

Fatal and non-fatal accidents in soft drinks in Japan in 1999-2022

soft drinks industry Code No.010106

Type of accidents in soft drinks 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	17	19	14	17	17	21	16	19	21	15	20	12	14	21	13	10	16	16	13	17	22	11	17	17	395
falling to same level	23	22	25	20	27	28	15	21	31	24	19	27	23	23	21	18	17	21	16	27	16	12	23	25	524
crash	5	7	6	5	5	6	10	7	9	10	6	6	9	5	6	4	7	5	5	6	6	2	9	5	151
struck by flying or falling object	6	6	6	8	3	5	7	4	7	3	3	7	2	9	1	4	4	3	2	6	7	4	3	1	111
collapse	2	3	3	5	1	2		4	2	2	4	2	2	3	1	1		4	2	2			2		47
crashed by	5	3	8	10	7	6	5	4	10	5	3	5	5	2	4	3	5	6	2	8	4	5	11	3	129
caught in/between	40	43	37	37	35	38	38	33	30	31	30	23	27	10	30	23	20	20	28	22	22	29	24	25	695
cut	11	12	10	9	5	6	6	9	8	6	2	8	6	10	5	5	3	7	3	6	2	5	9	9	162
injury to the sole of the foot	1									1				1											3
drown																						1			1
contact to high/low-	19	15	4	11	15	9	13	12	16	15	7	7	7	4	7	5	7	7	10	8	12	8	11	11	240

temperature																									
contact to harmful substance	2	5	3	3	1	3	3	2	3	2	3		3	2		4	1	2	5	3	1	4	3	1	59
electric shock																							1		1
explosion																									
burst		1	1		1					1														1	5
fire														1			1								2
traffic accident (public road)	3	4		4	1	2		4	3	2		1	1	2		3		2			2	3		1	38
traffic accident (others)										1			1												2
reaction to motion/improper motion	11	12	16	14	7	7	11	8	11	8	8	8	8	15	13	12	8	14	11	13	10	20	22	10	277
others							1			1						1	1	1	1	1		1			8
unclassifiable												1													1
total	145	152	133	143	125	133	125	127	151	127	105	107	108	108	101	93	90	108	98	119	104	105	135	109	2,851

Causal agents (large) of fatal and non-fatal accidents in soft drinks 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	31	34	30	31	26	27	29	21	27	23	17	20	18	16	24	11	21	14	14	17	20	20	20	21	532

human power machine								1																1	
hand tool			3		2			2	2	1	1		1		1	1		2		1		3	7	3	30
ladder			7		6		6	4	11	11	7	6	6	10	6	4	5	7	4	8	6	6	5	5	130
slinging tool							1	1															2		4
other tools			3		7		6	13	6	3	1	6	4	5	6	7	5	6	6	5	9	5	7	5	115
other equipment, facilities			5		6		9	13	11	9	7	8	8	5	7	5	7	3	5	8	4	4	4	8	136
scaffolding													1			1			1					1	4
timbering																									
stairs, landing stage			5		5		7	4	6	8	4	3	4	5	1	5	7	2	2	5	8	7	9	6	103
opening			1				2							3	1				1					1	9
roof, beam, haze, crossbeam, principal rafter			1											1				2							4
working platform, boot board			5		6		5	5	4		4	6	3	3	4	3	2	2	3	1	5	2	5	2	70
passage			12		9		6	7	14	14	13	10	9	10	10	5	9	15	10	14	10	6	11	13	207
building, establishment			1		2		6	5	5	2	2	8	5	4	3	2	1	2	2	3	4	2	7	1	67
other temporary buildings,			3		4		3	4	3	6	6	2	3	5		1	5	3		6	3	2	2	1	62

environment										2							1						3		
high/cold temperature environment			1				1	2	2	1		2		1	3	1	1	2		2	2	1	3	2	27
other environments			2					1		1		2	2	1	2	1	1	2	2	4		1	1	3	26
other causal agent			1		1		1	2	3	3	1	2	1	1			2		2	1			3	1	25
no causal agent			4		6		6	3	4	5	3	4	2	6	6	10	2	5	6	7	2	13	4	1	99
unclassifiable												1		1										2	
total	145	152	133	143	125	133	125	127	151	127	105	107	108	108	101	93	90	108	98	119	104	105	135	109	2,851

Workers age of fatal and non-fatal accidents in soft drinks 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	3	2	3	5	4	6	3	5	2	6	4	4	3	3	2	2	2		2	3	3	3			70
20-29	42	40	27	27	23	34	36	16	25	24	16	12	22	20	10	14	11	19	17	16	14	12	21	16	514
30-39	18	27	29	30	32	31	31	31	41	23	33	25	31	27	24	24	18	26	20	8	18	30	22	18	617
40-49	31	40	30	35	14	22	18	27	33	29	15	32	21	24	31	22	22	23	27	36	29	29	29	32	651
50-59	33	33	35	38	41	34	30	32	40	34	25	21	21	24	22	20	25	21	19	33	21	14	31	28	675
60 years old or more	18	10	9	8	11	6	7	16	10	11	12	13	10	10	12	11	12	19	13	23	19	17	32	15	324
total	145	152	133	143	125	133	125	127	151	127	105	107	108	108	101	93	90	108	98	119	104	105	135	109	2,851

