

substance	3	16	11	11	22	11	12	29	16	9	6	7	6	11	11	11	13	13	13	15	8	8	16	10	288
electric shock	7	12	8	14	10	11	7	9	8	7	3	10	5	10	1	9	7	3	2	3	6	3	3	5	163
explosion	6	3	9	1		5		1	5	1		5			1	2				1	1	1	1	43	
burst	2	1		1	3	2	1	1	1	1	1	1	1	2	2	3	1		1		1	1		1	28
fire	7	2	8	9	5	1		1	3	2	1	2		3	4	2	2	1		17	3	1			74
traffic accident (public road)	133	150	110	150	119	110	119	149	96	101	77	61	103	97	96	146	82	103	91	91	80	73	59	61	2,457
traffic accident (others)	3	1	1	1	1		1	1	4	1	1				1					1			1	18	
reaction to motion/improper motion	168	157	171	164	146	127	149	134	171	150	109	86	121	110	116	132	105	107	124	116	118	102	106	125	3,114
others	15	13	18	12	14	17	13	12	20	21	4	7	14	16	9	8	14	6	12	16	8	48	256	18	591
unclassifiable	6	11	5	6	3	3	5	5	6	3	1			4	4	3	1	3	1	2	2	2	3	1	80
total	4,462	4,593	4,556	4,531	3,990	4,069	3,937	4,106	3,858	3,338	2,322	2,179	2,654	2,720	2,854	2,996	2,526	2,431	2,427	2,463	2,351	2,110	2,288	2,172	75,933

Causal agents (large) of fatal and non-fatal accidents in steel frame/reinforced concrete house construction work 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	607	642	616	619	554	553	520	520	448	397	325	325	380	333	351	387	326	330	301	286	307	273	286	305	9,991
crane, conveying machine	476	501	484	484	443	393	412	466	380	345	251	229	322	315	345	343	261	288	316	287	274	258	221	245	8,339
other equipment	702	700	711	736	652	647	643	683	672	585	393	353	442	514	493	545	427	424	410	454	437	350	379	373	12,725

general machine	61	68	80	54	50	62	47	60	56	47	39	35	38	29	45	46	48	45	30	40	38	38	42	49	1,147
mobile silviculture machine																	1	1							2
crane	168	155	158	175	146	118	145	148	120	103	75	63	96	103	106	88	79	76	98	83	80	85	78	81	2,627
conveying machine	182	224	225	201	192	175	160	200	165	167	116	116	150	127	162	125	109	132	131	138	125	112	99	108	3,641
vehicle	126	122	101	108	105	100	107	118	95	75	60	50	76	85	77	130	73	80	87	66	69	61	44	56	2,071
pressure vessel	5	5	2	3	2	4	1		2	4	2		3	4	2		1	2	1			2	1	1	47
chemical facilities	1			1			1	1	3		1			2		1	1			1					13
welding equipment	12	6	18	16	10	8	7	2	15	7	4	4	4	5	9	9	10	5	6	21	4	1	3	4	190
kiln, caldron	1	2		1	1	2	1			1		1				2				1		1			14
electric equipment	8	13	11	9	13	8	13	9	12	7	6	9	6	10	3	9	8	5	10	8	8	8	6	5	204
human power machine, tools	140	163	145	148	143	124	124	120	100	99	68	62	85	79	88	89	64	78	60	76	76	49	64	60	2,304
tools	505	476	504	519	451	462	475	529	511	428	293	259	328	386	366	410	318	316	314	318	323	267	283	282	9,323
other equipments, facilities	30	35	31	39	32	39	21	22	29	39	19	18	16	28	25	25	25	18	19	29	26	22	22	21	630
temporary buildings, establishments	1,723	1,803	1,770	1,708	1,465	1,622	1,499	1,599	1,535	1,287	867	809	953	956	1,046	1,074	951	902	867	923	864	709	724	738	28,394
hazards, harmful substances	14	23	23	17	22	14	12	30	27	15	6	15	8	12	15	13	16	14	18	13	10	11	17	10	375
materials	690	673	683	692	636	615	609	573	547	486	325	289	364	416	405	421	354	331	339	306	287	302	255	299	10,897

