Fatal and non-fatal accidents in agricultural food products in Japan in 1999-2021

agricultural food products industry Code No.010103

Type of accidents in agricultural food products 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	70	56	51	51	47	56	58	55	44	51	37	52	42	35	49	34	36	31	49	52	35	46	35	1,072	fall from height
falling to same level	104	90	117	100	107	120	110	121	116	124	124	116	101	112	113	112	92	112	131	140	123	99	119	2,603	falling to same
crash	24	18	20	20	21	18	31	17	25	16	15	20	16	20	16	10	19	13	17	19	17	18	21	431	crash
struck by flying or falling object	39	33	27	25	11	17	26	30	36	23	23	18	17	21	25	16	27	30	21	20	18	23	19	545	struck by flying or falling object
collapse	8	5	5	5	6	8	5	7	5	7	4	6	4	8	6	6	3	4	1	6	5	4	4	122	collapse
crashed by	15	14	24	7	17	14	20	11	16	17	10	13	12	17	17	17	16	11	14	15	14	14	17	342	crashed by
caught in/between	173	152	174	155	141	136	144	121	109	122	113	125	114	111	102	110	85	89	106	102	84	76	79	2,723	caught in/between
cut	90	72	84	74	65	65	51	58	61	53	75	53	47	46	53	39	45	40	46	47	41	46	39	1,290	cut
injury to the sole of the foot	2		2		1			1	1		1	1				1		1	1	1		1		14	injury to the sole of the foot
drown											1													1	drown
contact to high/low- temperature	21	22	24	21	18	22	17	16	14	14	18	20	22	24	15	20	15	14	16	12	19	15	13	412	contact to high/low- temperature

contact to harmful																									contact to
substance	2	1	4	3	3	3	4	4	5	1	5	3	3	3	3	2	4	3	3	1	3	7	2	72	harmful
																									substance
electric shock			2	1		1									1			1		1				7	electric shock
explosion								1													1			2	explosion
burst		2			1		1			3														7	burst
fire		1										1											1	3	fire
traffic accident	1.6	1.4		10		1	7	_		1.5			12					7			4				traffic accident
(public road)	16	14	9	10	4	l		5	6	15	3	8	12	6	9	2	5		4	4	4	2	2	155	(public road)
traffic accident		1	2												1									4	traffic accident
(others)		'	2																					II • I	(others)
reaction to																									reaction to
motion/improper	27	40	31	30	22	29	32	30	39	37	23	24	38	38	20	30	34	28	34	37	31	26	32	712	motion/improper
motion																									motion
others	3	1	4	1		2	1	4	3	2	2	2		2	1	2	1		3	2			11	47	others
unclassifiable										1					2							2		5	unclassifiable
total	594	522	580	503	464	492	507	481	480	486	454	462	428	443	433	401	382	384	446	459	395	379	394	10,569	total

Causal agents (large) of fatal and non-fatal accidents in agricultural food products in 1999-2021

Causal (L) agents	1000	2000	2001	2002	2003	2004	2005	2006	2007	2008	2000	2010	2011	2012	2013	2014	2015	2016	2017	2018	2010	2020	2021	total	Causal (L)
Causar (E) agents		2000	2001	2002	2003	2004	2003	2000	2007	2000	2003	2010	2011	2012	2013	2014	2013	2010	2017	2010	2019	2020	2021	II .	agents
machine	184	162	187	152	142	132	135	130	112	110	106	123	106	115	102	96	84	96	98	80	79	81	73	2,685	machine
crane, conveying																									crane,

machine	89	83	81	75	63	58	77	53	61	59	57	67	61	52	56	54	35	45	49	60	45	38	43	1,361	conveying
																									machine
other equipment	94	98	103	86	82	94	83	82	100	109	94	88	90	80	91	82	93	68	77	86	84	89	85	2,038	other
other equipment		96	103	80	02) -	65	02	100	109	74	00		80	91	02				80	04	09	85	2,038	equipment
tomporani buildings																									temporary
temporary buildings, establishments	123	89	114	108	105	127	130	122	121	124	128	115	98	108	116	98	88	104	136	152	107	99	113	2,625	buildings,
establishments																									establishments
substance, material	30	16	24	24	18	15	16	20	19	12	22	14	16	14	13	19	14	14	16	13	16	19	10	394	substance,
substance, material	30		24	24	10	13	10	20	19	12	22	14			13		14	14	10	13				394	material
load	43	43	36	30	34	45	40	44	41	39	24	32	31	32	29	27	39	33	35	27	34	29	30	797	load
environment	10	6	15	12	7	5	12	16	8	12	9	11	7	20	10	11	12	9	19	18	14	10	10	263	environment
others	21	25	20	16	13	16	14	14	18	21	14	12	19	22	16	14	17	15	16	23	16	14	30	406	others
total	594	522	580	503	464	492	507	481	480	486	454	462	428	443	433	401	382	384	446	459	395	379	394	10,569	total