Workers' number of workplace of fatal and non-fatal accidents in soft drinks 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	19	13	20	19	15	16	11	16	7	14	8	4	13	10	5	4	6	10	10	14	3	6	11	4	258
10-29	22	35	33	38	26	23	24	23	25	16	15	15	26	23	20	20	12	22	12	12	17	11	14	10	494
30-49	19	24	12	16	17	22	16	15	27	20	20	14	14	11	12	11	9	16	12	20	12	10	19	23	391
50-99	22	22	22	27	21	21	22	22	33	23	11	20	13	24	22	17	28	23	17	17	29	30	30	27	543
100-299	56	48	38	38	34	39	43	43	51	48	44	44	32	34	37	31	29	32	37	48	41	37	49	39	972
300 workers or more	7	10	8	5	12	12	9	8	8	6	7	10	10	6	5	10	6	5	10	8	2	11	12	6	193
total	145	152	133	143	125	133	125	127	151	127	105	107	108	108	101	93	90	108	98	119	104	105	135	109	2,851

Month of fatal and non-fatal accidents in soft drinks 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	9	11	6	9	11	14	8	11	11	15	13	12	10	12	8	5	6	4	7	11	10	5	10	11	229
February	13	15	4	6	14	9	7	8	10	6	11	6	7	11	10	6	7	5	7	9	12	8	9	8	208
March	14	16	13	15	15	12	13	15	13	13	3	8	8	7	8	8	9	4	7	7	7	16	12	7	250
April	14	10	14	12	12	10	11	14	17	16	7	5	11	5	6	5	7	12	6	13	12	4	10	11	244
May	15	16	10	9	11	8	11	8	13	6	9	9	7	14	6	14	5	7	12	10	5	15	16	8	244
June	8	7	17	17	11	17	7	14	15	10	10	9	14	12	16	5	10	12	11	7	8	6	15	10	268

July	9	14	11	18	14	13	21	14	18	14	6	10	10	8	10	7	10	8	6	13	9	7	14	9	273
August	13	17	18	12	5	16	15	8	11	12	6	10	10	8	10	7	6	11	11	11	10	10	10	13	260
September	12	13	9	14	5	7	8	11	10	10	10	7	9	11	9	8	9	8	7	6	8	5	11	8	215
October	14	9	11	12	11	8	9	8	14	10	10	13	8	13	7	8	5	19	10	13	8	5	10	7	242
November	14	16	12	8	5	5	7	11	9	6	11	8	6	3	8	7	7	11	7	7	7	15	8	7	205
December	10	8	8	11	11	14	8	5	10	9	9	10	8	4	3	13	9	7	7	12	8	9	10	10	213
total	145	152	133	143	125	133	125	127	151	127	105	107	108	108	101	93	90	108	98	119	104	105	135	109	2,851

Prefecture of fatal and non-fatal accidents in soft drinks 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	9	13	5		5		6	4	7	2	6	4	5	3	1	2	4	5	3	9	3	4	7	3	110
Aomori	1	3	4		5		1	3	3	5	2	6	7	7	5	3	5	2	2	3	5	4	5	9	90
Iwate	1		2				2	1	1			1	2		1	1									12
Miyagi			2		1		2		2			3	2	1				1			2				16
Akita		1							1	1					1	1		1		1				1	8
Yamagata	1	5	1		3		4	2	4	4	3	5	1	2	1		2		5	1	3	4	5	3	59
Fukushima	1	2	1				1		1	2	2				2		1	2			2				17
Ibaraki	4	7	4		1		2	3	3	3		2	1	1		3	2	1	2	1	1		2	2	45
Tochigi	2	2	4					4	1	2		3	2	3	4	1	3	1				2	2	4	40
Gunma	5	6	8		8		4	7	6	3	6	1	7	3	4	7	3	4	2	6	7	5	2	7	111

