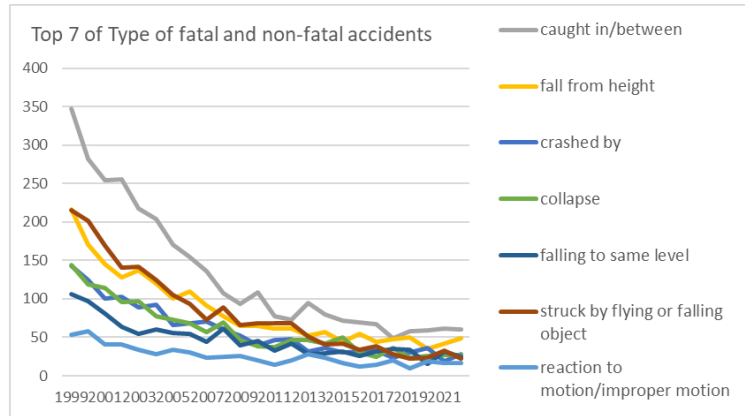
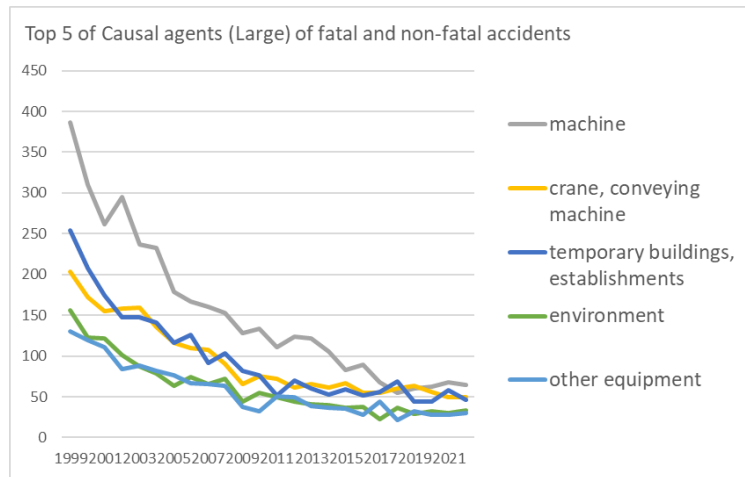


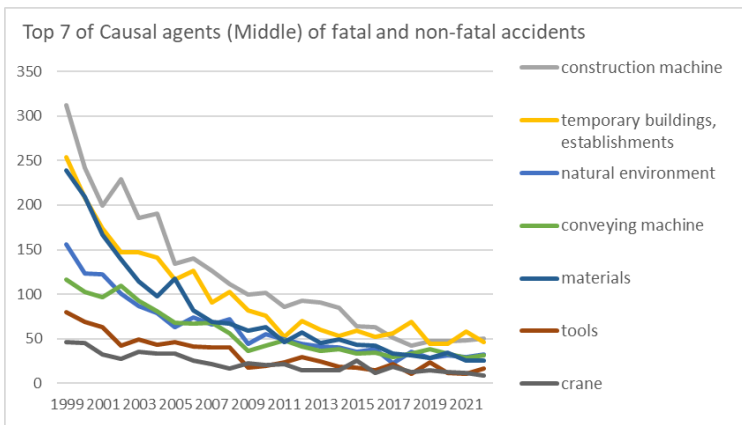
Transition of fatal and non-fatal accidents in 030110 water supply/sewage construction work in Japan (1999-2022)



