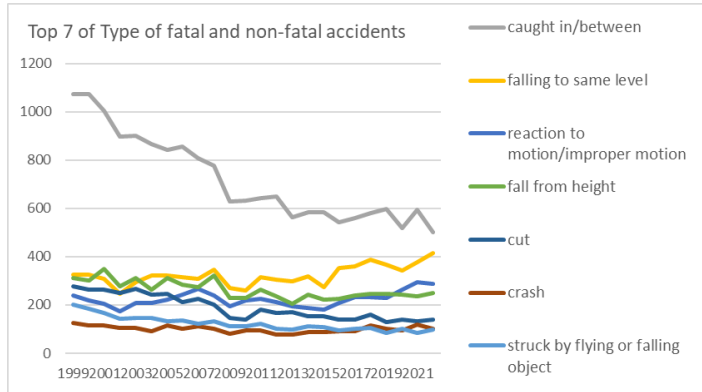
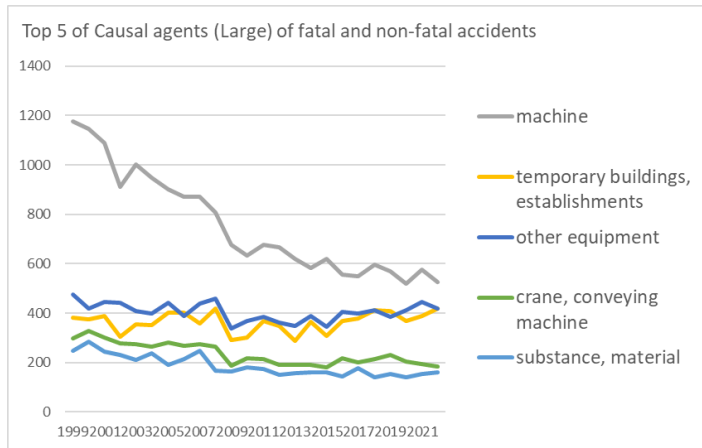


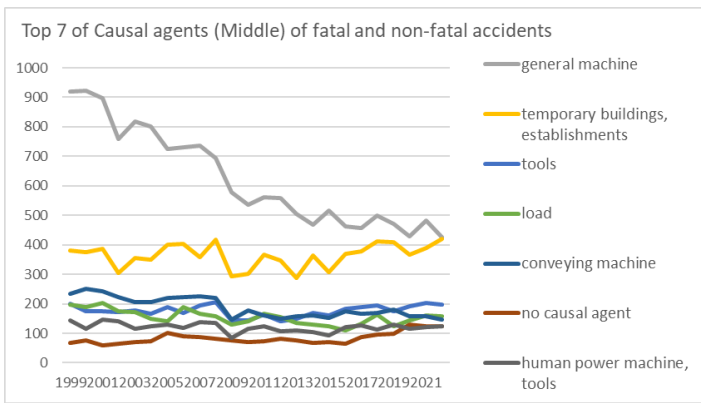
Transition of fatal and non-fatal accidents in 0108 chemical products in Japan (1999-2022)



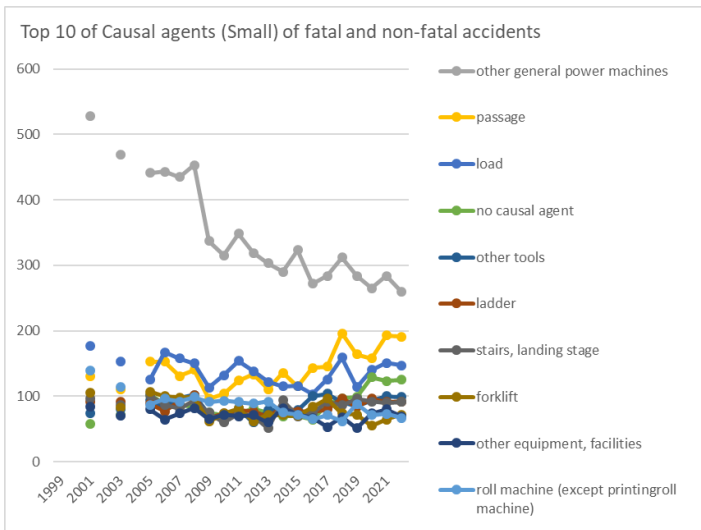
Transition of Top 7 of Type of fatal and non-fatal accidents in 0108 chemical products in Japan (1999-2022)