machine, router, woodworking milling machine						2					1	1							1			1	6	
chain saw			7		8	2	3	1	1	2	5	5	4	1	3	4	2	5	1	2	2	8	7	73
other woodworking machines			33		28	30	24	14	22	14	21	20	17	19	11	17	14	14	10	13	11	15	10	357
leveling, transporting or loading machine			9		22	14	20	9	6	18	18	6	15	10	12	10	8	13	9	11	9	12	11	242
excavating machine			58		60	51	61	49	44	35	35	49	36	36	56	46	51	34	51	43	52	41	49	937
foundation work machine			32		20	27	29	15	16	15	18	18	22	10	11	15	18	17	14	18	16	10	12	353
hardening machine			9		5	2	9	7	6	5	4	4	6	3	3	3	2	3	1	6	3	5	5	91
demolition machine			17		16	19	18	12	20	16	8	20	12	19	33	22	18	26	11	19	8	12	17	343
vehicle for high lift work			13		13	32	25	26	24	13	12	12	12	14	21	18	15	18	17	22	11	13	11	342
other construction machines			40		34	41	38	35	29	18	28	32	30	31	27	19	23	15	21	19	19	19	16	534
lathe			1			2	3			4			3		3		2		1	1	1	1		22
drill press, milling machine			3		5	4	8	1	1	5	3	4	2		2		2	2	1	1	1	2	2	49
grinding machine, buffing machine			46		63	48	38	40	41	35	30	41	34	36	35	36	32	29	33	29	23	27	27	723
power press					1	4			1				1	1		1		1		3	3	1	1	18

conveying machines			6		4		6	5	8	6	4	4	6	4	4	2	5	1	5	5	2	2	3	6	88	
cars, bus, motorcycle			99		104		106	116	91	72	57	48	74	84	77	130	73	80	85	66	68	61	44	55	1,590	
railway vehicle							1	1			1														4	
other vehicles			2		1			1	4	3	2	2	1	1				2		1				1	21	
boiler																										
pressure vessel													1	1			1									3
other pressure vessels			2		2		1		2	4	2		2	3	2			2	1			2	1	1	27	
chemical facilities							1	1	3		1			2		1	1			1					11	
gas welding equipment			8		5		6	2	8	3	2	1	4	3	4	3	4	3	3	18	4	1		1	83	
arc welding equipment			8		5		1		5	3	1	3		1	4	6	6	1	2	3			2	2	53	
other welding equipment			2						2	1	1			1	1			1	1				1	1	12	
kiln, caldron					1		1			1		1				1				1		1			7	
industrial dryer																										
other kiln, caldron															1										1	
transmission			5		9		4	5	7	5	1	4	4	8	1	6	3	3	8	7	6	5	4	3	98	
electric power facilities			4		1		3	3	3		2	3	1	2		1	3	1	2		1	1	1	1	33	
other electrical			2		3		6	1	2	2	3	2	1		2	2	2	1		1	1	2	1	1	35	

water					1			2		1	1	2	7			2	1			1	2				20
abnormal environment					5		1	1		1		2	3	4			2		1	1	1			1	23
high/cold temperature environment			30		23		22	30	33	28	13	36	32	32	36	46	31	25	33	50	23	46	19	32	620
other environments			26		10		19	21	15	14	8	8	18	16	23	24	22	12	15	12	13	16	17	20	329
other causal agent			20		19		17	18	20	17	7	12	9	13	10	5	15	10	23	15	13	45	255	12	555
no causal agent			33		44		41	27	42	44	35	31	34	37	30	43	42	29	48	49	41	39	48	52	789
unclassifiable			10		3		5	6	8	9	1	4		3	3	5	2	1	1	1	2		3	1	68
total	4,462	4,593	4,556	4,531	3,990	4,069	3,937	4,106	3,858	3,338	2,322	2,179	2,654	2,720	2,854	2,996	2,526	2,431	2,427	2,463	2,351	2,110	2,288	2,172	75,933