Causal agents (middle) of fatal and non-fatal accidents in agricultural food products 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																	1				3	engine
power transmission mechanism	6	9	13	10	6	7	9	9	5		3	7	7	4		5	6	4	4	9	2	2	4	131	power transmission mechanism
woodworking machine		2		1	2		1				1				1		1					1	2	12	woodworking machine

construction machine				1			2			1											1			5	construction
								<u> </u>												<u></u>			<u> </u>		machine
metal manufacturing machine	9	4	1		1	4		1	4		1	1		2	1		1			1		1		32	metal manufacturing machine
general machine	168	147	172	140	133	121	123	120	103	109	101	115	99	109	100	91	76	92	94	69	76	77	67	2,502	general machine
mobile silviculture machine																									mobile silviculture machine
crane	3	4	5	6	5	7	7	3	5	1	2	3	4	1	2	6	1	2		6	3	3	5	84	crane
conveying machine	73	62	68	61	54	49	63	45	47	43	54	53	46	47	45	46	33	36	45	51	37	34	37	1,129	conveying machine
vehicle	13	17	8	8	4	2	7	5	9	15	1	11	11	4	9	2	1	7	4	3	5	1	1	148	vehicle
pressure vessel	1	1	2		2		2		3		3	1	1		1						2	2		21	pressure vessel
chemical facilities		2																						2	chemical facilities
welding equipment			1																					1	welding equipment
kiln, caldron	3	6	4	2	1		4		1	1	3	6	3	3	1	2	2	3			2		1	48	kiln, caldron
electric equipment			1	1						1			1	1	1			2	1	2			1	12	electric equipment
human power machine, tools	28	36	32	30	30	32	17	25	35	33	33	32	25	24	34	23	36	22	29	29	24	33	24	666	human power machine, tools

tools	39	33	43	36	40	46	43	43	37	55	36	36	43	35	38	41	35	31	35	39	40	40	33	897	tools
other equipments,	23	20	20	17	9	16	17	14	24	19	19	13	17	17	16	16	20	10	12	16	16	14	26	391	other equipments, facilities
temporary buildings, establishments	123	89	114	108	105	127	130	122	121	124	128	115	98	108	116	98	88	104	136	152	107	99	113	2,625	temporary buildings, establishments
hazards, harmful substances	7	3	7	4	6	5	7	3	6	2	7	3	4	4	4	5	4	5	9	3	6	8	4	116	hazards, harmful substances
materials	23	13	17	20	12	10	9	17	13	10	15	11	12	10	9	14	10	9	7	10	10	11	6	278	materials
load	43	43	36	30	34	45	40	44	41	39	24	32	31	32	29	27	39	33	35	27	34	29	30	797	load
natural environment	10	6	15	12	7	5	12	16	8	12	9	11	7	20	10	11	12	9	19	18	14	10	10	263	natural environment
other causal agent	11	6	8	4	2	9	7	5	6	7	6	3	5	7	4	4	7	2	4	8	2	2	13	132	other causal agent
no causal agent	8	19	12	11	10	7	7	9	12	14	8	9	14	14	9	9	10	12	12	14	14	11	17	262	no causal agent
unclassifiable	2			1	1									1	3	1		1		1		1		12	unclassifiable
total	594	522	580	503	464	492	507	481	480	486	454	462	428	443	433	401	382	384	446	459	395	379	394	10,569	total

Causal agents (small) of fatal and non-fatal accidents in agricultural food products 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				2	engine
power transmission mechanism		13	6	9	9	5	3	7	7	4		5	6	4	4	9	2	2	4	99	power transmission mechanism
circular sawing machine			1															1	1	3	circular sawing machine
band sawing machine											1									1	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			1																1	2	chain saw
other woodworking machines				1			1						1							3	other woodworking machines
leveling, transporting or loading machine				1													1			2	leveling, transporting or loading machine
excavating machine				1																1	excavating machine
foundation work machine																					foundation work

