

Relation between causal agents and code no. 02 falling to same level 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			1		2	1		3	1	1	1	2	1	1	2	2		3	2		25
	11		engine		2		1	1	2	2	1		3	1	1	1	2	1	1	2	2		3	2		28
		121	power transmission mechanism		4			2		1	1	1		1	1		2	2	1	3	2	2	3	1	1	28
	12		power transmission mechanism	4	4		1	2	7	1	1	1		1	1		2	2	1	3	2	2	3	1	1	40
		131	circular sawing machine		1	1		3		4	4	1	3	3	2	4			1			3	2	2		34
		132	band sawing machine		5	3		1		2	2	1	2			1			1			2				20
		133	wood planer machine		1			1					1						1							4
		134	hollow chisel mortiser, wood borer			1		1																		2
		135	chamfering machine, router, woodworking milling machine					1																		1
		136	chain saw		4	6		4		3	1	1	4	4	3		1	1	3	4	1	1	1	3		45
		139	other woodworking machines		10	13		5		4	7	11	5	5	4	5	6	2	4	2	3	3	6	1	2	98
	13		woodworking machine	21	21	24	10	16	9	13	14	14	15	12	9	10	7	3	10	6	4	9	9	6	2	244
		141	leveling, transporting or loading machine		26	24		18		22	28	21	19	20	13	18	23	13	7	11	12	19	24	16	16	350
		142	excavating machine		73	55		62		62	46	53	55	43	45	34	52	47	44	45	55	42	40	48	46	947
		143	foundation work machine		5	4		4		2	4	2	1	4	3	2	3	1	1	1	3	4	2		1	47
		144	hardening machine		4	4		8		2	7	3	4	7	3	1	3	2	3	2	2	1	4	1	4	65
		145	demolition machine		5	1		1			1	1	1	3	2	2	2	5	3	7	6	6	4	4	2	56
		146	vehicle for high lift work		15	4		3		12	9	10	8	11	8	9	5	4	6	7	15	11	3	13	9	162
		149	other construction machines		14	15		12		22	12	9	15	5	15	12	12	14	11	7	14	3	5	7	6	210
	14		construction machine	143	142	107	110	108	105	122	107	99	103	93	89	78	100	86	75	80	107	86	82	89	84	2,195
		151	lathe		5	2		1		5	1		2		1			2	2		2		1	4	2	30
		152	drill press, milling machine			3		1		3	1	5	2	2	3	1			2	1	2	1		1		28
		153	grinding machine, buffing machine		1			2		2	2		2	2	1	2	1		2	2	1		1	4	2	27

	154	power press			2				3	4	1			1		2	1	2	2	1	2	2	1	24	
	155	forging pressure hammer				1																		1	
	156	shearing machine		1	1		1		1	1					1		1		1					9	
	159	other metal manufacturing machines		14	22		11		6	12	10	7	6	9	5	3	13	8	7	7	7	5	4	8	164
15		metal manufacturing machine	28	21	30	19	17	20	17	20	20	14	10	14	9	5	17	16	12	15	9	9	15	13	350
	161	centrifugal machine									1	1					1						1	4	
	162	mixer, grinder		2	5		5				6	2	2	6	1	2	1	3	2	3	1	4	3	4	52
	163	roll machine (except printing roll machine)			1		1		3	1	3		1		2	3	2	4	1	2	3	4	1	2	34
	164	injection molding machine		1			2		5	2	4	1	2			1	1			2		1	2	1	25
	165	food manufacturing machine		7	9		7		11	9	12	12	7	6	7	16	6	10	6	7	15	16	16	8	187
	166	printing machine		4			2		2		3	2	4	5	2	6	1	3	2	1	3	2	1	5	48
	167	industrial robot		1							1	1	1	1		1	1	1			1	1		1	11
	169	other general power machines		92	86		92		87	88	69	80	56	71	63	63	67	66	64	83	57	70	83	74	1,411
16		general machine	108	107	101	127	109	87	108	100	98	99	74	89	75	92	79	88	75	98	80	98	106	96	2,094
	171	felling machine																	3	3	3	1	1	11	
	172	mobile logging machine																3	4	2	3	2	1	15	
	173	skyline yarding machine																1						1	
	179	other mobile silviculture machine																1	1				1	3	
17		mobile silviculture machine																5	8	5	6	3	3	30	