Workers age of fatal and non-fatal accidents in steel frame/reinforced concrete house construction work 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	162	203	169	170	143	125	133	119	132	118	63	60	81	99	136	104	103	87	90	69	72	50	67	44	2,599
20-29	954	1,000	1,008	1,029	857	765	793	792	678	563	416	370	433	437	474	495	432	397	431	460	417	434	469	426	14,530
30-39	713	748	790	792	769	844	828	881	851	687	537	460	608	595	540	584	448	437	419	411	357	315	361	314	14,289
40-49	841	817	762	702	620	662	643	632	610	564	386	407	508	576	595	636	533	576	506	502	520	455	474	457	13,984
50-59	1,080	1,157	1,138	1,195	1,019	1,060	961	1,037	956	784	522	459	577	537	537	518	465	408	433	448	430	392	439	444	16,996
60 years old or more	712	668	689	643	582	613	579	645	631	622	398	423	447	476	572	659	545	526	548	573	555	464	478	487	13,535
total	4,462	4,593	4,556	4,531	3,990	4,069	3,937	4,106	3,858	3,338	2,322	2,179	2,654	2,720	2,854	2,996	2,526	2,431	2,427	2,463	2,351	2,110	2,288	2,172	75,933

Workers' number of workplace of fatal and non-fatal accidents in steel frame/reinforced concrete house construction work 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	2,430	2,411	2,403	2,414	2,043	2,215	2,155	2,214	2,174	1,816	1,310	1,203	1,472	1,461	1,507	1,649	1,402	1,357	1,374	1,348	1,297	1,110	1,193	1,183	41,141
10-29	1,332	1,388	1,407	1,374	1,266	1,194	1,137	1,227	1,109	977	678	670	768	857	912	894	725	711	676	728	682	666	677	620	22,675
30-49	399	463	392	420	377	381	355	349	314	323	173	175	236	224	254	261	227	201	217	216	208	201	172	181	6,719
50-99	178	210	213	198	190	180	185	210	154	141	98	81	123	111	119	132	110	107	90	104	95	84	134	116	3,363
100-299	102	99	109	103	92	80	85	84	79	62	43	38	42	52	46	41	51	43	58	50	42	37	80	48	1,566
300 workers or more	21	22	32	22	22	19	20	22	28	19	20	12	13	15	16	19	11	12	12	17	27	12	32	24	469
total	4,462	4,593	4,556	4,531	3,990	4,069	3,937	4,106	3,858	3,338	2,322	2,179	2,654	2,720	2,854	2,996	2,526	2,431	2,427	2,463	2,351	2,110	2,288	2,172	75,933

Month of fatal and non-fatal accidents in steel frame/reinforced concrete house construction work 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	333	320	335	341	337	289	298	307	330	271	225	151	202	242	209	238	223	186	179	182	186	158	164	173	5,879
February	375	370	410	342	365	343	343	331	314	315	215	158	189	217	242	248	217	197	182	198	209	181	164	154	6,279
March	365	370	420	418	354	313	323	351	319	295	216	175	202	243	252	241	213	199	212	200	190	192	182	167	6,412
April	318	298	370	348	301	285	288	265	261	239	192	167	144	194	200	251	180	170	201	182	188	163	215	151	5,571
May	320	326	359	342	321	288	288	292	286	238	166	152	165	201	214	236	162	170	175	171	207	151	179	158	5,567
June	360	342	360	334	286	318	320	330	339	267	204	168	226	222	207	230	203	192	206	194	180	177	218	200	6,083
July	428	425	443	391	330	409	379	364	357	322	218	213	252	259	287	305	258	230	231	251	211	209	200	232	7,204
August	388	447	346	405	329	341	364	406	348	278	194	218	266	232	248	285	199	245	215	227	181	205	223	172	6,762

