Fatal and non-fatal accidents in glass products in Japan in 1999-2021

glass products industry Code No.010902

Type of accidents in glass 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	16	21	11	15	18	23	18	13	11	14	15	12	12	11	11	16	18	11	13	10	12	14	7	322	fall from height
falling to same level	21	16	18	16	15	24	20	18	20	21	9	14	15	21	15	10	16	14	29	20	10	16	22	400	falling to same level
crash	6	11	15	6	6	6	6	3	8	2	7	9	6	4	9	4	7	3	3	5	5	3	6	140	crash
struck by flying or falling object	14	9	10	12	10	12	8	15	12	12	9	8	4	10	11	10	4	7	6	7	8	5	6	209	struck by flying or falling object
collapse	8	11	7	6	12	9	9	15	6	9	5	4	8	5	9	6	4	5	5	6	5	2	7	163	collapse
crashed by	3	2	7	9	12	11	8	12	8	3	6	2	5	7	3	3	3	3	2	6	5	4	4	128	crashed by
caught in/between	62	62	50	36	49	53	30	37	39	28	24	24	35	22	30	20	24	22	21	23	22	17	20	750	caught in/between
cut	29	35	25	19	24	24	25	15	18	25	10	16	17	12	8	9	9	12	7	8	6	12	12	377	cut
injury to the sole of the foot									1				3	2										6	injury to the sole of the foot
drown																									drown
contact to high/low-temperature	7	2	7	4	10	5	10	1	3	5	4	3	3	6	5	3	4	1	3	1	3	6	3	99	contact to high/low-temperature

contact to harmful substance		1	2	4	5	1		1	2	1	1	2	2			2	3	1	1	1	1			31	contact to harmful substance
electric shock						1		1					1											3	electric shock
explosion						1						1											1	3	explosion
burst					1										1				1					3	burst
fire		1	4				1										1		1					8	fire
traffic accident (public road)			2	3	1	2		2	1	5		3			2	3	8	1	2	2	7	1		45	traffic accident (public road)
traffic accident (others)		1																	1					2	traffic accident (others)
reaction to motion/improper motion	15	11	13	18	19	10	15	18	20	11	11	12	14	17	14	13	7	16	13	11	17	17	23	335	reaction to motion/improper motion
others				1					2		1		1						1		1		1	8	others
unclassifiable	1			2							1												1	5	unclassifiable
total	182	183	171	151	182	182	150	151	151	136	103	110	126	117	118	99	108	96	109	100	102	97	113	3,037	total

Causal agents (large) of fatal and non-fatal accidents in glass products in 1999-2021

Causal (L) 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 (L) agents
machine	58	45	37	30	39	40	26	30	29	32	18	19	24	25	32	20	26	21	18	15	12	13	16	625	machine
crane, conveying																									crane,

machine	29	27	26	23	25	31	18	21	17	17	13	18	18	5	17	12	16	15	12	17	26	7	15	425	conveying machine
other equipment	9	35	18	18	37	28	29	30	31	17	22	21	29	26	23	23	21	17	25	22	19	30	13	543	other equipment
temporary buildings, establishments	27	23	30	23	22	28	23	19	20	22	18	19	15	17	12	17	20	14	24	17	13	18	22	463	temporary buildings, establishments
substance, material	43	33	44	35	41	40	37	37	30	33	19	21	32	25	18	18	17	13	16	17	17	16	23	625	substance, material
load	5	11	8	11	11	8	11	10	14	7	4	10	4	6	8	3	2	5	3	3	4	4	10	162	load
environment			3	5	2	1	2		1	3	1		2	5	1	3	1	2	3	4	2	2	1	44	environment
others	11	9	5	6	5	6	4	4	9	5	8	2	2	8	7	3	5	9	8	5	9	7	13	150	others
total	182	183	171	151	182	182	150	151	151	136	103	110	126	117	118	99	108	96	109	100	102	97	113	3,037	total

Causal agents (middle) of fatal and non-fatal accidents in glass products in 1999-2021

