

## Industrial accidents in commercial cleaning and livestock process in Japan in 1999-2020

commercial cleaning and livestock process industry Code No.15

Type of accidents in commercial cleaning and livestock process in 1999-2020

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
fall from height	1,176	1,149	1,235	1,186	1,222	1,236	1,235	1,291	1,236	1,292	1,101	1,137	1,124	1,138	1,205	1,188	1,139	1,187	1,193	1,229	1,307	1,290
falling to same level	1,559	1,597	1,657	1,621	1,686	1,702	1,610	1,725	1,711	1,806	1,647	1,702	1,746	1,738	1,888	1,908	1,822	1,980	1,898	2,244	2,127	2,158
crash	347	371	345	328	341	363	352	370	342	408	381	367	344	366	343	351	351	347	363	385	422	452
struck by flying or falling object	290	294	283	236	328	278	291	316	288	259	232	241	289	227	256	246	265	262	237	215	267	264
collapse	65	61	71	80	71	87	66	71	76	76	69	63	48	52	62	63	57	60	61	60	59	59
crashed by	207	201	211	202	195	224	227	212	198	207	201	172	170	203	217	175	187	202	180	199	204	209
caught in/between	663	686	707	700	796	747	701	704	688	802	624	631	668	668	674	651	703	638	661	661	667	663
cut	325	332	338	354	326	299	298	336	288	317	279	309	279	265	298	290	238	248	230	230	263	276
injury to the sole of the foot	18	17	15	23	26	28	22	24	23	23	22	20	17	27	18	19	11	15	29	25	15	18
drown	1	1	1	-	1	1	2	1	1	2	2	3	22	0	0	2	2	2	3	2	2	1

contact to high/low-temperature	73	64	84	71	48	73	66	69	67	64	64	81	71	49	68	67	48	68	71	126	103	100
contact to harmful substance	49	41	36	54	40	43	54	29	46	47	33	34	39	43	36	37	39	44	33	44	49	47
electric shock	5	9	8	5	6	3	6	5	6	4	3	6	10	2	4	4	5	3	3	5	6	5
explosion	7	10	7	8	6	4	4	5	6	10	2	2	3	4	5	5	4	7	4	4	3	6
burst	4	1	0	2	2	5	0	3	3	1	3	4	7	1	4	3	4	5	3	1	3	4
fire	9	2	2	-	3	2	1	2	4	5	4	4	4	2	0	5	1	2	0	3	2	2
traffic accident (public road)	188	194	192	218	210	190	215	206	215	202	159	192	164	214	209	204	188	157	193	206	195	159
traffic accident (others)	4	3	2	-	7	3	2	5	10	2	0	4	4	2	4	2	4	1	3	3	4	9
reaction to motion/improper motion	815	735	751	674	792	740	808	762	811	827	764	764	766	725	710	711	707	752	738	753	859	904
others	36	40	39	37	44	44	40	50	46	33	31	29	48	39	27	47	50	30	43	46	53	149
unclassifiable	14	11	9	26	16	5	14	12	23	8	9	3	6	7	9	11	9	8	7	9	7	6
total	5,855	5,819	5,993	5,825	6,166	6,077	6,014	6,198	6,088	6,395	5,630	5,768	5,829	5,772	6,037	5,989	5,834	6,018	5,953	6,450	6,617	6,781

Causal agents (middle) of industrial accidents in commercial cleaning and livestock process in 1999-2020

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
engine	4	1	1	2	1	-	1	2	1	1	1	2	2	1	1	2	1	2	6	0	1	1
power transmission mechanism	17	20	21	22	21	11	13	22	14	15	20	23	23	17	17	25	20	10	17	19	17	17
woodworking machine	17	22	24	31	29	21	31	23	28	23	24	35	21	23	21	21	24	22	22	21	28	28
construction machine	70	50	72	59	76	100	81	79	73	85	66	61	63	82	89	71	71	83	93	79	86	83
metal manufacturing machine	25	27	27	26	28	27	32	34	37	30	20	35	40	23	28	31	28	33	23	27	33	28
general machine	150	154	179	184	196	188	175	182	178	200	159	162	158	143	151	156	165	131	147	125	159	133
mobile silviculture machine																	0	1	0	1	1	0
crane	49	49	54	57	40	56	57	54	50	48	55	48	43	63	60	38	44	46	36	58	60	38
conveying	754	827	820	772	869	782	833	810	828	894	741	745	796	840	829	837	798	787	769	744	832	875





