

Industrial accidents in ship building in Japan in 1999-2020

ship building industry Code No.011501

Type of accidents in ship building 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	191	188	183	196	192	194	172	190	184	186	156	142	98	134	95	98	125	129	118	110	119	110
falling to same level	74	72	76	81	83	69	76	62	68	76	80	66	42	42	44	46	55	56	54	66	53	40
crash	45	34	39	33	43	46	33	40	37	31	36	33	28	27	20	18	28	13	17	15	25	22
struck by flying or falling object	95	121	125	117	102	104	95	106	97	121	78	78	64	72	66	61	59	60	57	49	60	56
collapse	31	33	30	27	29	24	24	26	41	31	26	26	17	22	16	18	15	20	23	14	15	16
crashed by	54	55	61	59	39	46	42	47	56	60	44	46	37	26	23	42	25	33	22	35	26	26
caught in/between	114	133	116	88	100	96	92	100	113	91	101	87	78	68	62	59	68	55	71	78	61	70
cut	52	39	38	38	21	27	28	22	32	35	21	21	23	11	15	18	22	23	17	9	20	19
injury to the sole of the foot	1	4	2	6	0	-	1	3	2	1	1	1	0	0	0	1	1	3	1	1	2	1
drown	0	1	0	-	2	1	2	0	2	0	0	0	12	1	0	1	0	0	0	0	0	0
contact to high/low-temperature	20	17	21	23	20	17	29	28	15	25	25	20	21	15	24	16	22	22	25	20	16	21
contact to harmful substance	8	7	3	9	6	3	6	5	5	4	2	4	3	0	3	4	7	2	8	3	0	6
electric shock	5	4	2	2	0	2	2	4	7	7	1	0	4	2	1	0	5	1	0	1	1	4
explosion	8	3	3	3	5	7	3	1	9	2	0	1	4	6	0	8	2	0	3	1	2	0
burst	1	0	0	3	2	1	1	2	1	1	0	0	2	0	0	0	1	0	1	1	3	0
fire	5	4	1	2	1	4	5	7	4	6	10	1	5	7	5	6	3	2	1	3	1	4
traffic accident (public road)	3	11	4	1	3	17	2	8	3	5	2	8	1	3	3	2	6	0	2	2	4	3
traffic accident (others)	0	1	0	1	1	-	0	1	0	0	0	0	1	1	1	0	1	0	0	0	0	0
reaction to motion/improper motion	47	30	36	26	31	19	35	19	37	25	28	24	22	19	13	17	15	19	16	27	23	28
others	5	2	5	3	3	6	3	5	4	2	1	2	4	3	0	2	4	1	0	1	2	31

unclassifiable	0	0	0	-	1	-	0	0	0	2	0	0	0	2	0	0	0	0	1	1	0	0
total	759	759	745	718	684	683	651	676	717	711	612	560	466	461	391	417	464	439	437	437	433	457

Causal agents (middle) of industrial accidents in ship building 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	2	2	1	1	2	-	1	0	4	0	0	0	1	0	0	1	0	0	0	2	0	1
power transmission mechanism	1	3	0	6	1	2	3	2	4	2	3	3	4	2	0	1	0	3	3	0	2	3
woodworking machine	25	14	14	16	7	8	7	7	5	9	4	4	2	1	4	3	8	6	4	4	5	2
construction machine	6	5	8	3	3	7	1	7	6	6	1	7	2	5	2	1	3	3	4	2	8	6
metal manufacturing machine	43	41	44	45	34	38	34	23	36	35	26	28	33	23	20	22	20	22	24	19	17	19
general machine	10	9	9	12	7	9	6	8	11	8	11	8	9	8	9	6	4	6	2	4	3	2
mobile silviculture machine																	0	0	0	0	0	0
crane	53	48	68	52	56	44	51	60	76	68	53	49	43	46	30	35	26	26	34	27	36	38
conveying machine	19	24	28	25	25	20	34	27	29	21	23	21	14	17	10	15	20	12	11	16	15	16
vehicle	28	27	30	18	27	38	22	22	26	30	28	21	13	19	11	23	19	15	16	20	15	14
pressure vessel	2	2	2	3	1	-	1	1	0	1	0	1	0	0	1	1	0	0	4	1	2	0
chemical facilities	0	0	0	-	0	-	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	24	16	17	21	14	15	25	21	19	23	20	11	18	21	19	20	18	11	18	17	9	9
kiln, caldron	1	0	1	-	0	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
electric equipment	5	5	5	4	2	3	4	3	7	8	2	2	7	3	2	1	2	2	2	0	4	0
human power machine, tools	38	30	41	21	31	39	27	18	8	23	17	18	19	16	20	8	14	10	10	14	18	11
tools	98	103	100	88	79	84	83	85	87	109	89	74	49	56	49	48	49	59	45	57	55	62
other equipments, facilities	22	26	18	30	16	24	11	20	17	20	16	10	10	10	20	16	11	14	14	15	15	20
temporary buildings,	212	224	202	207	239	225	188	187	198	205	185	176	120	138	116	113	144	132	139	133	142	126