Causal (M) 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 (M) agents
engine		1	1												1									3	engine
power transmission mechanism	4	3	4		2	2	1	1	2	1	3	1	3	3	4	1	2	1	1	1	1	2	1	44	power transmission mechanism
woodworking machine	1	4	2									1				2				1			2	13	woodworking machine

construction machine	1		1						1				1											4	construction machine
metal manufacturing machine	12	5	2	7	5	8	6	4	4	6	4	3	2	2	2		3	2	1	1	2	2	1	84	metal manufacturing machine
general machine	40	32	27	23	32	30	19	25	22	25	11	14	18	20	25	17	21	18	16	12	9	9	12	477	general machine
mobile silviculture machine																									mobile silviculture machine
crane	2	4	4	1	3	1	2	2	2	3	1	3	4		4		1	1		1	5	1		45	crane
conveying machine	26	23	20	20	21	26	16	16	14	10	12	13	14	3	11	9	13	14	10	15	21	5	14	346	conveying machine
vehicle	1		2	2	1	4		3	1	4		2		2	2	3	2		2	1		1	1	34	vehicle
pressure vessel		1							2															3	pressure vessel
chemical facilities				1																				1	chemical facilities
welding equipment		2					1									1					1	1	1	7	welding equipment
kiln, caldron			2	2	3	1	3	1	1	1	1	3	1	1	1		6	1	1	1	1	1		32	kiln, caldron
electric equipment					1	2	1						1	1	1					2				9	electric equipment
human power machine, tools	3	14	3	5	13	9	8	14	11	5	5	8	10	7	11	7	4	10	8	9	5	13	6	188	human power machine, tools

tools	5	15	8	7	15	14	11	12	12	7	11	7	13	16	9	11	9	4	12	8	11	13	3	233	tools
other equipments, facilities	1	3	5	3	5	2	5	3	5	4	5	3	4	1	1	4	2	2	4	2	1	2	3	70	other equipments, facilities
temporary buildings, establishments	27	23	30	23	22	28	23	19	20	22	18	19	15	17	12	17	20	14	24	17	13	18	22	463	temporary buildings, establishments
hazards, harmful substances	3	2	7	3	2	2	1	1	3	1	2	2	3			4	3	2	2	1	1	1	1	47	hazards, harmful substances
materials	40	31	37	32	39	38	36	36	27	32	17	19	29	25	18	14	14	11	14	16	16	15	22	578	materials
load	5	11	8	11	11	8	11	10	14	7	4	10	4	6	8	3	2	5	3	3	4	4	10	162	load
natural environment			3	5	2	1	2		1	3	1		2	5	1	3	1	2	3	4	2	2	1	44	natural environment
other causal agent	6	6	2	1		1			5	2	1			1		1	1		2	3	1		3	36	other causal agent
no causal agent	4	3	3	5	5	5	4	4	4	3	7	2	2	7	7	2	3	9	5	2	8	7	10	111	no causal agent
unclassifiable	1																1		1					3	unclassifiable
total	182	183	171	151	182	182	150	151	151	136	103	110	126	117	118	99	108	96	109	100	102	97	113	3,037	total

Causal agents (small) of fatal and non-fatal accidents in glass 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			1												1									2	engine
power transmission mechanism			4		2		1	1	2	1	3	1	3	3	4	1	2	1	1	1	1	2	1	35	power transmission mechanism
circular sawing machine			1									1				2							2	6	circular sawing machine
band sawing machine																									band sawing machine
wood planer machine			1																					1	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																				1				1	other woodworking machines
leveling, transporting or loading machine													1											1	leveling, transporting or loading machine
excavating machine									1															1	excavating machine
foundation work machine																									foundation work machine