September	409	454	376	388	366	394	331	377	341	267	173	201	241	217	253	260	222	233	195	211	216	174	201	193	6,693
October	407	467	405	441	363	388	322	398	323	300	180	196	265	237	236	242	249	222	210	232	215	158	196	209	6,861
November	400	407	389	400	287	388	356	366	352	276	169	189	246	239	269	246	210	187	212	233	192	175	182	175	6,545
December	359	367	343	381	351	313	325	319	288	270	170	191	256	217	237	214	190	200	209	182	176	167	164	188	6,077
total	4,462	4,593	4,556	4,531	3,990	4,069	3,937	4,106	3,858	3,338	2,322	2,179	2,654	2,720	2,854	2,996	2,526	2,431	2,427	2,463	2,351	2,110	2,288	2,172	75,933

Prefecture of fatal and non-fatal accidents in steel frame/reinforced concrete house construction work 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	186	207	177		178		168	153	126	120	89	103	107	79	93	140	112	122	103	108	131	103	109	102	2,816
Aomori	43	54	48		35		31	25	28	29	29	18	21	22	31	39	30	35	28	20	36	24	18	29	673
Iwate	37	27	28		29		18	32	29	21	10	14	28	38	38	28	25	29	27	22	22	27	30	34	593
Miyagi	62	70	68		57		71	66	74	69	51	31	76	76	81	73	59	60	48	43	48	46	58	52	1,339
Akita	24	26	22		29		19	23	33	27	15	18	23	17	21	24	24	22	21	21	26	16	18	12	481
Yamagata	41	42	40		30		26	39	20	18	6	24	16	20	25	18	13	22	19	28	11	19	19	9	505
Fukushima	59	44	42		50		45	46	34	39	28	28	25	51	42	57	26	34	36	25	32	27	35	26	831
Ibaraki	78	68	74		63		77	65	73	69	43	57	65	55	35	33	35	35	45	36	36	39	42	50	1,173
Tochigi	39	42	39		38		46	43	47	40	22	10	39	36	37	20	21	29	20	28	27	21	29	18	691
Gunma	33	49	43		46		46	34	38	30	20	24	31	16	33	40	41	37	32	37	45	37	20	31	763
Saitama	183	179	237		217		185	221	216	165	112	124	132	122	158	186	130	126	129	125	96	117	123	118	3,401
Chiba	134	216	252		202		150	174	191	135	92	104	110	107	111	131	117	63	68	88	67	85	90	76	2,763
Tokyo	508	536	669		593		604	587	654	497	336	316	451	467	516	500	380	347	359	360	365	244	375	311	9,975
Kanagawa	284	325	351		288		266	344	294	233	140	153	130	165	171	173	143	146	128	127	118	109	111	125	4,324