machine																0	0	0	0	0	0
other mobile silviculture machine																0	0	0	0	0	0
crane			56	46	46	54	63	63	46	42	34	40	24	26	23	18	26	23	26	28	
mobile crane			4	4	1	2	6	1	3	5	4	2	2	3	1	3	1	1	3	4	
derrick crane			1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
elevator, lift			0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
cargo lifting appliance			1	0	2	0	1	0	0	1	0	0	0	1	0	1	0	0	1	0	
gondola			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
lumberyard equipment, logging cableway			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
simple skyline yarding equipment															0	0	0	0	0	0	
other powered crane			6	5	1	4	6	4	4	1	5	4	4	5	2	4	7	3	6	6	
truck			10	8	14	8	14	5	12	10	4	6	6	4	9	5	2	5	4	2	
forklift			13	9	10	13	13	11	7	8	8	10	1	9	7	4	6	4	7	7	
railway equipment			1	2	1	0	0	0	1	0	0	0	0	1	0	1	0	1	0	1	
conveyor			1	1	2	4	0	1	1	1	1	1	1	1	0	1	1	3	2	0	
loader			1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
straddle carrier			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
rough terrain hauler			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
other powered conveying machines			2	5	7	2	2	4	2	2	1	0	1	0	4	1	2	3	2	6	
cars, bus, motorcycle			7	6	3	8	8	6	1	8	2	7	4	3	6	2	3	2	5	4	
railway vehicle			0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
other vehicles			23	21	19	14	18	24	27	13	11	12	7	19	13	13	13	18	10	10	
boiler			0	0	1	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	
pressure vessel			1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	
other pressure vessels			1	1	0	0	0	1	0	1	0	0	0	0	0	0	3	1	1	0	
chemical facilities			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
gas welding			4	8	14	11	6	10	10	4	11	11	8	7	11	2	12	8	3	5	

equipment																						
arc welding equipment			12	5		10	9	11	11	10	7	7	9	11	11	6	9	6	8	5	3	
other welding equipment			1	1		1	1	2	2	0	0	0	1	0	2	1	0	0	1	1	1	
kiln, caldron			0	0		2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
industrial dryer			0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
other kiln, caldron			1	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
transmission			1	1		2	0	2	4	2	0	2	2	0	0	1	1	1	0	2	0	
electric power facilities			0	1		0	1	4	3	0	1	1	0	1	0	1	0	0	0	2	0	
other electrical equipment			4	0		2	2	1	1	0	1	4	1	1	1	0	1	1	0	0	0	
human power cranes			9	10		8	2	0	6	2	2	1	4	2	2	2	2	3	2	9	4	
human power hauling equipment			5	4		4	4	2	3	1	4	1	3	4	2	2	2	1	1	2	0	
human power machine			2	2		1	2	1	1	1	2	1	0	0	1	1	3	1	1	0	0	
hand tool			25	15		14	10	5	13	13	10	16	9	14	3	9	3	5	10	7	7	
ladder			49	47		44	43	36	49	35	31	23	29	24	26	27	32	32	31	26	35	
slinging tool			26	17		17	26	24	28	27	16	12	15	11	11	7	13	6	11	10	13	
other tools			25	15		22	16	27	32	27	27	14	12	14	11	15	14	7	15	19	14	
other equipment, facilities			18	16		11	20	17	20	16	10	10	10	20	16	11	14	14	15	15	20	
scaffolding			41	31		39	39	34	38	25	26	13	23	15	20	25	31	27	26	25	19	
timbering			0	1		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
stairs, landing stage			18	25		19	17	21	22	37	17	14	14	11	18	24	24	16	13	28	12	
opening			10	13		9	9	4	10	8	9	7	11	6	5	6	3	5	7	3	10	
roof, beam, haze, crossbeam, principal rafter			0	3		0	5	1	1	0	2	2	1	0	1	1	1	0	1	0	1	
working platform, boot board			15	27		17	21	18	20	17	21	7	21	9	18	12	10	15	18	15	12	
passage			25	33		21	11	18	19	27	22	17	18	23	15	25	24	23	22	31	25	
building, establishment			76	91		62	58	76	73	58	61	47	30	37	29	38	21	41	34	29	36	

