

Fatal and non-fatal accidents in petroleum/coal products in Japan in 1999-2021

petroleum/coal products industry Code No.010804

Type of accidents in petroleum/coal products in 1999-2021

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Type of accidents
fall from height	12	10	25	9	7	8	13	4	13	13	10	14	17	12	14	16	5	10	16	6	15	10	13	272	fall from height
falling to same level	7	12	12	7	8	11	13	3	11	9	4	11	4	9	15	9	7	7	6	7	10	8	12	202	falling to same level
crash	5	4	4	1	2	7	8	2	2	1	7	5	3	3	1	5	2	3	2	2	1	1	5	76	crash
struck by flying or falling object	11	7	4	10	2	4	4	6	2	1	3	3	3	2	3	3	1	4	3	1	2	2	1	82	struck by flying or falling object
collapse		1	1	1	2	1		3	2		1				1		2			1		2		18	collapse
crashed by	1	3	5	5	3	1	1	2	1	1	1		5	3	2	3	2	2		2	1	5	2	51	crashed by
caught in/between	25	20	23	21	14	30	12	25	15	14	13	17	16	7	10	19	16	7	13	14	9	11	13	364	caught in/between
cut	9	4	4	3	2	5	4	4	2	5	1	2	3	2	2				1			2	3	58	cut
injury to the sole of the foot	1								2	1									1					5	injury to the sole of the foot
drown		1											8							1				10	drown
contact to high/low-temperature	5	2	10	5	7	6	9	2	4	5	5	5	4	5	1	5	3	5	6	5	4	1	5	109	contact to high/low-temperature

facilities			5		3		4	1	3	3	4	4	7	4	4	4	4	1	2	2	5	5	3	68	facilities
scaffolding					1				1						2	2				1				7	scaffolding
timbering																									timbering
stairs, landing stage			1		3		6	1	4	4	2	2	3	2	2	2	3	3	2	3	1	4	4	52	stairs, landing stage
opening								1		1		1	1	2	1			1	1			1		10	opening
roof, beam, haze, crossbeam, principal rafter								1		1			1			1								4	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			1				3	1	1		1	2		2	1	2	1		4		1	1	4	25	working platform, boot board
passage			5		3		7	1	4	1	4	7	2	2	4	3	2	3	5	4	7	4	3	71	passage
building, establishment			5		2		6	2	1	3	4	4	6	3	3	1	2	1	2		1			46	building, establishment
other temporary buildings, establishments			1		1		3	1		2			1		2	3	1		1	1	1	3	1	22	other temporary buildings, establishments
explosive substance													3										1	4	explosive substance
inflammable substance							1	1			8	5		1	4		1	1	2			1	1	26	inflammable substance
inflammable gas							1	1					1											3	inflammable gas
harmful substance					1						1			3		9					1	1		16	harmful substance
radiation																									radiation
other hazards, harmful substances			6		2		2	2	2	1		1		3		1	1		1	3	3			28	other hazards, harmful substances

Workers age of fatal and non-fatal accidents in petroleum/coal products in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
19 years old or less	2		2	3		1			1	1				4	1	1	2	2	2	1	1	3	1	28	19 years old or less
20-29	11	14	20	17	4	11	10	12	4	4	10	12	8	5	8	14	4	5	5	4	5	7	11	205	20-29
30-39	16	14	15	14	11	15	17	17	13	5	10	20	20	11	10	12	8	8	6	5	8	8	15	278	30-39
40-49	19	27	25	11	19	24	14	18	14	15	14	12	13	8	16	15	11	11	20	15	13	19	10	363	40-49
50-59	26	21	23	20	14	27	24	13	18	19	17	20	19	15	15	19	11	10	14	13	13	11	16	398	50-59
60 years old or more	12	3	9	7	6	9	10	3	9	10	7	7	11	11	10	10	6	7	11	9	12	8	14	201	60 years old or more
total	86	79	94	72	54	87	75	63	59	54	58	71	71	54	60	71	42	43	58	47	52	56	67	1,473	total

Workers' number of workplace of fatal and non-fatal accidents in petroleum/coal products in 1999-2021

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Workers scale
9 workers or less	27	21	26	17	15	23	14	13	13	21	15	11	13	6	14	20	13	12	9	9	9	8	11	340	9 workers or less
10-29	24	22	18	19	18	19	15	13	16	8	10	17	15	15	12	9	11	8	12	11	14	11	20	337	10-29
30-49	11	11	17	5	5	13	10	7	9	10	10	5	8	2	7	4	4	4	10	3	11	8	13	187	30-49
50-99	11	13	13	14	6	18	14	11	9	2	11	10	17	11	8	16	5	5	6	8	7	11	7	233	50-99
100-299	7	7	10	9	6	10	13	14	4	7	6	14	7	6	15	7	2	10	11	7	7	5	4	188	100-299
300 workers or more	6	5	10	8	4	4	9	5	8	6	6	14	11	14	4	15	7	4	10	9	4	13	12	188	300 workers or more
total	86	79	94	72	54	87	75	63	59	54	58	71	71	54	60	71	42	43	58	47	52	56	67	1,473	total