machine			1	0		1	1	0	1	1	1	0	0	0	0	0	0	0	1	0	1
hollow chisel mortiser, wood borer			0	0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chamfering machine, router, woodworking milling machine			0	0		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
chain saw			5	3		7	8	4	6	6	12	6	7	8	8	8	2	5	5	7	4
other woodworking machines			3	5		6	4	5	8	2	6	5	2	3	3	4	3	3	4	2	5
leveling, transporting or loading machine			20	19		22	20	20	21	19	16	13	24	21	11	15	25	25	21	18	20
excavating machine			25	34		37	30	33	41	29	28	36	30	31	32	19	26	41	34	38	34
foundation work machine			0	0		0	3	1	1	0	0	0	0	1	1	0	0	0	0	0	0
hardening machine			0	1		0	2	0	0	0	0	0	0	0	0	2	1	0	0	0	0
demolition machine			8	7		4	3	3	5	2	4	4	7	15	16	24	25	18	17	26	23
vehicle for high lift work			1	0		0	1	1	1	3	1	2	0	0	2	3	1	2	3	1	1

other construction machines			18	15		18	20	15	16	13	12	8	21	21	9	8	5	7	4	3	5
lathe			0	0		0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0
drill press, milling machine			0	1		2	0	0	1	0	0	2	2	0	0	0	0	0	0	1	2
grinding machine, buffing machine			8	7		8	11	16	10	9	11	12	5	8	8	11	12	5	11	8	11
power press			2	2		3	5	2	2	1	0	5	2	3	2	2	2	3	1	2	1
forging pressure hammer			0	0		0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1
shearing machine			3	2		3	3	3	2	1	4	3	6	2	4	5	4	5	2	4	2
other metal manufacturing machines			14	16		16	14	16	14	9	20	17	8	14	17	10	14	10	13	18	11
centrifugal machine			0	2		1	1	0	3	1	0	0	1	1	1	0	0	1	1	1	0
mixer, grinder			13	27		21	25	33	28	25	19	16	21	19	27	25	17	21	18	26	17
roll machine (except printingroll machine)			0	3		3	1	1	2	1	0	3	3	1	1	3	0	1	4	3	0
injection molding machine			0	0		0	0	0	1	1	3	2	0	1	0	0	0	3	1	1	2









hauling equipment			75		81		92	82	98	115	118	96	99	110	114	118	118	98	120	124	125	128
human power machine			4		2		0	0	0	1	2	1	2	0	4	2	3	4	2	0	4	3
hand tool			107		109		96	110	94	104	94	95	82	80	89	92	86	74	71	95	83	103
ladder			368		387		372	381	355	399	333	372	356	368	384	346	327	330	313	344	338	349
slinging tool			8		9		3	12	10	5	4	3	4	1	7	4	3	9	7	5	7	4
other tools			188		179		195	221	229	271	193	216	178	199	246	204	202	235	250	268	290	258
other equipment, facilities			175		188		184	220	241	262	232	231	187	231	263	235	199	264	224	198	251	223
scaffolding			23		29		24	23	25	27	21	19	18	21	17	12	20	17	8	23	13	13
timbering			2		0		0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0
stairs, landing stage			412		415		408	479	415	454	426	429	443	407	434	489	469	502	487	536	576	543
opening			42		25		22	37	23	25	30	35	21	18	35	17	16	26	29	36	28	40
roof, beam, haze, crossbeam, principal rafter			30		30		27	29	20	38	23	18	28	29	31	23	17	22	21	21	19	20
working platform, boot board			292		348		269	297	337	326	304	286	226	243	275	282	253	259	252	332	296	264
passage			661		707		743	746	749	763	698	767	816	772	787	796	770	975	937	1,122	1,052	1,076
building,			399		376		365	388	370	407	348	353	347	374	374	290	331	300	365	346	288	338





