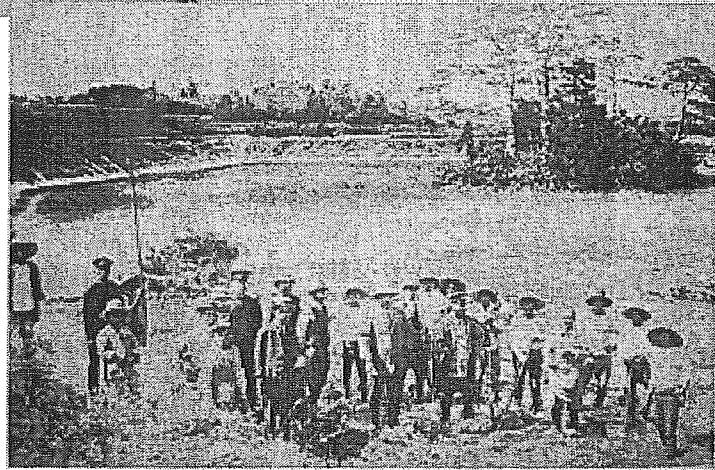


6. Molluscicides by quicklime -1-

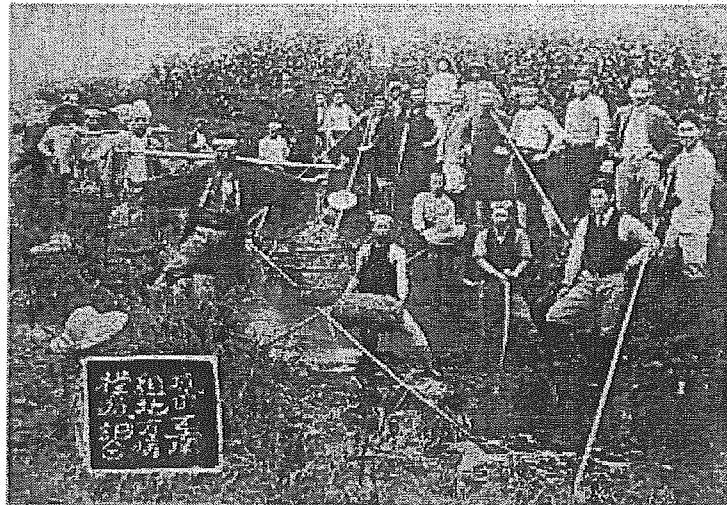
In 1924, cooperative of schistosomiasis eradication in Yamanashi was established and the snail control program using quicklime was started following the methods adopted in Hiroshima.



Brazilian expert group visited Yuda town and Tamaho village in 1925, and observed the molluscicide activity using quicklime.



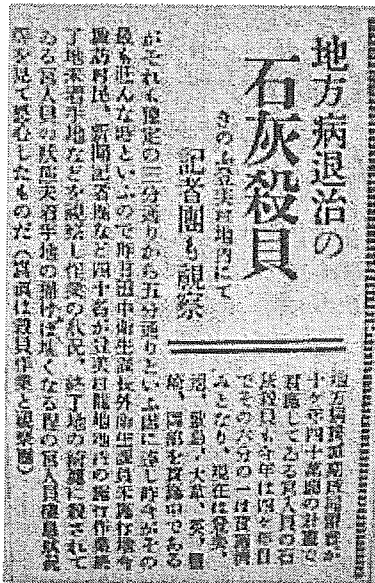
The Governor Shintaro Suzuki visited the field at Tomi- village water reservoir in 1928.



The methods for the quicklime molluscicide in the field (1928 - 1930) at Narita block South group (Donated by Mr. Ikuo Kushida)

Molluscicides by quicklime -2-

Even in 1938, un-treated field resided up to 12% of the total endemic area in Yamanashi.



Report on the molluscicide activity in Yamanashi was published in the local paper in 1928.



The local activity of molluscicides around 1928 -1930.



The local activity of molluscicides In 1933 - 1934, in Toyotomi village.

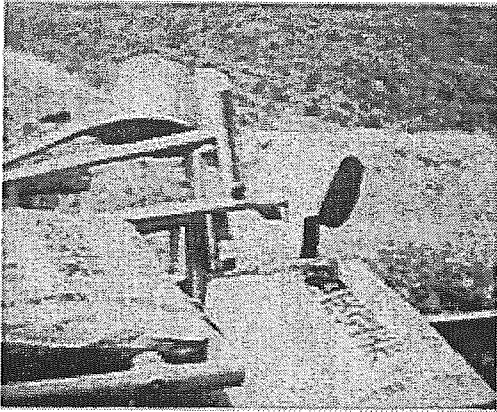
Molluscicides by quicklime -3-

These three pieces of picture were kept by Mr. Chuzo Mitsui. All of these were published in the book "Outline of schistosomiasis research and field control in Yamanashi" described by Tatsuo Kato in 1940, so that it was taken around 1923 -1925.

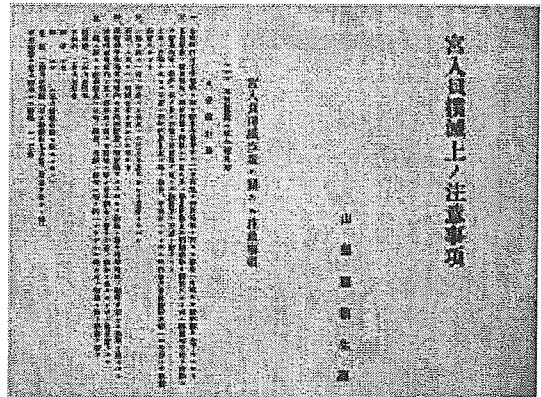


Molluscicides by nitrogenous quicklime -1-

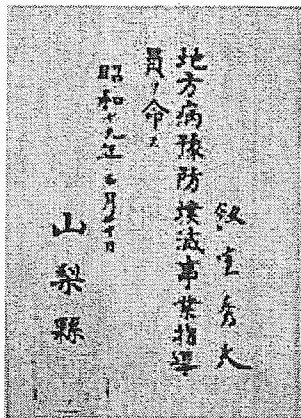
Due to the rise of the price, quicklime was replaced by nitrogenous quicklime in 1941.



