

Relation between causal agents and code no. 03 crash 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		4	2		2		2	1	2	2		3		2	1	1	2	1	1	1		28	
	11		engine	3	4	2	1	2	1	2	1	2	2		3		2	1	1	2	1	1	1		33	
		121	power transmission mechanism		6	12		2		4	3	5	2	2		2	1	2	2			1	4	1		49
	12		power transmission mechanism	7	6	12	6	2	3	4	3	5	2	2		2	1	2	2			1	4	1		65
		131	circular sawing machine		11	7		1		7	10	5	5	5	4	6	4	4	7	3	2	2	5	3	5	96
		132	band sawing machine		1	2		1		2	4			1	1	1	2		1			2		1		19
		133	wood planer machine		4	1					1	1	1	1	1	1	2	2	1		1	1			1	19
		134	hollow chisel mortiser, wood borer			4		1		2	1			1												9
		135	chamfering machine, router, woodworking milling machine		2	1		1							2											6
		136	chain saw		1	2		2		2	3	3	1		6	2	1	3				2		3	1	32
		139	other woodworking machines		20	10		14		6	8	12	16	7	5	4	5	6	7	6	8	2	10	10	5	161
	13		woodworking machine	49	39	27	37	20	25	19	27	21	23	15	19	14	14	15	16	9	11	9	15	17	12	453
		141	leveling, transporting or loading machine		31	41		27		29	21	17	18	21	28	21	22	33	23	30	24	18	27	16	25	472
		142	excavating machine		65	64		37		56	43	44	34	34	34	42	36	38	36	31	36	35	27	23	40	755
		143	foundation work machine		6	1		2		2	1	3	2	2	1	1	2	2	3			3		2	1	34
		144	hardening machine		5	10		6		4	5	2	3	1	2	2	3	1	1	2	2	2	4	1		56
		145	demolition machine		11	3		9		9	2	6	5	3	4	5	1	5	6	4	9	7	7	6	8	110
		146	vehicle for high lift work		8	7		10		3	6	11	12	7	6	7	8	5	7	7	13	6	7	10	8	148
		149	other construction machines		25	18		19		15	18	12	12	9	22	11	14	13	13	6	16	10	12	11	5	261
	14		construction machine	153	151	144	125	110	126	118	96	95	86	77	97	89	86	97	89	80	100	81	84	69	87	2,240

		151	lathe		8	9		14		13	8	10	8	7	9	10	16	6	7	11	11	13	4	6	2	172
		152	drill press, milling machine		10	6		14		6	9	9	7	1	3	1	2	7	1	3	2	2	3	6	8	100
		153	grinding machine, buffing machine		8	6		6		4	7	12	15	3	4	6	2	3	10	8	5	12	8	8	3	130
		154	power press		11	2		11		4	2	7	2	1	1	2	2	5	6	6	4	5	3	2	4	80
		155	forging pressure hammer			2		1									2		1							6
		156	shearing machine		2	3				1			1		1		1	3			1	1	1			15
		159	other metal manufacturing machines		25	23		24		18	19	22	10	10	13	16	15	9	18	13	5	8	12	16	9	285
	15		metal manufacturing machine	74	64	51	47	70	52	46	45	60	43	22	31	35	38	35	42	42	28	41	31	38	26	961
		161	centrifugal machine		1	1				2		3	2				1		2				1			13
		162	mixer, grinder		2	6		6		9	4	8	5		5	5	3	3	8	2	3	2	9	6	8	94
		163	roll machine (except printingroll machine)		3	2		3		11	2	9	2	2		1	2	5	1	1		2	2	2	6	56
		164	injection molding machine		5	5		3		4	2	8	2	5	3	3	5	2	3	4	4	1	3	1		63
		165	food manufacturing machine		23	22		23		20	12	22	31	21	24	17	25	26	19	19	30	20	16	27	19	416
		166	printing machine		12	9		11		6	8	8	5	10	5	5	4	1	5	2	7	2	6	5	3	114
		167	industrial robot					1			1	4			1	2		1	1		2	1		1		15
		169	other general power machines		135	106		109		106	111	105	102	85	78	72	63	81	77	101	101	90	93	101	94	1,810
	16		general machine	159	181	151	153	156	171	158	140	167	149	123	116	105	103	119	116	129	147	118	130	143	130	3,064
		171	felling machine																	1	1	1		3	4	10
		172	mobile logging machine																	1	2			1	1	5
		173	skyline yarding machine																							
		179	other mobile silviculture machine																				1		1	2
	17		mobile silviculture machine																	2	3	1	1	4	6	17

