

Fatal and non-fatal accidents in dyeing in Japan in 1999-2021

dyeing industry Code No.010204

Type of accidents in dyeing 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	17	21	23	16	17	22	22	19	11	16	13	14	8	10	12	7	18	9	10	10	8	8	10	321	fall from height
falling to same level	28	28	20	15	21	19	19	18	18	13	21	8	13	14	15	12	18	13	17	15	15	13	9	382	falling to same level
crash	7	12	15	10	3	7	5	3	6	7	4	6	3	3	5	3	6	2	1	2	9	3	1	123	crash
struck by flying or falling object	11	12	3	4	4	7	5	8	3	6	2	2	3	4	2	3	3	5	1	1	1		4	94	struck by flying or falling object
collapse	3	1	3		1	2		1			2	1		3	1		1	1	1			1		22	collapse
crashed by	8	4	5	6	5	3	4	2	4	3	2	2	2	3	2	1	2	2	5	2	1	3	2	73	crashed by
caught in/between	83	64	69	55	56	39	45	39	21	32	29	22	22	27	31	24	23	25	28	20	24	15	20	813	caught in/between
cut	4	9	4	3	6	3	5	4	3	3	5	3	2		1	1	1	1	4		6	1	3	72	cut
injury to the sole of the foot												1				1				1				3	injury to the sole of the foot
drown		1																						1	drown
contact to high/low-temperature	16	20	24	10	8	10	15	7	3	9	6	11	6	6	5	4	5	8	13	5	4	6	8	209	contact to high/low-temperature

engine																					1														1	engine
power transmission mechanism			5		2			1	1	1			3	1	1			2	2			1												5	27	power transmission mechanism
circular sawing machine													1																						1	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																																			1	other woodworking machines
leveling, transporting or loading machine																																				leveling, transporting or loading machine
excavating machine																																				excavating machine
foundation work machine																																				foundation work machine

machine																									machine
food manufacturing machine																									food manufacturing machine
printing machine				2	1	2				1							3					1	10	printing machine	
industrial robot																								industrial robot	
other general power machines			38	28	29	18	18	27	19	10	10	14	9	9	13	10	13	4	15	10	9	303	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			1	1	2			1			1		1	1		3	1	1	1				14	crane	
mobile crane																								mobile crane	
derrick crane																								derrick crane	
elevator, lift			1	2	2	1			3			1	1		1								12	elevator, lift	
cargo lifting appliance																								cargo lifting appliance	
gondola																								gondola	
lumberyard equipment, logging cableway																								lumberyard equipment, logging cableway	

facilities			5		7		3	5	3	5	3	3	3	5	3		2	5	4	3	1	1	1	62	facilities
scaffolding					1																			2	scaffolding
timbering																									timbering
stairs, landing stage			3		7		8	12	5	3	4	4	2	6	6	4	2	2	6	3	6	4	1	88	stairs, landing stage
opening												2			1					1				4	opening
roof, beam, haze, crossbeam, principal rafter			1				2				1	1			1			1				1		9	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			1		2		6	4	3	5	3		4	1	2	2	5	4	4	2	4	3	2	57	working platform, boot board
passage			15		8		7	7	7	8	13	4	8	7	7	5	13	9	6	7	9	6	7	153	passage
building, establishment			3		3		3	1		2	3	2		1	2	1		1	2	1	1	3	3	32	building, establishment
other temporary buildings, establishments			3		2		2	3	3		2	1		1	1	1	1	1		1				22	other temporary buildings, establishments
explosive substance							1																	1	explosive substance
inflammable substance											1	1						1						3	inflammable substance
inflammable gas																									inflammable gas
harmful substance			7		4		3	4			3		1		1	2	1	2				1	1	30	harmful substance
radiation																									radiation
other hazards, harmful substances			2				3	1	2	4	4	2	3	2	4	1	1	2	1	1	2	4	1	40	other hazards, harmful substances

metal material			2				1	1		2	1	1	2		1		1	1	1	2	1	1	18	metal material	
lumber, bamboo					1		1										1		1				4	lumber, bamboo	
stone, sand, substance																									stone, sand, substance
other materials			4		1		1	4	2	4	1	2	1		1	2	3	1	3	1	1		32	other materials	
load			5		2		8	10	4	4	3	2	3	4	1	4	4	3	1		8	1	2	69	load
machine/equipment as load			2															1	1				6	machine/equipment as load	
natural ground, rock																									natural ground, rock
standing tree																						1		1	standing tree
water								1									1	1	1				4	water	
abnormal environment																									abnormal environment
high/cold temperature environment			1		2		1		2		2	1			4			1	1	1	1	3	20	high/cold temperature environment	
other environments			1		1					1			2	1						1			7	other environments	
other causal agent			4						1	1						1	1				1	1	10	other causal agent	
no causal agent			2		3		2	1	2	1	2	2	3	3	4	2	2		7	2	2	1	2	43	no causal agent
unclassifiable			1												1								2	unclassifiable	
total			184		136		140	115	78	102	98	79	67	77	81	63	87	80	90	62	80	59	64	1,742	total

