

Relation between causal agents and code no. 05 collapse 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					1			2	1			1	2		1			1		1		1	11
	11		engine					1			2	1			1	2		1			1		1		1	11
		121	power transmission mechanism			1				1				1											1	4
	12		power transmission mechanism			1				1				1											1	4
		131	circular sawing machine					2						2			1				2	1	1		1	10
		132	band sawing machine		1											1										2
		133	wood planer machine		1								1		2			1								5
		134	hollow chisel mortiser, wood borer			1									1				1							3
		135	chamfering machine, router, woodworking milling machine																							
		136	chain saw			1		2				3	3			2	5		2					2	2	22
		139	other woodworking machines		1	1		1			2	1	1	1		1		2							1	12
	13		woodworking machine	4	3	3	4	5	5		2	4	5	3	3	4	6	3	3		2	1	3	2	2	67
		141	leveling, transporting or loading machine		7	4		7		3	2	2	3	1	1		2		1	5	5	2	1			46
		142	excavating machine		9	7		9		5	17	11	12	8	9	11	9	5	4	8	4	6	9	5	6	154
		143	foundation work machine		2	6					3		2		1	1		2	4	2	4	1	3	2	1	34
		144	hardening machine		2	4				1			1	1	2	1	1		1	2		1				17
		145	demolition machine		6	3		7		1	4	4	5	3	1	4	1	9	1	4	2	7	6	5	5	78
		146	vehicle for high lift work		1	2				1			1	1	3			1		3	1	1	1	1		17
		149	other construction machines		3	7		6		8	2	9		3	5	4	4	4	6	3	3	3	2	2	3	77



	17	mobile silviculture machine																	2		2	2	2	8	
1		machine	80	70	74	63	67	68	43	62	63	55	50	50	55	47	55	44	47	55	48	56	40	40	1,232
		211 crane		60	48		57		37	62	53	60	30	29	41	39	40	47	40	30	37	35	40	33	818
		212 mobile crane		20	16		17		19	24	23	15	16	9	14	11	9	13	16	8	7	17	16	10	280
		213 derrick crane					1					1			1										3
		214 elevator, lift			2				4	1		1	3	2	1			1	3		1		1		20
		215 cargo lifting appliance															1					1			2
		216 gondola			1							1			1										3
		217 lumberyard equipment, logging cableway		1	1		1		1		2	3	2												11
		218 simple skyline yarding equipment																							
		219 other powered crane		7	2		2		3	8	2		1		4	1	4	5	3	2	1	2	1	4	52
	21	crane	79	88	70	64	78	76	64	95	80	81	52	40	62	51	54	66	62	40	46	55	58	47	1,408
		221 truck		42	41		41		36	28	32	35	22	24	33	25	36	36	24	25	32	26	18	22	578
		222 forklift		33	47		55		47	53	39	55	35	39	34	40	42	32	33	14	31	27	51	50	757
		223 railway equipment		1			1						1												3
		224 conveyor		17	14		9		8	11	10	12	11	7	11	13	6	7	5	3	6	7	8	8	173
		225 loader							2		1	1	1			1						1		1	8
		226 straddle carrier																							
		227 rough terrain hauler			1															1		1	1		4
		229 other powered conveying machines		3	1				6	2	5	2	3	2	1	2	4	1	2	7	3	2	3	2	51
	22	conveying machine	77	96	104	86	106	110	99	94	87	105	73	72	79	81	88	76	64	50	72	64	81	83	1,847
		231 cars, bus, motorcycle		7	12		18		36	42	36	41	38	33	18	23	25	17	25	21	26	19	25	23	485
		232 railway vehicle								1															1
		239 other vehicles		1	4		3		3	2	1	3	2	1	1	4	1	2	2	1	2	1	1	1	36
	23	vehicle	18	8	16	23	21	21	39	45	37	44	40	34	19	27	26	19	27	22	28	20	26	24	584
2		crane, conveying machine	174	192	190	173	205	207	202	234	204	230	165	146	160	159	168	161	153	112	146	139	165	154	3,839
		311 boiler														1				1					2
		312 pressure vessel		1	2					1						1			1		1				7