30-39	802	903	899	976	1,045	1,062	1,077	1,065	1,028	1,067	943	937	864	882	886	763	760	719	704	687	704	690
40-49	933	861	856	831	927	848	878	930	894	967	908	935	1,017	1,045	1,077	1,114	1,081	1,108	1,012	1,070	1,104	1,142
50-59	1,701	1,664	1,683	1,662	1,761	1,733	1,663	1,763	1,751	1,569	1,373	1,379	1,372	1,289	1,321	1,325	1,237	1,337	1,249	1,331	1,419	1,469
60 years old or more	1,504	1,473	1,627	1,515	1,582	1,650	1,626	1,719	1,756	2,136	1,872	1,963	2,016	2,057	2,218	2,317	2,322	2,401	2,544	2,907	2,928	3,004
total	5,855	5,819	5,993	5,825	6,166	6,077	6,014	6,198	6,088	6,395	5,630	5,768	5,829	5,772	6,037	5,989	5,834	6,018	5,953	6,450	6,617	6,781

Workers' number of workplace of industrial accidents in commercial cleaning and livestock process in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	1,079	1,110	1,121	1,118	1,195	1,133	1,086	1,166	1,009	1,090	924	974	973	988	1,006	942	997	914	888	922	1,010	935
10-29	1,361	1,374	1,377	1,366	1,455	1,435	1,421	1,432	1,502	1,501	1,311	1,410	1,410	1,317	1,411	1,378	1,335	1,381	1,420	1,463	1,538	1,616
30-49	684	740	811	785	799	783	823	815	875	967	805	830	836	840	864	819	883	931	876	1,003	1,084	1,074
50-99	914	825	919	875	916	895	923	925	889	939	878	820	903	914	874	901	870	983	915	893	1,004	1,082
100-299	1,180	1,147	1,093	1,051	1,179	1,205	1,146	1,254	1,188	1,206	1,068	1,037	1,069	1,037	1,140	1,161	1,109	1,117	1,076	1,227	1,134	1,219
300 workers or more	637	623	672	630	622	626	615	606	625	692	644	697	638	676	742	788	640	692	778	942	847	855
total	5,855	5,819	5,993	5,825	6,166	6,077	6,014	6,198	6,088	6,395	5,630	5,768	5,829	5,772	6,037	5,989	5,834	6,018	5,953	6,450	6,617	6,781

Month of industrial accidents in commercial cleaning and livestock process in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	500	438	522	458	516	506	429	561	475	556	499	442	491	472	590	536	517	601	524	665	556	535
February	445	474	481	444	445	492	488	513	455	579	451	487	480	514	498	611	467	464	464	520	564	549
March	488	473	504	482	565	517	494	551	507	533	507	484	533	493	486	447	494	482	515	515	505	504
April	510	456	475	489	510	511	468	453	516	521	453	474	469	461	502	475	477	471	476	527	497	511
May	452	480	512	464	527	470	515	528	536	539	421	467	463	450	443	465	452	520	480	488	496	480
June	578	518	472	498	543	521	527	506	518	559	494	505	515	508	508	462	504	502	486	518	591	612
July	527	547	552	567	588	530	540	539	569	535	493	562	503	510	553	534	550	524	510	649	652	639
August	549	524	554	515	522	540	549	563	564	524	515	548	537	567	548	465	480	549	531	537	604	611
September	471	530	486	468	505	482	539	500	526	540	461	469	461	409	467	490	480	490	438	511	554	634
October	514	473	494	526	499	511	493	531	483	509	459	441	422	493	491	511	510	489	536	564	582	580
November	426	441	452	456	464	486	431	501	452	502	414	440	457	437	480	483	476	475	491	475	514	514
December	395	465	489	458	482	511	541	452	487	498	463	449	498	458	471	510	427	451	502	481	502	612
total	5,855	5,819	5,993	5,825	6,166	6,077	6,014	6,198	6,088	6,395	5,630	5,768	5,829	5,772	6,037	5,989	5,834	6,018	5,953	6,450	6,617	6,781

Prefecture of industrial accidents in commercial cleaning and livestock process in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	304	298	332		328		340	306	346	342	294	319	347	308	374	359	390	352	329	366	423	457
Aomori	64	65	56		63		60	38	54	53	43	56	54	55	57	60	57	49	53	53	61	62

