

contact to harmful substance	8	5	3	6	8	4	9	5	8	5	5	4	9	3	4	3	6	4	13	3	5	6	4	130	harmful substance
electric shock				1	1						1	1	1				1		1				1	8	electric shock
explosion	1	3			5	5	3		2	3		1		1		1	5	2	1	2		1	1	37	explosion
burst	1	4	1	4	2	1	2		1	1	3	3				1	1	2	1	1	1		1	31	burst
fire	3		1			1		2			1		2	1	1		1							13	fire
traffic accident (public road)	42	38	42	49	35	26	34	35	54	48	24	37	36	39	45	42	44	37	37	33	39	30	26	872	traffic accident (public road)
traffic accident (others)	7	6	4	8	6	1	3	1	5	2	2	2	5	2	5	2	4	4	3	1	2	1		76	traffic accident (others)
reaction to motion/improper motion	98	106	108	96	133	132	149	154	151	176	167	146	166	145	151	149	143	158	212	198	240	213	303	3,694	reaction to motion/improper motion
others	13	16	18	8	12	30	58	21	34	18	18	23	22	25	19	17	37	19	30	32	29	141	320	960	others
unclassifiable	4	5	8	11	8	10	9	4	5	9	4	9	6	3	4	4	4	4	4	4	5	2	6	132	unclassifiable
total	699	717	760	737	738	837	942	882	962	965	907	900	888	914	937	912	948	991	1,092	1,090	1,200	1,307	1,728	22,053	total

Causal agents (large) of fatal and non-fatal accidents in education/research service 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	45	33	38	37	31	46	38	44	47	42	48	35	28	37	36	22	32	39	38	37	31	43	42	869	machine
crane, conveying machine	107	121	107	114	89	97	114	101	129	108	82	88	88	96	96	86	82	82	90	79	104	77	100	2,237	crane, conveying machine

																									machine
other equipment	115	118	141	133	137	151	169	164	204	175	188	164	152	187	175	183	170	182	197	192	222	243	279	4,041	other equipment
temporary buildings, establishments	180	215	226	223	224	259	300	292	278	327	298	324	308	301	335	337	359	399	394	413	440	443	540	7,415	temporary buildings, establishments
substance, material	43	38	31	33	36	26	32	39	32	41	19	24	31	25	24	26	31	25	30	28	25	22	18	679	substance, material
load	19	17	25	16	25	17	16	28	29	33	28	26	28	17	15	15	26	17	27	30	44	20	28	546	load
environment	74	65	62	70	64	62	77	75	91	68	69	74	85	79	86	93	78	80	97	95	78	102	106	1,830	environment
others	116	110	130	111	132	179	196	139	152	171	175	165	168	172	170	150	170	167	219	216	256	357	615	4,436	others
total	699	717	760	737	738	837	942	882	962	965	907	900	888	914	937	912	948	991	1,092	1,090	1,200	1,307	1,728	22,053	total

Causal agents (middle) of fatal and non-fatal accidents in education/research service 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	2	1	1			1		2	1	2	1	2	1	1	1			1	1	2			1		21	power transmission mechanism
woodworking machine	6	5	10	9	4	10	11	4	10	10	10	7	10	10	13	5	11	13	10	6	11	10	11	206	woodworking machine	
construction machine	2	1	1	2	2	4	5	1	3	2	3	1		2	5	2	4	2		3	1		3	49	construction machine	

