

Fatal and non-fatal accidents in education/research service in Japan in 1999-2022

education/research service industry Code No.12

Type of accidents in education/research service in 1999-2022

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	2022	total
fall from height	82	110	112	119	107	131	142	156	152	158	157	147	131	149	170	151	161	174	197	176	194	210	250	236	3,772
falling to same level	209	214	245	215	225	240	302	267	290	301	269	298	261	309	316	349	340	361	363	406	412	427	518	545	7,682
crash	27	35	24	36	32	49	36	38	39	43	52	51	46	64	46	36	39	54	48	46	69	65	88	57	1,120
struck by flying or falling object	36	23	25	26	30	23	29	31	24	23	21	25	38	33	24	18	18	16	22	27	26	22	25	32	617
collapse	6	6	4	7	7	4	6	11	10	16	6	6	12	3	5	5	5	8	8	8	10	6	8	8	175
crashed by	30	32	38	29	17	48	28	34	32	43	42	36	34	37	40	46	34	41	44	43	52	55	61	60	956
caught in/between	49	37	40	33	30	40	41	37	33	35	41	29	35	35	41	27	38	33	28	35	39	45	49	37	887
cut	59	55	70	67	55	73	74	69	99	62	73	63	56	49	52	44	46	61	67	53	57	61	49	54	1,468
injury to the sole of the foot		4	2	1	1	1		1	2	1	1	2	2	1	1		2	1	1	2	2	2	1	4	35
drown	2	1			2	1	1			1	1		9	1	1				2	1				2	25
contact to high/low-temperature	22	17	15	21	22	17	16	16	21	20	19	17	17	14	12	17	19	12	10	19	18	20	17	9	407

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	3	133
electric shock				1	1						1	1	1				1		1				1		8
explosion	1	3			5	5	3		2	3		1		1		1	5	2	1	2		1	1		37
burst	1	4	1	4	2	1	2		1	1	3	3				1	1	2	1	1	1		1		31
fire	3		1			1		2			1		2	1	1		1								13
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	44	916
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		7	83
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	293	3,987
others	13	16	18	8	12	30	58	21	34	18	18	23	22	25	19	17	37	19	30	32	29	141	320	46	1,006
unclassifiable	4	5	8	11	8	10	9	4	5	9	4	9	6	3	4	4	4	4	4	4	5	2	6	4	136
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	1,441	23,494

Causal agents (large) of fatal and non-fatal accidents in education/research service in 1999-2022

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	2022	total
machine	45	33	38	37	31	46	38	44	47	42	48	35	28	37	36	22	32	39	38	37	31	43	42	38	907
crane, conveying	107	121	107	114	89	97	114	101	129	108	82	88	88	96	96	86	82	82	90	79	104	77	100	116	2,353

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	265	4,306
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	523	7,938
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	19	698
load	19	17	25	16	25	17	16	28	29	33	28	26	28	17	15	15	26	17	27	30	44	20	28	31	577
environment	74	65	62	70	64	62	77	75	91	68	69	74	85	79	86	93	78	80	97	95	78	102	106	129	1,959
others	116	110	130	111	132	179	196	139	152	171	175	165	168	172	170	150	170	167	219	216	256	357	615	320	4,756
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	1,441	23,494

Causal agents (middle) of fatal and non-fatal accidents in education/research service in 1999-2022

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	2022	total
engine										1				1									1	1	4
power transmission mechanism	2	1	1			1		2	1	2	1	2	1	1	1			1	1	2		1			21
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	9	215
construction machine	2	1	1	2	2	4	5	1	3	2	3	1		2	5	2	4	2		3	1		3	3	52

other powered crane										1		1	1		1							1		5	
truck			7		2		10	12	5	10	6	5	8	7	7	7	5	7	11	8	11	10	10	9	157
forklift					2					2	3	1		1		1			1	2				2	15
railway equipment																1	1								2
conveyor			9		1		3	3	2		1	4		1	2		1	1	1		2	1	1	2	35
loader								2									1					1	1		5
straddle carrier																									
rough terrain hauler			1															1							2
other powered conveying machines			3				1	3	1	3	1	3	2	1	2	2			1	1	4	1	3	3	35
cars, bus, motorcycle			81		75		91	72	114	91	65	64	70	79	77	70	74	63	67	65	82	62	78	94	1,534
railway vehicle						1	1	1				2				1		1							7
other vehicles			5		8		4	8	5	2	2	8	6	4	5	4		5	6	3	5	2	2	4	88
boiler																		1					1		2
pressure vessel									1		2			2							1				6
other pressure vessels			1		1		1																		3
chemical facilities							2		1		1								1				2		7
gas welding equipment																	1								1

