

general machine	283	274	325	297	304	293	242	236	258	218	192	222	183	154	175	171	184	157	172	190	191	127	146	144	5,138
mobile silviculture machine																									
crane	491	511	513	474	474	419	464	429	431	427	336	326	329	304	293	316	292	304	325	323	317	282	304	307	8,991
conveying machine	441	452	397	391	369	378	357	358	356	308	267	259	246	270	242	295	242	226	276	240	241	231	273	229	7,344
vehicle	61	48	61	41	45	42	32	49	39	44	36	41	27	29	30	26	22	34	28	33	22	25	27	35	877
pressure vessel	9	14	11	5	6	8	6	2	7	9	5	7	3	6	6	6	3	3	4	10	1	3	4	3	141
chemical facilities		4	1	7	2	8	4	1	2	4	4	2	2	1	1	3	5	3	1	2	4	1	2	4	68
welding equipment	135	137	119	118	105	101	90	105	114	109	76	51	64	71	76	85	62	86	70	71	71	74	57	73	2,120
kiln, caldron	18	19	19	11	18	15	7	2	12	12	12	14	8	9	9	12	9	6	14	7	9	8	7	6	263
electric equipment	11	9	11	6	9	14	6	9	11	11	8	5	10	7	6	4	11	6	8	10	5	7	4	4	192
human power machine, tools	268	256	249	223	227	203	201	218	221	191	149	160	133	141	131	144	132	141	145	163	146	138	162	181	4,323
tools	586	623	619	514	539	514	555	525	580	526	443	389	410	359	357	351	395	357	369	351	380	302	332	344	10,720
other equipments, facilities	107	116	108	101	99	116	103	110	97	100	84	81	72	78	77	92	77	107	65	83	94	67	86	90	2,210
temporary buildings, establishments	667	662	710	626	624	603	598	630	575	585	474	440	487	463	424	455	448	434	442	495	439	445	462	476	12,664
hazards, harmful substances	74	70	80	68	93	75	55	72	70	62	41	52	50	55	74	59	58	47	35	48	60	51	45	51	1,445
materials	2,072	1,914	1,843	1,688	1,523	1,548	1,418	1,439	1,394	1,318	1,042	948	917	946	896	940	888	869	912	930	796	741	734	774	28,490

conveying machines			22		22		20	19	9	22	14	14	17	14	8	15	13	14	12	11	11	5	18	6	286
cars, bus, motorcycle			58		42		32	44	35	44	33	37	27	28	28	26	21	33	27	32	22	25	23	34	651
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				2									1	8
pressure vessel			3				2	1	1			2	1	1	1	2	2		1	3	1		2		23
other pressure vessels			7		6		4	1	4	8	4	5	2	5	3	4	1	3	3	7		3	2	2	74
chemical facilities			1		2		4	1	2	4	4	2	2	1	1	3	5	3	1	2	4	1	2	4	49
gas welding equipment			26		15		17	15	21	15	16	8	17	8	13	13	9	17	12	15	14	12	4	14	281
arc welding equipment			32		33		30	39	47	50	38	17	26	29	34	27	24	36	30	21	24	30	25	22	614
other welding equipment			61		57		43	51	46	44	22	26	21	34	29	45	29	33	28	35	33	32	28	37	734
kiln, caldron			14		14		7	2	6	9	9	11	6	7	6	9	7	6	12	6	6	7	7	6	157
industrial dryer			2		2				6	3	2	3	1	1	3	2			2		3	1			31
other kiln, caldron			3		2						1		1	1		1	2			1					12
transmission			5		2		3	4	6	5	3	1	3	5	1	2	9	5	2	7	4	5	2	4	78
electric power facilities			3		3		1	1	3	1	3	1	3	2	2		1	1	1	2	1	1			30
other electrical			3		4		2	4	2	5	2	3	4		3	2	1		5	1		1	2		44

water			1		1			2		3		3	20			3	2	1	1			2		2	41
abnormal environment			1						3			1		1	1		1	1	1	4	1	2	1	1	19
high/cold temperature environment			13		6		7	11	6	8	9	34	27	21	26	14	12	15	16	37	21	36	10	15	344
other environments			19		13		15	13	15	12	8	6	22	15	18	21	10	26	24	33	10	20	17	18	335
other causal agent			57		39		30	25	33	32	21	19	22	23	22	19	23	19	23	34	31	21	264	10	767
no causal agent			123		140		140	148	114	125	115	104	110	105	122	118	106	111	110	119	112	100	127	133	2,382
unclassifiable			8		10		7	8	15	8	8	3	1	3	3	5	5	5	5	6		2	3	2	107
total	8,378	8,394	7,912	7,057	7,031	6,824	6,454	6,542	6,501	6,005	4,684	4,592	4,617	4,523	4,376	4,572	4,340	4,211	4,259	4,432	4,186	3,755	4,183	3,998	131,826

