

Fatal and non-fatal accidents in health and hygiene service in Japan in 1999-2021

health and hygiene service industry Code No.13

Type of accidents in health and hygiene service 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	308	307	361	370	448	443	451	486	516	519	576	531	659	674	668	687	772	854	829	910	983	1,110	1,172	14,634	fall from height
falling to same level	1,065	1,179	1,351	1,406	1,698	1,823	1,928	2,106	2,068	2,341	2,369	2,660	2,930	3,082	3,247	3,422	3,498	3,885	4,143	4,756	4,631	5,400	6,037	67,025	falling to same level
crash	131	165	204	209	248	253	279	276	321	364	336	382	357	464	472	492	497	555	541	592	688	808	829	9,463	crash
struck by flying or falling object	70	77	95	79	91	97	104	107	90	130	117	118	125	112	122	120	129	129	135	144	151	157	183	2,682	struck by flying or falling object
collapse	24	26	28	30	32	12	20	36	30	31	25	34	30	30	48	35	42	46	40	37	53	55	51	795	collapse
crashed by	128	118	155	162	170	200	205	224	241	253	224	281	236	292	306	327	341	368	422	451	443	493	510	6,550	crashed by
caught in/between	149	164	188	240	222	271	250	262	266	256	285	291	260	289	275	276	305	305	328	342	362	390	374	6,350	caught in/between
cut	235	245	279	299	317	364	300	318	308	304	287	314	242	359	333	290	315	278	314	303	327	313	373	7,017	cut
injury to the sole of the foot	3	4	5	1	2	8	6	6	3	4	6	5	2	7	11	1	5	8	6	4	2	9	7	115	injury to the sole of the foot
drown	3				1	1	3	1		1			126				5	2	1	2	1	2	1	150	drown
contact to high/low-temperature	102	92	92	107	101	130	110	136	123	115	114	121	132	144	124	114	114	129	150	146	155	180	164	2,895	contact to high/low-temperature
contact to harmful substance	23	28	30	25	23	29	26	45	20	30	28	34	33	31	20	30	28	18	22	38	25	17	22	625	contact to harmful substance

electric shock	2	3	1	2	1	1	4	2	4	4	4			1	5	2	2	2	1	3		1	2	47	electric shock
explosion		2	1	1	3	1	4	8	6	1	1	1		1	2	2			1	1	1	2	5	44	explosion
burst	1		1		1	2	1		2	2			1		1		2	1		1	2	2		20	burst
fire				7	3	1	2		3	3	4	3	2	1	3	1	1	2			1	1		38	fire
traffic accident (public road)	157	195	257	276	321	384	428	445	439	434	466	531	519	522	556	645	580	658	659	650	640	612	697	11,071	traffic accident (public road)
traffic accident (others)	3	7	6	4	5	2	5	9	5	4	2	5	6	3	9	6	5	14	5	1	6	13	12	137	traffic accident (others)
reaction to motion/improper motion	887	1,015	1,268	1,384	1,632	1,750	1,920	2,127	2,430	2,653	2,625	2,788	3,054	3,110	3,221	3,340	3,502	3,722	3,991	4,211	4,412	5,393	5,846	66,281	reaction to motion/improper motion
others	184	214	199	260	255	277	294	401	405	397	389	379	448	429	449	436	488	455	426	525	585	5,260	12,793	25,948	others
unclassifiable	56	56	64	49	54	62	64	66	62	84	63	53	69	84	92	116	77	82	92	91	91	68	75	1,670	unclassifiable
total	3,531	3,897	4,585	4,911	5,628	6,111	6,404	7,061	7,342	7,930	7,921	8,531	9,231	9,635	9,964	10,342	10,708	11,513	12,106	13,208	13,559	20,286	29,153	223,557	total

Causal agents (large) of fatal and non-fatal accidents in health and hygiene 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	94	106	108	110	101	126	104	117	97	110	100	114	94	116	115	96	103	107	114	98	120	114	127	2,491	machine
crane, conveying machine	234	280	385	424	437	539	586	599	613	628	638	708	683	711	745	816	788	816	854	849	859	816	904	14,912	crane, conveying machine
other equipment	546	581	695	803	843	949	955	1,084	1,097	1,204	1,216	1,380	1,297	1,520	1,512	1,522	1,681	1,802	1,866	1,973	2,218	2,460	2,623	31,827	other equipment
temporary buildings, establishments	1,124	1,232	1,428	1,463	1,787	1,831	1,959	2,110	2,129	2,281	2,337	2,489	2,828	2,888	3,034	3,196	3,313	3,754	3,786	4,334	4,375	5,123	5,487	64,288	temporary buildings, establishments