Nitrogenous quicklime used in the snail control program.



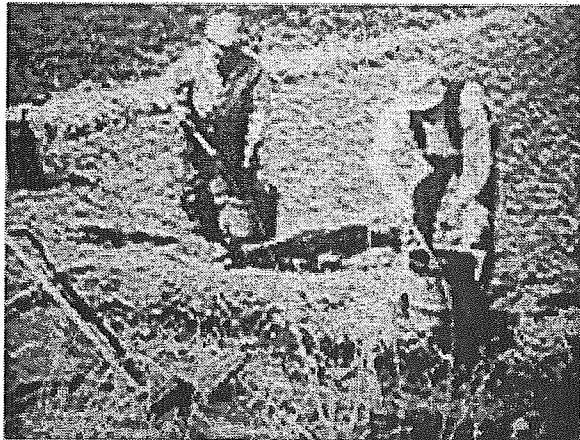
The circular caution before the application of nitrogenous quicklime (1943).



The certificate of the instructor of eradication program in 1944.
(Donated by Mr. Hidenori Mochizuki)



Scraping the edge of the irrigation canals to drop the snails into the water.



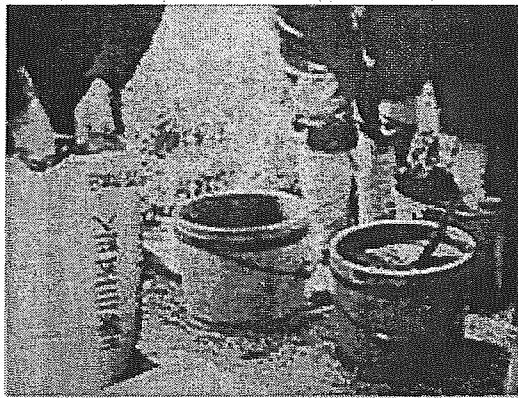
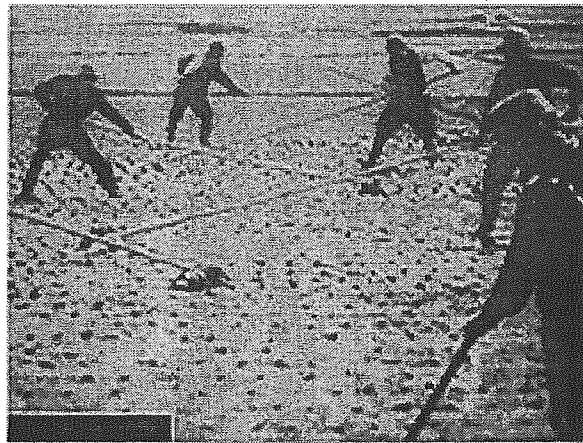
Application to the irrigation control in 1943.

Molluscicides by nitrogenous quicklime -2-

Nitrogenous quicklime had been used alone until 1952 and continued to be recommended around 1957.



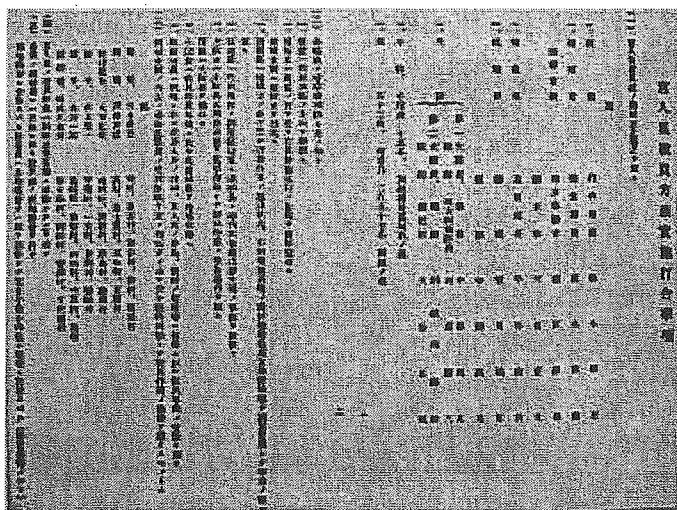
Application to the rice field.



Preparation of the nitrogenous quicklime for the control (1943).



The spread on the side wall of the canal, they used a long arm scraper.



Operating procedure of the molluscicides activity distributed to the instructors in 1943. (By Mr. Hidenori Mochizuki)

8. American occupation period - 1 -

General headquarter of American occupational force in Tokyo (GHQ) sent the research team to Yamanashi in October 1945, just after the war. In 1947, Us army 406 Medical General Laboratory opened the schisto research division in the prefectural hall in Kofu.