Saitama	2	7	4		6		3	5	10		2	3	1	5	4	3	3	1	2	5	2	1	2	2	73
Chiba	15	5	4		7		1	3	11	7	5	7	5	5	10	3	8	4	6	8	8	2	6	3	133
Tokyo	4	5	6		1			2	2	2	1	3	1		2	1	2	2	1		4	2	1	1	43
Kanagawa	3	5	4		3		7	6	4	3	3	3	3	6	1	2	2	3	1	4	6	1	5		75
Niigata									1	2	1				1			4	1	1		1		1	13
Toyama	2	3	2		1		4	2	3	3	1	2	3	2		2	1	4	3	1	2	3	3	3	50
Ishikawa	1								1																2
Fukui	1		1		1		1		1						1						1				7
Yamanashi	2	1	2		2		7	6	5	5	4	3	2	10	2	6	3	7	6	7	10	8	8	6	112
Nagano	9	12	10		9		3	8	8	12	7	6	3	4	7	1	3	2	5	6	6	5	10	16	152
Gifu	6	4	2		2		3	1	3	5	2	3	1	4	2	1	2	4	1	5	1	2	2	2	58
Shizuoka	11	11	13		13		8	8	9	9	9	12	8	10	4	9	6	11	9	8	6	13	9	8	204
Aichi	8	3	4		4		3	10	5	3	7	1	3	1	4	2	2	6	3	5	3	9	12	3	101
Mie	1	1	2		5		3	2	5	3	3	3	6	1	1	3	3	4	1	7	5	4	3	4	70
Shiga		1	1		4		2		1	1		1	1	1	1	2	2	3	2	1	1	2	2	2	31
Kyoto	9	1	7		6		8	5	4	5	4	5	1		2	1	1	1	3		3	2	4	1	73
Osaka	6	4	5		1		5	5	4	6	4	3	3	2	2	4	1	1		2		1	6	3	68
Hyogo	7	9	2		3		3	5	4	4	8	2	4	1	5	2	4	4	4	5	2	3	4	2	87
Nara	1		1		1									1					1				1		6
Wakayama	3	5	5		4		3	7	5	3		2	2	3	6	8	3	5	2	3	5	4	6	4	88
Tottori										1				2								1	1		5

Shimane	1		3		2		1	2		1		2	1		3	1	1	2		3	1	3	1	1	29
Okayama		1	3				1		3			1					1		2	2		1	1		16
Hiroshima	3	2	5		5		6	2	1	1		1	3	3	1	5	1	4	5	2	3	2	9	2	66
Yamaguchi	3	2	1		1		6		4	5	5	3	3	4	3	1			1	3	3	2	2	3	55
Tokushima		1			1			1				1									1				5
Kagawa																									
Ehime	2	4	3					3	3	1		1	2	2	3		1		1	2		2			30
Kochi	1	1					4		3	1	2	1	1	1	3		3	1	2	1		1		1	27
Fukuoka	5	4	5		5		3	6	11	5	8	5	4	5	6	4	3	2	6	4	4	2	1	2	100
Saga	1	1	3				2	3	3	3	1	2	5	3		5	1	3	5	2		3	3	1	50
Nagasaki		1	1		1			1					2	1						1		1			9
Kumamoto	1	3			7		1	1	1	1	1	1		1	1		1	2		1	1			2	26
Oita	5	7	3				5	3	1	6	4	4	6	2	2	1	2	3	4	4	1	1	3	2	69
Miyazaki	7	6			3		3	1	2	2	1			3		3	1	1		2		4	4	1	44
Kagoshima	1	2			3		3	1	1				3	1	2	3	5	3	2	2	1		2	1	36
Okinawa		1			1		4	4	3	5	3	1	4	4	3	2	4	4	5	1	1		1	3	54
total	145	152	133	143	125	133	125	127	151	127	105	107	108	108	101	93	90	108	98	119	104	105	135	109	2,851

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.

drown																					1			1
contact to high/low-temperature		1																						1
contact to harmful substance						1				1														2
electric shock																								
explosion																								
burst																								
fire																								
traffic accident (public road)	1		1														1							3
traffic accident (others)																								
reaction to motion/improper motion																								
others															1		1							2
unclassifiable																								
total	1	2	2		1		1			1	3	1		1	1	2					2			23

Causal agents (large) of fatal accidents in soft drinks in 1999-2022

environment										1													1	
high/cold temperature environment																								
other environments																								
other causal agent																								
no causal agent															1		1							2
unclassifiable																								
total	1	2	2		1		1			1	3	1		1	1	2					2		23	

Workers age of fatal accidents in soft drinks 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																									
20-29							1																		1
30-39	1										1	1			1			4							8
40-49		1			1						1					1									4
50-59		1	1							1	1			1				1							6
60 years old or more			1													1							2		4
total	1	2	2		1		1			1	3	1		1	1	2		5				2		23	

Shimane																								
Okayama																								
Hiroshima														1									1	
Yamaguchi																								
Tokushima		1																					1	
Kagawa																								
Ehime									1														1	
Kochi																								
Fukuoka																								
Saga																								
Nagasaki																								
Kumamoto										1							1						2	
Oita																								
Miyazaki															1								1	
Kagoshima																								
Okinawa																								
total	1	2	2		1		1			1	3	1		1	1	2		5				2		23

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

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