																									establishments
substance, material	78	97	96	114	112	137	114	134	154	107	119	105	111	131	132	115	117	118	135	142	125	141	139	2,773	substance, material
load	84	98	140	124	132	136	146	183	211	161	161	153	167	165	152	138	144	168	185	211	191	274	269	3,793	load
environment	199	205	288	252	345	369	383	388	417	375	360	459	669	521	572	718	594	587	674	723	614	787	822	11,321	environment
others	1,172	1,298	1,445	1,621	1,871	2,024	2,157	2,446	2,624	3,064	2,990	3,123	3,382	3,583	3,702	3,741	3,968	4,161	4,492	4,878	5,057	10,571	18,782	92,152	others
total	3,531	3,897	4,585	4,911	5,628	6,111	6,404	7,061	7,342	7,930	7,921	8,531	9,231	9,635	9,964	10,342	10,708	11,513	12,106	13,208	13,559	20,286	29,153	223,557	total

Causal agents (middle) of fatal and non-fatal accidents in health and hygiene 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						2	2	1							1	1		9	engine
power transmission mechanism		4		2	1	1	1	3		1	1	1	1			1	3	1	2	1	2	3		29	power transmission mechanism
woodworking machine	13	13	9	10	13	15	15	13	9	13	14	12	12	12	17	10	13	12	9	12	24	10	23	303	woodworking machine
construction machine		2	5	2		1	2	11	2				8	2	3	3		2	1	4	3	2	1	54	construction machine
metal manufacturing machine	6	4	4	2	3	5	2	1	2	5	6	1	1	2	1	2	3	4	4	1	4	3	3	69	metal manufacturing machine
general machine	75	83	90	94	83	103	84	89	84	91	79	98	70	99	94	80	84	88	98	80	86	94	100	2,026	general machine
mobile silviculture machine																						1		1	mobile silviculture machine

natural environment	199	205	288	252	345	369	383	388	417	375	360	459	669	521	572	718	594	587	674	723	614	787	822	11,321	environment
other causal agent	596	667	708	767	819	1,024	1,014	1,199	1,191	1,446	1,211	1,336	1,485	1,515	1,475	1,443	1,557	1,619	1,694	1,589	1,857	6,556	14,171	46,939	other causal agent
no causal agent	472	540	600	750	954	900	1,034	1,100	1,265	1,446	1,653	1,663	1,768	1,911	2,076	2,163	2,311	2,456	2,696	3,170	3,125	3,948	4,530	42,531	no causal agent
unclassifiable	104	91	137	104	98	100	109	147	168	172	126	124	129	157	151	135	100	86	102	119	75	67	81	2,682	unclassifiable
total	3,531	3,897	4,585	4,911	5,628	6,111	6,404	7,061	7,342	7,930	7,921	8,531	9,231	9,635	9,964	10,342	10,708	11,513	12,106	13,208	13,559	20,286	29,153	223,557	total

Causal agents (small) of fatal and non-fatal accidents in health and hygiene service 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							2	2	1							1	1		8	engine	
power transmission mechanism					1		1	3		1	1	1	1			1	3	1	2	1	2	3		22	power transmission mechanism	
circular sawing machine			4		10		11	8	4	4	9	9	7	6	9	7	8	4	5	5	13	5	15	143	circular sawing machine	
band sawing machine							1									1						2		1	5	band sawing machine
wood planer machine			3					1	1	4	1				2	2		1	1		1	1		18	wood planer machine	
hollow chisel mortiser, wood borer			1																					1	1	hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																			1						1	chamfering machine, router, woodworking milling machine

chain saw			1		1		1	2	4	3	2	2	2	1	3		1	3	2	5	5	1	3	42	chain saw	
other woodworking machines					2		2	2		2	2	1	3	3	3	2	3	3	2	1	3	4	4	42	other woodworking machines	
leveling, transporting or loading machine			1					11	1				1	1		1		1	1	2	1			21	leveling, transporting or loading machine	
excavating machine							1		1				1		1	1				1	1			7	excavating machine	
foundation work machine															1									1	foundation work machine	
hardening machine																										hardening machine
demolition machine															1					1				2	demolition machine	
vehicle for high lift work			1										1									1		3	vehicle for high lift work	
other construction machines			3				1						5	1	1			1				1	1	1	15	other construction machines
lathe																			1					1	lathe	
drill press, milling machine																										drill press, milling machine
grinding machine, buffing machine					2		2		2	1	1			1		1	4	2	1			1	2	20	grinding machine, buffing machine	
power press					1					1				1	1	1								5	power press	
forging pressure hammer																						1		1	1	forging pressure hammer
shearing machine																					1			1	1	shearing machine
other metal manufacturing machines			4					1		3	5	1	1	1		1	1		1			2	2	1	24	other metal manufacturing machines

