

Relation between causal agents and code no. 19 reaction to motion/improper motion as type of Fatal and non-fatal accidents in 1999-2021

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	2021	total
		111	engine		7	1		2		1	4		4	1	3		1	2	1	5	5	1	1	3	1	5	48
	11		engine	3	7	1	2	2	3	1	4		4	1	3		1	2	1	5	5	1	1	3	1	5	56
		121	power transmission mechanism		2	2		3		4		2	1	1	1		2	2	1	2	1	2		1	1	3	31
	12		power transmission mechanism	1	2	2	1	3	1	4		2	1	1	1		2	2	1	2	1	2		1	1	3	34
		131	circular sawing machine		1	2		1		1	1	4	1	2	1	1		1	1	1		1		1	1	1	22
		132	band sawing machine														1									1	2
		133	wood planer machine		1	2		1		1							1				1					1	8
		134	hollow chisel mortiser, wood borer		2	1		1		1	1	3	1		1				2	1	1					1	16
		135	chamfering machine, router, woodworking milling machine																1						1		2
		136	chain saw		5	4		6		4	3	5	6	6	3	6	6	6	3	4	3	6	4	5	2	8	95
		139	other woodworking machines		14	14		11		4	12	8	11	5	6	7	4	1	5	6	1	4	5	5	4	6	133
	13		woodworking machine	36	23	23	18	20	8	11	17	20	19	13	11	14	12	8	12	12	6	11	9	11	8	18	340
		141	leveling, transporting or loading machine		5	7		7		2	3	9	4	6	1	8	3	5		4	10	7	9	6	9	4	109
		142	excavating machine		10	15		5		10	4	11	7	8	7	12	6	11	6	6	10	10	12	14	17	9	190
		143	foundation work machine			1		3		1	1	1	1	1	3	1			3	1		2	4		2	2	27
		144	hardening machine		3	8		3		3		2	5	2	2	4	4		3	5	3	1	2	2		3	55
		145	demolition machine		4	2		5		5	5	6	1	1	4	3	6	2	2	2	1	1	2	3	6	2	63
		146	vehicle for high lift work		2	2		2		1		4	2	1	1	1	2	2	4	3		2	1		5	1	36
		149	other construction machines		16	14		18		11	8	13	7	5	5	14	4	12	11	6	8	4	4	5	3	10	178
	14		construction machine	50	40	49	37	43	38	33	21	46	27	24	23	43	25	32	29	27	32	27	34	30	42	31	783
		151	lathe		2	5		3		3	3	6	9	3	3	2	2	1	4	6	2	4	3		2	3	66
		152	drill press, milling machine		5	9		1		6	5	4	8	2		2	3	2		4	2	3	2	1	3	2	64
		153	grinding machine, buffing machine		5	6		7		2	7	8	9	7	4	9	7	5	8	8	4	7	7	7	4	4	125
		154	power press		1	2		1		6	4	3	2		1	3	2	2	1	1	1	4	2	2	1	6	45
		155	forging pressure		1					1	1										1			2	1		7

			hammer																								
	156	shearing machine			1							1		2		1									1	6	
	159	other metal manufacturing machines	22	19		12		11	14	20	10	5	8	16	7	6	17	9	7	6	12	9	17	9	236		
15		metal manufacturing machine	47	36	42	30	24	30	29	34	41	38	18	16	34	21	17	30	28	17	24	26	21	28	25	656	
	161	centrifugal machine			1				1		1	2			1		1			2		1				10	
	162	mixer, grinder		2	3		2		2	5	2		2	1	1	1	2	6	3	2	3	2	3	1	3	46	
	163	roll machine (except printing roll machine)			3		3		2		1	5	1	1	3			1	1	1	2	3	3	3		33	
	164	injection molding machine		1					2			1	2	3		1					1	2	2			15	
	165	food manufacturing machine		6	10		6		13	8	11	9	9	4	7	11	10	10	10	8	17	20	11	9	9	198	
	166	printing machine		5	6		5		3	4	3	4	4	3		3	4	5	1	4	3	2	2	3	4	68	
	167	industrial robot																					2		1	3	
	169	other general power machines		69	83		55		62	85	72	79	68	51	61	39	58	54	44	59	48	55	62	70	73	1,247	
16		general machine	86	83	106	80	71	87	85	102	90	100	86	63	73	55	75	76	59	76	74	85	85	86	90	1,873	
	171	felling machine																	1	2		1	1			5	
	172	mobile logging machine																						2	2	4	
	173	skyline yarding machine																	1							1	
	179	other mobile silviculture machine																	1				1		1	3	
17		mobile silviculture machine																	3	2		1	2	2	3	13	
1		machine	223	191	223	168	163	167	163	178	199	189	143	117	164	116	136	149	136	139	139	156	153	168	175	3,755	
	211	crane		3	5		11		3	10	8	8	7	3	3	6	3	2	2	5	8	8	4	10	15	124	
	212	mobile crane		11	10		16		5	13	8	4	9	5	11	4	4	6	5	4	7	10	4	13	10	159	
	213	derrick crane																									
	214	elevator, lift			3		1		2	8	5	4	2		2	5	3	3	1	3	2	7	6	7	7	71	
	215	cargo lifting appliance		1	1		1								1			1					2			7	
	216	gondola			1				1	2				1							2		1		1	9	
	217	lumberyard equipment, logging cableway		3	1					1							1		1					1		8	
	218	simple skyline yarding equipment																									
	219	other powered		1	5		5		1	6	2	3		3	2	5	4	3	2	5	5	2	3	1	4	62	