Workers age of fatal and non-fatal accidents in 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	321	300	318	268	275	248	228	197	202	165	115	118	131	137	144	152	142	109	95	110	98	73	83	72	4,101
20-29	1,563	1,597	1,522	1,327	1,311	1,236	1,169	1,181	1,134	1,051	826	851	810	805	792	837	786	742	781	749	737	644	717	700	23,868
30-39	1,305	1,350	1,292	1,313	1,296	1,360	1,288	1,382	1,353	1,294	974	1,034	957	945	895	922	893	808	795	828	754	664	739	709	25,150
40-49	1,584	1,515	1,312	1,101	1,146	1,071	1,017	1,032	1,036	991	848	864	929	950	954	1,006	921	978	946	1,007	955	866	938	858	24,825
50-59	2,523	2,573	2,383	2,053	1,946	1,889	1,724	1,658	1,610	1,368	1,016	886	859	805	731	764	707	760	803	845	821	749	924	879	31,276
60 years old or more	1,082	1,059	1,085	995	1,057	1,020	1,028	1,092	1,166	1,136	905	839	931	881	860	891	891	814	839	893	821	759	782	780	22,606
total	8,378	8,394	7,912	7,057	7,031	6,824	6,454	6,542	6,501	6,005	4,684	4,592	4,617	4,523	4,376	4,572	4,340	4,211	4,259	4,432	4,186	3,755	4,183	3,998	131,826

September	768	743	635	607	599	610	532	576	523	491	411	422	393	373	376	379	348	373	371	351	343	328	352	352	11,256
October	675	737	693	681	622	622	527	589	560	527	374	354	365	347	419	426	413	338	400	416	366	335	352	312	11,450
November	643	681	613	569	499	576	505	556	496	464	400	390	403	345	384	349	350	336	329	356	334	297	339	316	10,530
December	655	653	570	499	498	516	430	464	489	405	328	349	367	315	315	336	300	299	333	320	306	312	307	303	9,669
total	8,378	8,394	7,912	7,057	7,031	6,824	6,454	6,542	6,501	6,005	4,684	4,592	4,617	4,523	4,376	4,572	4,340	4,211	4,259	4,432	4,186	3,755	4,183	3,998	131,826

Prefecture of fatal and non-fatal accidents in 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	272	254	241		187		170	171	164	153	115	101	103	97	103	112	119	103	117	104	91	99	95	74	3,045
Aomori	41	34	43		26		34	33	29	38	21	14	23	25	19	21	23	17	32	31	32	21	22	22	601
Iwate	63	64	51		50		41	34	24	24	20	29	20	30	28	27	25	31	22	18	29	23	23	29	705
Miyagi	86	72	65		64		61	56	59	60	45	62	48	45	46	46	45	53	43	57	41	47	49	30	1,180
Akita	53	48	34		25		28	41	28	33	40	14	32	22	37	29	30	22	30	22	22	16	29	22	657
Yamagata	57	60	63		58		48	65	52	41	36	37	37	35	49	34	41	39	35	40	36	32	47	35	977
Fukushima	106	112	116		93		90	88	97	81	61	67	70	69	60	67	57	41	50	55	47	55	47	52	1,581
Ibaraki	232	278	235		205		149	185	166	163	114	136	146	159	165	156	141	145	154	149	141	118	142	127	3,606
Tochigi	140	142	129		120		126	107	98	104	97	61	74	76	75	73	84	104	81	82	70	65	126	75	2,109
Gunma	236	245	208		202		216	199	197	212	127	139	129	136	133	141	111	123	118	136	109	112	114	122	3,465
Saitama	378	353	364		350		318	313	302	311	252	213	209	236	224	239	201	215	191	208	198	196	195	193	5,659
Chiba	331	330	346		334		303	299	277	282	265	236	218	212	186	217	239	209	188	199	192	199	203	183	5,448
Tokyo	367	337	281		259		226	226	237	199	145	126	138	146	118	114	129	122	110	135	90	93	104	80	3,782
Kanagawa	369	372	356		270		267	273	240	218	197	183	165	172	166	172	169	133	159	153	152	116	146	151	4,599