lumberyard equipment, logging cableway			1																					1	lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane				4		1	2	1	2	1		3	2		1	1	2	1	1	2	1	1	26	other powered crane	
truck			9		28		23	20	22	29	29	21	21	31	24	34	33	39	41	42	36	42	36	560	truck
forklift			1		1		2			1			2	2	1	3	2	2	2	4	3	3	3	32	forklift
railway equipment								1																1	railway equipment
conveyor			3		1		5	3	4	1	3	2	1	3	2	2	2		3	2	5	1	2	45	conveyor
loader												1	1					1						3	loader
straddle carrier																									straddle carrier
rough terrain hauler																									rough terrain hauler
other powered conveying machines			8		7		11	13	8	8	7	10	5	9	12	3	5	10	10	6	10	14	7	163	other powered conveying machines
cars, bus, motorcycle			329		369		500	519	531	544	551	626	590	619	668	731	685	728	761	763	769	716	812	11,811	cars, bus, motorcycle
railway vehicle			1					1		1		2		1		2							4	12	railway vehicle
other vehicles			25		23		36	29	35	31	31	39	44	36	25	33	44	27	24	22	22	24	26	576	other vehicles
boiler					1		1	1		1			1	1	1		1		1		1			10	boiler
pressure vessel			2		1		1	1	1	2		1	1	1	1	3	1	2		1	2			21	pressure vessel
other pressure vessels			1		2		4	2	2	3	5	2	3	5	1	3	5	3	3		3	3	2	52	other pressure vessels
chemical facilities					1							1												2	chemical facilities
gas welding equipment																					1			1	gas welding equipment

stairs, landing stage			280		345		361	400	408	412	441	427	514	555	550	566	634	708	668	704	784	914	955	10,626	stairs, landing stage
opening			7		7		8	8	6	5	9	9	11	7	8	10	12	13	7	12	16	21	18	194	opening
roof, beam, haze, crossbeam, principal rafter			3		10		9	6	7	4	8	10	8	12	8	11	9	9	11	13	5	8	6	157	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			183		254		202	253	276	333	284	332	361	322	373	427	409	410	488	514	463	506	481	6,871	working platform, boot board
passage			625		776		951	966	953	1,079	1,119	1,187	1,388	1,403	1,468	1,594	1,598	1,968	1,936	2,370	2,320	2,795	3,122	29,618	passage
building, establishment			168		213		223	269	265	254	269	318	312	330	352	298	341	305	346	394	368	405	442	5,872	building, establishment
other temporary buildings, establishments			161		178		201	205	208	193	205	202	231	252	273	286	301	335	326	321	416	470	456	5,220	other temporary buildings, establishments
explosive substance										1			1	2	4			1				2		11	explosive substance
inflammable substance					1		1	2	2	3	1	2	1	3	2	1	1	1	2	3	2	1	6	35	inflammable substance
inflammable gas			2		2		2	4	7	4	1	2	1		2	2	1	2		1	1	4		38	inflammable gas
harmful substance			17		6		7	16	5	8	10	9	4	8	6	7	7	6	9	9	8	1	6	149	harmful substance
radiation										1	1			1		1								4	radiation
other hazards, harmful substances			13		25		17	21	19	23	27	12	24	15	23	16	23	22	28	23	16	20	17	384	other hazards, harmful substances
metal material			16		20		14	21	22	19	21	14	18	17	14	15	17	23	24	22	26	22	25	370	metal material
lumber, bamboo			7		12		11	7	11	4	6	7	13	11	10	15	10	11	11	19	14	14	21	214	lumber, bamboo
stone, sand, substance			8		7		8	2	9	7	6	6	3	9	10	6	6	3	11	14	7	13	14	149	stone, sand, substance
other materials			33		39		54	61	79	37	46	53	46	65	61	52	52	49	50	51	51	64	50	993	other materials
load			129		122		140	176	194	150	150	140	154	157	143	130	135	157	180	203	176	265	258	3,159	load