			 	 							-						-					
hardening machine																						hardening machine
demolition machine																						demolition machine
vehicle for high lift																						vehicle for high lift
work																						work
other construction							1														1	other construction
machines							<u> </u>														<u> </u>	machines
lathe																						lathe
drill press, milling						1															1	drill press, milling
machine																					ľ	machine
grinding machine,			1			1					2	1									5	grinding machine,
buffing machine						<u> </u>																buffing machine
power press																			1		1	power press
forging pressure																						forging pressure
hammer																						hammer
shearing machine																						shearing machine
other metal																						other metal
manufacturing		1			1	2		1	1					1			1				8	manufacturing
machines																						machines
centrifugal machine				1	1	1		1		1	2							2			9	centrifugal machine
mixer, grinder		4	8	4	2		4	1	4	3	5	1		3	3	3			3	1	49	mixer, grinder
roll machine (except																						roll machine (excep
printingroll		1	3		2		3	4	5		2	2	1	3		5	2	1	2	1	37	printingroll
machine)																						machine)
injection molding																						injection molding

machine																						machine
food manufacturing machine		121	87	71	73	67	62	62	69	59	66	55	52	41	61	53	39	47	49	37	1,171	food manufacturing machine
printing machine							1									1					2	printing machine
industrial robot		1											1			1			1		4	industrial robot
other general power machines		45	35	47	42	35	39	33	37	36	34	42	37	29	28	31	28	26	22	28	654	other general power machines
felling machine																						felling machine
mobile logging																						mobile logging machine
skyline yarding machine																						skyline yarding machine
other mobile																						other mobile
silviculture machine																						silviculture machine
crane		2	3	5	3	2	1	1	1	3	1	1	3		1		5	3	2	4	41	crane
mobile crane		1	1					1													3	mobile crane
derrick crane																						derrick crane
elevator, lift		2		1		3			1	1		1	2	1	1		1		1	1	16	elevator, lift
cargo lifting appliance																						cargo lifting appliance
gondola									1												1	gondola
lumberyard																						lumberyard
equipment, logging																						equipment, logging
cableway																						cableway

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simple skyline yarding equipment																							simple skyline yarding equipment
other powered crane			1		1									1								3	other powered crane
truck		12	5		11	5	5	9	9	5	7	9	8	4	9	2	4	6	7	6	7	130	truck
forklift		21	20		17	21	16	10	16	19	11	15	20	22	9	17	21	21	11	14	18	319	forklift
railway equipment																							railway equipment
conveyor		34	29		31	19	25	21	29	29	27	22	15	19	15	15	20	24	15	14	11	414	conveyor
loader																							loader
straddle carrier																							straddle carrier
rough terrain hauler																							rough terrain hauler
other powered conveying machines		1			4		1	3			1	1	2	1		2			4		1	21	other powered conveying machines
cars, bus,		8	4		7	5	7	15	1	10	11	4	9	2	1	7	4	3	4	1	1	104	cars, bus, motorcycle
railway vehicle																			1			1	railway vehicle
other vehicles							2			1												3	other vehicles
boiler		1			1					1	1									1		5	boiler
pressure vessel		1	1		1		3		3										1	1		11	pressure vessel
other pressure vessels			1										1						1			3	other pressure vessels
chemical facilities																							chemical facilities
gas welding																							gas welding

equipment																						equipment
arc welding equipment		1																			1	arc welding equipment
other welding equipment																						other welding equipment
kiln, caldron		2		3			1	2	4	3	3	1		2	2			2		1	26	kiln, caldron
industrial dryer		1						1					2								4	industrial dryer
other kiln, caldron		1	1	1		1			2						1						7	other kiln, caldron
transmission							1								1	1	2			1	6	transmission
electric power facilities		1																			1	electric power
other electrical equipment										1	1	1			1						4	other electrical equipment
human power cranes															1				3	3	7	human power cranes
human power hauling equipment		12	9	4	10	18	16	10	14	11	14	13	9	16	12	11	12	16	13	12	232	human power hauling equipment
human power machine					1	1		1				1	2			2	1			1	10	human power machine
hand tool		20	21	13	14	16	17	22	18	14	10	20	12	20	9	16	16	8	17	8	291	hand tool
ladder		20	21	11	17	7	12	12	18	15	11	18	13	10	8	11	8	9	14	10	245	ladder
slinging tool		2		1	1					1	1			1	1		1				9	slinging tool
other tools		21	19	31	25	30	43	24	18	27	23	20	28	24	22	24	30	31	26	23	489	other tools
other equipment,																						other equipment,