Niigata	335	289	266		249		179	243	219	183	144	174	167	160	166	173	153	144	134	143	192	159	171	167	4,210
Toyama	132	134	141		101		93	100	69	94	81	84	63	77	76	67	63	77	78	69	58	60	69	68	1,854
Ishikawa	59	91	73		52		71	68	72	53	31	31	41	37	61	41	38	38	51	47	24	29	38	29	1,075
Fukui	47	45	46		29		34	28	41	34	27	25	28	36	39	28	33	37	29	37	32	22	24	27	728
Yamanashi	33	40	38		35		29	21	26	35	14	21	16	18	26	23	20	21	22	25	29	24	19	23	558
Nagano	108	107	111		108		113	104	91	94	73	76	66	79	72	77	81	73	85	73	76	71	81	93	1,912
Gifu	191	196	177		187		140	160	153	146	109	127	119	114	111	120	112	116	111	113	95	82	108	96	2,883
Shizuoka	351	324	276		279		246	268	261	269	173	181	188	189	194	188	192	162	181	206	208	191	168	169	4,864
Aichi	782	744	732		655		585	579	610	515	409	388	414	381	398	424	393	391	376	404	420	367	403	391	10,761
Mie	178	181	159		154		123	115	144	141	89	99	108	87	103	110	119	85	89	89	95	71	80	95	2,514
Shiga	68	103	86		102		76	83	85	76	57	55	50	54	76	77	58	60	72	64	60	41	66	55	1,524
Kyoto	119	120	134		73		84	86	101	84	70	66	67	63	65	63	63	54	63	46	58	60	57	46	1,642
Osaka	1,192	1,258	1,167		982		971	985	943	775	691	675	625	602	559	574	499	530	505	520	512	417	474	481	15,937
Hyogo	403	496	447		411		393	384	364	363	284	289	290	262	236	233	257	197	231	273	208	207	211	222	6,661
Nara	70	69	51		67		77	55	66	50	40	50	44	57	43	64	44	41	40	59	57	37	60	27	1,168
Wakayama	60	63	53		54		46	47	60	65	49	40	49	59	23	37	39	47	47	42	29	32	41	35	1,017
Tottori	17	22	18		14		12	15	15	15	10	6	6	10	9	13	9	7	14	13	9	8	15	10	267
Shimane	19	21	27		13		20	15	14	17	17	14	7	5	4	12	8	14	12	18	10	14	9	14	304
Okayama	149	125	130		122		109	120	124	86	74	69	76	79	69	78	80	68	83	73	64	70	97	88	2,033
Hiroshima	280	276	259		229		225	216	195	196	131	139	162	151	147	143	130	157	138	163	121	109	135	122	3,824
Yamaguchi	111	75	94		97		68	82	66	73	38	51	45	46	37	43	45	46	42	39	48	50	51	46	1,293
Tokushima	38	34	28		27		29	19	25	11	13	23	18	17	23	17	14	18	22	22	19	14	15	23	469
Kagawa	109	103	110		95		88	69	108	80	56	72	65	67	60	55	61	53	56	63	75	59	56	54	1,614

Ehime	109	101	103		105		86	84	89	88	67	67	64	49	43	51	50	51	57	49	51	48	31	43	1,486
Kochi	37	40	22		40		35	31	32	30	17	11	15	21	15	25	17	10	20	16	28	10	12	17	501
Fukuoka	289	305	295		243		204	195	275	232	173	138	181	150	164	174	170	155	166	159	144	123	148	162	4,245
Saga	50	37	39		35		21	26	38	49	31	31	38	33	21	39	34	35	33	35	20	32	34	28	739
Nagasaki	98	61	77		56		65	68	73	76	50	44	55	58	38	53	49	58	47	49	70	50	54	54	1,303
Kumamoto	75	85	76		69		55	66	66	60	48	41	56	31	28	36	31	39	36	51	39	29	39	50	1,106
Oita	53	67	56		44		32	58	40	38	31	34	30	32	29	39	28	25	30	35	36	30	22	27	816
Miyazaki	25	21	33		27		29	26	26	25	15	19	15	14	12	13	18	17	15	19	10	14	16	11	420
Kagoshima	43	40	43		23		28	29	32	18	29	24	30	14	11	20	10	19	29	22	28	26	24	20	562
Okinawa	17	20	13		11		11	7	8	15	8	10	7	11	9	14	8	9	15	7	11	7	13	10	241
total	8,378	8,394	7,912	7,057	7,031	6,824	6,454	6,542	6,501	6,005	4,684	4,592	4,617	4,523	4,376	4,572	4,340	4,211	4,259	4,432	4,186	3,755	4,183	3,998	131,826