19 years old or less	19	23	11	20	13	14	20	15	15	23	20	18	9	14	5	9	14	6	7	5	10	11
20-29	101	113	90	94	101	102	104	127	124	131	104	102	112	84	87	76	88	91	95	80	75	83
30-39	84	99	109	84	97	80	97	109	119	132	119	120	91	113	71	75	113	94	90	107	103	115
40-49	151	161	141	158	102	127	92	87	89	78	76	63	62	64	67	80	77	86	79	93	100	89
50-59	281	250	262	236	242	237	216	219	227	212	155	138	99	86	62	70	79	66	69	58	63	82
60 years old or more	123	113	132	126	129	123	122	119	143	135	138	119	93	100	99	107	93	96	97	94	82	77
total	759	759	745	718	684	683	651	676	717	711	612	560	466	461	391	417	464	439	437	437	433	457

Workers' number of workplace of industrial accidents in ship building 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	267	313	295	283	262	247	260	236	272	237	216	195	141	149	120	177	171	142	146	164	139	158
10-29	260	223	248	212	219	220	207	215	227	228	202	175	161	171	139	125	147	159	119	127	147	126
30-49	81	76	82	84	65	68	46	70	72	82	53	60	54	51	42	38	50	44	46	44	43	41
50-99	56	61	39	38	50	46	55	48	43	50	46	32	39	33	37	29	40	33	44	39	41	39
100-299	43	32	26	36	39	28	31	32	52	41	38	41	37	18	22	25	22	24	27	23	18	25
300 workers or more	52	54	55	65	49	74	52	75	51	73	57	57	34	39	31	23	34	37	55	40	45	68
total	759	759	745	718	684	683	651	676	717	711	612	560	466	461	391	417	464	439	437	437	433	457

Month of industrial accidents in ship building 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	67	54	58	46	51	58	50	53	54	65	71	38	35	34	37	27	37	28	37	40	33	29
February	58	67	51	62	61	55	52	45	49	67	58	45	32	41	35	38	38	29	32	31	33	35
March	70	67	77	59	49	50	66	55	70	64	56	42	59	49	39	29	37	50	42	35	43	42
April	67	72	71	72	58	64	57	64	48	48	49	42	37	37	36	27	35	39	29	36	38	38
May	62	55	49	61	53	56	41	53	66	47	48	40	40	41	25	24	45	41	40	29	34	29
June	60	57	61	54	59	57	57	66	52	66	47	59	42	34	25	27	41	24	38	47	43	44
July	62	60	71	71	72	77	51	62	61	61	55	49	36	47	35	41	38	44	39	49	38	64
August	68	69	69	49	51	49	71	61	75	62	56	34	41	43	27	42	43	33	40	39	29	38
September	77	70	72	53	56	57	60	68	61	63	46	77	42	30	34	50	33	42	43	28	39	46
October	62	56	67	61	61	56	49	52	67	58	30	35	40	47	37	30	42	39	40	40	43	26
November	57	68	46	71	61	53	51	53	57	63	50	58	28	32	35	44	33	45	28	34	25	41
December	49	64	53	59	52	51	46	44	57	47	46	41	34	26	26	38	42	25	29	29	35	25