1		machine	304	297	262		253		263	243	232	234	191	203	173	208	188	191	183	236	191	210	222	199	4,483
	211	crane		10	15		15		17	14	17	17	6	10	7	8	10	13	6	9	3	9	14	13	213
	212	mobile crane		37	35		27		35	37	37	34	25	24	18	25	31	23	23	22	24	20	13	22	512
	213	derrick crane								1			1										1		3
	214	elevator, lift		16	12		13		10	12	21	21	19	7	10	14	15	9	13	6	18	16	20	21	273
	215	cargo lifting appliance												1				1				1			3
	216	gondola		1									1	1	1	1		2	1						8
	217	lumberyard equipment, logging		1	3		3		2		2	1				3	1	1				1		1	19

		cableway																							
	218	simple skyline yarding equipment																							
	219	other powered crane		4	6		6		5	11	4	6	4	3	6	2	6	2	3	2	4	5	7	8	94
21	crane		71	69	71	72	64	59	69	75	81	79	56	46	42	53	63	51	46	39	49	52	55	65	1,327
	221	truck		545	520		539		527	530	545	484	437	481	505	499	525	491	538	471	555	503	510	584	9,789
	222	forklift		118	91		115		102	102	118	108	95	82	117	118	106	95	107	88	73	113	102	119	1,969
	223	railway equipment		5			4		1	2	2	1	2			1	5	1	4	1		2	2	3	36
	224	conveyor		70	84		59		79	86	82	85	66	68	55	62	64	62	70	59	51	67	77	72	1,318
	225	loader		6	4		6		2	5	4	2	3	1	1	5	3	1	3	2	1	3	5	3	60
	226	straddle carrier		2					1						1	1		1				1	1	1	9
	227	rough terrain hauler		2	5		2		3	2	2	2	1		1	2	2	1	2		3	4	3	2	39
	229	other powered conveying machines		49	63		56		54	48	38	41	36	31	39	40	38	37	30	32	30	36	29	35	762
22	conveying machine		807	797	767	762	781	746	768	776	791	723	640	663	719	728	743	689	754	653	713	729	729	819	16,297
	231	cars, bus, motorcycle		522	533		589		956	944	892	918	835	759	792	785	784	720	721	624	664	776	724	705	14,243
	232	railway vehicle		9	6		8		6	7	4	8	12	8	8	5	8	13	9	13	11	9	6	11	161
	239	other vehicles		282	206		214		222	210	215	207	192	172	183	180	142	152	149	121	127	118	106	111	3,309
23	vehicle		808	813	745	793	811	836	1,184	1,161	1,111	1,133	1,039	939	983	970	934	885	879	758	802	903	836	827	20,150
2	crane, conveying machine		1,686	1,679	1,583	1,627	1,656	1,641	2,021	2,012	1,983	1,935	1,735	1,648	1,744	1,751	1,740	1,625	1,679	1,450	1,564	1,684	1,620	1,711	37,774
	311	boiler			1					3	1			2					1		2	1			11
	312	pressure vessel		1			1		1	4		2				3						1	1	1	15
	319	other pressure vessels		6	2		2		3	2	5	5	3	2	6	4	3	4	2	4	1	2	3	1	60
31	pressure vessel		5	7	3	4	3	3	4	9	6	7	3	4	6	7	3	4	2	5	1	5	5	2	98
	321	chemical facilities					4		1	5		3	2	1	2	2		2	2	1	2	2	3		32
32	chemical facilities		2			5	4	6	1	5		3	2	1	2	2		2	2	1	2	2	3		45
	331	gas welding equipment		4	3		3		3	4	5		2	1	2			1			1	2	1	1	33
	332	arc welding equipment		2	3		1		5	5	5	5	7		1	1	1		5	4	1	1	3	3	53
	339	other welding equipment		1	2					2	1					1	1		1	2	1	2	1		15
33	welding equipment		5	7	8	4	4	6	8	9	12	6	9	1	3	2	2	1	6	6	3	5	5	4	116
	341	kiln, caldron		1	3		3		2	3	1	3	3	5	3	1	4	3	3			2	1	5	46
	342	industrial dryer			1		1					3	2				1	2			1		1	1	13
	349	other kiln, caldron										1		1	1	1	1	1			2	1			9
34	kiln, caldron		7	1	4	3	4	2	2	3	1	7	5	6	4	2	6	6	3		3	3	2	6	80
	351	transmission		40	52		31		42	41	44	62	56	44	52	77	55	64	77	81	96	112	110	91	1,227

		352	electric power facilities					2		2	2	1	2	1		1	1		2		3	1	2		20	
		359	other electrical equipment		11	16		3		19	14	17	15	13	15	18	12	19	12	19	21	20	24	24	32	324