facilities	20)	9	17	14	24	19	19	13	17	17	16	16	20	10	12	16	16	14	26	315	facilities
scaffolding					1									1		2	1				5	scaffolding
timbering																						timbering
stairs, landing stage	12	2	13	24	12	20	13	13	17	7	12	10	10	10	10	19	20	16	12	9	259	stairs, landing stage
opening	2		2	3	1	1	1				1	2		1	3	3	2	1	1		24	opening
roof, beam, haze, crossbeam, principal rafter				2	3	2		1	2	2	1			3	1		3	1	1	1	23	roof, beam, haze, crossbeam, principal rafter
working platform,	30)	16	28	26	21	24	28	24	19	16	23	24	18	20	18	24	22	18	21	420	working platform, boot board
passage	54	1	51	48	55	54	52	67	55	51	54	64	52	35	47	74	69	55	51	59	1,047	passage
building, establishment	12	2	13	17	17	18	24	12	9	12	14	10	7	17	16	17	22	8	9	9	263	building, establishment
other temporary buildings, establishments	4		10	8	7	5	10	7	8	7	10	7	5	3	7	3	11	4	7	14	137	other temporary buildings, establishments
explosive substance				1																	1	explosive substance
inflammable substance									1		1							1			3	inflammable substance
inflammable gas																						inflammable gas
harmful substance	3		1		1	3	1	2	1	2	1	1	2	1	1	2		2	5		29	harmful substance
radiation																						radiation
other hazards,	4		5	6	2	3	1	5	1	2	2	3	3	3	4	7	3	3	3	4	64	other hazards,

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metal material	9	9		6	2	5	7	1	6	4		3	3	10	4	1	1	2	2	3	3	72	metal material
lumber, bamboo	1	I		2		1	1		1	1	4	1	2				1	2	2	2		21	lumber, bamboo
stone, sand, substance	1				2	4		2	3					1	2	2	3	2		1	1	24	stone, sand, substance
other materials	6	5		4	5	7	5	7	5	6	8	6	4	3	4	6	2	4	6	5	2	95	other materials
load	3	35		33	36	40	41	39	24	30	31	32	27	26	38	31	31	25	32	27	30	608	load
machine/equipment as load	1	I		1	4	4				2			2	1	1	2	4	2	2	2		28	machine/equipment as load
natural ground,					1	3	1	1		3	1	1	1		1	1	1					15	natural ground,
standing tree	1	I						1	1	1				1			1	1			1	8	standing tree
water				2		3	1	1		1	1	1	2	1					1	1		15	water
abnormal environment												1										1	abnormal environment
high/cold temperature environment	7	7		1	2	4	1	6	3	3	2	2	4	4	4	1	5	6	8	6	2		high/cold temperature environment
other environments	7	7		4	9	6	5	3	5	3	3	15	3	5	7	7	12	11	5	3	7	120	other environments
other causal agent	8	3		2	7	5	6	7	6	3	5	7	4	4	7	2	4	8	2	2	13	102	other causal agent
no causal agent	1	12		10	7	9	12	14	8	9	14	14	9	9	10	12	12	14	14	11	17	217	no causal agent
unclassifiable				1								1	3	1		1		1		1		9	unclassifiable
total	5	580		464	507	481	480	486	454	462	428	443	433	401	382	384	446	459	395	379	394	8,458	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	15	9	11	9	9	16	11	9	7	4	9	8	10	12	16	4	14	5	3	6	6	5	4	202	19 years old or less
20-29	56	88	68	64	47	53	46	63	54	48	48	49	51	44	43	52	47	39	54	46	37	39	48	1,184	20-29
30-39	67	67	78	84	57	68	64	62	65	69	62	60	60	80	57	55	52	37	53	52	54	60	55	1,418	30-39
40-49	139	106	107	99	99	90	107	79	81	91	92	76	64	67	88	83	65	74	81	93	67	64	84	1,996	40-49
50-59	186	163	213	164	157	158	189	178	168	158	141	152	126	128	115	112	97	111	128	122	104	104	85	3,259	50-59
60 years old or more	131	89	103	83	95	107	90	90	105	116	102	117	117	112	114	95	107	118	127	140	127	107	118	2,510	60 years old or more
total	594	522	580	503	464	492	507	481	480	486	454	462	428	443	433	401	382	384	446	459	395	379	394	10,569	total

Workers' number of workplace of fatal and non-fatal accidents in agricultural food products 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	86	69	104	57	53	64	45	39	57	40	44	46	29	33	34	37	26	26	29	28	20	21	27	1,014	9 workers or less
10-29	132	131	156	132	98	127	114	105	87	110	103	78	87	92	88	78	68	79	86	99	57	90	80	2,277	10-29
30-49	142	106	125	97	107	97	102	99	107	99	99	105	96	110	90	77	79	91	99	86	71	74	79	2,237	30-49
50-99	131	113	108	120	111	106	114	139	111	123	100	125	108	100	120	122	95	100	116	118	110	92	87	2,569	50-99
100-299	93	94	77	87	83	89	102	90	106	102	97	80	95	88	82	76	105	85	105	109	119	92	112	2,168	100-299
300 workers or	10	9	10	10	12	9	30	9	12	12	11	28	13	20	19	11	9	3	11	19	18	10	9	304	300 workers or
more																									more
total	594	522	580	503	464	492	507	481	480	486	454	462	428	443	433	401	382	384	446	459	395	379	394	10,569	total