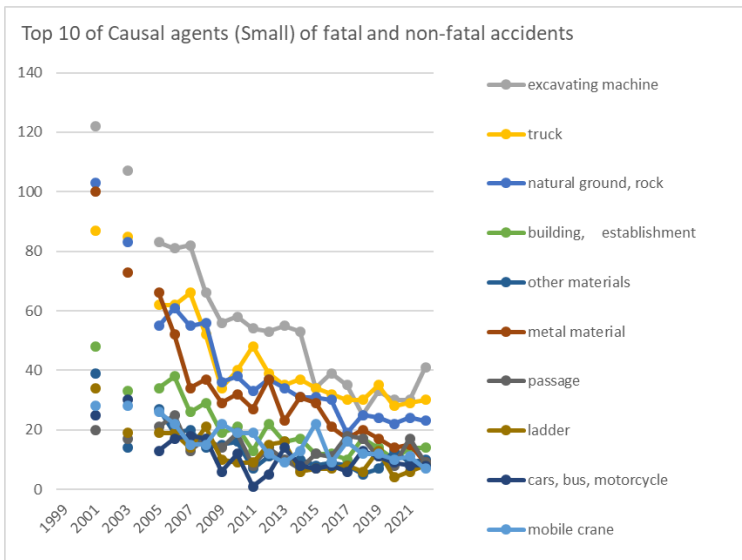
Transition of Top 7 of Type of fatal and non-fatal accidents in 030110 water supply/sewage construction work in Japan (1999-2022)



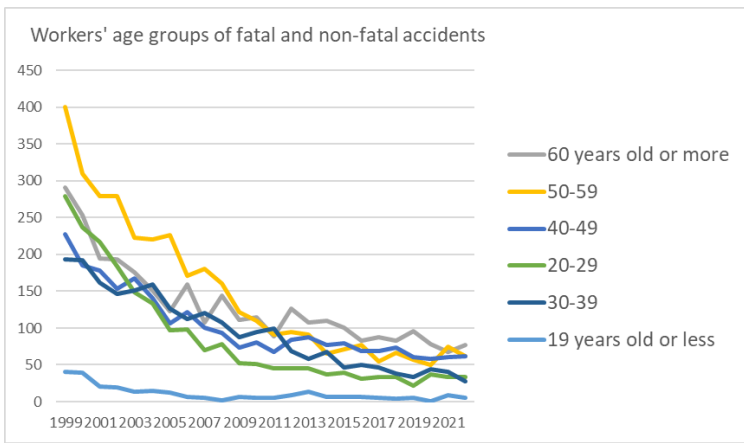
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 030110 water supply/sewage construction work in Japan (1999-2022)



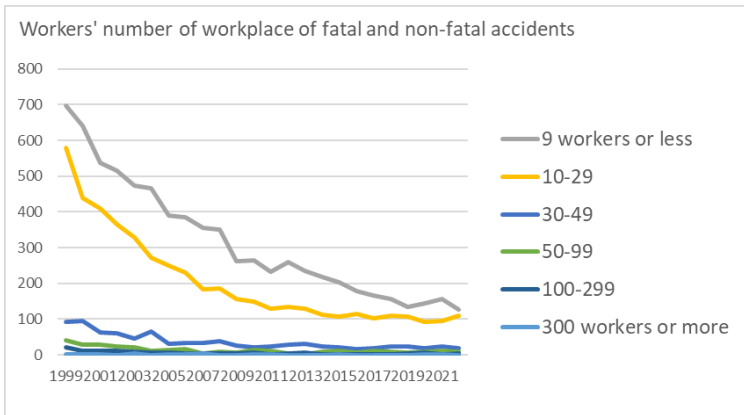
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 030110 water supply/sewage construction work in Japan (1999-2022)



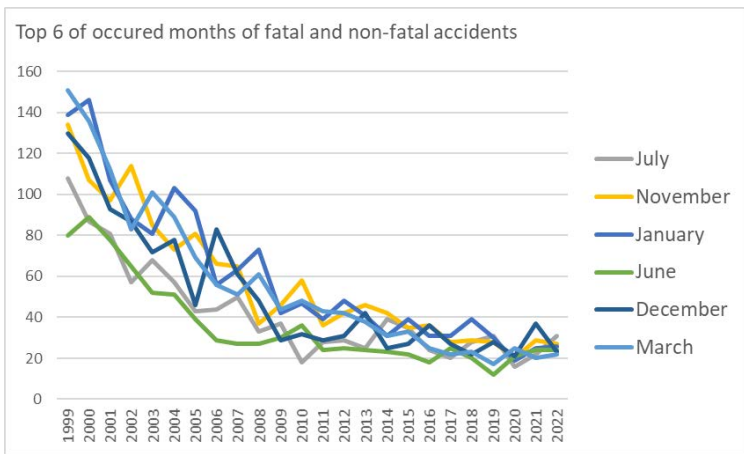
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 030110 water supply/sewage construction work in Japan (1999-2022)