machine/equipment as load			11		10		6	7	17	11	11	13	13	8	9	8	9	11	5	8	15	9	11	192	machine/equipment as load
natural ground, rock			17		20		26	18	24	16	12	11	21	18	19	22	31	27	25	24	30	29	36	426	natural ground, rock
standing tree			4		9		10	9	9	6	13	10	10	12	13	10	13	13	16	12	17	22	20	228	standing tree
water			12		12		20	8	11	15	12	11	187	16	12	14	16	19	17	27	19	29	19	476	water
abnormal environment			4		3		2			2		4	2	3	3				2	8		2		35	abnormal environment
high/cold temperature environment			16		15		9	18	9	16	15	19	29	33	29	20	18	16	26	40	28	35	33	424	high/cold temperature environment
other environments			235		286		316	335	364	320	308	404	420	439	496	652	516	512	588	612	520	670	714	8,707	other environments
other causal agent			708		819		1,014	1,199	1,191	1,446	1,211	1,336	1,485	1,515	1,475	1,443	1,557	1,619	1,694	1,589	1,857	6,556	14,171	43,885	other causal agent
no causal agent			600		954		1,034	1,100	1,265	1,446	1,653	1,663	1,768	1,911	2,076	2,163	2,311	2,456	2,696	3,170	3,125	3,948	4,530	39,869	no causal agent
unclassifiable			137		98		109	147	168	172	126	124	129	157	151	135	100	86	102	119	75	67	81	2,283	unclassifiable
total			4,585		5,628		6,404	7,061	7,342	7,930	7,921	8,531	9,231	9,635	9,964	10,342	10,708	11,513	12,106	13,208	13,559	20,286	29,153	205,107	total

Workers age of fatal and non-fatal accidents in health and hygiene 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	31	40	37	38	42	58	65	44	55	50	47	58	62	79	68	69	59	64	64	63	54	64	127	1,338	19 years old or less	
20-29	824	891	1,000	1,052	1,141	1,182	1,144	1,235	1,202	1,241	1,127	1,110	1,152	1,170	1,155	1,072	1,108	1,053	1,134	1,171	1,159	2,580	4,279	30,182	20-29	
30-39	561	642	751	814	977	984	1,114	1,228	1,272	1,388	1,347	1,504	1,477	1,594	1,584	1,622	1,548	1,541	1,565	1,636	1,665	2,849	4,418	34,081	30-39	
40-49	767	858	1,007	1,081	1,222	1,387	1,457	1,530	1,611	1,671	1,648	1,789	1,989	2,060	2,046	2,239	2,222	2,393	2,464	2,592	2,576	4,043	5,986	46,638	40-49	
50-59	964	1,082	1,303	1,451	1,590	1,795	1,870	2,155	2,267	2,401	2,361	2,509	2,697	2,745	2,940	3,015	3,105	3,421	3,519	3,816	3,849	5,332	7,176	63,363	50-59	
60 years old or																										60 years old or

more	384	384	487	475	656	705	754	869	935	1,179	1,391	1,561	1,854	1,987	2,171	2,325	2,666	3,041	3,360	3,930	4,256	5,418	7,167	47,955	more
total	3,531	3,897	4,585	4,911	5,628	6,111	6,404	7,061	7,342	7,930	7,921	8,531	9,231	9,635	9,964	10,342	10,708	11,513	12,106	13,208	13,559	20,286	29,153	223,557	total

Workers' number of workplace of fatal and non-fatal accidents in health and hygiene 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	289	332	375	373	434	402	468	527	545	634	610	653	700	736	717	826	865	907	1,025	1,051	1,115	1,381	1,926	16,891	9 workers or less
10-29	504	558	660	694	853	976	1,064	1,211	1,259	1,353	1,476	1,621	1,768	1,847	2,096	2,156	2,356	2,595	2,807	3,028	3,216	4,340	6,254	44,692	10-29
30-49	406	473	508	585	697	749	761	892	990	1,025	1,102	1,211	1,396	1,446	1,503	1,655	1,616	1,819	1,957	2,216	2,178	2,958	4,298	32,441	30-49
50-99	662	744	936	1,043	1,165	1,336	1,345	1,508	1,548	1,740	1,646	1,803	1,859	2,039	2,019	2,016	2,200	2,273	2,320	2,551	2,717	3,644	4,900	44,014	50-99
100-299	1,126	1,215	1,426	1,541	1,659	1,795	1,836	1,980	2,087	2,159	2,190	2,304	2,377	2,416	2,560	2,593	2,507	2,690	2,725	2,856	2,973	4,176	6,354	55,545	100-299
300 workers or more	544	575	680	675	820	853	930	943	913	1,019	897	939	1,131	1,151	1,069	1,096	1,164	1,229	1,272	1,506	1,360	3,787	5,421	29,974	300 workers or more
total	3,531	3,897	4,585	4,911	5,628	6,111	6,404	7,061	7,342	7,930	7,921	8,531	9,231	9,635	9,964	10,342	10,708	11,513	12,106	13,208	13,559	20,286	29,153	223,557	total