Month of fatal and non-fatal accidents in agricultural food products 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	57	37	38	42	32	36	35	44	38	37	42	35	41	44	44	34	33	32	37	54	34	28	27	881	January
February	40	39	44	40	42	28	36	41	33	47	38	36	31	46	31	33	27	39	31	38	36	29	34	839	February
March	61	30	56	35	40	57	43	38	49	37	25	49	33	31	34	30	40	29	41	34	32	26	28	878	March
April	35	44	48	44	34	39	43	35	28	40	29	44	35	29	39	38	37	29	35	33	32	35	29	834	April
May	58	39	42	39	30	33	44	49	47	43	41	25	31	33	37	29	27	32	40	27	21	34	44	845	May
June	52	43	49	40	35	47	37	39	35	37	36	34	42	42	29	28	37	21	35	39	29	29	32	847	June
July	52	56	51	32	44	31	53	48	41	37	31	36	32	27	34	39	39	29	32	42	30	31	35	882	July
August	46	48	39	42	38	34	46	44	43	35	47	35	32	40	26	29	28	41	40	38	28	39	35	873	August
September	51	53	50	33	39	45	36	36	33	43	38	45	43	32	34	47	24	22	36	40	39	33	19	871	September
October	45	48	52	59	41	48	56	46	38	39	40	51	35	28	33	27	25	35	32	43	41	32	34	928	October
November	48	45	68	45	47	50	34	35	52	36	40	34	31	44	36	30	37	37	41	40	38	25	32	925	November
December	49	40	43	52	42	44	44	26	43	55	47	38	42	47	56	37	28	38	46	31	35	38	45	966	December
total	594	522	580	503	464	492	507	481	480	486	454	462	428	443	433	401	382	384	446	459	395	379	394	10,569	total

Prefecture of fatal and non-fatal accidents in agricultural food products 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	77	54	69		52		89	64	62	51	56	45	57	41	43	48	54	40	54	61	57	50	36	1,160	Hokkaido
Aomori	4	1	2		6		4	6	2	4	7	8	3	13	7	7	7	10	7	7	11	9	12	137	Aomori

lwate	3	9	8	3	6	5	5	20	6	4	12	8	6	6	1	7	7	10	8	3	5	142	lwate
Miyagi	13	12	9	5	3	7	9	5	7	8	2	2	2	4	5	6	3	11	4	7	7	131	Miyagi
Akita	6	4	1	3	4	5		1	5	2	4	2	1	4	3	4	2	5	2	4	4	66	Akita
Yamagata	17	18	34	15	21	23	27	20	19	25	24	28	18	15	10	15	16	24	19	13	15	416	Yamagata
Fukushima	19	17	22	11	7	24	11	11	9	8	11	8	13	12	8	5	7	6	10	2	9	230	Fukushima
lbaraki	20	11	8	10	11	11	9	10	12	6	13	15	12	13	14	15	16	13	12	13	17	261	lbaraki
Tochigi	10	8	8	6	3	6	2	11	5	10	6	17	9	7	10	9	10	12	7	5	5	166	Tochigi
Gunma	26	13	20	34	21	15	14	19	35	15	13	12	13	12	10	8	12	9	9	16	6	332	Gunma
Saitama	14	8	11	25	19	10	19	22	11	16	17	12	10	15	17	18	11	6	10	13	11	295	Saitama
Chiba	4	4	12	3	1	6	6	7	6	9	5	4	6	4	8	4	14	6	8	2	5	124	Chiba
Tokyo	7	13	3	5	9	5	5	6	2	5	2	5	5	2	3	7	6	2	6	7	6	111	Tokyo
Kanagawa	7	10	10	7	8	7	10	4	8	6	6	6	13	4	7	5	6	5	3	3	8	143	Kanagawa
Niigata	12	13	13	11	9	10	10	11	5	17	12	13	13	9	7	10	9	7	12	6	7	216	Niigata
Toyama	2	2	2	1	2		3	1		3	1	2	5	4	2			1		2	1	34	Toyama
Ishikawa	1		2	2			1	1	1	1		1		1				2	2	1		16	Ishikawa
Fukui	2	2	1	5	2		2			2	1	1	1	3	1	1		3	2		1	30	Fukui
Yamanashi	7	2	4	6	4	6	5	3	4	4	5	3	4	4	2	3	4	4		1	1	76	Yamanashi
Nagano	45	28	24	15	29	30	28	25	23	24	24	20	22	22	19	9	16	24	25	22	25	499	Nagano
Gifu	8	10	11	9	9	6	7	11	11	8	9	11	7	5	5	7	6	14	8	11	8	181	Gifu
Shizuoka	36	43	45	7	9	5	14	8	9	7	4	12	4	8	7	6	10	8	11	6	11	270	Shizuoka
Aichi	26	24	25	15	26	15	11	17	12	17	9	11	11	18	8	17	18	13	12	12	11	328	Aichi
Mie	12	10	14	3	9	8	12	6	5	8	12	4	10	4	5	6	5	3	10	9	1	156	Mie
Shiga	11	4	2	3	4	4	2	7	6	2	5	3	2	5	7	1	3	3		1	4	79	Shiga