hardening machine																									hardening machine
demolition machine																									demolition machine
vehicle for high lift work																									vehicle for high lift work
other construction machines			1																					1	other construction machines
lathe										1		1	1	1				1	1	1	1			8	lathe
drill press, milling machine										1	1		1										1	4	drill press, milling machine
grinding machine, buffing machine			1		4		2	1				1			1			1				1		12	grinding machine, buffing machine
power press			1		1		1		2	1							3							9	power press
forging pressure hammer																									forging pressure hammer
shearing machine							1	1			1	1												4	shearing machine
other metal manufacturing machines							2	2	2	3	2			1	1						1	1		15	other metal manufacturing machines
centrifugal machine					1																			1	centrifugal machine
mixer, grinder			2		1		2	1				1		1	1	1		1	1			1	1	14	mixer, grinder
roll machine (except printingroll machine)					4		1	3	5	5	1	3	2	1	4	2	1	3	1					36	roll machine (except printingroll machine)
injection molding																									injection molding

machine							1								1			1	1				1	5	machine
food manufacturing machine																									food manufacturing machine
printing machine					1							1		1			1				1		1	6	printing machine
industrial robot			1												1	1								3	industrial robot
other general power machines			24		25		15	21	17	20	10	9	16	17	18	13	19	13	13	12	8	8	9	287	other general power machines
felling machine																									felling machine
mobile logging machine																									mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture machine																									other mobile silviculture machine
crane			3		3		1	1	2	2		2	4				1	1			4	1		25	crane
mobile crane								1				1												2	mobile crane
derrick crane																									derrick crane
elevator, lift			1				1				1				2									5	elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway

simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane										1					2					1	1			5	other powered crane
truck			2		6		2		4	4	2	4	2	1	2	3	7	5	2	4	10	1	1	62	truck
forklift			3		7		8	7	3	3	7	6	3	1	4	2	3	4	6	5	2	2	3	79	forklift
railway equipment																									railway equipment
conveyor			14		8		4	9	6	3	3	1	7	1	5	4	3	5	1	4	6	2	7	93	conveyor
loader							1		1															2	loader
straddle carrier																									straddle carrier
rough terrain hauler																									rough terrain hauler
other powered conveying machines			1				1					2	2						1	2	3		3	15	other powered conveying machines
cars, bus, motorcycle			2		1			3	1	4		1		1	2	3	2		2	1		1	1	25	cars, bus, motorcycle
railway vehicle																									railway vehicle
other vehicles												1		1										2	other vehicles
boiler									1															1	boiler
pressure vessel									1															1	pressure vessel
other pressure vessels																									other pressure vessels
chemical facilities																									chemical facilities
gas welding							1									1					1		1	4	gas welding

equipment																									equipment
arc welding equipment																						1		1	arc welding equipment
other welding equipment																									other welding equipment
kiln, caldron			2		3		3	1	1	1	1	2	1	1	1		6	1	1	1	1			27	kiln, caldron
industrial dryer												1												1	industrial dryer
other kiln, caldron																						1		1	other kiln, caldron
transmission							1													1				2	transmission
electric power facilities					1										1									2	electric power facilities
other electrical equipment													1	1						1				3	other electrical equipment
human power cranes					2																1			3	human power cranes
human power hauling equipment			2		7		6	10	8	3	3	7	3	7	7	4	3	6	8	5	3	11	5	108	human power hauling equipment
human power machine																									human power machine
hand tool			1		4		2	4	3	2	2	1	7		4	3	1	4		4	1	2	1	46	hand tool
ladder			3		5		5	6	6	4	2	3	3	6	3	7	5	3	5	4	4	8	1	83	ladder
slinging tool								1				1			1							1		4	slinging tool
other tools			5		10		6	5	6	3	9	3	10	10	5	4	4	1	7	4	7	4	2	105	other tools
other equipment,																									other equipment,