metal manufacturing machine	5	3	7	3	3	4	1	4	9	4	5	4	1	6	1	1	3		1			1	2	68	metal manufacturing machine
general machine	30	23	19	23	22	27	21	33	24	23	29	21	16	17	16	14	14	23	26	25	19	30	25	520	general machine
mobile silviculture machine																				1		1		2	mobile silviculture machine
crane	2	1	1	2	1	2	4		1		4	1	2	3	3	1	1	3	2				5	39	crane
conveying machine	18	20	20	17	5	10	14	20	8	15	11	13	10	10	11	10	7	10	15	11	17	13	15	300	conveying machine
vehicle	87	100	86	95	83	85	96	81	120	93	67	74	76	83	82	75	74	69	73	68	87	64	80	1,898	vehicle
pressure vessel	3	2	1		1	3	1		1		2			2					1		1		1	19	pressure vessel
chemical facilities	1						2		1		1									1			2	8	chemical facilities
welding equipment	1															1								2	welding equipment
kiln, caldron	2	2	2	2	2	1	3	2	3	1	2		2			2			1				1	28	kiln, caldron
electric equipment	1	1	3	1	1			2	3		1	1	1	1	2	5	1	2		4	5	3	4	42	electric equipment
human power machine, tools	50	41	59	53	46	50	57	49	72	56	51	46	35	45	49	52	34	51	60	47	53	50	56	1,162	human power machine, tools
tools	42	56	58	55	66	72	81	85	100	94	101	89	86	106	97	92	91	100	110	105	134	145	158	2,123	tools
other equipments,	15	16	18	22	21	25	25	26	24	24	30	28	28	33	27	32	43	29	25	35	29	45	57	657	other equipments,

circular sawing machine			1		2		8	2	5	4	5	5	6	6	8	3	6	8	6	3	9	5	4	96	circular sawing machine
band sawing machine			1				1							1										3	band sawing machine
wood planer machine			5		1		1	1	1	2		1			2								3	17	wood planer machine
hollow chisel mortiser, wood borer																									hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine			1															1	1					3	chamfering machine, router, woodworking milling machine
chain saw					1				4	2	2		3	2	2	1	3	2	1	2	1	2	2	30	chain saw
other woodworking machines			2				1	1		2	3	1	1	1	1	1	2	2	2	1	1	3	2	27	other woodworking machines
leveling, transporting or loading machine					1		3		2	1	1			1	1		2	1		3	1		3	20	leveling, transporting or loading machine
excavating machine					1					1					1									3	excavating machine
foundation work machine																1								1	foundation work machine
hardening machine																									hardening machine
demolition machine											1													1	demolition machine
vehicle for high lift							1		1								1							3	vehicle for high lift

work																									work
other construction machines			1				1	1			1	1		1	3	1	1	1						12	other construction machines
lathe							1										1							2	lathe
drill press, milling machine							1		2								1							4	drill press, milling machine
grinding machine, buffing machine			1				2	4	1	2	2		3	1									1	17	grinding machine, buffing machine
power press								2																2	power press
forging pressure hammer			1										1											2	forging pressure hammer
shearing machine									1	1	1		1										1	5	shearing machine
other metal manufacturing machines			5		3		1		3		2	1	1	1		1	1		1				1	21	other metal manufacturing machines
centrifugal machine																	1							1	centrifugal machine
mixer, grinder			2				4	1			4		1			1		1			1	1	1	17	mixer, grinder
roll machine (except printingroll machine)			1				1	1				1	1	1			1				1	3	1	12	roll machine (except printingroll machine)
injection molding machine									1															1	injection molding machine
food manufacturing machine			3		7		8	9	14	13	6	9	4	5	4	4	6	5	7	8	7	10	8	137	food manufacturing machine
printing machine								1										1						2	printing machine