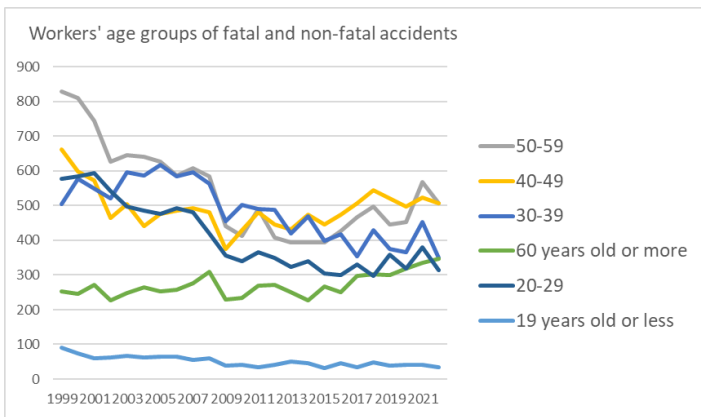
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 0108 chemical products in Japan (1999-2022)



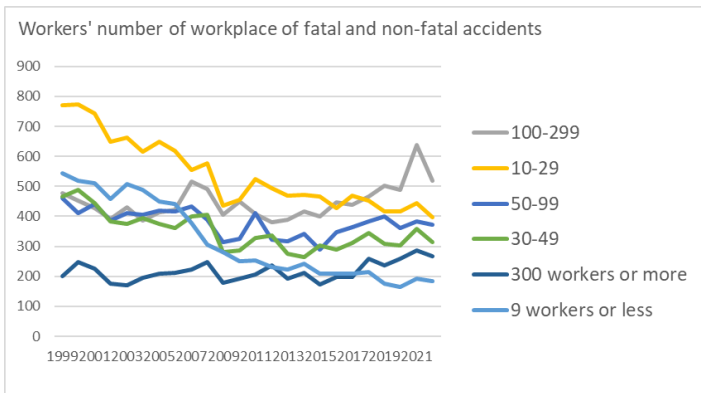
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 0108 chemical products in Japan (1999-2022)



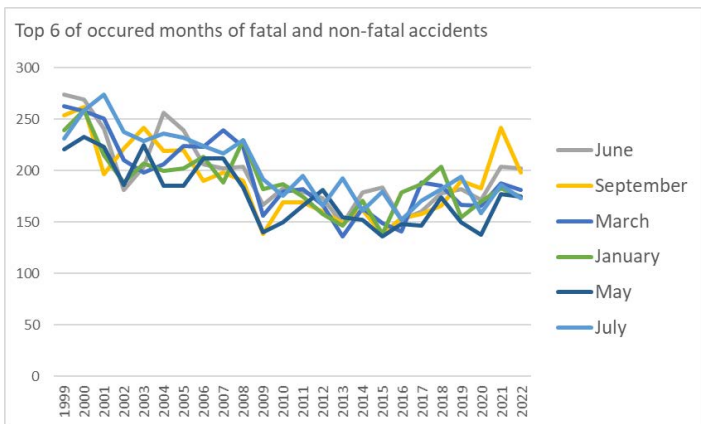
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 0108 chemical products in Japan (1999-2022)