Niigata	56	66	52		49		58	62	63	38	50	38	43	36	35	36	37	15	27	34	32	27	27	26	907
Toyama	72	39	32		28		26	25	30	22	23	15	24	34	20	26	22	19	12	15	18	17	26	11	556
Ishikawa	28	42	25		24		21	23	11	21	25	24	31	18	25	33	18	26	23	21	21	16	25	17	518
Fukui	15	26	32		16		35	28	13	17	11	18	18	14	13	14	20	10	12	15	12	12	8	12	371
Yamanashi	19	26	15		16		18	14	11	8	6	9	11	6	5	8	11	11	6	10	14	15	17	13	269
Nagano	60	53	57		42		38	48	41	25	22	15	25	22	26	39	38	25	23	31	25	29	27	28	739
Gifu	112	106	92		50		66	50	51	42	37	34	40	28	29	42	29	30	30	31	25	33	43	29	1,029
Shizuoka	140	130	115		95		134	135	122	110	68	51	82	65	100	94	67	72	84	82	72	68	67	77	2,030
Aichi	225	227	237		207		219	251	188	201	132	116	131	143	144	146	153	134	124	113	110	129	131	124	3,585
Mie	87	87	79		71		81	92	53	53	28	37	40	41	38	39	36	40	46	49	41	19	40	35	1,132
Shiga	51	42	49		56		49	57	43	45	24	15	20	26	16	24	30	13	18	16	27	25	16	27	689
Kyoto	126	129	94		108		117	99	85	65	65	72	82	70	69	84	64	58	69	84	66	59	58	54	1,777
Osaka	364	352	362		300		250	311	276	308	171	131	192	203	211	228	155	159	164	187	163	114	121	111	4,833
Hyogo	254	213	229		205		174	211	216	188	125	112	106	94	118	99	98	120	89	88	86	105	85	94	3,109
Nara	45	48	41		37		33	29	21	31	31	11	18	28	26	28	18	30	27	22	12	25	20	20	601
Wakayama	49	58	52		43		34	31	30	25	23	14	13	22	18	21	16	20	21	15	20	12	24	19	580
Tottori	23	21	17		20		13	6	12	10	7	5	5	12	11	13	8	10	16	10	7	4	8	10	248
Shimane	23	21	21		13		24	15	13	17	7	10	12	6	7	6	5	10	5	6	8	5	7	3	244
Okayama	58	48	50		53		48	55	29	26	20	25	30	34	38	49	31	26	41	40	36	27	21	33	818
Hiroshima	105	104	107		62		99	62	87	68	39	50	44	51	52	33	43	50	32	43	44	55	35	30	1,295
Yamaguchi	63	41	28		41		36	31	26	33	19	17	31	30	28	22	50	38	17	27	22	13	15	17	645
Tokushima	65	36	39		40		23	24	23	20	12	21	22	33	25	23	17	17	21	17	17	12	17	25	549
Kagawa	40	46	49		41		51	43	35	25	29	18	15	27	24	15	17	24	23	22	20	8	13	7	592

Ehime	48	57	58		41		26	44	33	29	20	18	18	30	12	16	35	26	28	22	28	29	31	20	669
Kochi	46	51	32		22		30	24	26	26	25	19	14	19	14	16	9	19	25	18	14	14	13	15	491
Fukuoka	234	267	228		182		201	190	191	139	98	100	109	120	109	127	110	120	114	114	103	109	106	85	3,156
Saga	22	25	17		9		27	22	25	17	20	8	21	18	30	12	24	14	11	20	21	14	13	18	408
Nagasaki	73	55	44		46		27	46	25	14	18	14	24	21	20	23	22	23	22	18	14	19	13	22	603
Kumamoto	59	83	55		41		47	41	57	45	20	23	36	39	44	28	39	34	64	49	46	28	48	35	961
Oita	45	34	21		39		36	36	28	23	15	18	32	27	18	19	17	18	11	23	14	21	11	15	521
Miyazaki	27	47	24		28		28	31	24	27	17	21	20	21	12	15	9	19	13	17	14	23	10	28	475
Kagoshima	62	61	61		49		43	36	36	43	33	14	21	34	48	59	39	36	39	42	40	29	29	35	889
Okinawa	55	67	52		61		73	82	77	85	89	62	70	77	77	97	83	58	107	94	99	81	86	84	1,716
total	4,462	4,593	4,556	4,531	3,990	4,069	3,937	4,106	3,858	3,338	2,322	2,179	2,654	2,720	2,854	2,996	2,526	2,431	2,427	2,463	2,351	2,110	2,288	2,172	75,933

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

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.html> (MHLW, Japan)