kiln, caldron			2		2		3	2	3	1	2		2			1			1					19	kiln, caldron	
industrial dryer																										industrial dryer
other kiln, caldron																1								1	2	other kiln, caldron
transmission			2					2			1					4		2		2	3		2	18	transmission	
electric power facilities					1				1		1		1	1		1					1			7	electric power facilities	
other electrical equipment			1						2			1		1	1					2	1	3	2	14	other electrical equipment	
human power cranes					1		2				1							1			1		4	10	human power cranes	
human power hauling equipment			16		10		11	12	18	20	10	12	6	20	19	29	13	24	29	21	25	22	22	339	human power hauling equipment	
human power machine							2	1			1			1				1	1	2		1	1	11	human power machine	
hand tool			43		35		42	36	54	36	40	33	29	24	30	23	21	25	30	24	27	27	29	608	hand tool	
ladder			30		37		43	49	56	49	56	53	51	65	53	52	46	58	69	54	69	90	93	1,073	ladder	
slinging tool												1								1				2	slinging tool	
other tools			28		29		38	36	44	45	45	35	35	41	44	40	45	42	41	50	65	55	65	823	other tools	
other equipment, facilities			18		21		25	26	24	24	30	28	28	33	27	32	43	29	25	35	29	45	57	579	other equipment, facilities	
scaffolding			1				1	3	1	3	1	3		1	1	1	1	4	1	1	1	1		25	scaffolding	
timbering																									timbering	
stairs, landing stage			56		56		81	62	69	86	65	89	74	62	77	76	90	82	93	95	111	96	122	1,542	stairs, landing stage	
opening			5		1		2	2	3	7	4	5	1	1	6	2	5	5	4	2	4	2	4	65	opening	

roof, beam, haze, crossbeam, principal rafter			7		3		5	5	4	3	6	4	2	4	10	2	5	2	1	3	3	3	4	76	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			27		26		27	38	32	34	34	31	34	40	37	34	37	43	38	33	37	37	49	668	working platform, boot board
passage			80		76		115	103	106	137	115	123	95	123	131	157	149	176	176	191	191	206	265	2,715	passage
building, establishment			25		34		36	41	32	31	44	38	60	41	36	30	37	34	36	46	49	46	51	747	building, establishment
other temporary buildings, establishments			25		28		33	38	31	26	29	31	42	29	37	35	35	53	45	42	44	52	45	700	other temporary buildings, establishments
explosive substance					1		1		1	3		1		1			1	1	1				1	12	explosive substance
inflammable substance			3		1		1	2		1	1		3			1							2	15	inflammable substance
inflammable gas			1		1			1									4			1				8	inflammable gas
harmful substance			1		5		5	3	5	5	4	5	3	1	3	2	1	3	4	3	3	2	1	59	harmful substance
radiation																			3					3	radiation
other hazards, harmful substances			4		9		9	6	4	4	1		7	5	3	4	5	2	4	3	2	3	3	78	other hazards, harmful substances
metal material			10		4		8	8	2	7	2	5	7	7	5	5	8	8	3	10	4	6	4	113	metal material
lumber, bamboo			4		2		3	8	2	8	1	3	4	5	4	3	4	5	3	5	3	1		68	lumber, bamboo
stone, sand, substance			2		4		1	1	4	2	1	1	3		3	3	5	2	2		5	2	4	45	stone, sand, substance
other materials			6		9		4	10	14	11	9	9	4	6	6	8	3	4	10	6	8	8	3	138	other materials
load			22		23		14	24	27	31	25	22	25	13	14	14	25	15	26	27	36	19	27	429	load

machine/equipment as load			3		2		2	4	2	2	3	4	3	4	1	1	1	2	1	3	8	1	1	48	machine/equipment as load
natural ground, rock			33		23		17	25	26	16	21	23	22	20	16	23	16	13	18	8	10	20	18	368	natural ground, rock
standing tree			6		6		8	13	16	8	9	7	7	10	5	7	9	7	10	10	6	11	12	167	standing tree
water			2		4		2	1	4	3	2		12	5	2	4			3	2	2	2	1	51	water
abnormal environment									1			1	1		1	1		1	1					7	abnormal environment
high/cold temperature environment			2		4		2	1	8	6	2	3	6	3	1	3	7	6	5	13	5	10	7	94	high/cold temperature environment
other environments			19		27		48	35	36	35	35	40	37	41	61	55	46	53	60	62	55	59	68	872	other environments
other causal agent			54		43		89	66	68	63	47	60	57	50	63	53	76	50	69	76	84	171	351	1,590	other causal agent
no causal agent			67		77		91	69	74	90	116	98	93	111	103	92	90	114	141	136	169	182	263	2,176	no causal agent
unclassifiable			9		12		16	4	10	18	12	7	18	11	4	5	4	3	9	4	3	4	1	154	unclassifiable
total			760		738		942	882	962	965	907	900	888	914	937	912	948	991	1,092	1,090	1,200	1,307	1,728	19,063	total