	35		electric equipment	63	51	68	51	36	69	63	57	62	79	70	59	71	90	74	76	98	102	119	137	136	123	1,754
		361	human power cranes		4	3		3		2	3	5	5	2	2	4	1		5	1	2	5	13	80	119	259
		362	human power hauling equipment		524	679		664		776	794	824	897	933	911	962	1,017	982	1,012	1,018	1,073	1,089	1,248	1,248	1,342	17,993
		363	human power machine		18	10		5		10	6	12	7	6	7	13	7	6	7	3	8	4	7	5	13	154
		364	hand tool		53	48		74		48	65	48	52	53	39	55	47	54	45	44	41	41	52	37	48	944
	36		human power machine, tools	574	599	740	693	746	805	836	868	889	961	994	959	1,034	1,072	1,042	1,069	1,066	1,124	1,139	1,320	1,370	1,522	21,422
		371	ladder		254	252		235		238	274	322	261	203	238	258	265	271	262	264	224	275	249	262	292	4,899
		372	slinging tool		11	20		15		13	16	13	11	7	4	8	10	11	8	9	12	8	4	5	10	195
		379	other tools		699	740		832		897	987	990	1,064	903	927	1,013	1,042	1,138	1,091	1,106	1,162	1,383	1,395	1,633	1,593	20,595
	37		tools	928	964	1,012	951	1,082	1,083	1,148	1,277	1,325	1,336	1,113	1,169	1,279	1,317	1,420	1,361	1,379	1,398	1,666	1,648	1,900	1,895	28,651
		391	other equipments, facilities		291	303		267		404	376	396	453	405	464	458	529	503	577	523	533	486	584	622	683	8,857
	39		other equipments, facilities	294	291	303	304	267	322	404	376	396	453	405	464	458	529	503	577	523	533	486	584	622	683	9,777
3			other equipment	1,878	1,920	2,138		2,146		2,466	2,604	2,691	2,852	2,601	2,663	2,857	3,021	3,050	3,096	3,079	3,169	3,419	3,704	4,043	4,235	57,632
		411	scaffolding		82	107		75		89	82	85	85	56	61	59	67	60	68	57	68	55	64	64	45	1,329
		412	timbering		14	21		16		21	17	19	7	4	7	7	6	12	8	8	11	9	5		5	197
		413	stairs, landing stage		1,403	1,370		1,376		1,479	1,624	1,647	1,595	1,513	1,642	1,646	1,563	1,490	1,623	1,578	1,535	1,564	1,756	1,724	1,778	29,906
		414	opening		49	51		43		33	32	33	24	30	27	33	22	35	41	31	31	40	35	34	35	659
		415	roof, beam, haze, crossbeam, principal rafter		91	67		71		74	58	54	51	39	50	46	48	40	61	38	43	30	50	41	45	997
		416	working platform, boot board		2,659	2,403		2,692		2,326	2,551	2,542	2,735	2,488	2,580	2,384	2,404	2,437	2,701	2,646	2,556	2,736	3,003	2,793	2,546	49,182
		417	passage		6,407	7,369		7,541		8,428	8,496	8,237	9,033	8,306	8,794	9,556	9,652	9,371	10,067	9,686	10,971	11,290	13,126	12,199	12,584	181,113
		418	building, establishment		1,237	1,261		1,310		1,304	1,464	1,330	1,311	1,289	1,364	1,393	1,429	1,446	1,212	1,373	1,286	1,355	1,424	1,278	1,328	25,394
		419	other temporary buildings, establishments		753	867		1,022		979	958	848	836	877	913	846	979	926	1,077	1,122	1,167	1,138	1,107	1,210	1,398	19,023
	41		temporary buildings, establishments	12,590	12,695	13,516	12,977	14,146	14,046	14,733	15,282	14,795	15,677	14,602	15,438	15,970	16,170	15,817	16,858	16,539	17,668	18,217	20,570	19,343	19,764	347,413
4			temporary buildings, establishments	12,590	12,695	13,516	12,977	14,146	14,046	14,733	15,282	14,795	15,677	14,602	15,438	15,970	16,170	15,817	16,858	16,539	17,668	18,217	20,570	19,343	19,764	347,413
		511	explosive substance											1			2		2							5
		512	inflammable		3	2		4		2	3	1	4		2		2	2	2			2	2		1	32

		substance																							
	513	inflammable gas			1					1															2
	514	harmful substance		1	1		3		2	2	1	1			1			1	2	1					16
