

Relation between causal agents and code no. 06 crashed by as type of Fatal and non-fatal accidents in 1999-2020

L	M	S	causal agent	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	total
		111	engine		2	2		3			3	3	4		2	3	1	1	1			2	1			28
	11		engine	5	2	2	1	3	2		3	3	4		2	3	1	1	1			2	1			36
		121	power transmission mechanism		2	5		10		3	6	6		1	2	3	2	3	4	1		1	4	1	2	56
	12		power transmission mechanism	7	2	5	1	10	5	3	6	6		1	2	3	2	3	4	1		1	4	1	2	69
		131	circular sawing machine		62	49		53		43	28	34	31	20	17	23	16	18	21	24	23	12	16	15	19	524
		132	band sawing machine		6	8		6		7	2	5	2	3	3	2	1	3	2	2	2	3	1	2	3	63
		133	wood planer machine		4	1		3		2	3		5		1	2	2		1	1	2	1	1	1	1	31
		134	hollow chisel mortiser, wood borer		2	6		1			4		2	2	3	1	2	2	1	2	1		4	3		36
		135	chamfering machine, router, woodworking milling machine		3	3		2					3			3	1	1	1	1	2			1		21
		136	chain saw		27	22		33		28	21	25	28	26	34	25	19	27	27	20	21	12	25	24	28	472
		139	other woodworking machines		51	56		51		35	33	32	25	24	32	24	33	19	22	27	15	16	21	29	22	567
	13		woodworking machine	175	155	145	124	149	115	115	91	96	96	75	90	80	74	70	75	77	66	44	68	75	73	2,128
		141	leveling, transporting or loading machine		62	75		74		57	52	71	57	58	56	43	49	52	43	51	48	57	44	56	40	1,045
		142	excavating machine		378	288		235		217	211	212	196	170	171	161	188	150	166	147	125	134	134	168	162	3,613
		143	foundation work machine		12	15		7		10	16	10	10	8	5	4	3	6	1	8	6	3	10	9	12	155
		144	hardening machine		23	41		32		23	31	24	28	16	30	21	22	14	18	20	16	11	8	15	9	402
		145	demolition machine		32	36		26		37	36	30	27	30	25	28	28	32	46	54	45	41	53	36	39	681
		146	vehicle for high lift work		3	6		2		6	6	1	6	6	7	1	6	4	1	9	1	6	3	3	3	80
		149	other construction machines		69	73		55		72	70	56	58	54	50	48	59	62	44	30	32	14	28	18	29	921
	14		construction machine	628	579	534	523	431	470	422	422	404	382	342	344	306	355	320	319	319	273	266	280	305	294	8,518

		151	lathe		24	24		15		13	17	22	19	14	19	9	11	13	9	16	14	10	12	12	9	282
		152	drill press, milling machine		20	26		31		19	20	23	21	9	10	11	10	14	14	8	11	7	10	9	8	281
		153	grinding machine, buffing machine		23	32		34		22	30	27	29	24	22	23	24	18	18	24	20	17	22	22	19	450
		154	power press		11	13		11		10	9	12	6	3	6	9	7	6	7	5	7	12	6	7	8	155
		155	forging pressure hammer		3	4		1		1	2	2	2			1	1		2	1				1	1	22
		156	shearing machine		3	5		3		2	1	2	1	2	3	3	2		1	1		3		2	1	35
		159	other metal manufacturing machines		55	62		42		32	46	38	30	24	26	13	27	31	17	22	29	23	28	20	18	583
	15		metal manufacturing machine	181	139	166	139	137	123	99	125	126	108	76	86	69	82	82	68	77	81	72	78	73	64	2,251
		161	centrifugal machine			1		2		1	2		1	4		2		1	1	1		2		4		22
		162	mixer, grinder		9	13		7		8	19	10	11	6	5	2	5	4	4	7	12	8	3	7	6	146
		163	roll machine (except printingroll machine)		1	2		6		3	7	1	4	2	2	3		4	4	1	1		4		1	46
		164	injection molding machine		2	5		3		4	3	4	5	2	2	1	1	2	1	1	3	3	3	1	3	49
		165	food manufacturing machine		22	22		19		31	11	14	20	16	10	16	17	17	10	17	10	18	17	17	18	322
		166	printing machine		6	5		2		1	2	9	5	2	2		2	2	3	1	3	2			1	48
		167	industrial robot		10	2		10		9	6	13	15	10	9	6	10	10	5	8	8	6	6	5	5	153
		169	other general power machines		203	229		179		169	170	165	164	134	140	122	143	128	131	134	117	122	152	130	128	2,860
	16		general machine	278	253	279	238	228	229	226	220	216	225	176	170	152	178	168	159	170	154	161	185	164	162	4,391
		171	felling machine																	21	24	14	18	15	27	119
		172	mobile logging machine																	6	2	3	4	5	4	24
		173	skyline yarding machine																	6	5	4	3	9	7	34
		179	other mobile silviculture machine																	1	1	1		1		4
	17		mobile silviculture machine																	34	32	22	25	30	38	181