Transition of workers' age groups of fatal and non-fatal accidents in 0108 chemical products in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 0108 chemical products in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 0108 chemical products in Japan (1999-2022)

no causal agent	67	76	58	65	71	74	102	89	87	83	75	71	74	81	75	69	70	64	87	97	99	129	123	125	2,011	agent
human power machine, tools	144	117	148	142	117	125	131	119	137	134	85	115	124	106	111	103	92	121	128	112	129	116	120	124	2,900	human power machine, tools
materials	155	172	137	132	131	125	110	127	134	105	101	111	111	90	100	97	95	75	106	72	85	82	93	109	2,655	materials
metal manufacturing machine	161	142	120	99	102	87	101	78	75	64	45	47	67	61	57	59	56	56	54	61	55	60	50	69	1,826	metal manufacturing machine
other equipments, facilities	75	88	84	73	70	65	80	64	74	82	65	72	69	71	60	82	72	67	53	68	51	74	80	69	1,708	other equipments, facilities
hazards, harmful substances	92	113	108	100	80	112	82	88	115	63	64	69	63	59	56	63	66	68	70	69	70	60	62	53	1,845	hazards, harmful substances
natural environment	28	25	26	15	28	25	29	26	17	29	14	31	45	32	28	44	16	35	45	51	43	30	43	44	749	natural environment
vehicle	25	36	29	26	39	31	29	20	22	15	23	22	27	21	15	13	8	20	22	24	25	21	16	21	550	vehicle
other causal agent	39	44	22	14	33	30	22	21	34	20	15	18	21	18	26	11	16	17	18	29	26	44	213	19	770	other causal agent
power transmission mechanism	45	38	31	28	31	28	36	24	23	27	26	26	21	19	32	28	22	17	18	19	17	13	18	17	604	power transmission mechanism
crane	39	40	31	28	29	28	34	27	26	29	17	17	27	20	18	17	23	22	14	22	24	25	22	17	596	crane
chemical facilities	23	19	9	16	17	22	18	18	18	10	10	10	17	16	9	17	8	11	8	19	12	8	24	12	351	chemical facilities
woodworking machine	41	37	25	22	43	23	37	34	31	17	22	17	26	21	23	18	24	19	14	18	18	14	16	10	570	woodworking machine
kiln, caldron	15	9	14	17	8	5	10	7	5	11	12	9	7	3	8	13	5	5	4	6	8	8	7	7	203	kiln, caldron

pressure vessel	8	8	9	16	10	6	10	9	8	12	12	9	5	13	5	1	6	7	5	4	4	1	7	4	179	pressure vessel	
electric equipment	6	4	7	6	8	5	3	1	3	3	8	5	1	9	6	4	1	5	10	5	4	10	6	4	124	electric equipment	
construction machine	9	5	12	4	8	5	3	3	3	5	7	5	4	4	3	9	3	1	3		6	3	6	3	114	construction machine	
unclassifiable	6	5	13	5	4	6	4	2	12	9	2		3	2	2	6	3	4	4	4	2	1	2	3	104	unclassifiable	
welding equipment	6		1			3	1					3		1		1		4	1	4		2		1	28	welding equipment	
engine	1	2	3		1	4		1	3	1	1			2	1	2			1			1	3		27	engine	
mobile silviculture machine																											mobile silviculture machine
total	2,916	2,891	2,791	2,443	2,558	2,482	2,517	2,469	2,508	2,417	1,895	1,959	2,130	2,001	1,869	1,949	1,844	1,919	1,990	2,120	2,039	1,993	2,301	2,057	54,058	total	

Transition of Causal agents (Small) of fatal and non-fatal accidents in 0108 chemical products in Japan (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	Causal (S) agents
other general power machines			528		469		441	443	435	453	337	315	348	319	303	290	323	272	284	312	284	265	284	260	6,965	other general power machines
passage			130		110		153	153	131	140	96	104	124	133	111	136	115	143	145	196	164	158	193	191	2,826	passage
load			177		153		125	167	158	150	113	132	154	138	122	115	116	103	126	159	114	140	151	147	2,760	load
no causal agent			58		71		102	89	87	83	75	71	74	81	75	69	70	64	87	97	99	129	123	125	1,729	no causal agent
other tools			74		80		94	83	97	102	72	62	81	60	79	79	79	100	104	91	85	93	100	99	1,714	other tools
ladder			91		91		89	77	92	101	67	74	78	77	68	84	77	76	80	97	84	96	91	92	1,682	ladder
stairs, landing stage			97		87		101	87	81	94	75	60	74	69	51	94	69	74	92	86	96	92	90	91	1,660	stairs, landing stage
forklift			105		83		107	100	98	99	61	74	81	62	72	71	70	84	96	74	72	55	64	72	1,600	forklift
other equipment,			84		70		80	64	74	82	65	72	69	71	60	82	72	67	53	68	51	74	80	69	1,407	other equipment,