Iwate	48	54	50		59		55	57	52	59	45	44	63	58	55	66	64	51	57	58	66	75
Miyagi	103	100	88		135		106	126	106	110	98	115	130	134	174	110	93	108	110	134	102	119
Akita	40	43	35		41		41	41	44	41	26	36	45	50	46	35	38	45	52	46	37	51
Yamagata	70	46	53		45		43	60	46	38	43	44	47	51	55	39	37	43	47	51	43	47
Fukushima	63	75	80		69		65	84	79	76	72	79	78	75	80	94	99	85	90	104	107	79
Ibaraki	83	72	90		65		84	91	86	89	82	78	92	73	81	88	96	96	93	108	120	115
Tochigi	69	63	67		76		81	68	80	68	54	71	69	70	80	84	78	86	90	84	79	87
Gunma	85	86	105		96		86	93	90	83	74	103	91	111	92	96	110	100	95	98	91	99
Saitama	212	222	279		234		240	243	257	292	274	232	236	248	301	286	266	297	270	298	340	372
Chiba	239	270	235		285		218	269	248	308	255	282	247	238	256	259	239	237	233	304	326	293
Tokyo	637	638	681		756		746	764	779	862	740	823	783	770	861	839	758	730	799	853	921	947
Kanagawa	444	469	464		424		445	478	440	464	394	417	383	352	416	457	416	411	388	456	461	473
Niigata	107	82	101		106		100	118	85	116	97	107	111	117	132	116	103	125	120	133	114	107
Toyama	59	52	43		55		56	51	44	58	45	35	52	54	50	64	46	51	48	50	52	52
Ishikawa	54	47	47		37		47	55	48	46	49	53	45	53	54	52	47	61	52	69	62	48
Fukui	37	38	34		29		31	30	31	43	28	29	37	37	31	45	39	26	33	38	32	49
Yamanashi	21	26	32		39		24	23	28	45	21	33	30	29	24	31	36	48	29	33	31	28
Nagano	70	70	100		79		73	79	88	84	78	67	80	87	95	79	83	80	85	103	94	88
Gifu	63	58	59		57		58	63	74	65	64	49	56	62	51	46	52	49	67	58	67	60
Shizuoka	155	154	155		174		159	190	200	216	142	164	159	164	168	172	177	185	156	186	194	202



Aichi	308	357	320		326		319	308	346	391	347	345	341	333	312	311	317	336	341	384	347	383
Mie	82	65	68		68		62	67	92	92	83	69	72	59	72	63	67	83	69	67	77	71
Shiga	46	50	56		40		42	63	53	57	57	48	37	67	46	56	57	51	53	59	60	50
Kyoto	153	168	167		145		153	141	138	128	125	109	120	151	125	114	129	126	153	121	119	117
Osaka	750	725	689		691		644	597	548	569	569	526	538	470	467	499	416	487	429	489	463	430
Hyogo	239	208	232		332		261	263	271	280	221	254	262	245	259	236	236	250	258	241	256	290
Nara	64	37	53		46		44	52	47	45	48	48	49	52	58	66	51	65	42	51	42	77
Wakayama	27	21	29		39		57	57	47	42	42	49	39	42	44	34	42	41	48	41	46	36
Tottori	20	20	32		19		29	24	32	26	16	15	27	20	19	23	30	28	24	20	25	27
Shimane	20	34	31		37		33	27	22	33	27	27	29	20	39	23	26	24	20	29	23	25
Okayama	52	46	52		72		64	77	47	70	51	68	65	68	63	64	73	78	77	76	73	84
Hiroshima	147	158	154		128		157	157	155	135	119	117	130	141	126	128	125	147	132	135	148	148
Yamaguchi	61	51	57		52		67	73	46	49	56	52	51	61	45	42	59	58	67	49	50	66
Tokushima	43	43	51		51		47	51	37	53	33	31	34	48	41	44	42	32	41	39	46	42
Kagawa	38	48	33		48		53	40	49	41	56	43	38	43	45	38	38	50	40	52	56	48
Ehime	46	73	54		52		58	51	50	42	47	50	34	55	47	45	51	54	47	55	70	54
Kochi	58	45	47		38		34	35	49	37	35	41	44	34	29	46	32	26	35	45	33	46
Fukuoka	295	275	304		314		290	343	323	292	282	274	289	285	295	273	289	302	327	328	332	339
Saga	44	38	42		36		46	42	37	39	27	34	27	35	46	34	32	57	37	51	51	45
Nagasaki	64	46	60		68		84	71	81	68	55	52	51	59	68	58	72	61	63	68	59	84





traffic accident (others)	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
reaction to motion/improper motion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
others	1	0	1	0	2	1	1	1	2	0	1	0	11	0	1	1	1	3	0	0	2	0
unclassifiable	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	58	70	61	69	66	51	59	54	43	55	45	62	67	47	49	53	41	41	44	49	46	48