1	machine	1,274	1,130	1,131	1,026	958	944	865	867	851	815	670	694	613	692	644	626	678	606	568	641	648	633	17,574	
	211	crane	253	290		210		232	235	217	234	162	171	138	136	138	153	139	126	147	132	157	123	3,393	
	212	mobile crane	197	190		177		156	137	125	124	118	109	90	102	131	112	107	106	96	119	106	95	2,397	
	213	derrick crane	1	3				1	2		1		1											9	
	214	elevator, lift	16	20		10		10	10	7	10	8	12	6	9	14	8	11	3	6	11	10	7	188	
	215	cargo lifting appliance	2	3		2		4	3	2	1	1	5	2	2	3	2	1	7	3	4	3		50	
	216	gondola		1				1	1			1	1			1					1			7	
	217	lumberyard equipment, logging cableway	37	29		18		21	22	15	20	13	17	14	18	8	13	9	8	4	5	5	5	281	
	218	simple skyline yarding equipment																3	1				1	5	
	219	other powered crane	34	27		18		31	24	15	19	11	19	18	21	17	13	17	9	11	14	20	15	353	
21	crane		541	540	563	497	435	408	456	434	381	409	314	335	268	288	312	301	287	260	267	286	301	246	8,129
	221	truck	343	270		256		305	271	262	269	223	226	220	217	226	234	210	186	206	206	240	240	4,610	
	222	forklift	628	669		658		633	636	680	693	488	495	521	497	499	534	494	489	526	557	630	493	10,820	
	223	railway equipment	5	7		4		2	2	3	6		3	2	1	3	2	4	2	4	4	3	3	60	
	224	conveyor	31	33		20		35	29	28	15	16	15	22	23	19	18	16	19	18	23	20	22	422	
	225	loader	12	9		15		8	9	6	9	4	2	11	8	3	7	12	7	7	7	14	11	161	
	226	straddle carrier	3					1	1		2		2				1						1	11	
	227	rough terrain hauler	3	5		6		5	4	2	6	4	1	5	1	1	3	1	2	1	2	1	1	54	
	229	other powered conveying machines	101	94		88		104	97	93	77	55	74	58	71	60	66	48	51	44	53	53	46	1,333	
22	conveying machine		1,068	1,126	1,087	1,064	1,047	1,080	1,093	1,049	1,074	1,077	790	818	839	818	811	865	785	756	806	852	961	817	20,683
	231	cars, bus, motorcycle	166	173		204		239	245	232	250	224	224	203	210	221	212	217	218	211	205	239	225	4,118	
	232	railway vehicle	7	7		3		4	2	4	2	3	2	5	4	3	4		5		2	9	1	67	
	239	other vehicles	48	58		54		67	57	57	35	39	40	59	44	49	83	84	31	41	42	32	21	941	
23	vehicle		232	221	238	232	261	313	310	304	293	287	266	266	267	258	273	299	301	254	252	249	280	247	5,903
2	crane, conveying machine		1,841	1,887	1,888	1,793	1,743	1,801	1,859	1,787	1,748	1,773	1,370	1,419	1,374	1,364	1,396	1,465	1,373	1,270	1,325	1,387	1,542	1,310	34,715
	311	boiler										1					2								3
	312	pressure vessel	3	5		3		4	3	2						1		3	1	2	1	1	2		31
	319	other pressure vessels	5	9		6		3	8	4	13	2	6	5	10	7	7	2	5	8	7	5	1	113	