Workers age of fatal and non-fatal accidents in dyeing 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	5	5	3	3	1	2	4					1			2	1	2	2	1	1	4	1	1	39	19 years old or less
20-29	24	25	22	18	13	12	15	14	7	13	9	10	6	5	10	6	13	10	10	10	8	7	15	282	20-29
30-39	22	25	20	27	23	25	25	19	10	22	27	20	16	11	10	7	14	9	20	9	12	9	10	392	30-39
40-49	28	36	33	25	18	17	21	14	12	22	16	13	7	15	13	9	24	23	15	13	19	8	18	419	40-49
50-59	81	81	79	53	63	54	54	44	34	24	23	18	21	20	25	13	11	19	22	11	13	14	10	787	50-59
60 years old or more	39	21	27	14	18	25	21	24	15	21	23	17	17	26	21	27	23	17	22	18	24	20	10	490	60 years old or more
total	199	193	184	140	136	135	140	115	78	102	98	79	67	77	81	63	87	80	90	62	80	59	64	2,409	total

Workers' number of workplace of fatal and non-fatal accidents in dyeing 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	19	30	21	25	19	25	20	11	7	5	13	7	6	14	12	5	11	3	11	1	6	2	2	275	9 workers or less
10-29	57	37	45	41	33	29	33	32	21	29	26	23	13	19	17	16	22	21	23	14	19	14	18	602	10-29
30-49	41	40	46	20	22	17	21	17	13	18	14	13	14	13	19	9	19	10	14	12	17	11	9	429	30-49
50-99	35	34	24	21	30	26	27	27	14	13	16	13	19	16	20	14	16	24	18	15	17	10	14	463	50-99
100-299	44	49	43	28	32	34	37	22	22	33	25	21	15	15	13	18	15	20	23	18	18	21	19	585	100-299
300 workers or more	3	3	5	5		4	2	6	1	4	4	2				1	4	2	1	2	3	1	2	55	300 workers or more
total	199	193	184	140	136	135	140	115	78	102	98	79	67	77	81	63	87	80	90	62	80	59	64	2,409	total

Month of fatal and non-fatal accidents in dyeing 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	11	5	19	11	15	10	11	14	7	10	10	10	7	9	6	8	5	2	11	2	12	3	6	204	January
February	16	24	12	11	12	17	12	13	9	10	10	3	9	5	5	5	8	3	8	5	9	10	4	220	February
March	14	18	15	11	5	14	12	11	5	13	2	6	6	7	3	4	8	10	12	6	7	5	6	200	March
April	19	19	13	12	7	10	10	12	9	11	10	7	1	11	8	4	11	7	16	6	5	6	3	217	April
May	23	12	22	11	11	6	10	8	8	7	9	7	3	4	12	3	4	7	3	8	7	4	10	199	May
June	23	15	12	12	13	9	16	11	9	9	12	6	8	4	10	6	6	11	6	2	3	3	6	212	June
July	20	16	14	9	13	11	10	6	3	7	12	10	8	7	12	6	10	9	5	9	9	2	6	214	July
August	16	13	17	6	12	18	13	12	6	5	9	6	5	7	6	5	7	7	6	7	6	2	7	198	August
September	17	13	15	14	11	10	8	10	6	4	8	3		2	6	6	8	5	7	5	2	9	3	172	September
October	12	22	18	15	16	13	12	8	2	11	3	7	7	8	5	7	8	9	5	6	8	7	6	215	October
November	14	17	13	14	11	11	10	7	8	7	6	8	8	4	4	5	5	8	8		5	3	3	179	November
December	14	19	14	14	10	6	16	3	6	8	7	6	5	9	4	4	7	2	3	6	7	5	4	179	December
total	199	193	184	140	136	135	140	115	78	102	98	79	67	77	81	63	87	80	90	62	80	59	64	2,409	total

Prefecture of fatal and non-fatal accidents in dyeing 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																							1	1	Hokkaido	
Aomori																										Aomori
Iwate	1																1	1		1				4	Iwate	

Miyagi					1																		1	Miyagi	
Akita		1					1														1		3	Akita	
Yamagata	2	3	2				1	2		1			1		1				1		1		16	Yamagata	
Fukushima	1		1				2		1	2			1			1							9	Fukushima	
Ibaraki		1					1	1												1			4	Ibaraki	
Tochigi	5	6	4		2		2			3	1	1	2		1		1	3		1	2	2	2	38	Tochigi
Gunma	2	7	6		5		1	1		1	1	2	1	4	1	2	6	1	1	1	1		44	Gunma	
Saitama	1	5	1		3		4	1	1	1	4	3		3	5	1		5	2	2		1	1	44	Saitama
Chiba																									Chiba
Tokyo		2	4		2		3	3	1		1	1			1	3				1	2			24	Tokyo
Kanagawa	2	1	1		1		1		1	1	2								1					11	Kanagawa
Niigata	4	9	7		5		6	2	6	3	4	5	2	3	2	5	5	7	2	5	2	6	3	93	Niigata
Toyama	1	2	3		1		3	1			2		1			2		1	1		3	1	1	23	Toyama
Ishikawa	3	7	6		6		5	11	3	4	5	8	4	7	4	7	8	2	7	6	5	8	3	119	Ishikawa
Fukui	19	15	15		10		18	16	9	11	11	15	13	12	8	4	13	9	14	4	15	7	11	249	Fukui
Yamanashi		2	2																					9	Yamanashi
Nagano																									Nagano
Gifu	6	6	4		5		4	4	4	5	6	3	3	2	3	3	1	4	5	3	3	4	4	82	Gifu
Shizuoka	17	7	8		6		5	3	5	3	1	4	2	1	4	1	4	2	2	6	2	2	3	88	Shizuoka
Aichi	32	27	22		22		28	15	15	18	14	14	7	9	18	8	13	8	6	16	8	11	15	326	Aichi
Mie	1	1	1		1			1			1										1			7	Mie
Shiga	6	3	5		3		1	4	1	1		2	1	1	2			1	2	3	3	1		40	Shiga
Kyoto	26	18	25		17		23	17	8	17	17	6	6	10	9	8	13	7	18	3	14	4	5	271	Kyoto