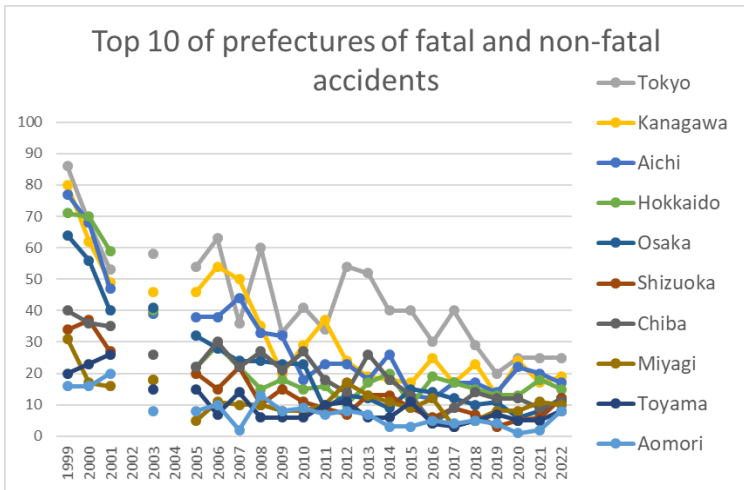
Transition of workers' age groups of fatal and non-fatal accidents in 030110 water supply/sewage construction work in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 030110 water supply/sewage construction work in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 030110 water supply/sewage construction work in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 030110 water supply/sewage construction work in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 030110 water supply/sewage construction work in Japan (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	Type of accidents
caught in/between	348	282	254	256	218	204	171	155	136	107	94	108	78	73	95	80	72	69	67	49	58	59	61	60	3,154	caught in/between
fall from height	216	170	145	128	137	120	101	110	91	78	65	65	62	61	52	57	44	55	44	48	50	35	42	49	2,025	fall from height

unclassifiable	4	2						2		1						1		1		1		1		13	unclassifiable	
burst	1	1	2												1		1	1	1					8	burst	
electric shock	1		1								1	1					1				1			6	electric shock	
traffic accident (others)			1	1											1								1		4	traffic accident (others)
total	1,432	1,216	1,051	975	880	818	691	669	583	586	453	457	397	428	403	364	343	316	298	299	273	268	287	267	13,754	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 030110 water supply/sewage construction work in Japan (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	Causal (L) agents
machine	387	310	262	295	237	233	179	167	160	153	128	134	111	124	122	106	83	89	68	55	60	62	68	65	3,658	machine
crane, conveying machine	203	172	155	158	159	136	116	110	108	90	66	75	72	61	66	61	67	55	55	60	64	56	49	49	2,263	crane, conveying machine
temporary buildings, establishments	254	208	174	147	147	141	116	126	91	103	82	76	52	70	60	53	59	52	56	69	44	44	58	46	2,328	temporary buildings, establishments
environment	156	123	122	101	87	79	63	74	66	72	44	55	49	44	41	40	36	38	23	36	29	32	30	33	1,473	environment
other equipment	130	119	111	84	88	82	76	67	66	64	38	32	51	50	39	37	35	28	44	21	32	28	28	30	1,380	other equipment
substance, material	251	229	179	148	116	108	121	88	72	72	63	64	49	62	48	51	46	43	38	37	32	38	27	28	2,010	substance, material
load	20	23	32	24	22	29	14	20	12	18	19	11	10	10	10	11	9	5	5	8	5	1	8	8	334	load
others	31	32	16	18	24	10	6	17	8	14	13	10	3	7	17	5	8	6	9	13	7	7	19	8	308	others
total	1,432	1,216	1,051	975	880	818	691	669	583	586	453	457	397	428	403	364	343	316	298	299	273	268	287	267	13,754	total