Month of fatal and non-fatal accidents in petroleum/coal products in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January	4	9	7	3	7	8	4	8	3	2	3	4		6	4	6	1	6	1	2	5	7	7	107	January
February	7	2	8	4	3	2	4	5	3	2	11	7	11	4	6	6	4	4	10	4	9	6	10	132	February
March	8	7	10	4	1	9	5	8	7	3	7	7	14	6	4	4	5	3	3	4	3	4	3	129	March
April	3	8	8	5	6	6	3	9	4	3	5	6	4	4	6	3	6	1	3	2	3	1	3	102	April
May	5	4	7	8	5	4	8	2	5	6	6	1	5	6	2	2	1	3	6	4	2	2	3	97	May
June	6	16	6	6	2	17	10	7	3	4	1	9	5	3	4	4		2	1	2	4	4	6	122	June
July	10	6	10	12	7	11	11	6	1	8	8	3	3	7	9	11	4	5	6	3	4	7	4	156	July
August	10	5	13	5	2	3	8		4	3	5	4	8	2	3	7	3	5	6	9	6	5	5	121	August
September	14	4	7	7	7	10	5	4	1	7	3	10	1	4	7	5	2	5	4	5	5	9	9	135	September
October	7	9	6	4	5	5	7	2	9	7	2	7	12	5	2	8	6		6	6	2	9	7	133	October
November	8	3	6	4	3	3	7	8	16	6	3	8	7	3	12	11	5	6	6	3	3	1	2	134	November
December	4	6	6	10	6	9	3	4	3	3	4	5	1	4	1	4	5	3	6	3	6	1	8	105	December
total	86	79	94	72	54	87	75	63	59	54	58	71	71	54	60	71	42	43	58	47	52	56	67	1,473	total

Prefecture of fatal and non-fatal accidents in petroleum/coal products in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido	3	5	8		4		2	5		3	9	6	3	7	6	1		4	3	4	1		3	77	Hokkaido
Aomori	3	1										1							1	1				7	Aomori
Iwate	1		1												1	2	1	1				1		8	Iwate

Miyagi	1	1	1		2		1		1	1			6		1	1	2	1		1	1	1		22	Miyagi	
Akita									2	1		1	2		1										7	Akita
Yamagata										1						1							1		3	Yamagata
Fukushima	1		2		2			1				2							2						10	Fukushima
Ibaraki	5	4	3		1			4	1	1		2	1			2	1	2	2	2	1	2		3	35	Ibaraki
Tochigi	1						2	4				1	1	2		1	2			1	1	3	3		22	Tochigi
Gunma	1	2					2	1	2	1		1	1				2		3					1	17	Gunma
Saitama	4	2	4		4		2	5	3	2	3	4	5	1	2	1		3	2	2				2	51	Saitama
Chiba	3	4	5		2		6	4	5	7	6	11	11	4	10	6	4	1	8	3	5	6	3		114	Chiba
Tokyo	6	6	1				3		1	1	2	2	3		1	4			1	2		1	2		36	Tokyo
Kanagawa	4	2	10		2		8	6	6	3	4	6	1	10	4	6	2	3	2	4	7	9	8		107	Kanagawa
Niigata	1	1	2		3		4	1	1	2	1	1								1				1	19	Niigata
Toyama					1		2			1	1		1			1									7	Toyama
Ishikawa	2	1						2						1											6	Ishikawa
Fukui			2									1			1										4	Fukui
Yamanashi																										Yamanashi
Nagano	1	1	1				1	1	1	1						1	3	1		1		1	2		16	Nagano
Gifu			2		1			1	1		1	1	1	1	1	1		1	1		2				15	Gifu
Shizuoka	3	2	2				3		1	1		2			1	1		1	1	2	1		1		22	Shizuoka
Aichi	3	2	3		4		5	5	4		4	4	3	3	4	4	1	2	5	1	10	5	4		76	Aichi
Mie	4	1	2		3		1	1	1	4		2	2	3	1	2			4	1	2				34	Mie
Shiga			1					1	1	1					3	1		1							9	Shiga
Kyoto	5	2	2		1		3			2			1			1		1	1	1					20	Kyoto