Workers age of fatal and non-fatal accidents in education/research service 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	4	2	4	3	6	8	6	3	1	6	5	6	3	4	2		7	7	6	4	7	104	19 years old or less
20-29	128	137	148	141	123	122	195	141	134	166	100	115	100	101	107	87	110	84	109	117	119	151	228	2,963	20-29
30-39	111	152	133	113	148	170	173	157	183	166	177	167	143	154	157	133	121	163	153	128	152	149	223	3,526	30-39
40-49	149	128	151	153	152	170	190	178	206	197	192	203	213	176	178	196	195	212	225	225	268	259	312	4,528	40-49

50-59	138	147	168	182	176	208	213	234	262	243	228	236	238	255	252	264	278	274	287	306	323	332	448	5,692	50-59
60 years old or more	167	149	156	146	135	164	165	164	171	190	209	173	189	222	240	228	242	258	311	307	332	412	510	5,240	60 years old or more
total	699	717	760	737	738	837	942	882	962	965	907	900	888	914	937	912	948	991	1,092	1,090	1,200	1,307	1,728	22,053	total

Workers' number of workplace of fatal and non-fatal accidents in education/research service 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	119	152	151	131	144	153	167	163	184	165	171	186	171	168	180	140	156	159	149	145	171	206	212	3,743	9 workers or less
10-29	200	179	188	208	183	208	213	227	224	231	214	227	204	208	218	242	243	248	281	272	301	300	469	5,488	10-29
30-49	103	124	123	123	127	142	140	124	149	156	139	141	124	152	141	163	140	135	194	200	218	254	350	3,662	30-49
50-99	92	114	113	99	113	109	121	119	137	135	127	97	122	120	135	109	139	125	141	144	188	214	291	3,104	50-99
100-299	111	75	108	92	100	94	122	118	121	141	118	101	107	111	128	114	114	121	150	137	140	151	196	2,770	100-299
300 workers or more	74	73	77	84	71	131	179	131	147	137	138	148	160	155	135	144	156	203	177	192	182	182	210	3,286	300 workers or more
total	699	717	760	737	738	837	942	882	962	965	907	900	888	914	937	912	948	991	1,092	1,090	1,200	1,307	1,728	22,053	total

Month of fatal and non-fatal accidents in education/research service 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	58	65	67	61	60	69	98	83	94	85	83	86	86	98	76	76	98	110	90	107	92	101	178	2,021	January
February	66	55	59	47	77	72	80	78	64	95	64	67	81	88	105	101	83	78	103	100	91	87	114	1,855	February
March	63	49	43	59	38	67	72	55	72	66	70	68	85	63	60	70	80	65	73	81	79	83	129	1,590	March
April	48	58	63	44	55	86	73	64	76	83	82	72	76	75	83	64	105	66	101	84	90	94	194	1,836	April

May	62	82	82	63	67	63	71	89	94	85	78	96	80	81	91	82	90	82	73	113	96	69	160	1,949	May
June	63	71	55	74	81	77	93	85	91	86	93	86	88	78	80	88	89	103	109	107	118	161	152	2,128	June
July	69	63	68	78	62	65	115	67	92	80	95	86	54	81	71	88	79	83	85	93	107	122	133	1,936	July
August	62	48	57	66	58	39	42	67	77	60	59	64	64	65	49	51	52	80	84	83	91	91	185	1,594	August
September	65	60	73	61	62	79	89	78	91	101	74	83	70	73	75	88	68	93	104	81	108	117	138	1,931	September
October	57	63	60	79	69	69	77	81	80	88	71	70	80	71	88	63	77	89	94	86	135	115	137	1,899	October
November	44	55	72	66	54	88	68	81	74	74	80	68	64	73	91	70	67	90	89	78	105	107	108	1,766	November
December	42	48	61	39	55	63	64	54	57	62	58	54	60	68	68	71	60	52	87	77	88	160	100	1,548	December
total	699	717	760	737	738	837	942	882	962	965	907	900	888	914	937	912	948	991	1,092	1,090	1,200	1,307	1,728	22,053	total