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Fatal accidents in steel frame/reinforced concrete house construction work in Japan in 1999-2022

steel frame/reinforced concrete house construction work industry Code No.030201

woodworking machine						1					1													2	
construction machine	10	6	7	10	6	9	9	7	4	7	5	2	3	2	4	7	3	6	3	4	4	1	3	5	127
metal manufacturing machine					1							1												2	
general machine	1													1										2	
mobile silviculture machine																									
crane	8	6	9	2	5	3	1	4	6	3	2	1	6	3	5	1		3	3	2	4	2	2	2	83
conveying machine	4	6	6	6	5	5	5	7	4	2	4	3	7	1	4	4	3	2	5	3	2	3	3	1	95
vehicle	8	22	3	5	5	4	8	7	3	3	3	6	4	2	5	7	5	3	3	3		3	2	2	116
pressure vessel		1																						1	
chemical facilities																									
welding equipment			1	1	1	1						1				1	1		1			1			9
kiln, caldron																									
electric equipment		2	3			1	1	1	1	1	1		1	1											13
human power machine, tools																	1								1
tools	7	4	3	9	4	3	3	5	2	3	1	2	1		5	2	1	3	5	4	3	1	5	2	78
other equipments, facilities	1	1						1													1			1	5
temporary buildings, establishments	57	63	64	43	55	45	35	42	39	32	23	25	22	24	18	33	19	20	24	26	16	15	19	19	778
hazards, harmful substances	1					1		1	1	1							1	1				1	1	1	10
materials	2	2	1	4	1	4	1	4	1	3	2	1		1	1				3			3	2		36
load	1			1	1	2	1	1	1	1		1			2					2	2			2	18
natural environment	6	7	5	6	4	7	6	9	7	1	3	4	9	3	1	2	4	3	3	1	2	3	9		105
other causal agent					1		1										1						2		5

no causal agent										1				2		1	2			1	1	1		1	10
unclassifiable				1							1	1				1			1						5
total	106	120	102	88	90	86	71	89	69	58	46	48	53	39	46	59	41	41	51	46	35	34	48	36	1,502

Causal agents (small) of fatal accidents in steel frame/reinforced concrete house construction work in 1999-2022

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	2022	total	
engine				1																					1	
power transmission mechanism																										
circular sawing machine					1					1																2
band sawing machine																										
wood planer machine																										
hollow chisel mortiser, wood borer																										
chamfering machine, router, woodworking milling machine																										
chain saw																										
other woodworking machines																										
leveling, transporting or loading machine	2		1	2					1						1			1					1	1		10
excavating machine	1	2	2	6	2	4	3	5	2	3	2	2	1		1		2	2			3	1		3	47	
foundation work machine	1	2	2		1	1	3						1	1		1	1								14	
hardening machine	2	1		2				1		1									1	1			1		10	

railway vehicle																									
other vehicles									1															1	
boiler																									
pressure vessel																									
other pressure vessels		1																						1	
chemical facilities																									
gas welding equipment																					1			1	
arc welding equipment			1	1	1	1					1				1	1		1						8	
other welding equipment																									
kiln, caldron																									
industrial dryer																									
other kiln, caldron																									
transmission		2				1	1	1	1	1	1		1	1										10	
electric power facilities			2																					2	
other electrical equipment			1																					1	
human power cranes																	1							1	
human power hauling equipment																									
human power machine																									
hand tool																									
ladder	5	2	2	5	4	2	2	3	2	1		1			3	2	1	2	3	2	2	1	3	2	50
slinging tool	2	2	1	3		1	1	1		2	1	1			1			1	2	2			2		23
other tools				1				1					1		1						1				5