facilities			5		5		5	3	5	4	5	3	4	1	1	4	2	2	4	2	1	2	3	61	facilities
scaffolding			1		4				1	1							1						1	9	scaffolding
timbering																									timbering
stairs, landing stage			5		4		5	6	3	5	3	10	6	4	2	4	3	3	6	1	6	5	3	84	stairs, landing stage
opening			1				1			1				1					1			1		6	opening
roof, beam, haze, crossbeam, principal rafter														1			1			1		1		4	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			4		2		6	3	2	1	2	2	1	4	2		1	1	5	2	1	4	4	47	working platform, boot board
passage			15		6		5	6	9	9	10	5	6	5	4	5	12	5	8	10	5	6	12	143	passage
building, establishment			2		4		2	2	3	4	1	1	1		2	5	1	3	3	1	1	1	1	38	building, establishment
other temporary buildings, establishments			2		2		4	2	2	1	2	1	1	2	2	3	1	2	1	2			1	31	other temporary buildings, establishments
explosive substance																									explosive substance
inflammable substance			1				1					1	1			1							1	6	inflammable substance
inflammable gas																									inflammable gas
harmful substance			1		2			1	3	1	1	1	2				2	1	2	1				18	harmful substance
radiation																									radiation
other hazards, harmful substances			5								1					3	1	1			1	1		13	other hazards, harmful substances

metal material			5		3		5	3	1	4	3	1	2	2		2	2			1	1	3	1	39	metal material
lumber, bamboo								1	1					1						1				4	lumber, bamboo
stone, sand, substance										2			1			1	1		2			1		8	stone, sand, substance
other materials			32		36		31	32	25	26	14	18	26	22	18	11	11	11	12	14	15	11	21	386	other materials
load			7		11		10	9	12	7	4	10	4	6	6	3	1	5	3	3	4	4	10	119	load
machine/equipment as load			1				1	1	2						2		1							8	machine/equipment as load
natural ground, rock																				1				1	natural ground, rock
standing tree																					1			1	standing tree
water					1						1													2	water
abnormal environment																									abnormal environment
high/cold temperature environment			2		1		2			2			1	1		1	1	1	1		1	2		16	high/cold temperature environment
other environments			1						1	1			1	4	1	2		1	2	3			1	18	other environments
other causal agent			2						5	2	1			1		1	1		2	3	1		3	22	other causal agent
no causal agent			3		5		4	4	4	3	7	2	2	7	7	2	3	9	5	2	8	7	10	94	no causal agent
unclassifiable																	1		1					2	unclassifiable
total			171		182		150	151	151	136	103	110	126	117	118	99	108	96	109	100	102	97	113	2,339	total

Workers age of fatal and non-fatal accidents in glass 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	6	4	5	6	4	6	4	4	4	2	2	1	1	4	3		3	1	1		3		1	65	19 years old or less
20-29	44	46	41	32	52	35	27	39	23	26	12	22	26	20	23	5	14	14	21	10	13	13	13	571	20-29
30-39	34	45	36	38	46	53	35	39	38	37	33	24	27	26	27	37	17	18	29	23	18	27	24	731	30-39
40-49	40	31	31	27	33	34	26	28	31	32	24	27	31	31	33	27	32	26	23	34	25	22	28	676	40-49
50-59	46	46	39	35	40	38	39	29	40	26	22	20	24	26	22	20	25	23	22	19	25	26	29	681	50-59
60 years old or more	12	11	19	13	7	16	19	12	15	13	10	16	17	10	10	10	17	14	13	14	18	9	18	313	60 years old or more
total	182	183	171	151	182	182	150	151	151	136	103	110	126	117	118	99	108	96	109	100	102	97	113	3,037	total

Workers' number of workplace of fatal and non-fatal accidents in glass 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	20	24	19	30	33	32	22	24	22	19	10	11	11	9	10	9	9	5	10	8	5	10	11	363	9 workers or less
10-29	48	41	49	43	40	39	37	28	31	21	22	12	18	20	23	15	21	20	17	18	10	13	23	609	10-29
30-49	26	14	15	15	19	24	21	28	23	19	14	18	19	20	15	16	19	12	12	18	18	13	13	411	30-49
50-99	31	43	32	21	39	39	41	20	31	32	19	17	39	31	26	21	16	28	28	10	19	18	22	623	50-99
100-299	36	37	31	21	32	35	19	33	28	28	29	35	28	21	26	21	29	19	31	40	38	32	32	681	100-299
300 workers or more	21	24	25	21	19	13	10	18	16	17	9	17	11	16	18	17	14	12	11	6	12	11	12	350	300 workers or more
total	182	183	171	151	182	182	150	151	151	136	103	110	126	117	118	99	108	96	109	100	102	97	113	3,037	total