arc welding equipment																									
other welding equipment																									
kiln, caldron			2		2		3	2	3	1	2		2			1			1					19	
industrial dryer																									
other kiln, caldron															1							1		2	
transmission			2					2			1				4		2		2	3		2	1	19	
electric power facilities					1				1			1		1		1				1			1	8	
other electrical equipment			1						2				1		1	1			2	1	3	2		14	
human power cranes					1		2				1						1			1		4	2	12	
human power hauling equipment			16		10		11	12	18	20	10	12	6	20	19	29	13	24	29	21	25	22	22	19	358
human power machine							2	1			1			1			1	1	2		1	1		11	
hand tool			43		35		42	36	54	36	40	33	29	24	30	23	21	25	30	24	27	27	29	35	643
ladder			30		37		43	49	56	49	56	53	51	65	53	52	46	58	69	54	69	90	93	86	1,159
slinging tool												1							1					2	
other tools			28		29		38	36	44	45	45	35	35	41	44	40	45	42	41	50	65	55	65	76	899

other equipment, facilities			18		21		25	26	24	24	30	28	28	33	27	32	43	29	25	35	29	45	57	45	624
scaffolding			1			1	3	1	3	1	3		1	1	1	1	4	1	1	1	1		2	27	
timbering																									
stairs, landing stage			56		56		81	62	69	86	65	89	74	62	77	76	90	82	93	95	111	96	122	126	1,668
opening			5		1		2	2	3	7	4	5	1	1	6	2	5	5	4	2	4	2	4	5	70
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	2	78
working platform, boot board			27		26		27	38	32	34	34	31	34	40	37	34	37	43	38	33	37	37	49	47	715
passage			80		76		115	103	106	137	115	123	95	123	131	157	149	176	176	191	191	206	265	226	2,941
building, establishment			25		34		36	41	32	31	44	38	60	41	36	30	37	34	36	46	49	46	51	58	805
other temporary buildings, establishments			25		28		33	38	31	26	29	31	42	29	37	35	35	53	45	42	44	52	45	57	757
explosive substance					1		1		1	3		1		1			1	1	1				1		12
inflammable substance			3		1		1	2		1	1		3		1								2	1	16
inflammable gas			1		1		1									4			1						8
harmful substance			1		5		5	3	5	5	4	5	3	1	3	2	1	3	4	3	3	2	1	2	61
radiation																			3						3

other hazards, harmful substances			4		9		9	6	4	4	1		7	5	3	4	5	2	4	3	2	3	3	2	80
metal material			10		4		8	8	2	7	2	5	7	7	5	5	8	8	3	10	4	6	4	6	119
lumber, bamboo			4		2		3	8	2	8	1	3	4	5	4	3	4	5	3	5	3	1		3	71
stone, sand, substance			2		4		1	1	4	2	1	1	3		3	3	5	2	2		5	2	4		45
other materials			6		9		4	10	14	11	9	9	4	6	6	8	3	4	10	6	8	8	3	5	143
load			22		23		14	24	27	31	25	22	25	13	14	14	25	15	26	27	36	19	27	31	460
machine/equipment as load			3		2		2	4	2	2	3	4	3	4	1	1	1	2	1	3	8	1	1		48
natural ground, rock			33		23		17	25	26	16	21	23	22	20	16	23	16	13	18	8	10	20	18	23	391
standing tree			6		6		8	13	16	8	9	7	7	10	5	7	9	7	10	10	6	11	12	10	177
water			2		4		2	1	4	3	2		12	5	2	4			3	2	2	2	1	2	53
abnormal environment									1			1	1		1	1		1	1					1	8
high/cold temperature environment			2		4		2	1	8	6	2	3	6	3	1	3	7	6	5	13	5	10	7	3	97
other environments			19		27		48	35	36	35	35	40	37	41	61	55	46	53	60	62	55	59	68	90	962
other causal agent			54		43		89	66	68	63	47	60	57	50	63	53	76	50	69	76	84	171	351	84	1,674
no causal agent			67		77		91	69	74	90	116	98	93	111	103	92	90	114	141	136	169	182	263	233	2,409

unclassifiable			9		12		16	4	10	18	12	7	18	11	4	5	4	3	9	4	3	4	1	3	157
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	1,441	23,494