Osaka	12	17	8		8		12	4	8	5	4	9	11	6	6	4	3	6	4	6	3	3	6	145	Osaka	
Hyogo	1	2	4		2		3	3	3	3	3	8	2	1	1	5	1		2	1	3	3	4	55	Hyogo	
Nara	1		1				2		1		1		1					1	1		1		10	Nara		
Wakayama	1	2	2				1	2							2	2	2			2	1		2	19	Wakayama	
Tottori	2							1							1									4	Tottori	
Shimane															1		1			1				3	Shimane	
Okayama	1	1	2		4		3	1	2	6	2		4	2	1		1	2	3	3	1	2	7	48	Okayama	
Hiroshima	2	3	2		2		1	1					2		1	8	4		1			5	3	35	Hiroshima	
Yamaguchi	4	4	6		1		1	2	3	4	3	3	1	6	6	2	1	1	3	3	2	5	3	64	Yamaguchi	
Tokushima	1							1																2	Tokushima	
Kagawa			1				2	1				1	1			2	1	1	2			2		14	Kagawa	
Ehime		1	1						1	1	1		1	1	1	2		2			1	1	1	15	Ehime	
Kochi							1																	1	Kochi	
Fukuoka	7	6	10		5		2	1	6	1	10	2	5	5	3	4	7	5	3	5	3	2	3	95	Fukuoka	
Saga		1			1						1						1					1		5	Saga	
Nagasaki			2						1	1	1								1				1	7	Nagasaki	
Kumamoto		1			1			2						1			2					2	1	1	11	Kumamoto
Oita		1							1				1			3		2			1	2	1	12	Oita	
Miyazaki									1		1					1			2					5	Miyazaki	
Kagoshima	1	1	2				1	1							1		1	1			1		2	12	Kagoshima	
Okinawa	1	2	1				1	1	1												1			8	Okinawa	
total	86	79	94		54		75	63	59	54	58	71	71	54	60	71	42	43	58	47	52	56	67	1,314	total	

injury to the sole of the foot									1														1	injury to the sole of the foot	
drown		1										8							1				10	drown	
contact to high/low-temperature																		1					1	contact to high/low-temperature	
contact to harmful substance													1										1	contact to harmful substance	
electric shock																								electric shock	
explosion														2						1			3	explosion	
burst																								burst	
fire																		1					1	fire	
traffic accident (public road)																								traffic accident (public road)	
traffic accident (others)																								traffic accident (others)	
reaction to motion/improper motion																								reaction to motion/improper motion	
others																								others	
unclassifiable																								unclassifiable	
total	3	3	3	2	3	1	2	2	3	3	1	3	8	1	3		1		3	1	1		1	48	total

total	3	3	3	2	3	1	2	2	3	3	1	3	8	1	3		1		3	1	1		1	48	total
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Causal agents (small) of fatal accidents in petroleum/coal products in 1999-2021

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (S) agents
engine																									engine
power transmission mechanism			1		1																			2	power transmission mechanism
circular sawing machine																									circular sawing machine
band sawing machine																									band sawing machine
wood planer machine																									wood planer machine
hollow chisel mortiser, wood borer																									hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																									chamfering machine, router, woodworking milling machine
chain saw																									chain saw
other woodworking machines																									other woodworking machines

hand tool																								hand tool	
ladder	1										1												2	ladder	
slinging tool																								slinging tool	
other tools																								other tools	
other equipment, facilities		1			1									1		1							4	other equipment, facilities	
scaffolding																								scaffolding	
timbering																								timbering	
stairs, landing stage																								stairs, landing stage	
opening																								opening	
roof, beam, haze, crossbeam, principal rafter		1									1												2	roof, beam, haze, crossbeam, principal rafter	
working platform, boot board							1				1												2	working platform, boot board	
passage											1												1	passage	
building, establishment					1																		1	building, establishment	
other temporary buildings, establishments																								other temporary buildings, establishments	
explosive substance																								explosive substance	
inflammable substance															2								1	3	inflammable substance

100-299												1		1	2									4	100-299	
300 workers or more		2									2		1										1		6	300 workers or more
total	3	3	3	2	3	1	2	2	3	3	1	3	8	1	3		1		3	1	1		1	48	total	

Month of fatal accidents in petroleum/coal products in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month	
January		1										1												2	January	
February				1	1									1											3	February
March	1	1				1	1					1	8				1		1					15	March	
April					1			1		1														3	April	
May	1																		1					2	May	
June		1						1	1	1		1			1									6	June	
July				1																				1	July	
August			1				1														1	1		4	August	
September			1								1								1				1	4	September	
October										1														1	October	
November			1						1						2									4	November	
December	1				1				1															3	December	
total	3	3	3	2	3	1	2	2	3	3	1	3	8	1	3		1		3	1	1		1	48	total	

Prefecture of fatal accidents in petroleum/coal products in 1999-2021