	51	substances	2	3	4	3	3	1	4	3	3	4	3	3	3	1	3	1	3		3	4	2	6	6	68	
		521	metal material		358	377		320		345	372	362	336	248	267	254	253	237	255	227	211	248	241	247	222	275	5,655
		522	lumber, bamboo		248	236		190		173	176	159	155	121	114	136	122	125	120	135	113	111	107	113	118	118	2,890
		523	stone, sand, substance		91	103		89		70	69	71	69	51	55	57	61	58	69	47	39	52	44	49	49	48	1,241
		529	other materials		227	233		205		180	221	248	172	173	196	160	157	189	216	181	177	153	140	173	159	187	3,747
	52	materials		970	924	949	837	804	756	768	838	840	732	593	632	607	593	609	660	590	540	564	532	582	548	628	16,096
5		substance, material		972	927	953	840	807	757	772	841	843	736	596	635	610	594	612	661	593	540	567	536	584	554	634	16,164
		611	load		2,780	3,001		2,764		2,708	2,973	3,407	3,249	2,678	2,669	2,633	2,721	2,517	2,548	2,663	2,885	2,904	3,034	2,960	3,285	3,365	57,744
		612	machine/equipment as load		154	234		171		191	189	221	201	166	194	163	192	173	161	132	135	129	133	143	144	136	3,362
	61	load		2,924	2,934	3,235	2,875	2,935	2,756	2,899	3,162	3,628	3,450	2,844	2,863	2,796	2,913	2,690	2,709	2,795	3,020	3,033	3,167	3,103	3,429	3,501	69,661
6		load		2,924	2,934	3,235	2,875	2,935	2,756	2,899	3,162	3,628	3,450	2,844	2,863	2,796	2,913	2,690	2,709	2,795	3,020	3,033	3,167	3,103	3,429	3,501	69,661
		711	natural ground, rock		119	117		92		72	86	87	78	89	81	90	68	92	72	67	59	87	62	65	72	91	1,646
		712	standing tree		29	47		32		28	21	22	29	24	32	30	22	25	23	22	24	20	25	21	28	26	530
		713	water		18	7		7		6	4	3	5	4	6	5	6	10	8	8	3	9	6	5	5	5	130
		714	abnormal environment		1	3					1		1			2	1		1		8	7	3		2		30
		715	high/cold temperature environment		4	8		2		2	4		2	1	1	4	7	1	3	1	1	6	5	3	2	3	60
		719	other environments		203	245		243		268	284	317	280	268	310	321	343	370	445	372	343	341	380	395	461	411	6,600
	71	natural environment		373	374	427	337	376	389	376	400	429	395	386	430	452	447	498	552	470	438	470	481	489	570	536	10,095
7		environment		373	374	427	337	376	389	376	400	429	395	386	430	452	447	498	552	470	438	470	481	489	570	536	10,095
		911	other causal agent		662	765		736		908	1,069	1,091	1,267	1,023	1,094	1,292	1,152	1,190	1,095	1,267	1,273	1,487	1,288	1,552	1,465	1,714	23,390
	91	other causal agent		661	662	765	691	736	879	908	1,069	1,091	1,267	1,023	1,094	1,292	1,152	1,190	1,095	1,267	1,273	1,487	1,288	1,552	1,465	1,714	25,621
		921	no causal agent		3,178	3,239		3,926		4,301	4,131	4,260	4,494	4,722	4,970	4,892	5,131	4,986	5,234	5,311	5,217	5,997	6,663	6,963	7,807	8,660	104,082
	92	no causal agent		3,238	3,178	3,239	3,670	3,926	3,782	4,301	4,131	4,260	4,494	4,722	4,970	4,892	5,131	4,986	5,234	5,311	5,217	5,997	6,663	6,963	7,807	8,660	114,772
		999	unclassifiable		103	123		95		90	124	151	147	114	96	119	120	87	96	89	36	48	71	38	33	36	1,816
	99	unclassifiable		137	103	123	105	95	108	90	124	151	147	114	96	119	120	87	96	89	36	48	71	38	33	36	2,166
9		others		4,036	3,943	4,127	4,466	4,757	4,769	5,299	5,324	5,502	5,908	5,859	6,160	6,303	6,403	6,263	6,425	6,667	6,526	7,532	8,022	8,553	9,305	10,410	142,559
0		total		11,699	11,440	12,089	11,621	12,180	12,093	12,824	13,576	14,427	14,615	13,127	13,694	14,108	14,191	13,914	14,191	14,420	15,081	16,177	16,958	17,709	19,121	20,777	330,032

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)

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