Month of fatal and non-fatal accidents in health and hygiene 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	285	331	426	407	472	529	577	654	589	660	707	768	824	896	947	877	905	1,094	1,110	1,309	1,134	1,203	5,148	21,852	January
February	304	330	338	363	428	486	510	580	600	753	624	767	762	881	816	957	868	971	1,065	1,084	1,076	1,135	3,102	18,800	February
March	285	336	321	402	458	529	512	568	598	596	626	725	884	788	803	818	843	893	998	1,003	1,058	1,345	2,245	17,634	March
April	290	293	346	376	424	482	517	503	583	581	631	699	692	762	843	825	908	913	949	1,041	1,097	1,883	3,111	18,749	April
May	295	301	428	439	511	511	535	633	652	678	696	694	750	819	778	880	890	963	980	1,133	1,119	1,547	2,870	19,102	May
June	320	353	425	445	501	577	558	616	666	790	784	745	801	776	880	918	928	1,016	1,013	1,140	1,205	1,577	1,738	18,772	June
July	338	338	393	442	515	552	555	661	682	735	782	760	752	871	877	970	1,047	1,034	1,078	1,223	1,304	1,711	1,848	19,468	July
August	336	347	392	432	490	509	545	605	683	659	683	733	853	877	875	896	904	1,014	1,032	1,136	1,257	1,824	2,891	19,973	August

September	290	319	406	414	454	520	497	572	619	683	650	664	787	792	782	833	886	908	961	1,116	1,098	1,624	1,868	17,743	September
October	280	334	431	418	515	504	538	618	616	680	622	690	737	795	868	811	877	943	1,060	1,135	1,197	1,566	1,566	17,801	October
November	261	294	319	408	417	442	567	509	532	558	589	661	713	703	702	787	849	923	933	1,007	1,061	1,938	1,369	16,542	November
December	247	321	360	365	443	470	493	542	522	557	527	625	676	675	793	770	803	841	927	881	953	2,933	1,397	17,121	December
total	3,531	3,897	4,585	4,911	5,628	6,111	6,404	7,061	7,342	7,930	7,921	8,531	9,231	9,635	9,964	10,342	10,708	11,513	12,106	13,208	13,559	20,286	29,153	223,557	total

Prefecture of fatal and non-fatal accidents in health and hygiene 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	240	232	238		277		319	361	392	376	389	403	457	438	467	520	548	566	597	616	640	1,470	1,558	11,104	Hokkaido
Aomori	56	56	69		55		80	83	73	89	85	98	132	133	112	120	105	148	150	166	155	167	334	2,466	Aomori
Iwate	35	36	54		61		77	76	51	97	76	97	125	89	119	115	96	110	114	115	145	172	188	2,048	Iwate
Miyagi	49	55	83		107		122	151	159	155	135	177	322	186	214	223	189	213	229	261	242	306	470	4,048	Miyagi
Akita	32	56	42		73		64	74	61	68	87	93	100	95	96	110	101	117	120	127	126	144	214	2,000	Akita
Yamagata	39	38	34		51		61	67	92	74	86	78	97	120	103	132	121	118	129	152	125	178	216	2,111	Yamagata
Fukushima	47	46	70		82		75	94	103	100	100	113	113	119	132	150	144	151	147	185	161	240	385	2,757	Fukushima
Ibaraki	59	51	57		75		98	110	104	127	115	119	154	163	163	169	185	197	185	254	232	361	491	3,469	Ibaraki
Tochigi	25	44	47		65		56	84	79	97	100	87	71	95	92	108	133	134	127	140	146	211	339	2,280	Tochigi
Gunma	46	51	70		77		79	106	106	130	117	133	141	149	140	145	165	180	210	232	240	323	421	3,261	Gunma
Saitama	100	114	134		165		223	261	277	304	304	351	328	362	397	412	426	488	500	567	561	944	1,520	8,738	Saitama
Chiba	92	100	141		211		230	281	242	358	341	389	365	447	427	427	438	441	507	535	608	905	1,411	8,896	Chiba
Tokyo	256	283	353		479		579	585	632	673	706	726	747	826	820	842	894	1,007	1,001	1,110	1,194	2,032	3,436	19,181	Tokyo
Kanagawa	207	220	277		321		395	446	464	481	545	589	636	633	702	691	713	791	792	801	909	1,441	1,929	13,983	Kanagawa
Niigata	47	70	89		119		135	138	165	143	151	160	197	196	197	221	221	214	235	276	246	319	400	3,939	Niigata
Toyama	21	23	34		50		44	63	48	59	71	67	84	73	84	94	77	91	95	108	90	146	129	1,551	Toyama
Ishikawa	33	40	53		54		55	53	72	68	67	70	79	88	100	78	88	97	102	118	108	147	213	1,783	Ishikawa