Workers age of fatal and non-fatal accidents in education/research service in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
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	8	112
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	139	3,102
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	157	3,683
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	270	4,798
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	389	6,081
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	478	5,718
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	1,441	23,494

Workers' number of workplace of fatal and non-fatal accidents in education/research service in 1999-2022

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	2022	total
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	190	3,933
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	339	5,827
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	276	3,938
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	241	3,345

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	186	2,956
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	209	3,495
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	1,441	23,494

Month of fatal and non-fatal accidents in education/research service in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	58	65	67	61	60	69	98	83	94	85	83	86	86	98	76	76	98	110	90	107	92	101	178	157	2,178
February	66	55	59	47	77	72	80	78	64	95	64	67	81	88	105	101	83	78	103	100	91	87	114	120	1,975
March	63	49	43	59	38	67	72	55	72	66	70	68	85	63	60	70	80	65	73	81	79	83	129	117	1,707
April	48	58	63	44	55	86	73	64	76	83	82	72	76	75	83	64	105	66	101	84	90	94	194	120	1,956
May	62	82	82	63	67	63	71	89	94	85	78	96	80	81	91	82	90	82	73	113	96	69	160	119	2,068
June	63	71	55	74	81	77	93	85	91	86	93	86	88	78	80	88	89	103	109	107	118	161	152	139	2,267
July	69	63	68	78	62	65	115	67	92	80	95	86	54	81	71	88	79	83	85	93	107	122	133	114	2,050
August	62	48	57	66	58	39	42	67	77	60	59	64	64	65	49	51	52	80	84	83	91	91	185	86	1,680
September	65	60	73	61	62	79	89	78	91	101	74	83	70	73	75	88	68	93	104	81	108	117	138	127	2,058
October	57	63	60	79	69	69	77	81	80	88	71	70	80	71	88	63	77	89	94	86	135	115	137	114	2,013
November	44	55	72	66	54	88	68	81	74	74	80	68	64	73	91	70	67	90	89	78	105	107	108	106	1,872
December	42	48	61	39	55	63	64	54	57	62	58	54	60	68	68	71	60	52	87	77	88	160	100	122	1,670
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	1,441	23,494

Prefecture of fatal and non-fatal accidents in education/research service in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido	31	30	24		23		58	50	67	38	49	43	38	40	42	37	41	54	66	52	77	61	75	64	1,060
Aomori	9	5	6		7		6	10	4	5	5	9	10	10	23	10	11	10	9	8	9	9	17	17	209
Iwate	11	10	9		11		13	6	11	5	7	15	18	12	19	25	12	13	15	16	13	19	10	12	282
Miyagi	18	18	20		9		9	18	17	12	16	21	26	35	29	17	19	10	17	29	23	35	54	43	495
Akita	12	5	3		8		6	6	8	8	11	6	3	5	9	5	11	8	4	13	12	17	23	14	197
Yamagata	6	6	3		12		12	12	9	4	8	6	12	7	14	4	12	9	12	13	13	7	17	7	205
Fukushima	13	16	8		10		17	14	13	9	18	11	10	12	18	15	11	10	9	16	16	16	28	26	316
Ibaraki	12	16	24		19		31	30	33	21	43	32	37	34	35	33	36	38	38	36	44	28	59	55	734
Tochigi	7	14	14		14		20	12	15	14	11	17	23	15	16	18	22	17	19	24	19	24	29	17	381
Gunma	22	21	12		16		21	13	19	11	17	25	16	9	18	13	16	21	29	20	28	31	35	25	438
Saitama	30	40	38		50		42	43	53	46	47	35	51	48	59	52	28	39	44	46	53	55	89	65	1,053
Chiba	26	23	35		33		42	61	47	54	31	50	36	32	36	40	42	37	41	46	54	76	87	81	1,010
Tokyo	69	59	95		67		82	59	90	93	80	94	104	92	90	88	83	115	114	109	99	117	136	114	2,049
Kanagawa	27	43	44		57		94	50	73	109	73	65	67	73	69	70	82	80	74	75	88	79	108	98	1,598
Niigata	10	6	13		11		26	28	15	17	18	14	16	12	22	22	17	10	20	18	29	29	52	37	442
Toyama	7	4	3		6		9	6	8	10	9	2	8	13	4	6	12	9	8	9	8	17	23	17	198
Ishikawa	15	4	7		8		14	6	10	5	9	19	8	16	14	11	7	12	15	17	13	18	32	34	294
Fukui	5	6	14		6		3	8	8	7	3	10	2	9	3	6	7	7	10	8	3	7	8	7	147
Yamanashi	2	3	4		6		3	4	2	1	4	3	2	6	9	9	9	8	3	3	6	4	16	16	123