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

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Fatal accidents in metal products in Japan in 1999-2022

metal products industry Code No.0112

construction machine			1					1		1	1						1	1	1							7
metal manufacturing machine	8	9	6	8	5	9	2	9	5	3	1	5	2	7	7	4	3	4		2	1	4	6	3	113	
general machine	1	2	1	1	2		1	3	2		1	2	2	1			4	1	1	1		2	1	2	31	
mobile silviculture machine																										
crane	5	7	6	9	8	8	12	4	5	7	8	5	4	2	4	3	3	8	4	4	6	2	2	2	128	
conveying machine	9	6	5	6	7	6	3	3	2	1	3	5	7	4	5	5	1	1	2		4	3	5	3	96	
vehicle	4	1	5	2	2	2			1		1		1					1	1	1			2		24	
pressure vessel			1																						1	
chemical facilities													1												1	
welding equipment	2		1	1	2					1			1	1			2	2							13	
kiln, caldron	3		1		2	2			1		1					1			1						12	
electric equipment	1										1													1	3	
human power machine, tools	1					1	2							1							1		1		7	
tools	5	4	6	9	7	6	6	6	7	9	4	1	4	2	3	2	3	4	2		1	1	2	1	95	
other equipments, facilities	1	3				1	1		3	1		1				2		2		2					17	
temporary buildings, establishments	5	7	5	1		6	2	5	3	2	2	2	2	3	1	1	3	3	2	4	1	1	1		62	
hazards, harmful substances	2	4		3	5	2	2	1	5		2		1	3	3		2		2				1		38	
materials	5	8	7	8	4	3	6	4	9	6	3	6	3	4	7	2	6	3	6	3	4	3	1	2	113	
load	2	1		1	3	2	1		1	2		1	2	1		1		1	1	1	1		1	1	24	
natural environment	3		2	2	2		2	1		1		2	16	1	2	1		1		4		1	1		42	
other causal agent	1			1		1					1									1			2		7	
no causal agent							1	1					1	1		1	1			1	1				8	

other pressure vessels																									
chemical facilities												1												1	
gas welding equipment																	1							1	
arc welding equipment	2		1	1	1					1						1	1							8	
other welding equipment					1							1	1			1								4	
kiln, caldron	2		1			2			1		1				1			1						9	
industrial dryer	1				2																			3	
other kiln, caldron																									
transmission											1											1	2		
electric power facilities																									
other electrical equipment	1																							1	
human power cranes	1																							1	
human power hauling equipment						1							1								1			3	
human power machine																						1		1	
hand tool							2																	2	
ladder	2		2	3	2			1	2	2			1	1					2			1		19	
slinging tool	3	4	4	5	5	3	6	5	5	6	3		3	1	3	2	3	4			1	1	1	1	69
other tools				1		3				1	1	1												7	
other equipment, facilities	1	3				1	1		3	1		1				2		2		2				17	
scaffolding		1				1																		2	
timbering																									
stairs, landing stage		1				1		3					1						2					8	
opening																	1							1	

roof, beam, haze, crossbeam, principal rafter	2	1	1			4	1				1	1	1		1		1	2	1	1	1				19
working platform, boot board		1	1						1		1				1	2			1			1			9
passage									1			1	1									1			4
building, establishment	3	1	2	1				2	1	2				1											13
other temporary buildings, establishments		2	1				1						1						1						6
explosive substance		2					2																		4
inflammable substance		2			1			1					2	2					1						9
inflammable gas				1	1				1																3
harmful substance	2			2	2	2			3		2		1	1	1		2		1				1		20
radiation																									
other hazards, harmful substances					1				1																2
metal material	5	8	7	8	4	3	6	4	9	6	3	6	3	4	7	2	6	3	6	3	4	3	1	2	113
lumber, bamboo																									
stone, sand, substance																									
other materials																									
load	2	1		1	3	2			1	2		1	2	1		1		1	1	1			1	1	22
machine/equipment as load							1														1				2
natural ground, rock	1																								1
standing tree																									
water								1					16												17
abnormal environment																	1		3			1			5