Month of fatal and non-fatal accidents in glass 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	9	13	15	5	8	17	11	17	8	20	7	15	9	6	6	8	16	9	13	11	7	7	12	249	January
February	11	9	9	13	10	10	9	11	18	9	10	10	11	13	13	9	4	6	8	7	8	11	4	223	February
March	18	19	22	9	15	12	20	12	7	3	11	6	10	10	11	8	6	4	15	16	9	9	14	266	March
April	17	12	6	8	14	13	15	13	8	9	5	5	12	10	8	6	11	6	5	6	9	4	8	210	April
May	18	16	10	13	15	12	9	9	13	18	11	11	8	6	14	7	8	8	11	7	7	11	10	252	May
June	14	20	14	13	19	30	7	9	20	10	9	11	14	11	12	11	7	7	9	7	10	7	6	277	June
July	17	17	24	19	22	15	14	15	19	17	13	12	11	10	8	9	11	7	9	8	10	13	9	309	July
August	18	19	11	13	21	14	16	18	11	11	8	9	11	12	10	6	11	8	10	7	7	6	13	270	August
September	17	17	22	18	20	19	14	10	8	12	8	8	6	11	9	16	7	8	7	6	14	10	5	272	September
October	14	13	13	9	15	13	14	14	15	11	8	11	5	12	10	7	9	13	7	11	7	5	11	247	October
November	15	13	17	19	11	15	12	10	11	6	6	8	15	5	10	2	12	10	6	7	6	6	11	233	November
December	14	15	8	12	12	12	9	13	13	10	7	4	14	11	7	10	6	10	9	7	8	8	10	229	December
total	182	183	171	151	182	182	150	151	151	136	103	110	126	117	118	99	108	96	109	100	102	97	113	3,037	total

Prefecture of fatal and non-fatal accidents in glass 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		7		3		2	2	3	1	2		1	2	1	1		1		3		2		34	Hokkaido
Aomori							1															1		2	Aomori
Iwate	3	1	1		2		4	2		1				1	1	1	2						1	20	Iwate

Miyagi	6		4		4		3	8	5	3	4		1	1	2	2		3	1	1			1	49	Miyagi
Akita										1	1	1	2		2	1	1	2	2	3	1	2	2	21	Akita
Yamagata	4	2	7		1			2	2	2			2	3	5		1	2	2	4	1	2	3	45	Yamagata
Fukushima	6	6	2		6		3	6	1	6	5	2	4	3	3	5	4	4	5	3	3	9	9	95	Fukushima
Ibaraki	6	5	13		3		3	3	9	6	5	7	5	3	3	6	2	3	4	6	6	5	3	106	Ibaraki
Tochigi	5	2	1		1		1	1	2		1		3		1			1	2	1		1	2	25	Tochigi
Gunma	5	1	4		4		4	4	4	2	1	3	2	1	6	1	1	1			4	1		49	Gunma
Saitama	12	10	11		12		5	5	8	3	3	9	6	3	1	5	5	5	8	7	11	4	14	147	Saitama
Chiba	8	7	10		13		3	12	9	7	6	8	14	8	8	7	8	12	10	8	8	7	7	180	Chiba
Tokyo	7	14	11		12		10	7	3	9	7	8	9	8	4	3	7	6	9	9	9	3	9	164	Tokyo
Kanagawa	12	17	14		18		20	17	14	14	8	12	7	9	7	14	8	5	7	2	3	5	5	218	Kanagawa
Niigata	2	2	1				1	2	3		2		1	2		1	1	2	1	3		1	1	26	Niigata
Toyama	4	8			3		7	9	5	1	2	1	11	6	7	5	7	5	5	2	6	4	6	104	Toyama
Ishikawa							1					1					1					1		4	Ishikawa
Fukui	2	1	5		4		3	3	4	4	2	2			1		1				1			33	Fukui
Yamanashi			2		1			1		3			1	1	2		1					1		13	Yamanashi
Nagano	3	1	1					1	1	4		3	2		1	1	2		1	2		1	1	25	Nagano
Gifu	6	4	2		8		6	5	8	5	3	4	3	3	3	1	3	5	2	4	2	5	1	83	Gifu
Shizuoka	6	6	10		7		3	5	3	9	1	4	1	5	4	3	1	1	2	1	6	2	4	84	Shizuoka
Aichi	6	6	8		6		7	5	8	5	3	5	13	6	4	9	11	9	7	8	7	5	5	143	Aichi
Mie	10	13	9		13		12	9	13	10	4	1	6	10	10	9	6	4	6	5	4	2	8	164	Mie
Shiga	12	8	14		8		10	11	16	3	4	16	7	17	13	10	14	7	8	5	12	6	4	205	Shiga
Kyoto	5	7	3		6		2	2	3	2	4		1	2	4	1	1	2	2		2	2	1	52	Kyoto