地方病と戦え
 山梨県の農民諸君、田圃に出る時には用いなさい。命が助かりますよ、過去に湖山の命をとつた病魔である地方病はあなたの命をとるかも知れませんが、ゴム靴とゴム手袋をつけなさい。蚊の害怖より、今の天孫が第一です。(軍政部)

地方病を防ぐには 軍政部
 地方病は、ある特定の地域に発生する。その発生を防止するためには、衛生管理を徹底し、水を清潔に保つておくことが重要である。また、蚊の繁殖を抑制するためには、水たまりを定期的に掃除し、水を換えることが効果的である。これらの対策を徹底することで、地方病の発生を防止することができる。

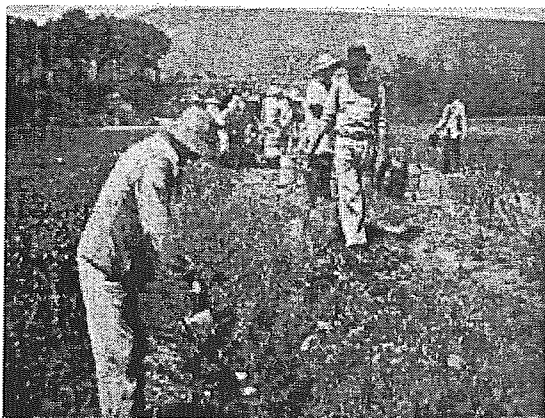
官人員退治の新薬品 軍政部
 地方病の原因となる中間宿主の退治には、新薬品の使用が効果的である。この新薬品は、中間宿主の成長を抑制し、繁殖を阻止する。また、人間の健康にも安全である。この新薬品の使用により、地方病の発生を大幅に減少させることができる。官人員の退治には、この新薬品の使用を徹底することが重要である。



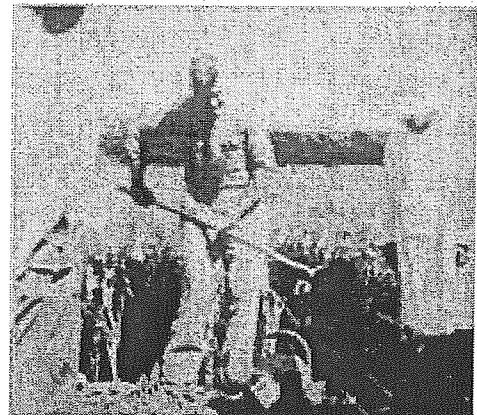
Dr. McMalen is examining the effect of molluscicides (1950).



Snapshot of field trial of the molluscicide in 1955 in Nirasaki City (by Toshihiko Iijima).



Dr. McMalen is watching the field application of molluscicides in Nirasaki in 1955 (by Mr. Takashi Sasaki).



American occupation periods - 2 -

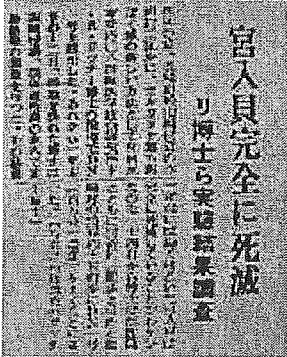
406 MGL (US army Medical General Laboratory) performed field trial of new molluscicides, epidemiological study, ecological study of the snails.



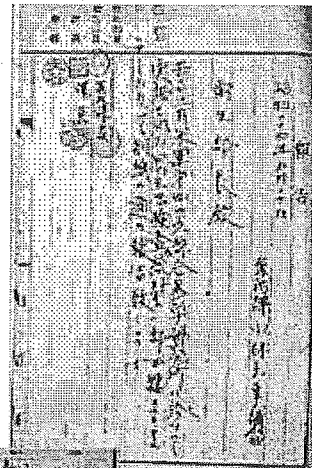
The stature of Dr. George Hunter who contributed a lot to the control program with Dr. McMalen during the periods (Nagatoishi Primary School in Yamanashi).



The research plan of the field trial of molluscicide by 406 MGL in 1948.



Dr. F.R.Richie is working in the field in Nirasaki in 1954 (in the Yamanashi daily news).

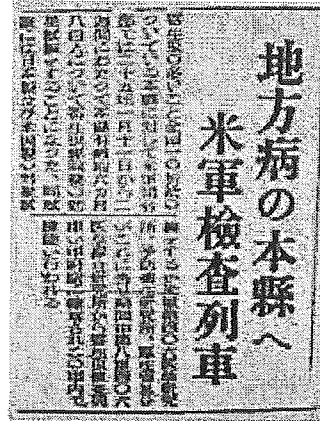
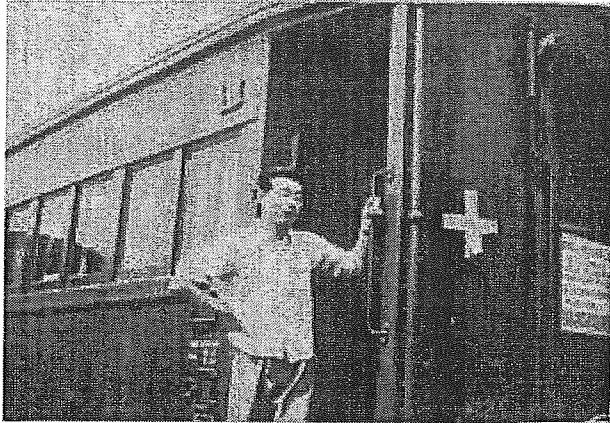


検査項目	検査結果	備考
卵の検出	60%	
成貝の検出		
その他		

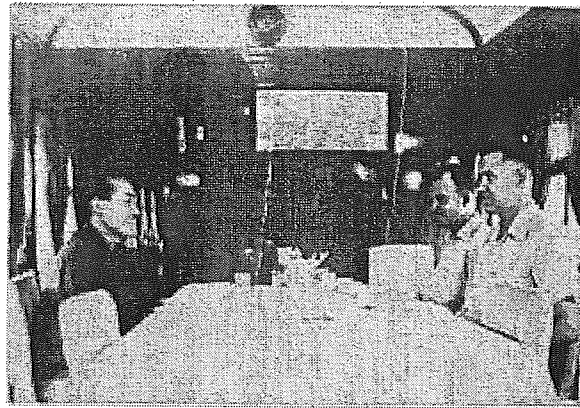
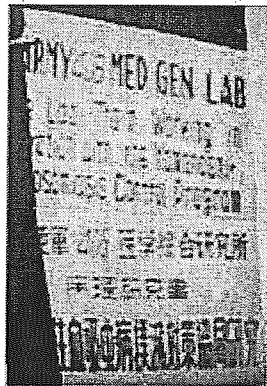
The fecal exam report by 406 MGL (Medical General Laboratory) in 1949, indicating 60% egg prevalence in Nakakoma county.