1	machine	445	445	387		360		347	312	350	305	239	266	245	244	269	266	264	290	252	266	273	261	6,086	
	211	crane		27	39		26		36	32	28	27	20	16	27	19	24	13	22	15	13	20	18	13	435
	212	mobile crane		41	38		33		39	32	47	35	29	34	24	24	28	38	35	26	29	23	28	23	606
	213	derrick crane																							
	214	elevator, lift		5	11		9		8	13	13	10	10	3	10	9	10	10	10	8	13	8	13	10	183
	215	cargo lifting appliance		1						2										2		2			7
	216	gondola										3			2	1						1			7
	217	lumberyard equipment, logging cableway		1	2		1		1			3	1	1		1		1		1					13
	218	simple skyline yarding equipment																							
	219	other powered crane		3	3		10		4	5	5	3	5	4	8	2	2	4	1	1		7	4	5	76
21	crane		104	78	93	99	79	73	88	82	95	81	65	58	71	56	64	66	68	51	57	59	65	51	1,603
	221	truck		1,028	917		876		789	836	803	703	652	651	643	644	682	638	682	627	650	657	639	653	13,770
	222	forklift		205	202		222		203	249	202	164	172	150	149	152	160	139	141	147	152	182	186	170	3,347
	223	railway equipment		1	3		2		1		3	2		1	5	3		4	1	1	3	1	4		35
	224	conveyor		43	48		54		56	42	57	60	43	44	49	44	50	41	44	53	48	57	57	63	953
	225	loader		5	6		5		5	6	1	9	5	1	9	4	2	6	11	8	7	3	7	1	101
	226	straddle carrier		1						1		1						1			1			1	6
	227	rough terrain hauler		6	3		3			3			4	1	3	4	2	4			6	2	4	2	47
	229	other powered conveying machines		50	40		45		50	40	39	40	36	37	36	38	32	37	41	41	47	30	26	34	739
22	conveying machine		1,342	1,339	1,219	1,163	1,207	1,125	1,104	1,177	1,105	979	912	885	894	889	928	870	920	877	914	932	923	924	22,628
	231	cars, bus, motorcycle		212	213		210		263	230	266	257	210	250	211	234	210	194	199	215	256	251	238	211	4,330
	232	railway vehicle		7	6		6		5	7	5	9	3	7	8	7	13	7	1	12	9	6	8	6	132
	239	other vehicles		98	79		82		71	75	88	64	55	67	54	61	62	52	52	53	48	49	52	40	1,202
23	vehicle		311	317	298	275	298	308	339	312	359	330	268	324	273	302	285	253	252	280	313	306	298	257	6,558
2	crane, conveying machine		1,757	1,734	1,610	1,537	1,584	1,506	1,531	1,571	1,559	1,390	1,245	1,267	1,238	1,247	1,277	1,189	1,240	1,208	1,284	1,297	1,286	1,232	30,789
	311	boiler		3			1			1	2		1	2		1		1		2		1	1		16
	312	pressure vessel		2	1		5		2	1		1	2	1		4	1		1	1		1		2	25
	319	other pressure vessels		2	1		1		2	1	3	2			2	1		3		2	2	1			23