Osaka	20	25	26		18		10	11	10	11	14	5	7	11	6	5	4	12	6	2	6	2	4	215	Osaka
Hyogo	10	9	6		2		3	2	1		3	1	4	2	1	1	1		4	3		1	2	56	Hyogo
Nara	5	4	6		3		1	1	1	1	1		1	4	6			1	3	2	4	2	3	49	Nara
Wakayama	11	11	10		6		6	2	2	4	5	4	5	1	4	4	5	5	6	1	3		1	96	Wakayama
Tottori							1			1				2										4	Tottori
Shimane																									Shimane
Okayama	4	5	4		5		4	4		6	2	1	2	1	1	2	5	2	2			1	1	52	Okayama
Hiroshima	7	3	4		1		2	3	4	4			3	1		2	1	1	4		2	1	2	45	Hiroshima
Yamaguchi																									Yamaguchi
Tokushima	1		1				1			1		1												5	Tokushima
Kagawa	1							1		1			1			1								5	Kagawa
Ehime	8	12	8		9		3	6	3	2	2	3	1	1	2	2	4	6	4	1	3	2	1	83	Ehime
Kochi																									Kochi
Fukuoka	3	1	2												2			1					1	10	Fukuoka
Saga																									Saga
Nagasaki														1										1	Nagasaki
Kumamoto								1									1							2	Kumamoto
Oita					2											2							1	5	Oita
Miyazaki																									Miyazaki
Kagoshima																									Kagoshima
Okinawa																									Okinawa
total	199	193	184		136		140	115	78	102	98	79	67	77	81	63	87	80	90	62	80	59	64	2,134	total

injury to the sole of the foot																								injury to the sole of the foot
drown																								drown
contact to high/low-temperature																								contact to high/low-temperature
contact to harmful substance																								contact to harmful substance
electric shock																								electric shock
explosion																								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					1																		1	others
unclassifiable																								unclassifiable
total		2	2	3					2				1			2	1		1		1	15	total	

total	2	2	3					2				1			2	1		1		1	15	total
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Causal agents (small) of fatal accidents in dyeing 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	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

centrifugal machine																									centrifugal machine	
mixer, grinder																										mixer, grinder
roll machine (except printingroll machine)																			1					1	2	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									2													1	4	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																									1	elevator, lift

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																								other electrical equipment
human power cranes																								human power cranes
human power hauling equipment																								human power hauling equipment
human power machine																								human power machine

hand tool																								hand tool	
ladder																1								1	ladder
slinging tool																								slinging tool	
other tools																								other tools	
other equipment, facilities																								other equipment, facilities	
scaffolding																								scaffolding	
timbering																								timbering	
stairs, landing stage																								stairs, landing stage	
opening																								opening	
roof, beam, haze, crossbeam, principal rafter																								roof, beam, haze, crossbeam, principal rafter	
working platform, boot board																								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																								inflammable substance	

no causal agent																									no causal agent
unclassifiable																									unclassifiable
total		2		2		3					2				1			2	1		1		1	15	total

Workers age of fatal accidents in dyeing 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	20-29
30-39																							1	1	30-39
40-49										1														1	40-49
50-59		2		2		1					1							1	1					8	50-59
60 years old or more						1									1			1			1			4	60 years old or more
total		2		2		3					2				1			2	1		1		1	15	total

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

100-299	1				1																		2	100-299	
300 workers or more	1										1												1	3	300 workers or more
total	2		2		3						2				1			2	1		1		1	15	total

Month of fatal accidents in dyeing 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									2														3	February
March				1																			1	2	March	
April						2												1							3	April
May						1												1							2	May
June																										June
July																										July
August		1																							1	August
September															1										1	September
October																										October
November				1																					1	November
December																										December
total		2		2		3					2				1			2	1		1		1	15	total	

Prefecture of fatal accidents in dyeing in 1999-2021

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

Miyazaki																								Miyazaki	
Kagoshima																								Kagoshima	
Okinawa																								Okinawa	
total		2		2		3					2				1			2	1		1		1	15	total

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

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