American occupation period - 3 -

Japanese and US government adopted schistosomiasis in Yamanashi as one of the special research issue for the cooperation. 406 MGL (US army 406 Medical General Laboratory) prepared the laboratory train for the fecal exam.



So called, "Parasite train" and its name plate.



Dining cabin of the parasite train. Three American experts are discussing (Drs. McMalen, Richie, Pan) at Kofu station.



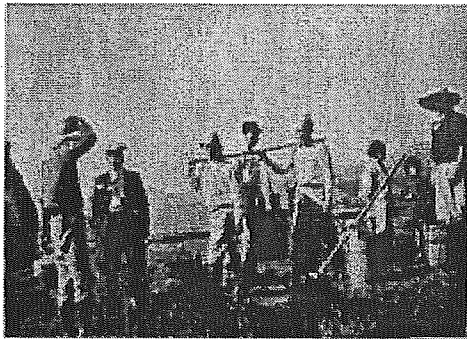
The inside of the parasite train.

9. Molluscicides by PCP - 1 -

After the field trial in the prefecture, the local government decided to apply NaPCP as a new compound as molluscicide because it was more effective and cheaper in 1954. However, there were a lot of cases of fish death due to high toxicity at the beginning.



The newspaper reported the arrival of the new molluscicide compound, NaPCP, or Santo Bright.



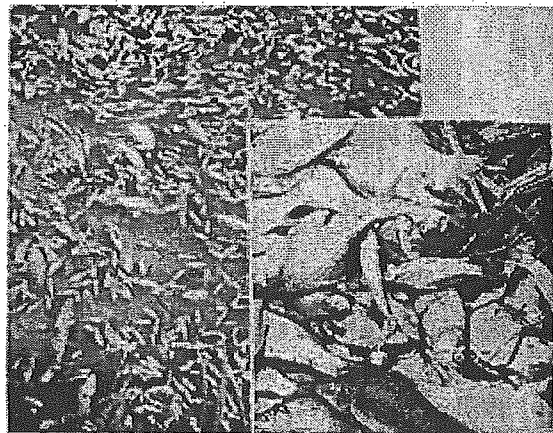
The field application of NaPCP in 1955 (by Mr. Takashi Sasaki).



Spraying the PCP in 1965 in Hatta village.



NaPCP was applied by the scoop at the beginning in 1955.



Fish died in the river and the raising pond at the beginning of the application due to excessive amount (1954 - 1958) (by T. Iijima).

9. Molluscicides by PCP - 2 -

Improvement of the application of NaPCP decreased the fish damage and the enthusiastic and complete activity of the snail control by the molluscicide produced the disease free areas in 1960 and 1961, And the total area of the snail habitation began to decrease after that.



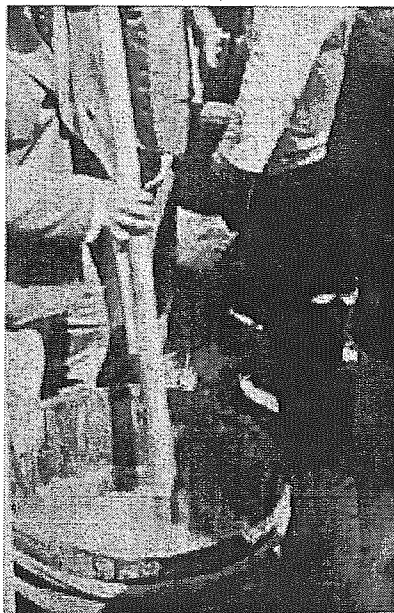
Molluscicide group organized by the volunteers in the village around 1960 in Sakaigawa village.



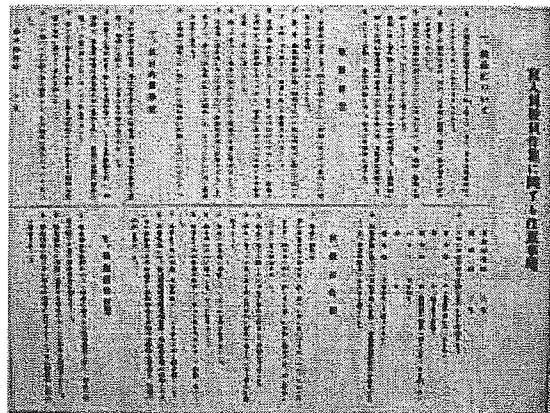
The application of NaPCP by the liquid form.



The application of NaPCP by the spray pump, in 1968 in Ryuoh town.



Dissolving the powder in the water (1955).



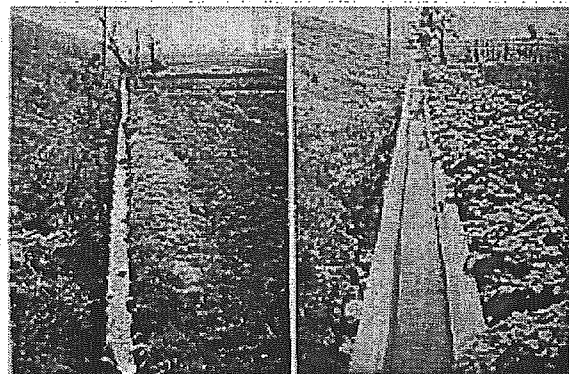
The prefectural government cautioned the toxicity to fish by the use of NaPCP as molluscicides in 1955.