	515	radiation																							
	519	other hazards, harmful substances		6	6		3		5	4	3	8	5		8	10	6	4	8	9	7	9	8	3	112
51		hazards, harmful substances	7	10	10	6	10	12	9	9	6	13	6	2	9	14	8	9	10	10	9	11	8	4	192
	521	metal material		408	436		406		352	345	371	282	265	236	245	264	258	268	222	228	259	242	232	207	5,526
	522	lumber, bamboo		350	284		292		237	231	267	199	165	139	152	181	169	168	152	124	144	143	118	140	3,655
	523	stone, sand, substance		107	102		72		70	55	73	66	36	48	56	49	61	56	41	43	55	59	63	57	1,169
	529	other materials		236	195		183		179	220	203	162	164	171	195	200	193	171	205	147	154	182	181	192	3,533
52		materials	1,134	1,101	1,017	1,061	953	964	838	851	914	709	630	594	648	694	681	663	620	542	612	626	594	596	17,042
5		substance, material	1,141	1,111	1,027	1,067	963	976	847	860	920	722	636	596	657	708	689	672	630	552	621	637	602	600	17,234
	611	load		579	614		508		605	661	633	619	612	573	584	620	628	640	652	636	660	722	832	828	12,206
	612	machine/equipment as load		26	52		21		32	32	35	25	34	16	18	26	26	26	24	15	17	20	30	20	495
61		load	558	605	666	607	529	620	637	693	668	644	646	589	602	646	654	666	676	651	677	742	862	848	14,486
6		load	558	605	666	607	529	607	637	693	668	644	646	589	602	646	654	666	676	651	677	742	862	848	14,473
	711	natural ground, rock		646	549		554		431	405	415	429	333	355	362	342	312	280	327	236	218	246	280	250	6,970
	712	standing tree		145	160		135		121	86	95	94	104	94	111	102	109	70	93	87	82	82	76	88	1,934
	713	water		69	83		76		100	113	77	75	70	65	54	78	88	97	47	77	50	82	56	93	1,450
	714	abnormal environment		2	18		12		3	4	6	5	6	13	17	26	18	4	1	2	8	16	5	1	167
	715	high/cold temperature environment		62	187		68		55	76	27	63	32	51	96	85	78	68	31	36	62	80	53	32	1,242
	719	other environments		908	1,289		972		1,327	1,129	792	1,081	999	1,199	1,529	1,734	1,896	2,210	1,426	1,770	1,909	2,216	1,275	1,370	27,031
71		natural environment	1,870	1,832	2,286	1,579	1,817	1,714	2,037	1,813	1,412	1,747	1,544	1,777	2,169	2,367	2,501	2,729	1,925	2,208	2,329	2,722	1,745	1,834	43,957
7		environment	1,870	1,832	2,286	1,579	1,817	1,579	2,037	1,813	1,412	1,747	1,544	1,777	2,169	2,367	2,501	2,729	1,925	2,208	2,329	2,722	1,745	1,834	43,822
	911	other causal agent		508	520		413		486	505	408	404	362	397	442	423	478	468	487	492	538	512	545	500	8,888
91		other causal agent	550	508	520	360	413	454	486	505	408	404	362	397	442	423	478	468	487	492	538	512	545	500	10,252
	921	no causal agent		389	519		482		416	475	476	510	616	581	641	616	718	626	710	684	703	983	979	1,208	12,332
92		no causal agent	550	389	519	630	482	420	416	475	476	510	616	581	641	616	718	626	710	684	703	983	979	1,208	13,932
	999	unclassifiable		69	74		69		57	62	64	67	69	66	50	64	43	51	41	42	51	69	25	30	1,063
99		unclassifiable	101	69	74	74	69	59	57	62	64	67	69	66	50	64	43	51	41	42	51	69	25	30	1,297
9		others	1,201	966	1,113	1,064	964	933	959	1,042	948	981	1,047	1,044	1,133	1,103	1,239	1,145	1,238	1,218	1,292	1,564	1,549	1,738	25,481
0		total	21,228	21,105	22,591	21,204	22,474	22,456	23,963	24,549	23,649	24,792	23,002	23,958	25,305	25,974	25,878	26,982	25,949	27,152	28,310	31,833	29,986	30,929	553,269

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>