Prefecture of fatal and non-fatal accidents in education/research service 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	31	30	24		23		58	50	67	38	49	43	38	40	42	37	41	54	66	52	77	61	75	996	Hokkaido
Aomori	9	5	6		7		6	10	4	5	5	9	10	10	23	10	11	10	9	8	9	9	17	192	Aomori
Iwate	11	10	9		11		13	6	11	5	7	15	18	12	19	25	12	13	15	16	13	19	10	270	Iwate
Miyagi	18	18	20		9		9	18	17	12	16	21	26	35	29	17	19	10	17	29	23	35	54	452	Miyagi
Akita	12	5	3		8		6	6	8	8	11	6	3	5	9	5	11	8	4	13	12	17	23	183	Akita
Yamagata	6	6	3		12		12	12	9	4	8	6	12	7	14	4	12	9	12	13	13	7	17	198	Yamagata
Fukushima	13	16	8		10		17	14	13	9	18	11	10	12	18	15	11	10	9	16	16	16	28	290	Fukushima
Ibaraki	12	16	24		19		31	30	33	21	43	32	37	34	35	33	36	38	38	36	44	28	59	679	Ibaraki
Tochigi	7	14	14		14		20	12	15	14	11	17	23	15	16	18	22	17	19	24	19	24	29	364	Tochigi
Gunma	22	21	12		16		21	13	19	11	17	25	16	9	18	13	16	21	29	20	28	31	35	413	Gunma
Saitama	30	40	38		50		42	43	53	46	47	35	51	48	59	52	28	39	44	46	53	55	89	988	Saitama

Chiba	26	23	35		33		42	61	47	54	31	50	36	32	36	40	42	37	41	46	54	76	87	929	Chiba
Tokyo	69	59	95		67		82	59	90	93	80	94	104	92	90	88	83	115	114	109	99	117	136	1,935	Tokyo
Kanagawa	27	43	44		57		94	50	73	109	73	65	67	73	69	70	82	80	74	75	88	79	108	1,500	Kanagawa
Niigata	10	6	13		11		26	28	15	17	18	14	16	12	22	22	17	10	20	18	29	29	52	405	Niigata
Toyama	7	4	3		6		9	6	8	10	9	2	8	13	4	6	12	9	8	9	8	17	23	181	Toyama
Ishikawa	15	4	7		8		14	6	10	5	9	19	8	16	14	11	7	12	15	17	13	18	32	260	Ishikawa
Fukui	5	6	14		6		3	8	8	7	3	10	2	9	3	6	7	7	10	8	3	7	8	140	Fukui
Yamanashi	2	3	4		6		3	4	2	1	4	3	2	6	9	9	9	8	3	3	6	4	16	107	Yamanashi
Nagano	13	10	14		14		12	8	17	19	18	12	18	14	29	16	22	21	13	13	17	30	31	361	Nagano
Gifu	13	12	12		4		16	15	7	7	11	12	13	14	11	13	21	18	12	12	19	16	29	287	Gifu
Shizuoka	49	34	35		34		32	34	28	29	19	22	31	22	24	36	37	29	42	37	40	38	50	702	Shizuoka
Aichi	28	33	24		28		43	41	30	44	50	35	37	38	35	48	43	48	50	43	53	70	77	898	Aichi
Mie	13	6	7		5		10	17	10	21	18	12	19	17	14	21	12	16	24	36	23	29	35	365	Mie
Shiga	2	4	5		1		6	8	7	6	10	4	8	9	3	9	12	5	9	4	7	8	10	137	Shiga
Kyoto	24	23	21		16		29	28	41	28	14	32	25	26	29	19	33	18	27	35	27	29	27	551	Kyoto
Osaka	62	75	53		61		70	57	70	79	58	74	40	47	48	58	71	82	74	78	84	84	140	1,465	Osaka
Hyogo	23	19	19		28		43	42	49	60	41	36	42	44	29	23	37	26	38	37	47	47	72	802	Hyogo
Nara	1	5	8		10		6	6	9	8	9	6	3	10	5	11	6	8	9	8	10	7	16	161	Nara
Wakayama	5	12	3		8		9	5	7	6	11	7	7	6	2	3	4	8	7	6	9	6	11	142	Wakayama
Tottori	4	8	6		7		4	9	2	6	8	5	4	6	13	5	6	7	3	4	4	10	5	126	Tottori
Shimane	7	4	4		3		8	13	9	4	10	5	8	4	5	11	4	4	12	8	11	14	9	157	Shimane
Okayama	13	6	15		15		11	14	9	19	14	22	14	20	10	17	19	8	16	12	19	36	18	327	Okayama
Hiroshima	15	25	21		16		21	20	22	24	24	19	22	29	17	21	14	25	25	29	44	32	32	497	Hiroshima