10. Concrete irrigation canal - 1 -

Test trial of the concrete canal was performed in 1948 and it was determined to be the governmental project in 1950. The project was accelerated since 1957 when the prevention of parasite disease law was partially modified.

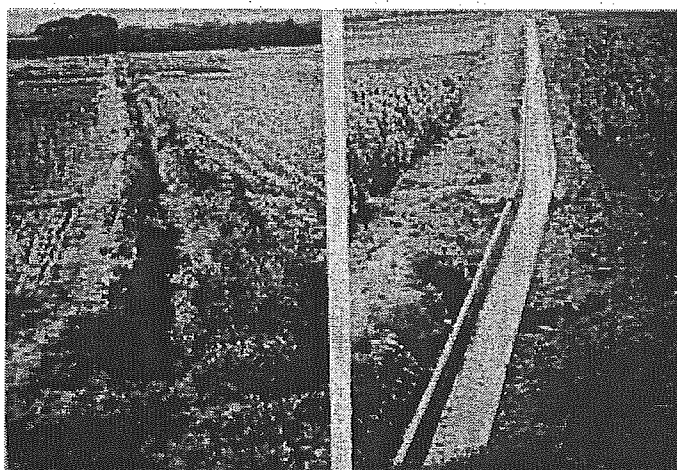


The newspaper report the new project using concrete canal.



The nameplate indicating the construction year of the canal (Present in Kofu City).

Before and after the construction in Wakakusa town in 1951 - 1952.



Before and after in Shirane Town in 1956 - 1957.

Chapter 5. Statistics tables regarding the regional disease

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9. The result of fecal examination in Yamanashi (4). (1964 ~ 1969)
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28. Concrete irrigation canal extension and total expenses.
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30. Annual record of the extension of construction

1. Results of surveillance for Schistosomiasis in Yamanashi (From March 1911)

County	City	Town	No. of subjects	No. of patients	%	Type of symptom					
						Hepatomegaly	%	Splenomegaly	%	Ascites	%
NAKAKOMA	KOFU	Ikeda	505	54	10.69	46	9.11	18	3.56	2	0.4
		KUGAWA	1764	164	9.3	164	9.3	78	4.42	7	0.4
		KOKUBO	1855	284	15.31	268	14.45	62	3.34	2	0.11
		OOKAMATA	1259	373	29.63	341	27.08	164	13.03	1	0.08
		FUTAGAWA	819	249	30.4	249	30.4	80	9.77	2	0.24
	TAMAHO	INAZUMI	1354	125	9.23	125	9.23	68	5.02	2	0.15
		SANNCYOU	201	64	31.64	64	31.84	2	1	0	0
	SYOUWA	SAIYOU	2061	374	18.15	241	11.69	30	1.46	1	0.05
		JYOUSAI	1031	117	11.35	117	11.35	10	0.97	3	0.24
	TATOMI	KOKAWA	492	55	11.18	55	11.18	4	0.81	0	0
		HANAWA	645	97	15.04	97	15.04	7	1.09	1	0.16
		SHINOBU	1188	21	1.77	21	1.77	18	1.52	1	0.08
	RYUUOU	RYUUZOU	-	-	-	-	-	-	-	-	-
		TAMAHATA	1486	128	8.61	110	7.4	84	5.65	4	0.27
	SHIKISHIMA	MATUSHIMA	-	-	-	-	-	-	-	0	0
	HATTA	MIKAGE	1263	502	39.75	502	39.75	44	3.48	1	0.08
		TANOOKA	1,394	42	3.01	42	3.01	20	1.43	7	0.5
	SIRANE	FURUTA	791	198	25.03	198	25.03	1	0.13	0	0
		IMASUWA	647	75	11.59	75	11.59	11	1.7	2	0.31
		MINAMOTO	-	-	-	-	-	-	-	-	-
	WAKAKUSA	KAGAMINAKAJYOU	2360	493	20.89	361	15.3	8	0.34	3	0.13
TOUDA		798	134	16.79	78	9.77	0	0	1	0.13	
OOI		2640	12	0.45	12	0.45	9	0.34	1	0.04	
KOUSAI	GOMEI	2226	138	6.2	138	6.2	59	2.65	6	0.27	
	NANNGO	3308	94	2.84	88	2.66	49	1.48	23	0.7	
	TOTAL	30087	3793	12.61	3392	11.27	826	2.75	70	0.23	
NISHIYAMANASHI	KOFU	KOUUNN	2177	140	6.43	135	6.2	116	5.33	2	0.09
		SUMIYOSI	1788	672	37.58	672	37.58	29	1.62	9	0.5
		ASAI	568	56	9.86	54	9.51	39	6.87	0	0
		YAMASHIRO	1903	281	14.77	281	14.77	78	4.1	6	0.32
		SATOGAKI	3097	90	2.91	90	2.91	51	1.65	0	0
		KONISATO	555	34	6.13	34	6.13	2	0.36	0	0
		KIYOTA	1103	100	9.07	98	8.88	11	1	4	0.36
		AIKAWA	3140	44	1.4	44	1.4	20	0.64	4	0.13
		TIZUKA	1176	19	1.62	17	1.45	3	0.26	0	0
	TOTAL	15507	1436	9.26	1425	9.19	349	2.25	25	0.16	
KITAKOMA	FUTABA	TOMI	1447	800	55.29	783	54.11	4	0.28	4	0.28
		SHIOZAKI	2197	474	21.57	474	21.57	30	1.37	2	0.09
	NIRASAKI	TATUOKA	987	240	24.32	219	22.19	24	2.43	2	0.2
		SARASHINA	529	27	5.1	27	5.1	0	0	0	0
		KAMIYAMA	679	169	24.89	169	24.89	0	0	0	0
		OOKUSA	975	333	34.15	333	34.15	35	3.59	1	0.1
	ASAHI	1239	433	34.95	433	34.95	31	2.5	3	0.24	
TOTAL	8053	2476	30.75	2438	30.27	124	1.54	12	0.15		
HIGASHIYATSU SHIRO	ISAWA	FUJIMI	2208	86	3.89	86	3.89	5	0.23	0	0
		ISAWA	2381	67	2.81	67	2.81	9	0.38	0	0
	NAKAMITI	KAMISONE	1266	3	0.24	3	0.24	3	0.24	0	0
		SHIMOSONE	996	0	0	0	0	0	0	0	0
	TOYOTOMI	TOYOTOMI	4,430	0	0	0	0	0	0	0	0
TOTAL	11281	156	1.38	156	1.38	17	0.15	0	0		
HIGASIYA MANASI	KASUGAI	OKABE	2403	32	1.33	32	1.33	10	0.42	3	0.12
		KASUGAI	-	-	-	-	-	-	-	-	-
NISHIYAT SUSHIRO	MITAMA	UENO	1800	0	0	0	1103	0	0	0	0
ALL TOTAL		45	69131	7893	11.42	7443	10.77	1326	1.92	110	0.16