Osaka	19	25	12		19		9	7	8	12	14	9	15	10	3	3	6	4	12	2	4	6	2	201	Osaka
Hyogo	10	13	5		10		13	8	7	8	8	4	2	2	10	5	5	2	6	9	4	7	6	144	Hyogo
Nara					1		1	1	1			1		1	2									8	Nara
Wakayama								1	1	1		1			1		1						1	7	Wakayama
Tottori																									Tottori
Shimane		1	2										1				2						1	7	Shimane
Okayama			1		1		1	1		3		2		1		1				3	2	4		20	Okayama
Hiroshima		1					2		1	2									1	1	2		1	11	Hiroshima
Yamaguchi	1	2	1		2		3		3		1						1		1			1		16	Yamaguchi
Tokushima	2		1		2				1		2		1		1			1			1		3	15	Tokushima
Kagawa					1											1				1				3	Kagawa
Ehime																									Ehime
Kochi																									Kochi
Fukuoka	9	14	8		3		7	9	4	6	3		2	5	3	1	4	3	2	4	1	3	3	94	Fukuoka
Saga	1	3	1		2		1	2				3		3	2	1	1	2	2	2	1	1	2	30	Saga
Nagasaki	1				1							1			1			1						5	Nagasaki
Kumamoto	1	1			1		1		1		3		1					2		1			2	14	Kumamoto
Oita																									Oita
Miyazaki	3	1								2	1	1				1		1	1		1	3	5	20	Miyazaki
Kagoshima	2	1			2					1	2	1	2											11	Kagoshima
Okinawa					2		1				1			1	2									7	Okinawa
total	182	183	171		182		150	151	151	136	103	110	126	117	118	99	108	96	109	100	102	97	113	2,704	total

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more. Data of 2011 year include fatal and non-fatal 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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Fatal accidents in glass products in Japan in 1999-2021

glass products industry Code No.010902

Type of fatal accidents in glass 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						1				1												1		3	fall from height
falling to same level							1		1															2	falling to same level
crash			1																					1	crash
struck by flying or falling object																				1				1	struck by flying or falling object
collapse		1					1																	2	collapse
crashed by								1							1									2	crashed by
caught in/between						2				1											1			4	caught in/between
cut							1																	1	cut

injury to the sole of the foot																									injury to the sole of the foot
drown																									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													1											1	electric shock
explosion																									explosion
burst																									burst
fire																									fire
traffic accident (public road)																			1					1	traffic accident (public road)
traffic accident (others)																									traffic accident (others)
reaction to motion/improper motion																									reaction to motion/improper motion
others																					1			1	others
unclassifiable																									unclassifiable
total		1	1			3	3	1	1	2			1		1	1			1	1	3	1		21	total