Nagano	13	10	14		14		12	8	17	19	18	12	18	14	29	16	22	21	13	13	17	30	31	23	384
Gifu	13	12	12		4		16	15	7	7	11	12	13	14	11	13	21	18	12	12	19	16	29	22	309
Shizuoka	49	34	35		34		32	34	28	29	19	22	31	22	24	36	37	29	42	37	40	38	50	56	758
Aichi	28	33	24		28		43	41	30	44	50	35	37	38	35	48	43	48	50	43	53	70	77	64	962
Mie	13	6	7		5		10	17	10	21	18	12	19	17	14	21	12	16	24	36	23	29	35	23	388
Shiga	2	4	5		1		6	8	7	6	10	4	8	9	3	9	12	5	9	4	7	8	10	7	144
Kyoto	24	23	21		16		29	28	41	28	14	32	25	26	29	19	33	18	27	35	27	29	27	30	581
Osaka	62	75	53		61		70	57	70	79	58	74	40	47	48	58	71	82	74	78	84	84	140	109	1,574
Hyogo	23	19	19		28		43	42	49	60	41	36	42	44	29	23	37	26	38	37	47	47	72	36	838
Nara	1	5	8		10		6	6	9	8	9	6	3	10	5	11	6	8	9	8	10	7	16	7	168
Wakayama	5	12	3		8		9	5	7	6	11	7	7	6	2	3	4	8	7	6	9	6	11	15	157
Tottori	4	8	6		7		4	9	2	6	8	5	4	6	13	5	6	7	3	4	4	10	5	9	135
Shimane	7	4	4		3		8	13	9	4	10	5	8	4	5	11	4	4	12	8	11	14	9	5	162
Okayama	13	6	15		15		11	14	9	19	14	22	14	20	10	17	19	8	16	12	19	36	18	19	346
Hiroshima	15	25	21		16		21	20	22	24	24	19	22	29	17	21	14	25	25	29	44	32	32	33	530
Yamaguchi	9	7	3		8		3	9	10	11	10	8	10	15	11	14	9	14	11	11	8	9	20	11	221
Tokushima	5	9	4		8		6	4	5		10	4	4	9	1	2	2	6	9	11	8	7	13	10	137
Kagawa	5	7	8		5		8	4	7	11	8	5	8	5	6	7	6	12	9	17	13	16	10	11	188
Ehime	1	2	5		1		7	5	4	5	5	5	4	5	7	7	4	6	12	7	18	15	18	19	162
Kochi	3	4	4		6		8	6	8	4	10	9	4	7	8	6	1	6	5	13	8	12	15	7	154
Fukuoka	22	43	48		26		29	35	32	41	33	33	26	36	40	30	37	39	42	37	36	45	71	51	832

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	2022	total
fall from height	2		3		3	1	1	3	2	3	1	2		3	6	1	1	4	3	2		1	3		45
falling to same level											1		2											1	4
crash					2																				2
struck by flying or falling object							1						2							1		1	1	1	7
collapse					1								1												2
crashed by	1	1		1									1								1			1	6
caught in/between					1	1	1					2				1		1			1				8
cut											1														1
injury to the sole of the foot																									
drown	2	1			1	1	1			1			9	1	1					1				2	21
contact to high/low- temperature																									
contact to harmful substance							1				1			1											3
electric shock																									
explosion					1	1												1							3
burst																									
fire	1																								1
traffic accident (public	3	1	1	2	4		2	2	1	2	1				1	3	3	1	2	1			1		31