Fukui	19	31	39		35		48	58	51	50	53	54	82	74	46	75	68	95	81	127	101	91	141	1,419	Fukui
Yamanashi	19	31	26		44		41	46	52	56	56	50	64	65	73	68	78	72	75	87	93	119	113	1,328	Yamanashi
Nagano	46	73	90		97		133	123	131	147	152	154	177	184	202	221	170	187	192	231	202	243	374	3,529	Nagano
Gifu	32	35	51		43		63	84	64	88	84	94	99	116	122	111	110	136	132	167	174	240	415	2,460	Gifu
Shizuoka	75	74	112		134		184	212	180	204	219	229	236	239	270	294	283	316	337	367	376	436	600	5,377	Shizuoka
Aichi	139	153	147		203		222	252	255	254	272	286	311	335	387	413	425	463	472	561	542	847	1,190	8,129	Aichi
Mie	67	80	72		93		93	94	134	124	164	140	157	177	142	161	176	170	200	199	212	301	405	3,361	Mie
Shiga	21	27	39		50		68	93	80	125	94	82	116	129	124	117	106	117	99	128	126	224	213	2,178	Shiga
Kyoto	122	123	158		180		227	252	211	219	258	219	251	277	320	243	294	276	272	288	317	459	650	5,616	Kyoto
Osaka	277	313	400		483		530	566	574	671	604	732	689	761	762	731	791	880	944	986	1,016	1,470	2,870	17,050	Osaka
Hyogo	131	149	192		240		273	281	298	353	313	346	394	402	412	423	475	471	502	510	608	1,036	1,385	9,194	Hyogo
Nara	39	36	38		61		77	75	90	99	84	98	115	119	99	126	119	136	123	158	178	226	340	2,436	Nara
Wakayama	22	44	41		58		73	73	96	94	94	116	128	117	117	114	120	105	143	139	140	159	239	2,232	Wakayama
Tottori	19	15	15		20		27	36	39	40	25	30	45	43	30	46	46	45	58	59	47	88	87	860	Tottori
Shimane	41	47	52		60		47	75	68	62	76	71	81	89	85	91	89	113	111	105	94	114	143	1,714	Shimane
Okayama	42	58	61		100		87	100	110	113	128	145	143	167	137	162	174	187	216	234	230	336	422	3,352	Okayama
Hiroshima	101	109	130		145		187	185	208	222	201	242	262	250	274	293	322	302	343	354	349	462	558	5,499	Hiroshima
Yamaguchi	62	64	76		86		85	83	98	106	101	79	103	123	127	108	143	155	155	157	164	204	336	2,615	Yamaguchi
Tokushima	34	28	29		38		43	43	48	58	59	74	56	71	71	71	83	85	87	109	96	140	191	1,514	Tokushima
Kagawa	39	44	43		57		51	64	61	65	54	59	62	62	80	80	95	80	85	99	104	176	184	1,644	Kagawa
Ehime	46	46	44		56		76	85	105	95	110	106	116	128	138	138	124	152	146	149	154	218	264	2,496	Ehime
Kochi	73	77	80		95		86	97	95	71	99	110	105	113	94	107	91	106	84	123	115	156	153	2,130	Kochi
Fukuoka	262	284	301		297		364	358	400	404	404	409	436	461	484	532	624	609	706	709	731	1,102	1,583	11,460	Fukuoka
Saga	33	47	59		54		63	61	62	62	80	90	78	88	108	112	113	109	130	162	139	167	265	2,082	Saga
Nagasaki	74	53	52		101		126	135	117	189	146	119	159	168	173	173	179	218	213	241	259	296	438	3,629	Nagasaki
Kumamoto	96	119	128		126		109	136	161	132	142	196	180	169	178	190	203	180	212	252	282	372	440	4,003	Kumamoto

Oita	48	68	65		85		71	84	96	87	66	88	93	100	98	125	112	122	147	144	139	184	284	2,306	Oita
Miyazaki	56	51	66		86		74	73	98	94	103	100	93	109	152	128	111	139	149	148	189	239	304	2,562	Miyazaki
Kagoshima	89	80	92		129		122	140	166	160	131	171	159	199	172	200	218	290	281	282	288	368	490	4,227	Kagoshima
Okinawa	23	23	42		50		62	64	74	87	74	92	93	88	122	132	122	134	171	170	166	307	422	2,518	Okinawa
total	3,531	3,897	4,585		5,628		6,404	7,061	7,342	7,930	7,921	8,531	9,231	9,635	9,964	10,342	10,708	11,513	12,106	13,208	13,559	20,286	29,153	212,535	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)