power machines																										power machines
stone, sand, substance			22		21		18	10	11	12	10	12	9	6	9	7	4	6	5	6	4	4	2	6	184	stone, sand, substance
load			23		15		10	14	10	11	14	10	8	6	6	8	7	2	5	7	5	1	6	6	174	load
slinging tool			17		16		18	16	16	11	7	3	8	11	2	4	6	2	8	4	5	2	3	6	165	slinging tool
no causal agent			15		13		6	14	4	10	10	7	2	6	11	3	6	4	5	10	6	5	11	6	154	no causal agent
high/cold temperature environment			3				3	3	3	2	1	8	2	4	4	4	1	3	2	5	3	7	4	6	68	high/cold temperature environment
stairs, landing stage			7		10		6	6	2	5	5	1	2	8	5	1	2	5	2	6	4	4	3	5	89	stairs, landing stage
other temporary buildings, establishments			23		28		20	19	11	10	9	14	10	8	5	7	12	8	9	10	4	6	9	4	226	other temporary buildings, establishments
working platform, boot board			18		17		7	15	9	17	8	7	5	7	6	8	6	4	4	4	2	6	4	4	158	working platform, boot board
grinding machine, buffing machine			8		11		13	7	10	6	6	7	6	10	15	7	4	7	5	4	3	4	6	4	143	grinding machine, buffing machine
other equipment, facilities			12		9		9	2	12	5	5	5	9	7	5	5	9	6	8	4	2	5	7	4	130	other equipment, facilities
opening			9		14		9	10	10	9	8	5	2	6	7	5	4	8	4	8	6	3	4	3	134	opening
other tools			12		14		9	6	10	8	1	8	7	4	7	9	5	6	6	1	6	6	2	3	130	other tools
roof, beam, haze, crossbeam, principal rafter			2		5		2	2	1	1	1	1	4		1			2	3	2	1	1	2	3	34	roof, beam, haze, crossbeam, principal rafter
timbering			38		18		10	7	15	14	17	5	6	4	7	4	9	2	2	3		2	3	2	168	timbering

hardening machine			18		19		12	13	7	11	11	7	4	8	11	8	5	5	1		5	4	4	2	155	hardening machine	
circular sawing machine			11		5		6	5	7	10	4	3	2	8	2	1	3	3	1	1			1	2	75	circular sawing machine	
other environments			10		3		2	7	6	5	2	6	5	2	3	3	1		2	4	1	1	2	2	67	other environments	
machine/equipment as load			9		7		4	6	2	7	5	1	2	4	4	3	2	3		1			2	2	64	machine/equipment as load	
scaffolding			9		5		7	4	4	1	1	3	2	1	3	4	2		4	2	2	4	2	2	62	scaffolding	
other causal agent			1		11			1	4	1	2	2	1	1	6	2		2	3	3		2	8	2	52	other causal agent	
standing tree							3	2	2	2	4	2	1	1		1	3			2	1	1		2	27	standing tree	
other hazards, harmful substances			3				3				1	1		1	2	2			1			2	1	1	2	20	other hazards, harmful substances
other metal manufacturing machines			9		13		4	3	5	2	4	6	4	2	2	6	5	5	1	3	2	1	5	1	83	other metal manufacturing machines	
lumber, bamboo			6		7		6	1	4	4	5	3	3	3	3	1	2	6	4	1	1	4		1	65	lumber, bamboo	
crane			3		7		6	4	4	1	1	2	3	3	4	1	3	3	2	1	2	3	1	1	55	crane	
other powered crane			2		1		1		2	1					2	1	1		1		1			1	14	other powered crane	
mixer, grinder			2		1				1							1	3			1			1	1	11	mixer, grinder	
railway equipment			1		1		1	1			1											2		1	8	railway equipment	
human power cranes			1					2		2			1										1	1	8	human power cranes	
forklift					1		1					1										1		1	5	forklift	
gas welding equipment			1		2																		1	1	5	gas welding equipment	