Kyoto	9	8	8	3	14	18	12	12	10	12	12	17	11	9	10	5	11	12	8	6	5	212	Kyoto
Osaka	14	11	14	15	11	9	9	14	11	11	13	6	8	3	7	5	3	5	4	2	5	180	Osaka
Hyogo	7	9	3	19	10	8	14	9	12	7	6	6	13	5	9	11	11	9	16	10	12	206	Hyogo
Nara	7	6	11	1	3	5	9	1	1	2	1	1		3	1	1	4	4	4			65	Nara
Wakayama	28	32	25	23	23	23	25	27	22	25	20	17	29	22	19	18	25	23	12	15	23	476	Wakayama
Tottori	5	3	1	2	2	4		2	2	3	2	1	2		1	1	1	1	2			35	Tottori
Shimane	1	5	2	2			1		1		2				2		4	3	2			25	Shimane
Okayama	8	4	5	3	10	1	2	2	2	2	1	2	2		1	7	2	3		3	1	61	Okayama
Hiroshima	9	7	2	8	15	11	5	10	5	3	5	10	10	8	11	15	18	12	7	8	9	188	Hiroshima
Yamaguchi	6	3	6	4	5	5		1	4	1	2	1	3	3	2	1	2	1	1	1		52	Yamaguchi
Tokushima	27	13	13	11	6	12	5	9	10	8	16	8	15	17	7	9	11	10	6	6	6	225	Tokushima
Kagawa	5	8	1	1	4	5	4	3	5	4	3	1	4	4	2	3	5	5		1	2	70	Kagawa
Ehime	5	7	12	12	11	5	8	15	6	9	11	10	3	12	5	7	4	7	9	6	4	168	Ehime
Kochi	12	6	4	3	7	9	4	9	10	16	8	12	7	1	6	3	2	10	8	4	5	146	Kochi
Fukuoka	9	21	16	25	18	10	14	13	12	21	16	23	9	17	15	16	19	16	13	8	19	330	Fukuoka
Saga	4	5	3	9	10	10	19	10	3	4	4	6	4	3	4	6	7	5	6	6	8	136	Saga
Nagasaki	4	5	5	7	4	8	7	2	10	7	2	5	4	4	4	3	5	5	7	7	12	117	Nagasaki
Kumamoto	12	9	16	11	11	9	7	9	13	10	4	12	7	6	5	7	13	15	7	14	14	211	Kumamoto
Oita	15	8	12	4	6	13	13	19	6	5	6	7	12	9	4	5	7	12	6	9	6	184	Oita
Miyazaki	8	18	36	15	16	19	17	18	17	19	16	24	26	23	31	20	19	27	12	29	23	433	Miyazaki
Kagoshima	10	11	19	22	10	19	29	19	27	31	21	20	24	15	16	26	31	15	17	26	24	432	Kagoshima
Okinawa		3	6	2	2			1	1	2			3	1		2						23	Okinawa
total	594	522	580	464	507	481	480	486	454	462	428	443	433	401	382	384	446	459	395	379	394	9,574	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

Fatal accidents in agricultural food products in Japan in 1999-2021

agricultural food products industry Code No.010103

Type of fatal accidents in agricultural food products 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						1	1		1				1			1		2		1				8	fall from height
falling to same level																	1							1	falling to same
																									level
crash																									crash
struck by flying or										1				1										2	struck by flying
falling object																									or falling object
collapse																									collapse
crashed by																1			1					2	crashed by
caught in/between	1	1		1					2			4		1					2					13	caught
caught m/ between												 													in/between

																			cut
																			injury to the sole
																			of the foot
										1								1	drown
																			contact to
														1				1	high/low-
																			temperature
																			contact to
												1			1			2	harmful
																			substance
		1																1	electric shock
																			explosion
																			burst
																			fire
_							_											,	traffic accident
	3			I								I						_	(public road)
																			traffic accident
																			(others)
																			reaction to
																			motion/improper
																			motion
																			others
																			unclassifiable
2	4	1	1	1	1	1	1	3	1	1		_	_			1		20	total

Causal agents (large) of fatal accidents in agricultural food products 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		1	1				1		1			2				1			3	1				11	machine
crane, conveying machine	2	3		1	1			1	1			2	1	3			1	1	1						crane, conveying machine
other equipment						1			1								1							3	other equipment
temporary buildings, establishments											1							1							temporary buildings, establishments
substance, material																			1					1	substance, material
load										1														1	load
environment														1		1								2	environment
others																									others
total	2	4	1	1	1	1	1	1	3	1	1	4	1	4		2	2	2	5	1				38	total