10-29	16	19	14	20	16	19	17	14	19	11	14	7	15	10	9	10	10	12	7	8	6	4	8	4	289
30-49	9	7	9	4	6	3	8	4	3	7	7	7	3	5	6	3	5	8	5	2	3	3	3	2	122
50-99	6	5	4	3	5	2	4	4	4	2	1	2	5	6	3	3	1	2	2		3	2	7	3	79
100-299	3	4	4	3	4	5	4	4	2	3		2	3	2	3	3	2	1	3	3	2	1	3	2	66
300 workers or more	1	1	1	2	2		2		1		2	1			1		1		1	1		1			18
total	59	52	47	52	49	49	42	38	44	35	31	30	47	31	32	24	30	33	23	24	20	17	26	16	851

Month of fatal accidents in 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	3	3	5	2	6	2	5	3		3		2	4		2	2	2		1	2	62
February	3	3	6	5	2	3	6	6	7	1	3	2	2	2	1	3	3	5	5			3	3	2	76
March	4	5	3	4	5	7	4	5	6	5	2	3	21	3	7	2	1	5	1		4			1	98
April	5	8	6	4	6	6	5	1		4	1	1	3	1			1	1	3	1	2		2	2	63
May	3	2	2	3	3	3	3	3	5	1	3	2	2	1	3	5	2	2	2	2	1	2	5	1	61
June	7	3	4	8	6	1	6	2		4	3	2	4	2	3		2	5	1		2	1	3	1	70
July	5	5	8	7	3	4	2	2	4	5	2	2	2	4	7	1	2	4	1	2	1	4	2		79
August	6	4	2		9	6	2	2	2	3		3	4	4		1	2	3	2	5		1	1	2	64
September	6	3	3	5	4	7	2	6	4	2	5	3	2	5	2	2	4	3	2	5	3	1	1	1	81
October	4	6	7	4	4	5	2	3	6	2	2	2	2		3	3	6		3	4	1	3	2	2	76
November	5	5	3	6	1	2	2	5	1	3	2	2	3	3	3	1	3	2	1		3	2	2		60
December	7	2	2	2	3	2	3	1	3	3	3	5	2	3	3	4		3		3	1		4	2	61
total	59	52	47	52	49	49	42	38	44	35	31	30	47	31	32	24	30	33	23	24	20	17	26	16	851

Prefecture of fatal accidents in 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				12				1								17
Akita				1											1										2
Yamagata			1							1			1										1		4
Fukushima	2		1		3				3				2								3				14
Ibaraki	1	2	2	4	2		3		2	3	3	3		2	1	1		1	1	1		1	1	1	35
Tochigi	2	1	3	1	1	1	1	2				1	1	1		2							1	1	19
Gunma	3	2	1	1	1	1	1	1			1			1	1			1				1			16
Saitama	7	4	1	3	3	2	2	2				1	1	3		2	1			3	1	1	2	1	40
Chiba	3	5	3	4	3	2	4	2	3	5	3	2	3	1		1	3	3		1		1	2	1	55
Tokyo	3	1	3	2	1	1	1	1					1	1	1	2	1	2		1			1		23
Kanagawa	2	2	1	2	3			2	2	3	3		1	2	1		1		1				1		27
Niigata	1	1	1	3		1		2	2		2				4			1		1			2	1	22
Toyama	1	1	1	1	4	1	1		2	2			1	2	1			2	1	1					22
Ishikawa				2		1	1					1				2									7
Fukui	1		1							2	1	1			1	1				1	1			1	11
Yamanashi				1		1			1	1								1	1	1			1		8

Kumamoto		1		1	1			1				1	1				1	1							8
Oita		1					2				1			1			1					1			7
Miyazaki					1													1	1						3
Kagoshima								1														1			2
Okinawa		1																				1		1	3
total	59	52	47	52	49	49	42	38	44	35	31	30	47	31	32	24	30	33	23	24	20	17	26	16	851

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

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