Return to https://www.jisha.or.jp/english/statistics/2021e_industry.html

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Fatal accidents in health and hygiene service in Japan in 1999-2021

health and hygiene service industry Code No.13

Type of fatal accidents in health and hygiene service 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	2	2	1	2	7	1		3	4	2	1	1	1	2	3	2		1	2	4	2	2	1	46	fall from height
falling to same level						1						1	1	1		1	1			1				7	falling to same level
crash											2													2	crash
struck by flying or falling object					1																			1	struck by flying or falling object
collapse	1												1	1										3	collapse
crashed by						1					1		2			1	1	1			1	2		10	crashed by

temporary buildings, establishments	1	1		2	2	1	1	3	3	1	1	2	1	1	1					3	1	1	1	27	temporary buildings, establishments
substance, material			1						3							2							5	11	substance, material
load								1								1								2	load
environment	2		1							1		2	176	1			2	2	1	3	1	3		195	environment
others	1			3	4			2	4	2	3	1	1	1	2	2	3	3	1	1	4	4	28	70	others
total	7	5	8	9	15	10	9	12	15	10	13	8	188	11	13	13	8	13	6	13	11	11	39	447	total

Causal agents (middle) of fatal accidents in health and hygiene 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																									woodworking machine
construction machine									1				2							1				4	construction machine
metal manufacturing machine																									metal manufacturing machine
general machine											1					1	1							3	general machine
mobile silviculture machine																									mobile silviculture machine
crane										1											1			2	crane
conveying machine		2			1	2	2	1	2	1		2	1	1		1	1	3		1			1	22	conveying machine
vehicle	3	1	6	3	4	7	5	4	2	3	8	1	4	6	8	4	1	5	2	2	5	3	4	91	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			3			1				1	1	2	1			2	1					13	tools	
other equipments, facilities				1	1							1			1									4	other equipments, facilities	
temporary buildings, establishments	1	1		2	2	1	1	3	3	1	1	2	1	1	1						3	1	1	1	27	temporary buildings, establishments
hazards, harmful substances			1															2						5	11	hazards, harmful substances
materials																										materials
load								1									1								2	load
natural environment	2		1							1		2	176	1			2	2	1	3	1	3		195	natural environment	
other causal agent	1			1	4				1		1				1	1					1	3	27	41	other causal agent	
no causal agent				2				2	3	2	2	1	1		1	1	3	3	1	1	3	1	1	28	no causal agent	
unclassifiable														1											1	unclassifiable
total	7	5	8	9	15	10	9	12	15	10	13	8	188	11	13	13	8	13	6	13	11	11	39	447	total	

Causal agents (small) of fatal accidents in health and hygiene service 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	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																						1	excavating machine	
foundation work machine																							foundation work machine	
hardening machine																							hardening machine	
demolition machine																							1	demolition machine
vehicle for high lift work																							1	vehicle for high lift work
other construction machines																							1	other construction machines
lathe																							lathe	
drill press, milling machine																							drill press, milling machine	

other mobile silviculture machine																									other mobile silviculture machine	
crane																									crane	
mobile crane																		1							1	mobile crane
derrick crane																									derrick crane	
elevator, lift									1															1	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																									other powered crane	
truck		2			1	2	2	1	1	1		1	1	1		1	1	3		1			1	20	truck	
forklift																									forklift	
railway equipment																									railway equipment	
conveyor									1															1	conveyor	
loader																									loader	
straddle carrier																									straddle carrier	
rough terrain hauler																									rough terrain hauler	
other powered conveying machines														1										1	other powered conveying machines	
cars, bus, motorcycle	2	1	6	3	4	6	5	4	2	3	7	1	4	5	8	3		5	2	2	5	3	4	85	cars, bus, motorcycle	

railway vehicle						1					1												2	railway vehicle
other vehicles	1												1		1	1							4	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	human power hauling equipment
human power machine																								human power machine

radiation																								radiation						
other hazards, harmful substances																								other hazards, harmful substances						
metal material																								metal material						
lumber, bamboo																								lumber, bamboo						
stone, sand, substance																								stone, sand, substance						
other materials																								other materials						
load									1														1	load						
machine/equipment as load																1							1	machine/equipment as load						
natural ground, rock	1		1																			1	4	natural ground, rock						
standing tree																						1	2	standing tree						
water	1									1					175									184	water					
abnormal environment																							1	1	abnormal environment					
high/cold temperature environment																								2	high/cold temperature environment					
other environments																							1	2	other environments					
other causal agent	1			1	4					1		1											1	3	27	41	other causal agent			
no causal agent				2						2	3	2	2	1	1									1	1	3	1	1	28	no causal agent
unclassifiable																										1	unclassifiable			
total	7	5	8	9	15	10	9	12	15	10	13	8	188	11	13	13	8	13	6	13	11	11	39	447	total					