Causal agents (middle) of fatal accidents in commercial cleaning and livestock process in 1999-2020

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
engine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
woodworking machine	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0
construction machine	3	6	6	6	8	4	2	1	1	2	2	5	1	3	3	3	5	2	2	4	2	4
metal manufacturing machine	0	0	0	1	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0
general machine	3	1	2	7	2	4	8	1	3	7	5	2	1	3	7	1	2	1	1	1	1	4
mobile silviculture machine																	0	0	0	0	0	0
crane	5	3	3	0	1	0	0	1	0	1	1	3	1	4	3	0	2	2	3	1	1	0
conveying machine	12	24	21	18	19	16	24	16	13	22	13	16	16	16	15	18	12	9	13	11	15	25

vehicle	5	4	6	4	4	5	6	10	2	3	3	3	5	2	5	6	4	2	4	3	2	1
pressure vessel	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
chemical facilities	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
kiln, caldron	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	2	0	0	0	0
electric equipment	0	2	1	0	1	0	0	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0
human power machine, tools	1	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
tools	6	5	4	2	5	3	3	4	6	5	4	7	3	3	3	7	3	3	3	3	4	1
other equipments, facilities	0	1	1	2	1	2	1	2	0	0	1	0	1	1	0	2	1	5	0	0	0	1
temporary buildings, establishments	11	16	9	14	18	9	7	8	11	11	10	15	4	9	5	13	7	5	12	15	11	2
hazards, harmful substances	10	4	2	7	2	2	0	3	0	0	0	1	2	2	1	0	1	0	1	2	2	0
materials	0	0	1	0	0	0	2	0	0	0	3	3	0	0	2	0	0	0	0	0	0	0
load	0	2	1	1	1	0	0	0	0	2	0	1	0	0	0	0	0	1	0	2	0	0
natural environment	0	0	2	4	2	1	1	3	2	0	2	4	32	4	1	1	2	5	4	5	5	8
other causal agent	1	0	1	2	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
no causal agent	1	0	0	0	0	1	0	0	2	0	0	0	0	0	2	1	1	3	0	1	1	1
unclassifiable	0	0	1	0	0	1	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0
total	58	70	61	69	66	51	59	54	43	55	45	62	67	47	49	53	41	41	44	49	46	48











other kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
transmission	0	2	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
electric power facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
other electrical equipment	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power cranes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
human power hauling equipment	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hand tool	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ladder	4	3	0	2	3	3	2	2	5	3	3	2	1	3	2	4	1	2	2	3	2	1
slinging tool	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
other tools	2	2	4	0	2	0	1	2	1	2	1	5	1	0	1	3	2	1	1	0	2	0
other equipment, facilities	0	1	1	2	1	2	1	2	0	0	1	0	1	1	0	2	1	5	0	0	0	1
scaffolding	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	1
timbering	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
stairs, landing stage	0	2	1	1	1	1	1	2	0	1	3	4	0	0	1	3	1	2	3	5	3	0
opening	0	1	0	3	2	1	1	0	2	0	0	2	1	1	1	0	0	0	1	3	2	0
roof, beam, haze, crossbeam, principal rafter	1	2	1	3	1	1	0	1	0	0	0	0	0	1	0	1	3	0	1	2	3	0
working platform, boot	1	3	2	0	2	0	1	2	0	2	1	2	0	1	0	3	2	1	1	0	1	0



water	0	0	0	0	1	0	0	1	1	0	1	1	30	0	0	1	0	1	2	2	2	0
abnormal environment	0	0	1	0	0	0	0	1	0	0	0	1	1	2	0	0	0	1	0	1	3	2
high/cold temperature environment	0	0	1	2	0	0	1	0	1	0	1	2	1	0	1	0	1	1	1	0	0	4
other environments	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	2	0	2
other causal agent	1	0	1	2	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
no causal agent	1	0	0	0	0	1	0	0	2	0	0	0	0	0	2	1	1	3	0	1	1	1
unclassifiable	0	0	1	0	0	1	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0
total	58	70	61	69	66	51	59	54	43	55	45	62	67	47	49	53	41	41	44	49	46	48