total	759	759	745	718	684	683	651	676	717	711	612	560	466	461	391	417	464	439	437	437	433	457
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Prefecture of industrial accidents in ship building 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	26	36	31		21		20	27	24	19	23	12	19	10	23	18	16	23	14	14	12	12
Aomori	12	3	7		8		11	4	12	8	5	10	8	3	5	7	6	8	6	2	6	6
Iwate	4	8	6		7		1	2	1	3	3	4	3	9	3	6	1	3	1	3	3	1
Miyagi	10	19	19		10		13	17	14	14	12	13	22	13	15	8	13	13	12	14	11	15
Akita	0	0	0		0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yamagata	1	0	1		0		2	1	0	1	0	1	0	0	0	0	1	0	0	0	0	1
Fukushima	2	6	1		4		4	0	1	1	1	2	1	1	1	2	2	0	0	0	0	1
Ibaraki	1	1	1		1		0	1	0	0	0	1	0	1	1	1	1	0	0	0	0	0
Tochigi	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gunma	0	0	1		0		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Saitama	0	0	0		1		0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0
Chiba	14	15	13		13		13	10	9	12	11	7	4	12	4	3	5	3	6	2	5	3
Tokyo	9	4	6		1		1	2	1	0	2	0	2	1	0	2	1	1	1	2	1	3
Kanagawa	31	32	37		30		24	26	32	33	20	33	24	21	25	12	18	19	20	20	16	17
Niigata	4	2	4		4		6	4	5	6	4	5	0	1	2	2	1	1	0	1	2	2
Toyama	1	1	2		0		1	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0
Ishikawa	6	2	7		2		0	1	0	1	2	1	0	0	2	1	1	2	3	1	1	1
Fukui	1	0	0		0		0	0	1	0	1	0	0	1	0	0	3	0	0	0	1	0
Yamanashi	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nagano	0	0	0		0		0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0
Gifu	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shizuoka	21	9	7		8		10	11	20	18	11	6	8	9	11	9	8	10	3	12	9	7
Aichi	10	9	10		7		7	15	21	22	10	7	10	6	6	3	11	6	5	2	9	8
Mie	27	16	20		18		16	19	15	20	13	9	7	8	10	4	12	5	9	7	9	4
Shiga	1	1	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Kyoto	2	4	6		3		0	1	3	5	5	2	4	0	0	0	5	0	3	5	2	3
Osaka	8	7	5		13		8	7	7	2	3	4	5	4	0	4	5	3	4	4	1	6
Hyogo	41	47	41		32		32	30	38	32	19	25	14	25	13	15	18	19	12	14	11	17
Nara	0	0	0		0		0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
Wakayama	6	10	8		5		7	4	6	6	5	2	3	3	4	3	5	4	4	2	3	5
Tottori	1	0	3		1		0	1	1	3	0	1	0	0	0	0	0	0	2	1	0	2

Shimane	8	3	5	0	0	2	0	1	0	0	0	1	0	1	4	1	0	2	0	0
Okayama	11	6	19	8	7	5	8	9	12	10	5	8	5	10	8	1	14	4	5	4
Hiroshima	128	136	137	142	131	129	127	142	96	108	88	92	67	76	76	83	77	78	100	85
Yamaguchi	31	32	28	30	24	25	27	31	31	14	11	14	14	13	16	10	16	12	14	11
Tokushima	22	13	10	9	11	19	16	15	19	11	8	7	7	3	8	9	6	8	5	4
Kagawa	45	45	35	32	39	42	55	39	45	29	20	24	18	23	20	23	17	18	24	29
Ehime	63	83	91	100	97	69	94	94	63	65	60	52	41	53	61	49	52	47	52	54
Kochi	20	24	20	22	15	22	19	23	19	23	13	11	7	17	13	10	11	14	14	15
Fukuoka	11	17	15	7	17	8	16	15	12	12	10	4	11	10	8	8	10	11	8	8
Saga	5	4	7	4	7	11	9	14	8	7	10	10	9	13	13	13	11	21	16	9
Nagasaki	88	83	65	78	56	71	61	49	67	74	54	57	42	55	62	57	63	55	51	60
Kumamoto	29	20	22	9	10	21	9	13	4	10	7	11	9	11	6	12	13	16	11	37
Oita	46	47	39	45	48	55	51	49	70	40	34	30	31	24	30	34	32	37	25	15
Miyazaki	3	1	2	0	0	0	1	0	1	2	2	3	0	0	1	1	1	1	1	1
Kagoshima	10	11	12	9	8	11	9	9	13	6	8	6	4	4	4	7	8	4	5	11
Okinawa	0	2	2	0	5	2	2	1	1	2	1	3	0	3	1	0	0	1	0	0
total	759	759	745	684	651	676	717	711	612	560	466	461	391	417	464	439	437	437	433	457

Industrial accidents mean fatal and non-fatal injuries with work absence of 4 days and more. Data of 2011 year include Industrial accidents caused by Great East Japan Earthquake in 2011.

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

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Fatal accidents in ship building in Japan in 1999-2020

ship building industry Code No.011501

Type of fatal accidents in ship building 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	6	5	8	9	4	4	7	10	5	2	4	6	3	5	4	3	2	3	1	5	2	2
falling to same level	1	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0
crash	1	0	0	0	1	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0
struck by flying or	0	0	2	0	2	4	1	3	0	5	3	1	1	1	1	0	2	0	0	1	0	3