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
19 years old or less													2											2	19 years old or less
20-29	1		3	2	1	2	1	1	3		1		25				1	2	2			1	5	51	20-29
30-39		1		3	4	1	2	1	2	1	3		24	2	2	4		1				2	2	55	30-39
40-49	2	2	2		4		1	5	5	1	2	3	42	2	2	3	4	2	1	1	3		1	88	40-49
50-59	2	1	1	3	3	6	3	2	3	4	2	2	66	3	2	2	1	2	1	6	4	1	7	127	50-59
60 years old or more	2	1	2	1	3	1	2	3	2	4	5	3	29	4	7	4	2	6	2	6	4	7	24	124	60 years old or more
total	7	5	8	9	15	10	9	12	15	10	13	8	188	11	13	13	8	13	6	13	11	11	39	447	total

Workers' number of workplace of fatal accidents in health and hygiene 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	2	1	5	1	4	3	2	1	28	1		3	1	3		3	2		3	65	9 workers or less
10-29	3	1	3	3	2	4	2	5	1	2	2	2	54	2	4	4	1	4	5	5		4	18	131	10-29
30-49		1		2	1	1		2	2		1	2	42	3	3	2		2		4	4	1	8	81	30-49
50-99	3		2					2	4	2	5	1	46	2	3	1	3	1	1		1	2	2	81	50-99
100-299		1	1	2	5	3	1	1	1	2	3	2	12	2	2	3	3	1		1	4	1	7	58	100-299
300 workers or more	1	1	2	1	5	1	1	1	3	1			6	1	1			2				3	1	31	300 workers or more
total	7	5	8	9	15	10	9	12	15	10	13	8	188	11	13	13	8	13	6	13	11	11	39	447	total

Month of fatal accidents in health and hygiene 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	2	2			2	1		3	2		2	2		2			2	1	1	8	33	January
February					3	1	2	2	1	2	3	1		1	1	3		1		2	3		2	28	February

March		1	1	1		2	1		1	1		1	176	1		1		1	1	1		3	4	197	March
April					2			2		1			1	2	1		1	2		1		1	8	22	April
May			1	1	2				1	3	1		1	1	1	2		1	2				3	20	May
June	4		2			2		1	4				1		1	3		1	1	1		1	2	24	June
July	1	1	1	1	3				3	1	1	1		1	1			2		4	3	1	3	28	July
August		1						2		1	1	1	3		2	1		2	2		1	2	2	21	August
September		1		1		1	2	2	1		1		3		1	2	2	1		1				19	September
October			1	2					1		1	2		1	1	1	1	2			2	1	1	17	October
November					2	2	4	1	1	1	1		2		1		1				1	1	1	19	November
December	1		1	1	1	2			1		1		1	2	1		1			1			5	19	December
total	7	5	8	9	15	10	9	12	15	10	13	8	188	11	13	13	8	13	6	13	11	11	39	447	total

Prefecture of fatal accidents in health and hygiene 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		1	1	1		1	1		1	1	1	1	2	1	2	3		2	3	1			1	24	Hokkaido	
Aomori					1								1					1						3	Aomori	
Iwate							1						52	1	1					1				56	Iwate	
Miyagi					1	1	1						120				1						1	125	Miyagi	
Akita																										Akita
Yamagata									1															1	Yamagata	
Fukushima		1					1			1			4	1								1		9	Fukushima	
Ibaraki	1					1							1										1	4	Ibaraki	
Tochigi			1												1		1					1		4	Tochigi	
Gunma											1		1				1				1	1		5	Gunma	
Saitama		1			1		1	1		1					1		1						1	8	Saitama	

Ehime					1																	1	Ehime		
Kochi						1							1							1		3	Kochi		
Fukuoka	1		1							2				2							1	7	Fukuoka		
Saga						1				1											1	3	Saga		
Nagasaki					1					1										1	1	4	Nagasaki		
Kumamoto					1					1	1		1									2	6	Kumamoto	
Oita									1				2							1		4	Oita		
Miyazaki																			1		1		2	Miyazaki	
Kagoshima		1	1							1													3	Kagoshima	
Okinawa																						1	1	Okinawa	
total	7	5	8	9	15	10	9	12	15	10	13	8	188	11	13	13	8	13	6	13	11	11	39	447	total

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

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