#### Workers age of fatal accidents in commercial cleaning and livestock process in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
19 years old or less	1	0	2	1	0	1	1	0	0	0	0	0	0	2	1	0	0	0	1	0	0	0
20-29	7	11	10	6	7	11	2	7	2	2	4	8	5	1	4	5	2	2	2	3	5	2
30-39	7	12	10	14	15	7	5	13	10	11	4	10	10	9	8	7	5	5	5	8	6	9
40-49	9	9	13	8	10	5	6	9	5	11	5	5	9	9	7	6	12	5	8	9	7	8
50-59	14	15	14	17	13	10	18	14	9	8	15	17	18	13	9	10	8	15	12	8	9	7
60 years old or more	20	23	12	23	21	17	27	11	17	23	17	22	25	13	20	25	14	14	16	21	19	22
total	58	70	61	69	66	51	59	54	43	55	45	62	67	47	49	53	41	41	44	49	46	48

### Workers' number of workplace of fatal accidents in commercial cleaning and livestock process in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	14	18	21	25	25	18	21	18	11	11	13	17	11	17	16	19	14	10	17	10	14	14
10-29	21	26	23	26	22	16	20	19	12	19	20	22	23	12	15	17	15	11	13	18	14	17
30-49	3	9	9	7	8	8	9	7	8	14	4	6	11	5	12	5	6	7	1	9	9	7
50-99	13	9	6	4	3	3	3	2	7	4	3	8	12	3	3	7	3	6	5	3	4	5
100-299	5	6	2	3	6	4	4	6	3	5	4	7	8	5	1	3	1	4	4	6	3	4
300 workers or more	2	2	0	4	2	2	2	2	2	2	1	2	2	5	2	2	2	3	4	3	2	1
total	58	70	61	69	66	51	59	54	43	55	45	62	67	47	49	53	41	41	44	49	46	48

### Month of fatal accidents in commercial cleaning and livestock process in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	7	0	2	2	5	5	4	3	1	6	8	5	1	3	5	4	3	8	5	9	3	5
February	1	3	4	4	5	5	2	6	2	6	3	4	2	1	3	5	3	0	4	4	4	3
March	7	8	5	12	5	4	6	6	4	4	3	7	36	5	4	3	2	6	3	5	3	3
April	5	3	9	6	5	6	5	4	3	7	1	2	4	6	5	3	4	4	1	2	2	6
May	5	6	6	7	5	4	5	4	4	6	5	3	2	3	1	5	8	4	5	4	4	1
June	3	10	7	3	6	5	4	4	3	2	7	6	4	4	5	6	2	3	1	1	6	1

July	6	5	6	6	7	1	5	4	2	3	2	9	1	3	4	4	2	3	1	4	3	4
August	4	6	4	9	2	4	6	6	6	6	4	3	4	7	5	1	4	0	7	5	5	8
September	5	6	6	1	1	2	5	5	2	2	4	4	2	3	4	6	4	3	2	8	4	5
October	7	13	5	7	11	3	9	5	3	2	1	4	1	6	3	5	3	6	6	2	6	6
November	6	7	2	7	8	5	5	1	10	5	3	10	5	2	7	5	4	1	2	3	5	3
December	2	3	5	5	6	7	3	6	3	6	4	5	5	4	3	6	2	3	7	2	1	3
total	58	70	61	69	66	51	59	54	43	55	45	62	67	47	49	53	41	41	44	49	46	48

Prefecture of fatal accidents in commercial cleaning and livestock process in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	4	6	3	6	2	5	7	2	3	3	9	3	2	2	0	1	1	0	2	3	1	3
Aomori	0	1	1	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1
Iwate	0	1	1	0	0	0	0	1	1	1	0	0	11	1	1	2	1	0	0	1	0	2
Miyagi	0	0	0	1	2	2	0	0	0	1	0	2	18	1	1	1	0	1	2	1	1	1
Akita	0	2	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0
Yamagata	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	1	0
Fukushima	2	1	2	1	1	0	2	4	0	1	0	1	2	0	0	0	0	1	0	0	1	1
Ibaraki	0	1	2	2	2	1	1	2	3	0	1	4	1	3	2	0	1	2	1	1	0	4
Tochigi	0	1	2	0	3	1	1	1	0	1	1	2	0	1	2	2	0	0	0	1	2	1