Causal agents (large) of fatal accidents in glass products in 1999-2021

Causal (L) 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 (L) agents
machine										1					1									2	machine
crane, conveying machine			1			1	1			1									1		1			6	crane, conveying machine
other equipment		1							1				1							1				4	other equipment
temporary buildings, establishments						1																1		2	temporary buildings, establishments
substance, material						1	2									1								4	substance, material
load								1																1	load
environment																					1			1	environment
others																					1			1	others
total		1	1			3	3	1	1	2			1		1	1			1	1	3	1		21	total

Causal agents (middle) of fatal accidents in glass products in 1999-2021

Causal (M) 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 (M) agents

engine																									engine
power transmission mechanism																									power transmission mechanism
woodworking machine																									woodworking machine
construction machine																									construction machine
metal manufacturing machine																									metal manufacturing machine
general machine										1					1									2	general machine
mobile silviculture machine																									mobile silviculture machine
crane																						1		1	crane
conveying machine			1				1			1									1					4	conveying machine
vehicle						1																		1	vehicle
pressure vessel																									pressure vessel
chemical facilities																									chemical facilities
welding equipment																									welding equipment

kiln, caldron																									kiln, caldron
electric equipment													1											1	electric equipment
human power machine, tools									1															1	human power machine, tools
tools		1																		1				2	tools
other equipments, facilities																									other equipments, facilities
temporary buildings, establishments						1																1		2	temporary buildings, establishments
hazards, harmful substances																1								1	hazards, harmful substances
materials						1	2																	3	materials
load								1																1	load
natural environment																					1			1	natural environment
other causal agent																									other causal agent
no causal agent																					1			1	no causal agent
unclassifiable																									unclassifiable

total		1	1			3	3	1	1	2			1		1	1			1	1	3	1		21	total

Causal agents (small) of fatal accidents in glass 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																									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

leveling, transporting or loading machine																									leveling, transporting or loading machine
excavating machine																									excavating machine
foundation work machine																									foundation work machine
hardening machine																									hardening machine
demolition machine																									demolition machine
vehicle for high lift work																									vehicle for high lift work
other construction machines																									other construction machines
lathe																									lathe
drill press, milling machine																									drill press, milling machine
grinding machine, buffing machine																									grinding machine, buffing machine
power press																									power press
forging pressure hammer																									forging pressure hammer
shearing machine																									shearing machine
other metal manufacturing machines																									other metal manufacturing machines

centrifugal machine																									centrifugal machine
mixer, grinder																									mixer, grinder
roll machine (except printingroll machine)										1														1	roll machine (except printingroll machine)
injection molding machine																									injection molding machine
food manufacturing machine																									food manufacturing machine
printing machine																									printing machine
industrial robot																									industrial robot
other general power machines															1									1	other general power machines
felling machine																									felling machine
mobile logging machine																									mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture machine																									other mobile silviculture machine
crane																									crane
mobile crane																									mobile crane
derrick crane																									derrick crane
elevator, lift																									elevator, lift

cargo lifting appliance																										cargo lifting appliance
gondola																										gondola
lumberyard equipment, logging cableway																										lumberyard equipment, logging cableway
simple skyline yarding equipment																										simple skyline yarding equipment
other powered crane																						1			1	other powered crane
truck										1										1					2	truck
forklift			1				1																		2	forklift
railway equipment																										railway equipment
conveyor																										conveyor
loader																										loader
straddle carrier																										straddle carrier
rough terrain hauler																										rough terrain hauler
other powered conveying machines																										other powered conveying machines
cars, bus, motorcycle						1																			1	cars, bus, motorcycle
railway vehicle																										railway vehicle
other vehicles																										other vehicles
boiler																										boiler

pressure vessel																									pressure vessel
other pressure vessels																									other pressure vessels
chemical facilities																									chemical facilities
gas welding equipment																									gas welding equipment
arc welding equipment																									arc welding equipment
other welding equipment																									other welding equipment
kiln, caldron																									kiln, caldron
industrial dryer																									industrial dryer
other kiln, caldron																									other kiln, caldron
transmission																									transmission
electric power facilities																									electric power facilities
other electrical equipment													1											1	other electrical equipment
human power cranes																									human power cranes
human power hauling equipment									1															1	human power hauling equipment
human power machine																									human power machine