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	Age
60 years old or more	291	253	195	193	176	151	123	159	108	144	111	115	89	126	108	110	101	83	88	83	96	78	68	77	3,126	60 years old or more
50-59	401	310	279	279	223	220	226	171	180	160	122	110	91	95	91	65	71	77	55	66	57	50	75	62	3,536	50-59
40-49	227	185	178	154	168	140	107	122	100	94	73	81	68	84	88	77	79	69	69	74	60	58	61	62	2,478	40-49
20-29	279	237	217	184	149	133	97	98	70	78	52	51	45	45	45	37	39	31	34	34	22	37	34	33	2,081	20-29
30-39	194	192	162	146	151	159	126	112	120	108	88	95	99	69	58	68	46	50	47	38	33	44	40	28	2,273	30-39
19 years old or less	40	39	20	19	13	15	12	7	5	2	7	5	5	9	13	7	7	6	5	4	5	1	9	5	260	19 years old or less
total	1,432	1,216	1,051	975	880	818	691	669	583	586	453	457	397	428	403	364	343	316	298	299	273	268	287	267	13,754	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 030110 water supply/sewage construction work 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
9 workers or less	697	641	537	514	474	466	391	385	356	351	261	264	233	259	234	218	204	179	166	157	133	143	157	127	7,547	9 workers or less
10-29	580	439	410	366	329	271	249	230	183	185	155	150	129	133	130	113	106	114	102	109	107	91	95	110	4,886	10-29
30-49	91	94	62	61	45	64	31	33	34	39	26	22	23	29	30	24	20	16	19	24	24	18	23	18	870	30-49
50-99	41	29	29	24	21	12	13	16	4	8	7	14	10	3	2	8	10	6	10	8	6	9	10	9	309	50-99
100-299	22	12	12	10	8	5	6	4	3	3	4	5	1	4	7	1	2	1	1	1	3	5	1	3	124	100-299
300 workers or more	1	1	1		3		1	1	3			2	1				1					2	1		18	300 workers or more
total	1,432	1,216	1,051	975	880	818	691	669	583	586	453	457	397	428	403	364	343	316	298	299	273	268	287	267	13,754	total

Transition of occurred months of fatal and non-fatal accidents in 030110 water supply/sewage construction work 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
July	108	87	81	57	68	57	43	44	50	33	37	18	28	29	25	39	35	24	20	28	31	16	22	31	1,011	July
November	134	107	97	114	85	73	81	66	65	37	46	58	36	42	46	42	35	36	28	29	28	20	29	27	1,361	November

January	139	146	107	88	81	103	92	56	63	73	42	47	39	48	41	31	39	31	31	39	30	19	25	26	1,436	January
June	80	89	78	65	52	51	39	29	27	27	30	36	24	25	24	23	22	18	25	20	12	21	24	24	865	June
December	130	118	93	87	72	78	46	83	61	48	29	32	29	31	42	25	27	36	27	22	28	21	37	23	1,225	December
March	151	136	112	83	101	89	69	56	51	61	44	48	43	42	38	31	33	25	22	23	17	25	20	22	1,342	March
May	77	60	50	53	50	37	40	40	28	32	27	27	25	19	18	21	19	17	27	22	15	19	16	21	760	May
February	151	124	115	113	115	81	73	93	87	86	57	56	42	45	41	43	33	30	32	28	23	29	18	20	1,535	February
September	105	89	86	93	59	72	58	44	30	50	40	31	30	39	36	20	29	25	19	24	20	23	24	20	1,066	September
August	121	88	84	69	69	55	44	53	40	51	40	27	40	45	27	23	28	24	23	22	21	36	25	19	1,074	August
October	120	119	100	95	84	78	66	62	50	61	40	49	36	37	36	41	29	29	28	30	30	28	26	18	1,292	October
April	116	53	48	58	44	44	40	43	31	27	21	28	25	26	29	25	14	21	16	12	18	11	21	16	787	April
total	1,432	1,216	1,051	975	880	818	691	669	583	586	453	457	397	428	403	364	343	316	298	299	273	268	287	267	13,754	total