Reference; Yamanashi prefectural association of hygiene, annual meeting report ; Nov.15. 1913 modified data.

2. Annual record of number of Schistosomiasis patients, deaths and the positive rate of examination.

Year	The number of deaths	The number of patients (reported)	Fecal examination		Skin test positive rate(%)	Elisa test positive rate (%)
			posi.	(%)		
1911		7893				
1915	105					
1916	146					
1917	104		154	18.14		
1918	118					
1919	112					
1920	109					
1921	102					
1922	159					
1923	120		413	32.29		
1924	131		1016	32.32		
1925	91		1026	14.53		
1926	65		179	18.36		
1927	95		274	13.41		
1928	113		452	9.48		
1929	76		191	7.14		
1930	82		280	7.17		
1931	90		408	16.11		
1932	95		374	10.32		
1933	84		521	11.20		
1934	94		504	18.85		
1935	69	2051	1160	22.94		
1936	86		634	17.08		
1937	69		197	11.75		
1938			12	0.97		
1939			43	0.95		
1940						
1941						
1942						
1943	[212]		1398	17.24		
1944			11125	6.17		
1945			1970	3.94		
1946	60		3573	5.47		
1947	53		3360	3.55		
1948	71		1516	1.25		
1949	59		917	1.25		
1950	64	643	1214	1.21		
1951	44	458	1036	0.83		
1952	55	359	1426	3.70		
1953	63	176	1013	1.64		
1954	79	529	1724	1.70		
1955	65	357	1161	1.34		
1956	61	338	1711	1.67		
1957	49	237	722	0.78	33.9	
1958	51	1183	356	0.52	16.6	
1959	37	584	213	0.29	24	
1960	401	238	2211	0.24	18.7	
1961	29	166	199	0.26		
1962	29	227	371	0.47		
1963	25	209	179	0.47		
1964	17	318	146	0.17		
1965	21	194	326	0.28		
1966	14	141	144	0.07		
1967	9	159	171	0.08		
1968	9	8	271	1.94	59.5	
1969	6	1	109	0.84		
1970	7	0	36	0.27		
1971	6	1	44	0.38		
1972	13	46	7	0.04	40.5	
1973	10	93	19	0.19	27.5	
1974	10	3	5	0.04	31.6	
1975	11	130	9	0.09	17.8	
1976	8	110	4	0.03	19.9	
1977	11	95	3	0.03	19.9	
1978	6	53	0	0.00	20.3	
1979	6	48	0	0.00	15.6	
1980	5	0	0	0.00	3.5	
1981	7	0	0	0.00	5.1	
1982	4	0	0	0.00	13.4	
1983	5	0	0	0.00	19.1	38.6
1984	7	0	0	0.00	14.1	15.6
1985	4	0	0	0.00	31.5	14.6
1986	3	0	0	0.00		11.2
1987	2	0	0	0.00		27.5
1988	4	0	0	0.00		13.1
1989	2	0	0	0.00		1.2
1990	4	0	0	0.00		1.2
1991	4	0	0	0.00		0.5
1992	2	0	0	0.00		1.6
1993	0	0	0	0.00		5.1
1994	3	0	0	0.00		7.9
1995	No available data		0	0.00		2.1

- Reference:Yamanashi statistical year book,
- [] Report on health in Yamanashi (1953)
- Number of death: Including other cause.
- Number of patients: reports from hospital
- The patients were consist of children to adults.
- Elisa test positive was judged by more over to 80 times concentration from normal sera.