		319	other pressure vessels		14	19		19		11	4	10	12	6	8	12	13	15	7	9	16	7	7	6	9	204
	31		pressure vessel	9	15	21	12	19	15	11	5	10	12	6	8	12	15	15	7	10	17	8	7	6	9	249
		321	chemical facilities			1						1							1		1		1		5	
	32		chemical facilities			1	1		1			1							1		1		1		7	
		331	gas welding equipment			1		1		4	3	3	2	1			1	1	1		1	1	1	1	1	23
		332	arc welding equipment							1		1		1			1					1			5	
		339	other welding equipment					1		1				1			1							1	5	
	33		welding equipment	4		1	2	2	2	6	3	4	2	3			2	2	1		1	1	2	2	1	41
		341	kiln, caldron		1	2		2		1	2	6	1		1		2	3	1	5	2	1			30	
		342	industrial dryer													2				1	1	1		1	6	
		349	other kiln, caldron		1			1									1								3	
	34		kiln, caldron	2	2	2	10	3	3	1	2	6	1		1	2		3	3	1	6	3	2		1	54
		351	transmission					1		2	2			2	1		1		1	2		2			14	
		352	electric power facilities		1			1		3	3	1		3	1		4				1	1	2	2		23
		359	other electrical equipment		7	2		2		3	3	2	4	4		3	2	3	3	2	3	4	3	1		51
	35		electric equipment	6	8	2	5	4	8	8	8	3	4	9	2	3	7	3	4	4	4	7	5	3		107
		361	human power cranes		8	4		6		5	4	3	5	4	3	7	4	3	4	2	3	1	3	41	65	175
		362	human power hauling equipment		177	195		196		247	247	249	250	243	280	247	241	266	254	241	311	302	311	270	228	4,755
		363	human power machine		2	1		1		2	1	3	4	2	1	2	4	1	6	4	1	3	4	2	1	45
		364	hand tool		5	2		12		6	6	9	2	6	6	5	2	2	5	1	4	5	5	4	6	93
	36		human power machine, tools	175	192	202	236	215	239	260	258	264	261	255	290	261	251	272	269	248	319	311	323	317	300	5,718
		371	ladder		66	73		63		55	61	47	40	37	38	43	37	41	35	24	21	34	36	22	33	806
		372	slinging tool		28	34		32		34	17	30	27	23	30	19	18	24	20	12	24	16	26	19	21	454
		379	other tools		173	207		204		190	212	221	206	185	183	186	191	184	204	172	189	180	212	213	169	3,681
	37		tools	250	267	314	260	299	277	279	290	298	273	245	251	248	246	249	259	208	234	230	274	254	223	5,728
		391	other equipments, facilities		89	116		84		89	114	127	101	105	106	92	121	124	114	116	116	109	113	123	112	2,071
	39		other equipments,	107	89	116	94	84	128	89	114	127	101	105	106	92	121	124	114	116	116	109	113	123	112	2,400



5	substance, material		1,260	1,288	1,100	1,070	1,056	990	998	1,000	966	877	675	745	679	649	676	661	640	591	583	590	597	493	18,184
	611	load		570	569		555		509	501	518	489	420	385	368	387	391	384	377	376	348	401	352	375	8,275
	612	machine/equipment as load		69	71		53		66	67	67	73	64	63	44	45	47	36	46	37	39	36	32	30	985
	61	load	570	639	640	568	608	561	575	568	585	562	484	448	412	432	438	420	423	413	387	437	384	405	10,959
6	load		570	639	640	568	608	561	575	568	585	562	484	448	412	432	438	420	423	413	387	437	384	405	10,959
	711	natural ground, rock		214	213		182		158	178	131	129	106	98	99	116	106	93	94	80	75	81	87	86	2,326
	712	standing tree		101	105		107		87	68	85	90	110	105	76	65	72	73	88	81	69	53	55	50	1,540
	713	water								1				1	5	1					1				9
	714	abnormal environment														1									1
	715	high/cold temperature environment			2		1			2															5
	719	other environments		17	7		9		27	18	13	15	6	13	11	7	8	13	10	5	8	17	6	3	213
	71	natural environment	401	332	327	338	299	305	272	267	229	234	222	217	191	190	186	179	192	166	153	151	148	139	5,138
7	environment		401	332	327	338	299	305	272	267	229	234	222	217	191	190	186	179	192	166	153	151	148	139	5,138
	911	other causal agent		33	28		22		17	12	5	7	11	7	18	11	7	16	9	10	19	5	9	6	252
	91	other causal agent	23	33	28	22	22	23	17	12	5	7	11	7	18	11	7	16	9	10	19	5	9	6	320
	921	no causal agent			1				2	1		1		1			1	2	2	3	1		3		18
	92	no causal agent			1	1			2	1		1		1			1	2	2	3	1		3		19
	999	unclassifiable		1							1				1				2			1			6
	99	unclassifiable	1	1		1					1				1				2			1			8
9	others		24	34	29	24	22	23	19	13	6	8	11	8	19	11	8	18	13	13	20	6	12	6	347
0	total		3,395	3,478	3,378	3,180	3,172	3,107	2,999	3,120	3,042	2,859	2,429	2,464	2,356	2,388	2,391	2,334	2,259	2,261	2,212	2,312	2,236	2,057	59,429

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>