Causal agents (middle) of fatal accidents in agricultural food products in 1999-2021

																									Causal (M)	
Causal (M) agents	1999	2000 2	2001 2	2002 2	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total		

																				agents
engine																				engine
power transmission mechanism								1											1	power transmission mechanism
woodworking machine																				woodworking machine
construction machine																				construction machine
metal manufacturing machine																				metal manufacturing machine
general machine		1	1			1				2			1			3	1		10	general machine
mobile silviculture machine																				mobile silviculture machine
crane										1									1	crane
conveying machine	2			1	1			1		1	1	2		1	1	1			12	conveying machine
vehicle		3					1					1							5	vehicle
pressure vessel																				pressure vessel
chemical facilities																				chemical facilities

welding equipment																	welding
																	equipment
kiln, caldron																	kiln, caldron
electric equipment																	electric
																	equipment
human power machine,																	human power
tools																	machine, tools
tools			1		1											2	tools
																	other
other equipments,											1					1	equipments,
facilities																	facilities
																	temporary
temporary buildings,							1					1				2	buildings,
establishments																	establishments
																	hazards,
hazards, harmful													1			1	harmful
substances																	substances
materials																	materials
load						1										1	load
																	natural
natural environment									1	1						2	environment
																	other causal
other causal agent																	agent
The second are the																	no causal
no causal agent																	agent

unclassifiable																						unclassifiable
total	2	4	1	1	1	1	1	1	3	1	1	4	1	4	2	2	2	5	1		38	total

Causal agents (small) of fatal accidents in agricultural food products 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																									engine
power transmission mechanism									1															1	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																									other woodworking

machines												machines
leveling,												leveling,
transporting or												transporting or
loading machine												loading machine
excavating machine												excavating machine
foundation work												foundation work
machine												machine
hardening machine												hardening machine
demolition machine												demolition machine
vehicle for high lift												vehicle for high lift
work												work
other construction												other construction
machines												machines
lathe												lathe
drill press, milling												drill press, milling
machine												machine
grinding machine,												grinding machine,
buffing machine												buffing machine
power press												power press
forging pressure												forging pressure
hammer												hammer
shearing machine												shearing machine
other metal												other metal
manufacturing												manufacturing

machines															machines
centrifugal machine															centrifugal machine
mixer, grinder							1							1	mixer, grinder
roll machine (except printingroll machine)															roll machine (except printingroll machine)
injection molding															injection molding machine
food manufacturing machine				1			1				2			4	food manufacturing machine
printing machine															printing machine
industrial robot															industrial robot
other general power machines	1	1							1		1	1		5	other general power machines
felling machine															felling machine
mobile logging machine															mobile logging machine
skyline yarding machine															skyline yarding machine
other mobile silviculture machine															other mobile silviculture machine
crane															crane
mobile crane															mobile crane
derrick crane															derrick crane

		=	=			 	=	=	$\overline{}$	 =	$\overline{}$		 	=			 	 		
elevator, lift										1									1	elevator, lift
cargo lifting																				cargo lifting
appliance																				appliance
gondola																				gondola
lumberyard																				lumberyard
equipment, logging																				equipment, logging
cableway																				cableway
simple skyline																				simple skyline
yarding equipment																				yarding equipment
other powered																				other powered
crane																				crane
truck	1				1							1							3	truck
forklift	1			1				1				1		1	1	1			7	forklift
railway equipment																				railway equipment
conveyor										1	1								2	conveyor
loader																				loader
straddle carrier																				straddle carrier
rough terrain hauler																				rough terrain hauler
other powered																				other powered
conveying machines																				conveying machines
cars, bus,		3					1					1							5	cars, bus,
motorcycle		٥										1							J	motorcycle
railway vehicle																				railway vehicle
other vehicles																				other vehicles

	 \square		\Box		\Box	 \Box	\square	 	<u> </u>			\Box	 		
boiler															boiler
pressure vessel															pressure vessel
other pressure															other pressure
vessels															vessels
chemical facilities															chemical facilities
gas welding															gas welding
equipment															equipment
arc welding															arc welding
equipment															equipment
other welding															other welding
equipment															equipment
kiln, caldron															kiln, caldron
industrial dryer															industrial dryer
other kiln, caldron															other kiln, caldron
transmission															transmission
electric power															electric power
facilities															facilities
other electrical															other electrical
equipment															equipment
human power															human power
cranes															cranes
human power															human power
hauling equipment															hauling equipment