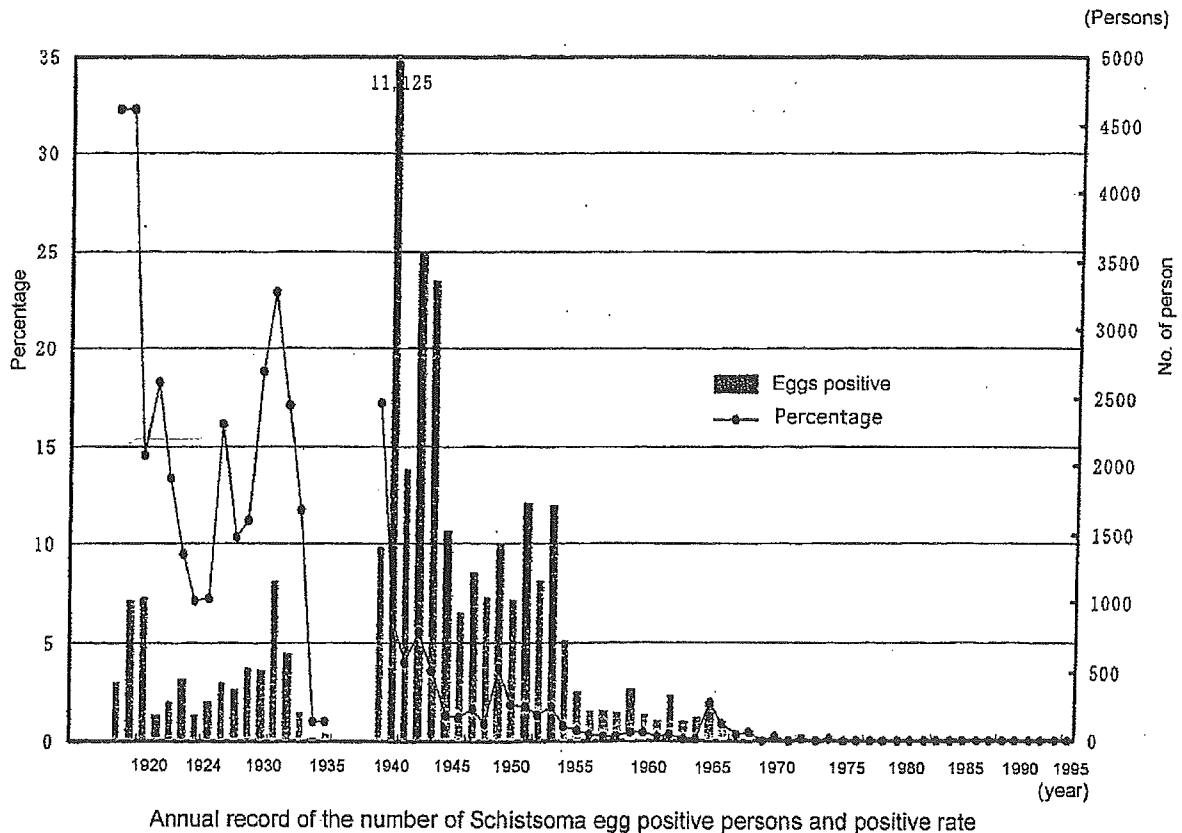
3. Results of faces examination in Tomi villager. (1917)

NAKAKOMA HATTA PRIMARY SCHOOL	Name of village	Section of village	No. of examin	Schistosoma		Ancylostoma		Trichostrongylus		Ascaris		Trichuris	
				positive	%	positive	%	positive	%	positive	%	positive	%
MIKAGE		KAMITAKASAGO	81	19	23.5	6	7.4	2	2.5	76	93.8	55	67.9
		YAGOSHIMA	79	7	8.9	9	11.4	—	—	67	84.8	34	43
		MUJINA	53	—	—	3	5.7	1	1.9	46	86.8	32	60.4
TANOOKA		SHIMOTAKASAGO	45	3	6.7	2	4.4	—	—	40	88.9	33	73.3
		EBARA	31	7	22.6	5	16.1	1	3.2	23	74.2	18	58.1
		TOKUNAGA	47	6	12.8	—	—	—	—	46	97.9	36	76.6
MOMOTA		KAMIHOTTA	117	9	7.7	6	5.1	5	4.3	104	88.9	82	70.1
		MOMOTA	163	14	8.6	13	8	2	1.2	151	92.6	28	17.2
		TOTAL	816	65	10.6	44	7.1	11	1.8	553	89.8	318	51.6

Results of faces examination for Tomi villager. (1917)

KITAKOMA	Name of village	Section of village	No. of examin	Schistosoma		Ancylostoma		Trichostrongylus		Ascaris		Trichuris	
				positive	%	positive	%	positive	%	positive	%	positive	%
TOMI		DANGOSINNDENN	100	34	34	53	53	13	13	78	78	93	93
		SYOUBUZAWA	133	55	41.4	37	27.8	13	9.8	124	93.2	117	87.9
		TOTAL	233	89	38.2	90	38.6	26	11.2	202	86.7	210	90.1

Reference : History of Yamanashi prefecture 16, social economy (1998).
Those 2 place were first reports of the group medical examination.



4. The results of surveillance of fecal examination for Parasite eggs, using 406MGL methods

REGION	YOSHIZAWA VIL		KOUFU CITY		OOTSUKA VIL.		HIKAWA VIL.		SANCYOU VIL.		FUTAKAWA VIL.		TOTAL	
No. of subjects	n=506		n=501		n=532		n=500		n=508		n=508		n=3055	
	Positive	%	Positive	%	Positive	%	Positive	%	Positive	%	Positive	%	Positive	%
Helminth	501	99	497	99.2	529	99.4	498	99.6	507	99.8	506	99.6	3038	99.4
Protozoa	276	54.5	270	53.9	322	60.5	314	62.8	241	47.4	224	44.1	1647	53.9
Helminth														
<i>Ascaris</i>	477	94.3	440	87.8	433	81.4	473	94.6	461	90.7	430	84.6	2714	88.8
<i>Trichuris</i>	487	96.2	467	93.2	475	89.3	478	95.6	440	86.6	450	88.6	2797	91.6
<i>Ancylostoma</i>	368	72.7	298	59.5	342	64.3	367	73.4	404	79.5	413	81.3	2192	71.8
<i>Trichostrongylus</i>	126	24.9	225	44.9	337	63.3	84	16.8	249	49	334	65.7	1355	44.4
<i>Strongyloides</i>	0	0	0	0	1	0.2	0	0	0	0	0	0	1	0.03
<i>Enterobius*</i>	24/82	29.3	33/90	36.7	59/116	50.9	66/41	46.8	35/112	31.3	50/182	27.5	267/723	36.9
<i>Vampirolepis</i>	0	0	0	0	0	0	1	0.2	0	0	0	0	1	0.03
<i>Schistosoma</i>	152	30	17	3.4	146	27.4	1	0.2	335	65.9	328	64.6	979	32
<i>Clonorchis</i>	1	0.2	3	0.6	1	0.2	3	0.6	6	1.2	1	0.2	15	0.5
<i>Metagonimus</i>	0	0	1	0.2	1	0.2	0	0	0	0	3	0.6	5	0.2
<i>Paragonimus</i>	0	0	0	0	0	0	0	0	1	0.2	0	0	1	0.03
<i>Heterophyes</i>	3	0.6	17	3.4	10	1.9	1	0.2	30	5.9	8	1.6	69	2.3
<i>Echinostoma</i>	0	0	0	0	1	0.2	0	0	0	0	1	0.2	2	0.06
Protozoa														
<i>Entamoeba histolytica</i>	80	15.8	62	12.4	56	10.5	64	12.8	34	6.7	19	3.7	315	10.3
<i>Entamoebacoli</i>	226	44.7	207	41.3	265	49.8	266	53.2	175	34.4	172	33.9	1311	42.9
<i>Endolimax</i>	106	20.9	108	21.6	130	24.4	155	31	87	17.1	87	17.1	673	22
<i>Iodamoeba</i>	22	4.3	9	1.8	19	3.6	17	3.4	7	1.4	1	0.2	75	2.5
<i>Giardia</i>	14	2.8	23	4.6	26	4.9	23	4.6	30	5.9	37	7.3	153	5