	31	pressure vessel	11	8	14	17	9	10	7	11	6	14	2	6	5	11	9	10	3	7	9	8	7	1	185			
		321	chemical facilities			1		3		2	2	1	1	1			1	1	1	1					15			
	32	chemical facilities	2		1	1	3	1	2	2	1	1	1				1	1	1	1					19			
		331	gas welding equipment			3		1		1	1	2		5	1	2	1	1		1	1	1		3	3	27		
		332	arc welding equipment			1		1			3	2		1		1	1	1	2	1	2	4			23			
		339	other welding equipment			2		1			1	2			2	1	2							1		13		
	33	welding equipment	10	3	5	7	4	4	2	2	7	2	5	4	3	4	2	1	3	2	3	4	4	3	84			
		341	kiln, caldron			3		1		2		3	3	2		1	3	2	3		2	1	1	7		35		
		342	industrial dryer					1			1		2	1	1	1		1	2	2				1	4	17		
		349	other kiln, caldron			1			1									1	1					1		6		
	34	kiln, caldron	4	4	2	2	3	5	4	4	4	1	2	4	2	4	2	2	3	2	1	1	8	5	69			
		351	transmission			2				4	2	6	4	1		3	4		1	2		3	2	1	2	37		
		352	electric power facilities			2			1			1	1	1		3			2	3		2	1		2	19		
		359	other electrical equipment					5		4		2	3	2	6	4	1	4	4	1	2	2		4	2	2	3	51
	35	electric equipment	10	4	5	6	5	6	6	6	9	11	5	4	7	8	3	6	4	2	8	4	3	7	129			
		361	human power cranes			11	18		18		15	11	15	9	7	13	15	9	14	9	9	7	12	11	61	96	360	
		362	human power hauling equipment			354	358		416		432	478	548	522	457	481	527	513	477	498	582	596	628	661	619	622	9,769	
		363	human power machine			14	24		14		10	18	15	6	11	18	10	15	22	9	9	11	10	11	10	12	249	
		364	hand tool			314	299		264		236	213	257	203	173	155	157	164	153	155	128	139	138	142	149	145	3,584	
	36	human power machine, tools	726	693	699	721	712	690	693	720	835	740	648	667	709	701	666	671	728	753	788	825	839	875	16,099			
		371	ladder			15	19		9		23	13	16	18	12	12	8	19	18	12	9	15	13	15	12	9	267	
		372	slinging tool			83	97		90		79	90	83	91	70	57	55	60	56	53	52	62	48	61	56	41	1,284	
		379	other tools			260	281		227		249	266	259	273	201	201	226	196	239	222	243	266	235	249	254	232	4,579	
	37	tools	431	358	397	344	326	345	351	369	358	382	283	270	289	275	313	287	304	343	296	325	322	282	7,250			
		391	other equipments, facilities			156	139		119		156	155	143	138	111	148	123	148	146	142	130	148	150	146	143	150	2,691	
	39	other equipments, facilities	151	156	139	125	119	130	156	155	143	138	111	148	123	148	146	142	130	148	150	146	143	150	3,097			
3		other equipment	1,345	1,226	1,262	1,223	1,181	1,191	1,221	1,269	1,363	1,289	1,057	1,103	1,138	1,151	1,142	1,120	1,176	1,258	1,255	1,313	1,326	1,323	26,932			



		612	as load		52	49		41		52	40	60	46	32	33	35	34	36	37	44	25	24	36	34	29	739
	61		load	405	365	371	401	352	349	357	383	403	338	244	273	305	285	282	328	333	239	263	289	309	304	7,178
6			load	405	365	371	401	352	349	357	383	403	338	244	273	305	285	282	328	333	239	263	289	309	304	7,178
		711	natural ground, rock		30	21		22		16	23	17	22	22	10	9	10	12	13	8	10	15	5	4	11	280
		712	standing tree		409	449		407		397	383	426	401	398	473	453	382	326	331	330	321	290	296	303	314	7,089
		713	water		4	3		2			2	3	1	3	2	6	1	1	2	4	2	4	2	3	2	47
		714	abnormal environment		1								1				1				1	1	1			6
		715	high/cold temperature environment		1					1			1													3
		719	other environments		357	409		372		364	324	358	340	336	353	289	350	342	361	330	382	417	377	401	449	6,911
	71		natural environment	856	802	882	859	803	838	778	732	804	766	759	838	757	744	681	707	672	716	727	681	711	776	16,889
7			environment	856	802	882	859	803	838	778	732	804	766	759	838	757	744	681	707	672	716	727	681	711	776	16,889
		911	other causal agent		257	186		219		253	293	261	227	215	217	236	223	226	268	285	241	287	277	273	242	4,686
	91		other causal agent	232	257	186	219	219	265	253	293	261	227	215	217	236	223	226	268	285	241	287	277	273	242	5,402
		921	no causal agent		27	34		32		52	57	39	51	47	61	67	96	76	88	106	124	142	164	185	193	1,641
	92		no causal agent	30	27	34	31	32	37	52	57	39	51	47	61	67	96	76	88	106	124	142	164	185	193	1,739
		999	unclassifiable		11	23		18		13	16	14	32	14	25	11	13	20	6	7	7	14	9	6	10	269
	99		unclassifiable	24	11	23	24	18	14	13	16	14	32	14	25	11	13	20	6	7	7	14	9	6	10	331
9			others	286	295	243	274	269	316	318	366	314	310	276	303	314	332	322	362	398	372	443	450	464	445	7,472
0			total	7,113	6,740	6,764	6,500	6,075	6,299	6,215	6,204	6,263	6,002	4,921	5,206	5,111	5,141	4,942	5,196	5,166	4,982	5,119	5,373	5,609	5,346	126,287

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)

Return to <https://www.jisha.or.jp/english/statistics/2020enftcs.html>