Yamaguchi	9	7	3		8		3	9	10	11	10	8	10	15	11	14	9	14	11	11	8	9	20	210	Yamaguchi
Tokushima	5	9	4		8		6	4	5		10	4	4	9	1	2	2	6	9	11	8	7	13	127	Tokushima
Kagawa	5	7	8		5		8	4	7	11	8	5	8	5	6	7	6	12	9	17	13	16	10	177	Kagawa
Ehime	1	2	5		1		7	5	4	5	5	5	4	5	7	7	4	6	12	7	18	15	18	143	Ehime
Kochi	3	4	4		6		8	6	8	4	10	9	4	7	8	6	1	6	5	13	8	12	15	147	Kochi
Fukuoka	22	43	48		26		29	35	32	41	33	33	26	36	40	30	37	39	42	37	36	45	71	781	Fukuoka
Saga	6	3	1		2		4	7	5	6	11	10	6	4	6	8	6	3	9	16	13	6	13	145	Saga
Nagasaki	12	3	8		10		8	12	12	11	9	3	7	8	7	9	4	12	13	13	12	12	13	198	Nagasaki
Kumamoto	9	8	16		20		11	12	13	23	17	19	7	9	12	8	9	17	13	11	14	20	24	292	Kumamoto
Oita	5	10	11		12		6	11	14	7	3	7	5	3	8	5	6	6	11	7	5	9	10	161	Oita
Miyazaki	4	6	10		5		7	12	13	5	7	7	9	5	9	7	13	8	8	4	11	9	9	168	Miyazaki
Kagoshima	8	9	15		7		12	6	14	5	6	4	14	14	14	13	21	19	20	18	22	30	32	303	Kagoshima
Okinawa	6	1	4		5		5	6	6	7	4	6	6	8	5	4	11	13	22	5	11	12	20	167	Okinawa
total	699	717	760		738		942	882	962	965	907	900	888	914	937	912	948	991	1,092	1,090	1,200	1,307	1,728	20,479	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 education/research service in Japan in 1999-2021

education/research service industry Code No.12

explosion				1	1											1								3	explosion	
burst																										burst
fire	1																							1	fire	
traffic accident (public road)	3	1	1	2	4		2	2	1	2	1				1	3	3	1	2	1			1	31	traffic accident (public road)	
traffic accident (others)	3	2		1	2		1		1			1	2										1		14	traffic accident (others)
reaction to motion/improper motion																										reaction to motion/improper motion
others					1	1	1			1		1	4	4		1	2	2	2	2			1	2	25	others
unclassifiable							1			1			1						1						4	unclassifiable
total	12	5	4	4	16	5	10	5	4	8	5	6	22	9	8	6	7	8	8	7	2	4	7	172	total	