other equipment, facilities	1	1						1													1			1	5
scaffolding	24	17	25	10	22	15	12	8	14	15	9	9	6	6	6	14	7	4	7	2	7	8	3	4	254
timbering			2	1		1					1					1							1		7
stairs, landing stage	1	1		1	1	1			1						1	2				2	1			1	13
opening	4		6	1	3	3	2	9	5	4		2	2	3	1	2	4	3	2	4	2	1	5	1	69
roof, beam, haze, crossbeam, principal rafter	11	19	11	11	12	13	9	8	9	6	4	4	6	6	4	6	6	4	7	12	3	3	3	3	180
working platform, boot board	2	4	2	3	4	2	2	3	2	3	1	1	1		1	1		1	2				1	1	37
passage		1				2		2				2		2		1				1			1		12
building, establishment	15	18	17	13	10	5	8	9	7	3	6	7	5	5	5	4	2	5	1	4	2	2	5	6	164
other temporary buildings, establishments		3	1	3	3	3	2	3	1	1	2		2	2		2		3	5	1	1	1		3	42
explosive substance																									
inflammable substance								1																	1
inflammable gas	1																1						1		3
harmful substance						1			1	1								1					1	1	6
radiation																									
other hazards, harmful substances																									
metal material	1	1	1	2		2	1	2	1	3	2			1	1				2			2	2		24
lumber, bamboo	1			1		1		2																	5
stone, sand, substance					1	1													1						3
other materials		1		1								1										1			4

load				1	1	2	1	1	1	1		1			2				2	2			2	17	
machine/equipment as load	1																							1	
natural ground, rock	1		2	3		3		3	2	1	1		2	1		1	2				1	1	3	27	
standing tree								1									1							2	
water				1									6									1		8	
abnormal environment		2			1																1		3	7	
high/cold temperature environment	4	4	3	2	3	3	6	3	5		2	4	1	2		1	2	2	3	1		1	3	55	
other environments	1	1				1		2							1									6	
other causal agent					1		1										1						2	5	
no causal agent										1				2		1	2			1	1	1		10	
unclassifiable				1							1	1				1			1					5	
total	106	120	102	88	90	86	71	89	69	58	46	48	53	39	46	59	41	41	51	46	35	34	48	36	1,502

Workers age of fatal accidents in steel frame/reinforced concrete house construction work 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	2	4	3	1	2	2	3		3		2	1	1	2	2	2	2	2	1	1		1	1	1	39
20-29	22	23	17	21	20	10	13	13	10	9	10	4	9	3	3	8	3	4	2	7	6	6	8	5	236
30-39	8	17	20	15	10	14	8	14	9	9	12	7	7	7	9	10	8	9	9	9	2	5	6	5	229
40-49	19	26	17	8	11	9	12	13	12	13	3	7	12	7	11	7	7	7	14	8	6	6	8	5	248
50-59	29	26	30	24	24	23	23	26	18	13	10	15	10	11	9	11	8	7	11	5	10	9	13	6	371
60 years old or more	26	24	15	19	23	28	12	23	17	14	9	14	14	9	12	21	13	12	14	16	11	7	12	14	379

total	106	120	102	88	90	86	71	89	69	58	46	48	53	39	46	59	41	41	51	46	35	34	48	36	1,502
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Workers' number of workplace of fatal accidents in steel frame/reinforced concrete house construction work 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	54	62	35	49	46	46	33	52	41	29	24	24	33	18	24	26	18	21	32	26	17	20	24	20	774
10-29	30	38	41	24	25	28	23	20	18	19	14	19	10	18	16	20	15	10	18	12	11	10	14	10	463
30-49	14	7	16	9	13	8	6	9	5	5	5	5	8	2	2	5	6	7	1	1	5	4	6	2	151
50-99	5	6	7	2	4	1	7	4	3	2	2		1	1	2	5	1	1		5	1		2	2	64
100-299	3	6	3	2	2	2	1	3	2	2	1		1		1	3	1	2		2			2	2	41
300 workers or more		1		2		1	1	1		1					1						1				9
total	106	120	102	88	90	86	71	89	69	58	46	48	53	39	46	59	41	41	51	46	35	34	48	36	1,502