Gunma	1	3	1	4	1	1	1	1	1	0	2	0	0	1	2	0	1	1	0	2	0	0
Saitama	3	3	6	5	3	2	3	3	1	5	2	6	2	3	5	2	2	4	1	3	5	1
Chiba	6	4	3	1	3	2	4	4	3	3	1	0	0	1	1	3	3	1	2	2	2	2
Tokyo	6	11	5	5	10	7	6	3	10	4	4	7	6	6	6	7	6	4	7	4	8	2
Kanagawa	0	5	5	4	5	2	6	5	0	6	2	5	1	3	3	1	3	2	4	5	3	6
Niigata	2	1	1	1	1	1	0	0	0	0	1	2	1	0	1	1	3	0	1	0	1	0
Toyama	1	0	1	0	1	1	0	0	0	0	1	1	1	0	0	0	0	2	0	2	0	1
Ishikawa	1	1	1	0	2	1	0	0	0	1	2	0	0	2	0	1	1	1	0	0	0	0
Fukui	2	0	0	0	0	1	1	0	0	0	0	1	0	0	0	2	0	0	1	0	0	0
Yamanashi	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Nagano	3	1	2	2	1	0	1	0	1	1	0	1	1	0	0	0	2	0	1	4	0	0
Gifu	0	1	1	1	1	0	0	1	1	1	0	1	2	2	1	0	0	0	2	0	0	0
Shizuoka	3	3	2	5	3	2	3	2	3	3	0	3	0	0	1	3	2	0	0	3	1	2
Aichi	4	2	2	9	6	1	1	1	3	6	4	6	1	2	0	7	3	2	3	1	2	3
Mie	1	1	2	0	0	0	0	1	1	1	0	1	3	0	0	1	0	0	0	0	2	1
Shiga	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	1	0	2	0	0	0	0
Kyoto	0	1	0	2	1	0	4	0	2	0	0	0	1	0	2	1	0	0	1	0	1	0
Osaka	2	3	1	3	4	6	5	3	2	2	3	3	3	0	5	2	1	3	2	4	4	2
Hyogo	6	5	3	3	1	3	0	3	1	2	2	2	1	2	2	2	6	3	0	2	2	2
Nara	1	0	1	0	1	0	0	2	0	0	1	0	1	1	1	1	0	1	0	1	0	3

Wakayama	0	0	3	0	0	1	1	0	0	0	1	0	0	0	0	1	0	0	0	1	1	1
Tottori	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
Shimane	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	0
Okayama	1	1	0	2	0	0	2	1	0	0	1	0	0	1	1	0	0	1	0	0	1	2
Hiroshima	1	2	0	2	1	2	2	3	2	5	0	1	1	1	1	3	1	1	1	2	1	2
Yamaguchi	0	0	0	0	1	2	1	0	0	0	2	0	0	1	0	2	0	0	0	1	1	0
Tokushima	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kagawa	0	1	0	0	0	2	0	0	1	1	0	1	0	0	1	0	0	0	0	0	0	0
Ehime	1	0	0	0	0	0	2	1	1	2	0	1	0	0	2	2	1	3	0	0	0	1
Kochi	1	0	1	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0
Fukuoka	4	3	4	4	1	1	1	1	1	1	2	2	0	5	5	1	0	1	0	1	2	1
Saga	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0
Nagasaki	0	0	1	0	2	0	0	2	0	0	1	1	0	2	1	1	0	0	1	0	0	0
Kumamoto	0	0	0	2	2	1	1	2	1	1	1	0	1	0	0	0	0	2	1	0	1	1
Oita	0	1	0	1	2	1	0	1	0	1	0	0	1	0	1	0	0	0	2	0	0	2
Miyazaki	0	0	0	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0	1	2	0	0
Kagoshima	2	0	0	1	0	1	0	0	0	1	0	1	0	2	0	0	1	1	2	1	2	0
Okinawa	0	0	2	0	0	0	0	1	0	0	1	1	0	2	0	0	1	0	1	0	0	0
total	58	70	61	69	66	51	59	54	43	55	45	62	67	47	49	53	41	41	44	49	46	48



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

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