Causal agents (large) of fatal accidents in education/research service 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	1		1		1	1		1										1	8	machine	
crane, conveying machine	7	4	2	3	9	1	5	2	2	2	1	1	5		1	4	3	1	2	1	1	2	1		60	crane, conveying machine	
other equipment					2			1	1		1	2		2	3	1		1		1			1	2		18	other equipment

temporary buildings, establishments	2		2		1			1		2	1	1	3	1	3		1	3	3	1				25	temporary buildings, establishments
substance, material	1					1	1				1						1							5	substance, material
load																									load
environment	1	1		1	2	1	2	1		2			11	1	1			2		3	1		1	31	environment
others	1				1	1	1			2		1	3	4		1	2	1	3	1		1	2	25	others
total	12	5	4	4	16	5	10	5	4	8	5	6	22	9	8	6	7	8	8	7	2	4	7	172	total

Causal agents (middle) of fatal accidents in education/research service 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	engine	
power transmission mechanism																										power transmission mechanism
woodworking machine											1													1	woodworking machine	
construction machine					1	1	1		1			1												5	construction machine	
metal manufacturing machine																										metal manufacturing machine

general machine																								1	1	general machine
mobile silviculture machine																										mobile silviculture machine
crane																										crane
conveying machine		1	1				2			1			1			2	1					1	1		11	conveying machine
vehicle	7	3	1	3	9	1	3	2	2	1	1	1	4		1	2	2	1	2	1		1	1	49	vehicle	
pressure vessel																										pressure vessel
chemical facilities					1																				1	chemical facilities
welding equipment																										welding equipment
kiln, caldron																										kiln, caldron
electric equipment																										electric equipment
human power machine, tools																										human power machine, tools
tools					1			1	1		1	2		1	3	1		1		1		1	2	16	tools	
other equipments, facilities														1											1	other equipments, facilities
temporary buildings,	2		2		1			1		2	1	1	3	1	3		1	3	3	1				25	temporary buildings,	

natural ground, rock		1			1																				4	natural ground, rock
standing tree								1		1										1				1	4	standing tree
water	1				1	1	1			1															18	water
abnormal environment																										abnormal environment
high/cold temperature environment																										high/cold temperature environment
other environments				1			1											1		1	1				5	other environments
other causal agent	1				1	1																	1	1	5	other causal agent
no causal agent										1		1	2	4			1	2	1	2	1			1	16	no causal agent
unclassifiable							1			1			1							1					4	unclassifiable
total	12	5	4	4	16	5	10	5	4	8	5	6	22	9	8	6	7	8	8	7	2	4	7	172	total	

Workers age of fatal accidents in education/research service 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															1									1	19 years old or less
20-29	1	3	1	1	3	1		1	1	2		1	3				2		1				1	22	20-29
30-39	3			2	3	1	1	1	1		1	1	5	2				1		2	1			25	30-39
40-49	4		1	1	4		3			2	1		5	4			3	3		2			2	35	40-49
50-59	3	1			4	2	3	1	1			1	6	1	2	2	2	2	4	3	1		1	40	50-59
60 years old or more	1	1	2		2	1	3	2	1	4	3	3	3	2	5	4		2	3			4	3	49	60 years old or more

total	12	5	4	4	16	5	10	5	4	8	5	6	22	9	8	6	7	8	8	7	2	4	7	172	total
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Workers' number of workplace of fatal accidents in education/research service 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	1		2	1	2				1	1	6	3	1		3	1	1		1	1	2	29	9 workers or less
10-29	4	2	2	3	4		3	3	1	2	2	1	7	3	3	1	2	2	2	2			1	50	10-29
30-49	2				1	1				3	1		2	2		1			1				1	15	30-49
50-99					3	1	3		1	1	1		2		1			3		3		1	2	22	50-99
100-299	2	1		1	2	2	1	1	1	1		3	3		2	2		1		1	1			25	100-299
300 workers or more	3	1	1		4		1	1	1	1		1	2	1	1	2	2	1	4	1		2	1	31	300 workers or more
total	12	5	4	4	16	5	10	5	4	8	5	6	22	9	8	6	7	8	8	7	2	4	7	172	total