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

inflammable gas																									inflammable gas
harmful substance																									harmful substance
radiation																									radiation
other hazards, harmful substances																1								1	other hazards, harmful substances
metal material																									metal material
lumber, bamboo																									lumber, bamboo
stone, sand, substance																									stone, sand, substance
other materials						1	2																	3	other materials
load								1																1	load
machine/equipment as load																									machine/equipment as load
natural ground, rock																									natural ground, rock
standing tree																									standing tree
water																									water
abnormal environment																									abnormal environment
high/cold temperature environment																					1			1	high/cold temperature environment
other environments																									other environments
other causal agent																									other causal agent

no causal agent																					1			1	no causal agent
unclassifiable																									unclassifiable
total		1	1			3	3	1	1	2			1		1	1			1	1	3	1		21	total

Workers age of fatal accidents in glass 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																									19 years old or less
20-29			1				1						1						1		1	1		6	20-29
30-39						1		1												1				3	30-39
40-49						1			1						1						1			4	40-49
50-59		1				1	2			1						1					1			7	50-59
60 years old or more										1														1	60 years old or more
total		1	1			3	3	1	1	2			1		1	1			1	1	3	1		21	total

Workers' number of workplace of fatal accidents in glass 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						1																		1	9 workers or less
10-29									1											1		1		3	10-29
30-49																			1		1			2	30-49
50-99		1				1	2	1					1								2			8	50-99

100-299			1							2						1								4	100-299
300 workers or more						1	1								1									3	300 workers or more
total		1	1			3	3	1	1	2			1		1	1			1	1	3	1		21	total

Month of fatal accidents in glass 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	February
March															1									1	March
April																					1			1	April
May																						1		1	May
June																					1			1	June
July										1						1								2	July
August							1						1						1		1			4	August
September			1			1																		2	September
October						1			1															2	October
November						1	2																	3	November
December										1														1	December
total		1	1			3	3	1	1	2			1		1	1			1	1	3	1		21	total

Prefecture of fatal accidents in glass 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																									Hokkaido
Aomori																									Aomori
Iwate																									Iwate
Miyagi																									Miyagi
Akita																									Akita
Yamagata																									Yamagata
Fukushima										1			1											2	Fukushima
Ibaraki																				1				1	Ibaraki
Tochigi																									Tochigi
Gunma																									Gunma
Saitama						1																		1	Saitama
Chiba																					1			1	Chiba
Tokyo																									Tokyo
Kanagawa		1					1									1								3	Kanagawa
Niigata																									Niigata
Toyama																					1			1	Toyama
Ishikawa																									Ishikawa
Fukui									1															1	Fukui
Yamanashi																									Yamanashi
Nagano																									Nagano
Gifu																									Gifu

Shizuoka																									Shizuoka
Aichi			1				1																	2	Aichi
Mie										1					1						1			3	Mie
Shiga																						1		1	Shiga
Kyoto																									Kyoto
Osaka								1																1	Osaka
Hyogo						1	1																	2	Hyogo
Nara																									Nara
Wakayama																									Wakayama
Tottori																									Tottori
Shimane																									Shimane
Okayama																									Okayama
Hiroshima						1																		1	Hiroshima
Yamaguchi																									Yamaguchi
Tokushima																									Tokushima
Kagawa																									Kagawa
Ehime																									Ehime
Kochi																									Kochi
Fukuoka																			1					1	Fukuoka
Saga																									Saga
Nagasaki																									Nagasaki
Kumamoto																									Kumamoto
Oita																									Oita

Miyazaki																									Miyazaki
Kagoshima																									Kagoshima
Okinawa																									Okinawa
total		1	1			3	3	1	1	2			1		1	1			1	1	3	1		21	total

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm (MHLW, Japan)

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