stone, sand, substance			3	1	1	1	1	2	1	1	2	2	1	1	1	1	2	2	2	2	2	24	stone, sand, substance	
food manufacturing machine			1	1	2	1	2	4	1	1	1	2	1	2	1	2	1	1	2	2	2	23	food manufacturing machine	
abnormal environment			3	2	2	1	1	2	1	1						2	1	1	2	2	2	23	abnormal environment	
industrial dryer			3	6	5	3	1	3	7	3	3	2	4	6	2		2	2	4	4	4	1	65	industrial dryer
leveling, transporting or loading machine			9	3	1	1	2	6	2	3	2		3	3		2		4		5	1	47	leveling, transporting or loading machine	
inflammable gas			3	4	5	2	1	5	3	4	1	4	1	2	2	1	3	1		3	1	46	inflammable gas	
band sawing machine			2	6	4	2	4	1	1		3	5	1	3	2		3	3	1	2	1	44	band sawing machine	
other woodworking machines			1	8	1	1	4	2	2	1		2	2	2	1	3			2		1	33	other woodworking machines	
centrifugal machine				1		2	4	2	1		3				3	4	1	7		1	1	1	31	centrifugal machine
other electrical equipment			2	1	1		1	2	2	2	1	2	2	1	1		2	2	2	4	2	1	31	other electrical equipment
natural ground, rock			2	2	3	1	2		1	3		1	1		1	1	1	2	2	1	2	1	27	natural ground, rock
other welding equipment										2		1		1		2	1			2		1	10	other welding equipment
hollow chisel mortiser, wood borer							1		1	1		1		1						1		1	7	hollow chisel mortiser, wood borer
vehicle for high lift work								1		2		1						1			1	6	vehicle for high lift work	

demolition machine								1									1						1	3	demolition machine	
other vehicles			6		4			3	2	1	2	1	4	1	2	3	1	1	2	4	2		2		41	other vehicles
wood planer machine			3		4		3	2	4	2	2		3	3	3	2		1			2				34	wood planer machine
electric power facilities			2		5		1		1	1	1	2		4	1	1		2	3	2	1	1			28	electric power facilities
excavating machine			1		5			2	1	2		1	1		2	5					1	3	1		25	excavating machine
engine			3		1			1	3	1	1			2	1	2			1			1	3		20	engine
boiler					1		3	1	2	2	2	1			1		2	1			1				17	boiler
standing tree								1		1	1	1	1	1	3				2	1	1	1			14	standing tree
mobile crane							2	1		2	2		1			1		2					1		12	mobile crane
railway equipment									1	2				2		1	1		1		1	1			10	railway equipment
other construction machines			1				2	1				1		1	1	1		1							9	other construction machines
arc welding equipment							1											2		3					7	arc welding equipment
chain saw					1						1					2					1		1		6	chain saw
chamfering machine, router, woodworking milling machine					1					1		1													5	chamfering machine, router, woodworking milling machine
railway vehicle					1		1								1										4	railway vehicle
forging pressure hammer							1		1																2	forging pressure hammer
rough terrain hauler							1									1									2	rough terrain hauler
gas welding equipment			1																						2	gas welding equipment

