2	1	1	2	2	57
300 workers or more	1	1		1	2		2		1		2	1			1		1		1	1		1			16
total	45	49	41	43	42	45	40	31	41	34	27	28	40	24	29	20	28	29	18	20	17	14	21	15	741

Month of fatal accidents in other metal products 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	4	6	1	4	1	2	4	2	6	2	5	3		1		1	3		1	1	2			2	51
February	1	2	5	3	2	3	6	5	7	1	3	2	1	2	1	3	3	4	4			3	2	2	65
March	4	4	3	4	5	5	4	3	6	5	1	3	18	2	6	2	1	5			4			1	86
April	4	8	6	4	6	6	5			3		1	3				1	1	3		1		1	2	55
May	2	2	1	3	2	3	3	3	5	1	2	2		1	3	5	2	2	2	2	1	2	4	1	54
June	3	2	4	6	4	1	5	1		4	3	2	3	1	3		2	5	1		2	1	3	1	57
July	3	5	7	5	3	4	2	2	4	5	2	1	2	4	7		2	4	1	2		2	2		69
August	5	4	2		9	5	2	2	2	3		3	4	4		1	2	2	1	4		1	1	2	59
September	6	3	3	4	4	7	2	6	4	2	5	3	2	4	1	2	3	3	1	4	3	1	1		74
October	3	6	4	3	2	5	2	2	5	2	2	1	2		2	3	6		3	4		3	1	2	63
November	5	5	3	5	1	2	2	4		3	1	2	3	3	3		3	1	1		3	1	2		53
December	5	2	2	2	3	2	3	1	2	3	3	5	2	2	3	3		2		3	1		4	2	55
total	45	49	41	43	42	45	40	31	41	34	27	28	40	24	29	20	28	29	18	20	17	14	21	15	741

Prefecture of fatal accidents in other metal products in 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
Hokkaido	2	1		2	1	3	1	1					1	1		1	2	1	1		1				19
Aomori									1	1									1	2			1	1	7
Iwate						1	2	1					2					1							7
Miyagi		1				1	1		1				10				1								15
Akita				1											1										2
Yamagata			1							1			1										1		4
Fukushima	1		1		1				3				2								2				10
Ibaraki	1	2	2	4	2		3		2	3	3	3		2	1	1		1		1		1	1	1	34
Tochigi	2	1	3	1	1		1	2				1				2							1	1	16
Gunma	2	2	1	1	1	1	1	1						1				1				1			13
Saitama	6	4	1	2	3	2	1	2					1	2		1	1			3		1	2		32
Chiba	2	5	2	4	3	2	3	2	3	5	3	2	3	1		1	2	3		1		1	1	1	50
Tokyo	1	1	2	2	1	1	1	1						1	1	2	1	1							16
Kanagawa	2	2	1	1	2			1	1	3	2		1		1		1						1		19
Niigata		1	1	2		1		2	1		1				4			1		1			2	1	18
Toyama	1	1		1	4	1	1		2	2			1	2	1			1	1	1					20
Ishikawa				1		1	1					1				2									6
Fukui	1		1							2	1	1			1	1					1			1	10
Yamanashi				1		1			1	1									1				1		6



Kumamoto		1		1	1			1				1					1	1							7	
Oita		1					2				1			1			1						1			7
Miyazaki					1													1	1							3
Kagoshima								1															1			2
Okinawa		1																					1		1	3
total	45	49	41	43	42	45	40	31	41	34	27	28	40	24	29	20	28	29	18	20	17	14	21	15	741	

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

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