Transition of prefectures of fatal and non-fatal accidents in 030110 water supply/sewage construction work in Japan (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	Prefecture
Tokyo	86	68	53		58		54	63	36	60	33	41	34	54	52	40	40	30	40	29	20	25	25	25	966	Tokyo
Kanagawa	80	62	49		46		46	54	50	35	20	29	37	24	19	18	17	25	17	23	13	24	17	19	724	Kanagawa
Aichi	77	68	47		39		38	38	44	33	32	18	23	23	18	26	13	12	17	17	14	22	20	17	656	Aichi
Hokkaido	71	70	59		40		22	29	22	15	18	15	16	10	17	20	10	19	17	15	13	13	18	15	544	Hokkaido
Osaka	64	56	40		41		32	28	24	24	23	23	9	13	12	9	15	14	12	10	11	6	8	12	486	Osaka
Shizuoka	34	37	27		18		20	15	22	10	15	11	9	7	13	13	9	6	9	7	3	5	6	12	308	Shizuoka
Chiba	40	36	35		26		22	30	22	27	21	27	18	14	26	18	13	4	9	14	12	12	9	11	446	Chiba
Miyagi	31	17	16		18		5	11	10	10	8	8	10	17	13	11	9	12	3	5	8	8	11	10	251	Miyagi
Toyama	20	23	26		15		15	7	14	6	6	6	10	11	6	6	11	4	3	5	7	5	5	8	219	Toyama
Aomori	16	16	20		8		8	10	2	13	8	9	7	8	7	3	3	5	4	5	4	1	2	8	167	Aomori

Gunma	36	38	18		27		19	9	11	13	15	10	6	10	6	3	5	3	3	9	3	9	6	2	261	Gunma
Kumamoto	19	16	15		18		7	6	5	4	4	6	6	10	7	4		4	4	4	2	3	1	2	147	Kumamoto
Shiga	17	17	14		10		6	5	3	6	3	1	5			1	1	3		1	1	1	1	2	98	Shiga
Ishikawa	7	10	7		10		5	3	6	3	9	7	3	5	2	2	4	2	2	2	1	2		2	94	Ishikawa
Tottori	13	5	4		7		5		1	1	1	2	1	1	4	6			1	1	2	1	4	2	62	Tottori
Fukui	16	15	14		10		10	8	5	3	3	5	5	9	4	3	4	5	4	7	2	3	4	1	140	Fukui
Shimane	13	4	11		17		5	2	2	5	1		5	3	4		2	1	4	5	3	2	5	1	95	Shimane
Miyazaki	13	12	7		4		4	6		2		2	2	5	1	3		3	2	1	4	3	3	1	78	Miyazaki
Kagawa	8	2	7		2		12	3	3	6	1	2	6	3	2	4	1		2	4	1	2	5	1	77	Kagawa
Okinawa	5	1	1		5		3	5		5	2	3	2	3	3	2	3	1	2	3	3	4	6	1	63	Okinawa
Tokushima	2	1	3		2		6	4	6	2	2	1			2	1	1		2		2		2	1	40	Tokushima
Wakayama	17	10	14		11		7	10	11	7	6	9	6	3	6	3	3	2	3	3	5	2	1		139	Wakayama
Yamanashi	11	10	16		5		3	10	5	7	2	4	3	2	1	2	5	2	2	2	2		2		96	Yamanashi
Kochi	18	11	5				3	7	6	2	1	1	4	5	3	5	3	2	1	1	6	1	4		89	Kochi
total	1,432	1,216	1,051	975	880	818	691	669	583	586	453	457	397	428	403	364	343	316	298	299	273	268	287	267	13,754	total

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