Month of fatal accidents in steel frame/reinforced concrete house construction work 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	13	5	7	6	9	3	7	6	3	3	2	5	1	5	4	1	4	2	1	5	2	4	1	6	105
February	12	9	8	10	4	7	9	6	4	5	5	3	6	6	3	2	5	1	5	2	4	2	2	3	123
March	8	10	7	7	9	6	5	6	6	2	2	3	8	4	3	5	2	6	2	3	2	4	4	4	118
April	8	9	5	8	3	4	6	7	2	4	3	2	1	2	1	4	3	2	7	2	2	2	4	2	93
May	7	6	13	5	12	2	2	6	2	2	3	1	4	1	3	5	1	2	3	6	3		4	2	95
June	7	11	5	4	3	4	6	7	8	2	5	2	2	6	6	5	2	4	2	3	2	1	3	4	104
July	6	16	8	8	9	14	9	13	5	8	5	3	4	6	5	6	5	3	8	6	5	4	9	4	169

August	9	17	13	9	12	12	7	8	12	4	6	10	3	4	3	6	5	4	9	5	4	5	4	3	174
September	6	8	6	3	7	11	1	6	6	8	4	4	6	3	3	8	7	2	3	6	5	7	5		125
October	13	8	14	7	10	10	6	10	7	9	2	1	7	1	3	7	5	8	4	3	2	2	4	2	145
November	6	8	6	7	5	5	6	10	7	7	5	7	3		6	6	1	5	4	2	3	1	5	4	119
December	11	13	10	14	7	8	7	4	7	4	4	7	8	1	6	4	1	2	3	3	1	2	3	2	132
total	106	120	102	88	90	86	71	89	69	58	46	48	53	39	46	59	41	41	51	46	35	34	48	36	1,502

Prefecture of fatal accidents in steel frame/reinforced concrete house construction work 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	8	9	3	3	4	2	3	4	2	5	2	5	1	2	3	3		3		2	2	3	2	1	72
Aomori		1												1				1	1		1			2	7
Iwate	1		1	2	2	1							1		1	1		2	1	1			2		16
Miyagi	1	4	2	1	3		1	3		2	1		8	1	2		1	1	2	2	1	2	1		39
Akita	3				1	1		1	1		1				2	1	1		1						13
Yamagata	3		1				1					3			2			1		1		1			13
Fukushima	3				1	3	1		1	2				1	1	1		1	2	2		1	2	2	24
Ibaraki	2	1	2	5	1	3		1	1	1		3	2		1	2	1		1	2		1	1	2	33
Tochigi	1		3	1			1	1	2	1					1	1				1					13
Gunma			1					1		2			1		1	1	1			1			1		10
Saitama	2	8	6	4	7	4	4	5	2	4	1	2	3	5	1	3	1	1	3	1	1		1		69
Chiba	3	6	8	8	6	4	2	2	4	2		3	2	2	3	2	3			1	1	1	1	3	67
Tokyo	10	12	21	13	9	8	9	10	9	4	7	4	7	9	11	8	6	4	10	7	6	4	12	10	210

Kagawa	4			3		1	1	2	2					1				1	1			1			17
Ehime	1	2		3		1	1	1	2	1			1							3	1	1			18
Kochi	1	1					1		1	1					2		1								8
Fukuoka	3	7	5	4	4	1	4		6	3	3	5	2	2	1	4	2	3	1	1	1	2		3	67
Saga		1					2		1										1						5
Nagasaki		1	2	1	1	1		2		1					1										10
Kumamoto	3	6		1	1		2			1						1	1	3			2			21	
Oita			1		1	1		2						1											6
Miyazaki	3		1		1			2			1		1										1	1	11
Kagoshima	1	2	1			2		2		3	1	2		2		1	1		1	1	1				21
Okinawa		1	2	1	1	1	1	4	3	2	2	1	2		1	1	2		4	1	3	3	2		38
total	106	120	102	88	90	86	71	89	69	58	46	48	53	39	46	59	41	41	51	46	35	34	48	36	1,502

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

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