	31	pressure vessel	4	7	2	3	7	2	4	3	5	3	3	3	2	6	1	4	1	5	2	3	1	2	73	
		321	chemical facilities		1			3		2	2	1	3	1	2	2	1	1		1	1	1	2		24	
	32	chemical facilities	2	1		2	3	3	2	2	1	3	1	2	2	1	1			1	1	1	2		31	
		331	gas welding equipment								2		1	1			1	1			1	1	1		9	
		332	arc welding equipment		5	1		2		1		3			3	1	2		1	1		1	2	2	25	
		339	other welding equipment		2			2		2		1	2	2		1				2			2	1	17	
	33	welding equipment	3	7	1	3	4	1	3		6	2	3	4	2	2	1	2	3		2	5	4		58	
		341	kiln, caldron		8	4		6		4	1	5	2	5		2	1	1	6	2	4	1		3	4	59
		342	industrial dryer		2	2		2		1	1			2	1		2	3	2	1	1	1	4		1	26
		349	other kiln, caldron			1						1														2
	34	kiln, caldron	6	10	7	3	8	11	5	2	6	2	7	1	2	3	4	8	3	5	2	4	3	5	107	
		351	transmission		1	2		3		6	2	4	7	2	2	1	1	5	1	9	3	5	5	5	3	67
		352	electric power facilities		2	1			1		2	2	2	3	2	2	5	1		4		1	1	4	33	
		359	other electrical equipment		11	5		6		8	8	4	5	1	2	9	1	3	9	2	6	6	11	2	17	116
	35	electric equipment	12	14	8	9	9	10	15	10	10	14	5	7	12	4	13	11	11	13	11	17	8	24	247	
		361	human power cranes		4			3		4	3	3	2	3			3	2	2	5	5		5	23	28	95
		362	human power hauling equipment		192	249		223		275	274	281	311	270	267	261	304	287	306	295	332	345	352	364	385	5,573
		363	human power machine		6	10		3		7	8	12	3	3	8	4	6	6	7	7	4		2	5	3	104
		364	hand tool		187	168		127		107	129	134	107	101	96	92	81	89	84	75	70	83	88	94	99	2,011
	36	human power machine, tools	350	389	427	356	356	343	393	414	430	423	377	371	357	394	384	399	382	411	428	447	486	515	8,832	
		371	ladder		254	221		226		206	215	217	209	163	199	172	189	216	193	197	159	170	192	197	241	3,836
		372	slinging tool		8	10		7		6	10	7	7	6	4	5	1	3	4	4	4	8	5	7	5	111
		379	other tools		245	251		261		272	306	296	338	269	273	294	288	306	314	354	351	426	412	426	395	6,077
	37	tools	531	507	482	442	494	513	484	531	520	554	438	476	471	478	525	511	555	514	604	609	630	641	11,510	
		391	other equipments, facilities		262	246		241		297	320	345	350	339	387	318	348	383	420	422	427	417	444	441	482	6,889
	39	other equipments, facilities	237	262	246	245	241	251	297	320	345	350	339	387	318	348	383	420	422	427	417	444	441	482	7,622	
3		other equipment	1,145	1,197	1,173		1,122		1,203	1,282	1,323	1,351	1,173	1,251	1,166	1,236	1,312	1,355	1,377	1,376	1,467	1,530	1,575	1,669	26,283	



		612	as load		32	35		25		17	9	14	20	14	20	17	14	24	8	12	11	6	12	18	15	323
	61	load		294	331	324	273	315	271	312	272	306	289	240	263	264	262	253	238	232	282	300	283	277	333	6,214
6	load			294	331	324	273	315	273	312	272	306	289	240	263	264	262	253	238	232	282	300	283	277	333	6,216
		711	natural ground, rock		56	55		46		56	49	59	36	42	36	38	35	41	36	24	37	43	42	46	40	817
		712	standing tree		59	55		50		43	46	40	35	47	34	49	36	37	35	29	31	37	47	39	37	786
		713	water		2	4		3		3	2	1	4	3	2	1	4	4	3	2	2	3	4	2	4	53
		714	abnormal environment		1										1		1			3	2	4	2			14
		715	high/cold temperature environment			1				1	3			1			3			2			4		2	17
		719	other environments		67	63		47		54	62	57	75	56	54	72	72	58	80	51	62	65	77	80	68	1,220
	71	natural environment		204	185	178	188	146	168	157	162	157	150	149	126	161	150	141	154	108	135	150	178	169	151	3,467
7	environment			204	185	178	188	146	188	157	162	157	150	149	126	161	150	141	154	108	135	150	178	169	151	3,487
		911	other causal agent		148	112		111		87	102	86	102	106	83	86	106	103	127	120	100	126	92	125	96	2,018
	91	other causal agent		143	148	112	83	111	124	87	102	86	102	106	83	86	106	103	127	120	100	126	92	125	96	2,368
		921	no causal agent		75	93		79		59	82	69	88	77	82	63	75	73	67	93	90	95	131	133	124	1,648
	92	no causal agent		61	75	93	77	79	52	59	82	69	88	77	82	63	75	73	67	93	90	95	131	133	124	1,838
		999	unclassifiable		12	9		17		17	9	7	19	9	10	10	6	9	6	3	9	8	11	4	4	179
	99	unclassifiable		11	12	9	11	17	8	17	9	7	19	9	10	10	6	9	6	3	9	8	11	4	4	209
9	others			215	235	214	171	207	184	163	193	162	209	192	175	159	187	185	200	216	199	229	234	262	224	4,415
0	total			6,625	6,723	6,456	5,898	6,108	6,038	6,215	6,316	6,372	6,019	5,342	5,674	5,406	5,499	5,596	5,667	5,659	5,861	6,111	6,354	6,534	6,669	133,142

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/2020enfocs.html>