

Relation between causal agents and code no. 14 explosion 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	1													5
	11		engine			1						4	1													6
		121	power transmission mechanism																							
	12		power transmission mechanism																							
		131	circular sawing machine																							
		132	band sawing machine																							
		133	wood planer machine																							
		134	hollow chisel mortiser, wood borer																							
		135	chamfering machine, router, woodworking milling machine																							
		136	chain saw																							
		139	other woodworking machines																							
	13		woodworking machine																							
		141	leveling, transporting or loading machine			2													1							3
		142	excavating machine		1	2																			1	4
		143	foundation work machine																							
		144	hardening machine																							
		145	demolition machine																							
		146	vehicle for high lift work																							
		149	other construction machines									1														1
	14		construction machine	1	1	4						1							1					1		9
		151	lathe																							
		152	drill press, milling machine																							
		153	grinding machine, buffing machine									1														1
		154	power press																							
		155	forging pressure hammer																							
		156	shearing machine																							
		159	other metal manufacturing machines												1	1										2
	15		metal manufacturing machine	2		2		2				1			1	1										9
		161	centrifugal machine								1										1					2
		162	mixer, grinder			1	1				3	1											2			8
		163	roll machine (except printingroll machine)																							
		164	injection molding machine		1																					1
		165	food manufacturing machine				1		1	5	1					1	1	1						1		12
		166	printing machine												1											1
		167	industrial robot																							
		169	other general power machines		1	1				2	2	2	6	1	1		2		2		1			2	1	24

16	general machine	1	2	2	2	2	5	3	11	3	7	1	1	1	3	1	3		2		2	2	2	56	
	171	felling machine																							
	172	mobile logging machine																							
	173	skyline yarding machine																							
	179	other mobile silviculture machine																							
17		mobile silviculture machine																							
1		machine	4	3	6	5	2	7	3	11	9	8	1	2	1	4	1	3	1	2		2	2	3	80
	211	crane																					1	1	
	212	mobile crane																	1		1				2
	213	derrick crane																							
	214	elevator, lift																							
	215	cargo lifting appliance																							
	216	gondola																							
	217	lumberyard equipment, logging cableway																							
	218	simple skyline yarding equipment																							
	219	other powered crane																		1					1
21		crane					1												1	1	1		1		5
	221	truck			3		2		1	1	1			1	1	2			1		1				14
	222	forklift			1					1									1						3
	223	railway equipment																							
	224	conveyor															1								1
	225	loader							1																1
	226	straddle carrier																							
	227	rough terrain hauler																							
	229	other powered conveying machines																						1	1
22		conveying machine	2		4	3	2	3	1	2	2			1	1	2		1		2		1		1	28
	231	cars, bus, motorcycle		1			1		2	1	1				1	1	1				1	1			12
	232	railway vehicle																							
	239	other vehicles		1																					1
23		vehicle	1	2		1	1		2	1	1				1	1	1				1	1			15
2		crane, conveying machine	3	2	4	4	3	4	3	3	3			1	2	3	1	2		3	1	3	1	2	48
	311	boiler		1			2					1		1	1	1					1				8
	312	pressure vessel		2								5	1	3		6							1		18
	319	other pressure vessels		4	1		3		2	1	7	4	6	1	1	1	1	2	1						35
31		pressure vessel	1	7	1	12	5	1	2	1	7	10	7	5	2	7	2	2	1		1		1		75
	321	chemical facilities		1	1		6		3	3	1	4	5	1	3	9	1	9	2	1	1	4	2	1	58
32		chemical facilities	4	1	1	2	6	3	3	3	1	4	5	1	3	9	1	9	2	1	1	4	2	1	67
	331	gas welding equipment		4	4		2		4	2	3	3	5	7		3		1	2	1	3	2	2		48
	332	arc welding equipment		3			1			1	1			1	2	1								1	11
	339	other welding equipment											1												1
33		welding equipment	13	7	4	3	3	1	4	3	4	3	6	8	2	4		1	2	1	3	2	2	1	77
	341	kiln, caldron		8	8		10		3	10	13	14	3	7	4	5	3	7	4	5	6		4	6	120
	342	industrial dryer		3	2		2		5	1	1		2	1	1	3			1	1	1		2		26
	349	other kiln, caldron		1			1						2			2			1						7
34		kiln, caldron	14	12	10	4	13	6	8	11	14	14	7	8	5	10	3	7	6	6	7		6	6	177
	351	transmission																							
	352	electric power facilities		1			1		1				1			2	2								9