construction machine	2	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0
metal manufacturing machine	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
general machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mobile silviculture machine																	0	0	0	0	0	0
crane	2	0	3	0	3	1	0	3	5	1	1	2	1	0	1	0	0	2	1	2	0	1
conveying machine	1	0	0	2	0	1	0	1	1	2	0	1	0	2	1	1	0	0	1	3	0	1
vehicle	0	2	0	2	1	0	2	0	2	0	0	1	1	0	0	1	0	1	0	1	1	0
pressure vessel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
chemical facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	0	0	1	0	0	0	1	1	4	2	0	1	0	3	0	0	3	1	2	1	0	1
kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric equipment	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0
human power machine, tools	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tools	1	1	1	1	0	0	1	3	0	3	5	0	1	1	2	0	0	0	0	3	0	0
other equipments, facilities	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1
temporary buildings, establishments	4	5	9	5	4	5	6	8	5	4	5	6	4	5	5	3	2	2	0	3	2	5
hazards, harmful substances	3	2	2	1	5	3	1	1	6	2	1	0	2	0	0	1	0	0	0	1	0	2
materials	0	0	3	1	1	1	1	2	0	3	0	0	2	1	0	0	3	0	0	0	0	0
load	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2	0	0	0	1	1
natural environment	0	2	0	0	1	1	0	0	0	2	0	0	12	1	2	0	0	0	1	0	1	2
other causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
unclassifiable	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
total	13	13	21	14	18	14	13	22	23	21	13	13	25	16	11	7	10	7	7	14	7	16

stone, sand, substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
load	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	1	1
machine/equipment as load	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
natural ground, rock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
standing tree	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
water	0	1	0	0	1	1	0	0	0	0	0	0	11	1	0	0	0	0	0	0	0	0
abnormal environment	0	1	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	0	0	2
high/cold temperature environment	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0
other environments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
unclassifiable	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
total	13	13	21	14	18	14	13	22	23	21	13	13	25	16	11	7	10	7	7	14	7	16

Workers age of fatal accidents in ship building 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	0	0	1	0	0	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	1
20-29	0	1	3	2	1	1	3	5	4	2	1	1	4	0	2	1	2	0	1	1	1	1
30-39	1	0	5	0	2	0	2	2	2	2	2	2	1	3	0	1	3	1	2	5	1	3
40-49	1	3	1	4	0	4	1	3	3	1	2	2	5	2	3	1	0	1	0	2	1	4
50-59	6	2	7	5	11	4	3	7	9	7	6	3	10	5	1	1	1	2	0	2	0	3
60 years old or more	5	7	4	3	4	4	3	4	5	9	1	4	5	6	5	3	4	3	4	4	4	4
total	13	13	21	14	18	14	13	22	23	21	13	13	25	16	11	7	10	7	7	14	7	16

Workers' number of workplace of fatal accidents in ship building 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	4	4	6	3	6	5	6	6	5	4	2	2	5	5	3	4	6	3	2	4	3	6

Tochigi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gunma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saitama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chiba	0	1	1	1	0	0	2	0	0	0	0	0	3	0	0	2	0	0	0	0	0	0
Tokyo	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
Kanagawa	0	1	0	1	0	0	0	2	1	0	1	1	1	0	0	0	0	0	1	0	0	0
Niigata	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Toyama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ishikawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukui	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yamanashi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nagano	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gifu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shizuoka	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0
Aichi	0	0	0	1	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Mie	0	1	1	0	1	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
Shiga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyoto	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
Osaka	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Hyogo	0	0	1	0	0	0	0	3	1	0	1	0	3	0	0	0	2	0	0	0	0	0
Nara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wakayama	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Tottori	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shimane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Okayama	0	0	2	1	2	0	0	0	1	0	1	0	1	0	0	1	0	1	0	0	0	0
Hiroshima	1	3	3	1	4	5	3	5	3	7	2	5	2	3	2	1	2	3	4	2	4	1
Yamaguchi	1	1	0	0	0	1	1	1	1	1	1	0	1	0	2	0	1	0	0	0	1	0
Tokushima	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0
Kagawa	1	0	2	3	1	3	1	2	2	2	1	0	3	3	1	0	0	0	0	0	0	3
Ehime	6	0	7	0	3	3	2	2	3	3	3	2	2	0	2	0	1	1	0	0	0	4
Kochi	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Fukuoka	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Saga	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	1
Nagasaki	0	1	1	1	0	0	1	3	2	0	2	0	3	2	1	1	1	0	1	2	1	4
Kumamoto	0	0	1	1	0	1	0	1	0	0	0	1	0	1	0	0	0	1	1	0	0	0

Oita	2	1	0	2	1	0	1	3	1	0	4	1	0	0	0	1	1	0	0	0	1	0
Miyazaki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kagoshima	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Okinawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	13	13	21	14	18	14	13	22	23	21	13	13	25	16	11	7	10	7	7	14	7	16

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

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