Month of fatal accidents in education/research service 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			1	1	2		4	2	1	2		1			1	1	18	January
February					2					1	1		1			1		2	1					9	February
March	4		1	1	1	1	2		2		1		14			2			2	1		1		33	March
April	1		1		2	1	1	1				1		1				1			1	1		12	April
May	1						1			1			1	1	1		2		1				1	10	May
June			1		1			1	1	1								2	2	1		1	1	12	June
July	2	1			2	1	1			1		1	3		1					2				15	July
August	1			1	2	1	1							1		1	1	3	1	1	1			15	August

September	1	1			4	1					1	1	2	2	1		1						1	16	September
October				1			1	1	1	1	1		1		2					1			1	11	October
November		2						1		1					1		1						1	7	November
December	2	1	1		2		2	1		1		1				1				1			1	14	December
total	12	5	4	4	16	5	10	5	4	8	5	6	22	9	8	6	7	8	8	7	2	4	7	172	total

Prefecture of fatal accidents in education/research service 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	2			2			1		1	1		1	2					1					1	12	Hokkaido	
Aomori																	1							1	Aomori	
Iwate						1						1	2		1	1									6	Iwate
Miyagi													6	1						1					8	Miyagi
Akita												1					1								2	Akita
Yamagata							1																		1	Yamagata
Fukushima			1		1													1							3	Fukushima
Ibaraki					1													1							2	Ibaraki
Tochigi			1		2								1		1					1			1		7	Tochigi
Gunma					1	1												1							3	Gunma
Saitama	1									2			1						1	1			1		7	Saitama
Chiba					1	1				1					1										4	Chiba
Tokyo	1	1		1	2		1		2	2	4		4	2		1	2		1		1	2	1		28	Tokyo
Kanagawa		1						2		1		1		2	1	1	1		1				1		12	Kanagawa
Niigata								1		1								1							3	Niigata

Toyama						1																1	Toyama	
Ishikawa				1									1										2	Ishikawa
Fukui																								Fukui
Yamanashi															1								1	Yamanashi
Nagano													1										1	Nagano
Gifu		1													1								2	Gifu
Shizuoka	2					1					1	1											5	Shizuoka
Aichi		1				1				1				1			1			1	1		7	Aichi
Mie										1		1				1	1						4	Mie
Shiga						1																	1	Shiga
Kyoto												1										1	2	Kyoto
Osaka			1		1		1									1		1					5	Osaka
Hyogo	1		1			1		1	1					1				1					7	Hyogo
Nara																		1					1	Nara
Wakayama																1							1	Wakayama
Tottori																								Tottori
Shimane														1									1	Shimane
Okayama														1									1	Okayama
Hiroshima		1										1		1									3	Hiroshima
Yamaguchi	1				1																		2	Yamaguchi
Tokushima								1						1									2	Tokushima
Kagawa	2											1							1				4	Kagawa
Ehime																						1	1	Ehime

Kochi					1																		1	Kochi	
Fukuoka	1					2														1			4	Fukuoka	
Saga	1																						1	Saga	
Nagasaki					1																		1	Nagasaki	
Kumamoto				1	2												1						4	Kumamoto	
Oita																								Oita	
Miyazaki					2							1				1							4	Miyazaki	
Kagoshima												1							1				2	Kagoshima	
Okinawa													1					1					2	Okinawa	
total	12	5	4	4	16	5	10	5	4	8	5	6	22	9	8	6	7	8	8	7	2	4	7	172	total

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

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