human power														human power
machine														machine
hand tool														hand tool
ladder			1		1								2	ladder
slinging tool														slinging tool
other tools														other tools
other equipment,									1				1	other equipment,
scaffolding														scaffolding
timbering														timbering
stairs, landing stage														stairs, landing stage
opening														opening
roof, beam, haze, crossbeam, principal rafter										1			1	roof, beam, haze, crossbeam, principal rafter
working platform, boot board														working platform, boot board
passage														passage
building, establishment						1							1	building, establishment
other temporary														other temporary
buildings,														buildings,
establishments														establishments
explosive substance														explosive substance

inflammable														inflammable
substance														substance
inflammable gas														inflammable gas
harmful substance														harmful substance
radiation														radiation
other hazards,										1			1	other hazards,
metal material														metal material
lumber, bamboo														lumber, bamboo
stone, sand,														stone, sand,
substance														substance
other materials														other materials
load					1								1	load
machine/equipment														machine/equipment
as load														as load
natural ground,														natural ground,
rock														rock
standing tree								1					1	standing tree
water														water
abnormal							1						1	abnormal
environment													<u> </u>	environment
high/cold														high/cold
temperature														temperature
environment														environment

other environments																						other environments
other causal agent																						other causal agent
no causal agent																						no causal agent
unclassifiable																						unclassifiable
total	2	4	1	1	1	1	1	1	3	1	1	4	1	4	2	2	2	5	1		38	total

Workers age of fatal accidents in agricultural food products 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																	1							1	19 years old or less
20-29			1				1																	2	20-29
30-39												1		1					1					3	30-39
40-49	1	2		1				1	1							1	1	1	2					11	40-49
50-59	1	2				1			1			3		2					1					11	50-59
60 years old or					1				1	1	1		1	1		1		1	1	1				10	60 years old or
more					•				•	•	•		•	•		ľ		•	•	•				II I	more
total	2	4	1	1	1	1	1	1	3	1	1	4	1	4		2	2	2	5	1				38	total

Workers' number of workplace of fatal accidents in agricultural food products 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		2								7	9 workers or less
10-29		2			1				1	1		1							1					7	10-29

30-49		1	1								1	2	1	2		1	1	1			11	30-49
50-99						1	1							1			1				4	50-99
100-299				1				1				1				1		3	1		8	100-299
300 workers or	1																				1	300 workers or
more																						more
total	2	4	1	1	1	1	1	1	3	1	1	4	1	4	2	2	2	5	1		38	total

Month of fatal accidents in agricultural food products 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							2	January
February									1					1			1							3	February
March	1			1		1			1			1							1					6	March
April										1						1		1	1					4	April
May			1										1					1	1					4	May
June	1	1														1								3	June
July		1							1		1	2							1					6	July
August														1						1				2	August
September					1																			1	September
October		1					1																	2	October
November		1												1					1					3	November
December												1		1										2	December
total	2	4	1	1	1	1	1	1	3	1	1	4	1	4		2	2	2	5	1				38	total

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				4	Hokkaido
Aomori																									Aomori
lwate	1																							1	lwate
Miyagi																									Miyagi
Akita																									Akita
Yamagata																									Yamagata
Fukushima		1						1																2	Fukushima
Ibaraki																									Ibaraki
Tochigi										1							1							2	Tochigi
Gunma									1		1					1			1					4	Gunma
Saitama																									Saitama
Chiba									1										1					2	Chiba
Tokyo																									Tokyo
Kanagawa																			1					1	Kanagawa
Niigata					1																			1	Niigata
Toyama																									Toyama
Ishikawa																									Ishikawa
Fukui																									Fukui
Yamanashi			1																					1	Yamanash

Nagano														1		1	Nagano
Gifu										1						1	Gifu
Shizuoka														1		1	Shizuoka
Aichi								1								1	Aichi
Mie				1									1			2	Mie
Shiga																	Shiga
Kyoto									1							1	Kyoto
Osaka																	Osaka
Hyogo					1			1								2	Hyogo
Nara																	Nara
Wakayama	1									1						2	Wakayama
Tottori																	Tottori
Shimane																	Shimane
Okayama																	Okayama
Hiroshima																	Hiroshima
Yamaguchi																	Yamaguchi
Tokushima		1						1								2	Tokushima
Kagawa																	Kagawa
Ehime																	Ehime
Kochi																	Kochi
Fukuoka												1				1	Fukuoka
Saga																	Saga
Nagasaki																	Nagasaki

Kumamoto																						Kumamoto
Oita														2							2	Oita
Miyazaki		1																			1	Miyazaki
Kagoshima									1			1			1						3	Kagoshima
Okinawa																						Okinawa
total	2	4	1	1	1	1	1	1	3	1	1	4	1	4	2	2	2	5	1		38	total

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

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