50-59	828	810	745	626	646	642	626	586	608	584	441	413	490	407	393	394	395	428	468	497	445	452	569	508	13,001	50-59
40-49	662	599	572	465	504	442	477	486	492	480	374	429	481	445	431	473	446	475	508	545	522	497	524	507	11,836	40-49
30-39	504	578	549	522	596	587	618	584	597	564	455	503	490	488	420	470	398	418	353	429	376	366	453	349	11,667	30-39
60 years old or more	253	245	271	226	248	264	254	257	276	309	230	233	270	271	251	227	268	251	297	303	299	319	334	346	6,502	60 years old or more
20-29	578	584	594	542	497	485	477	492	480	420	357	339	365	350	324	339	305	301	330	298	358	319	380	313	9,827	20-29
19 years old or less	91	75	60	62	67	62	65	64	55	60	38	42	34	40	50	46	32	46	34	48	39	40	41	34	1,225	19 years old or less
total	2,916	2,891	2,791	2,443	2,558	2,482	2,517	2,469	2,508	2,417	1,895	1,959	2,130	2,001	1,869	1,949	1,844	1,919	1,990	2,120	2,039	1,993	2,301	2,057	54,058	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 0108 chemical products in Japan (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	Workers scale
100-299	476	452	427	392	431	387	414	421	517	490	406	450	408	381	390	416	401	448	438	467	502	489	639	519	10,761	100-299
10-29	770	772	743	648	663	615	649	618	554	578	436	454	524	494	470	472	466	427	470	452	416	417	445	398	12,951	10-29
50-99	460	412	441	386	410	404	418	417	433	389	314	325	411	323	318	343	290	347	364	382	400	360	383	373	9,103	50-99
30-49	466	487	445	383	376	393	376	361	401	406	280	287	327	335	276	265	303	289	311	345	309	303	358	315	8,397	30-49
300 workers or more	201	248	225	175	170	194	210	211	224	247	179	192	206	237	193	211	174	199	197	260	237	259	285	268	5,202	300 workers or more
9 workers or less	543	520	510	459	508	489	450	441	379	307	280	251	254	231	222	242	210	209	210	214	175	165	191	184	7,644	9 workers or less
total	2,916	2,891	2,791	2,443	2,558	2,482	2,517	2,469	2,508	2,417	1,895	1,959	2,130	2,001	1,869	1,949	1,844	1,919	1,990	2,120	2,039	1,993	2,301	2,057	54,058	total

Transition of occurred months of fatal and non-fatal accidents in 0108 chemical products in Japan (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	Month
June	274	269	241	181	204	256	239	206	202	204	167	183	180	173	148	179	184	152	160	178	182	172	204	202	4,740	June
September	254	262	197	222	242	219	220	190	198	190	139	169	169	160	149	162	139	154	158	166	190	183	242	198	4,572	September
March	263	258	251	210	198	206	224	223	239	223	156	180	182	167	136	164	149	141	189	185	167	166	188	181	4,646	March
January	239	259	215	189	207	200	202	214	189	230	182	187	175	158	147	171	139	179	187	204	155	170	183	175	4,556	January

Miyagi	31	24	23		40		36	21	23	29	25	23	29	25	19	18	25	20	19	20	16	28	23	11	528	Miyagi
Akita	11	8	13		11		7	5	12	19	7	5	5	10	8	9	7	3	4	12	13	9	13	9	200	Akita
Shimane	9	9	7		9		14	7	13	5	5	5	15	8	7	6	4	11	12	12	10	12	16	8	204	Shimane
Kagoshima	8	11	10		5		9	8	7	4	3	3	4	3	5	5	7	4	5	12	8	11	10	7	149	Kagoshima
Nagasaki	6	2	7		5			8	7	5	3	3	4	3	2	2	4	2	6	2	3	2	5	6	87	Nagasaki
Kochi	3	4	5		4		2	2	6	3	4	3	4	6	6	5	3	5	6	1	6	7	7	5	97	Kochi
Okinawa	3	5	4		3		2	6	3	4	2	4	3	2	5	2	2	3	5	5	3	1	6	5	78	Okinawa
Aomori	10	7	9		3		1	3	1	3	3	3	4	5	1	2	3	1	5	2	2	3	9	4	84	Aomori
Tottori	8	6	12		4		8	6	9	6	6	3	7	2	3	3	5	3	2	6	6	4	11	3	123	Tottori
total	2,916	2,891	2,791	2,443	2,558	2,482	2,517	2,469	2,508	2,417	1,895	1,959	2,130	2,001	1,869	1,949	1,844	1,919	1,990	2,120	2,039	1,993	2,301	2,057	54,058	total

Data Source : <https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html> MHLW, Jaan

Return to https://www.jisha.or.jp/english/statistics/202312_05.html