Examination: MGL methods and AMS III methods.

*: Cellophane tape methods.

5. The result of fecal examination at regional health center. (1957 ~ 1964)

REGIONAL HEALTH CENTER		1957	1958	1961	1962	1963	1964
KOFU	No. of examination	—	34294	19579	11849	6208	5093
	Positive	—	234	46	23	1	0
	%	0.38	0.01	0.00	0.00	0.00	0.00
NIRASAKI	No. of examination	—	25502	9243	7795	4173	3914
	Positive	—	137	43	59	2	7
	%	0.33	0.01	0.00	0.01	0.00	0.00
OGASAWAEA	No. of examination	—	26970	7673	548	13594	9674
	Positive	—	213	0	1	50	3
	%	0.84	0.01	0.00	0.00	0.00	0.00
ISAWA	No. of examination	—	27330	19816	7023	2291	3134
	Positive	—	36	0	0	0	0
	%	0.72	0.00	0.00	0.00	0.00	0.00
MINOBU	No. of examination	—	20721	5609	5282	4803	5257
	Positive	—	1	0	0	0	0
	%	0.01	0.00	0.00	0.00	0.00	0.00
KUSAKABE	No. of examination	—	13310	5384	8834	10294	6710
	Positive	—	0	0	0	0	0
	%	0.0	0.00	0.00	0.00	0.00	0.00
INSTITUTE OF HYGENE	No. of examination	—	11377	10075	21805	19399	—
	Positive	—	108	89	378	93	—
	%	—	0.01	0.01	0.02	0.00	—
Total		—	159504	77379	63136	60782	33782
		—	729	178	459	146	10

The reports were few on 1959 and 1967.

The regions were not restricted endemic area.

The subjects were included children, adults, workers and visitors.

6. The result of fecal examination in Yamanashi (1). (1917 ~ 1937)

Name region	Numbers	1917	1925	1926	1927	1928	1932	1935	1936	1937
		Kato-katz	Kato-katz	Kato-katz	Kato-katz	Kato-katz	Kato-katz	Kato-katz	Kato-katz	Kato-katz
KOFU	No. of sample	—	2564	—	772	707	412	1330	—	—
	Positive (%)	—	369 (14.4)	—	71 (9.2)	6 (0.8)	53 (12.9)	478 (35.9)	—	—
TAMAHO	No. of sample	—	—	—	—	—	—	548	—	—
	Positive (%)	—	—	—	—	—	—	220 (40.1)	—	—
RYUOU	No. of sample	—	—	—	—	—	—	—	—	—
Positive	Positive (%)	—	—	—	—	—	—	—	—	—
SYOUWA	No. of sample	—	—	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—	—	—
TATOMI	No. of sample	—	—	—	—	—	—	896	—	—
	Positive (%)	—	—	—	—	—	—	217 (24.2)	—	—
SHIKISHIMA	No. of sample	—	—	121	—	—	—	—	—	—
	Positive (%)	—	—	6 (5.0)	—	—	—	—	—	—
ISAWA	No. of sample	—	367	—	—	—	—	—	—	—
	Positive (%)	—	4 (1.1)	—	—	—	—	—	—	—
ICHINOMIYA	No. of sample	—	—	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—	—	—
MISAKA	No. of sample	—	—	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—	—	—
YATSUSHIRO	No. of sample	—	—	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—	—	—
SAKAIGAWA	No. of sample	—	—	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—	—	—
NAKAMICHI	No. of sample	—	—	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—	—	—
TOYOTOMI	No. of sample	—	—	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—	—	—
MITAMA	No. of sample	—	—	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—	—	—
HATTA	No. of sample	616	—	—	—	—	—	—	—	—
	Positive (%)	65 (10.6)	—	—	—	—	—	—	—	—
SHIRANE	No. of sample	—	—	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—	—	—
KUSHIGATA	No. of sample	—	—	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—	—	—
WAKAKUSA	No. of sample	—	—	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—	—	—
KOUSAI	No. of sample	—	—	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—	—	—
MASUHO	No. of sample	—	—	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—	—	—
FUTABA	No. of sample	—	—	—	—	—	—	—	461	—
	Positive (%)	—	—	—	—	—	—	—	78 (16.9)	—
NIRASAKI	No. of sample	—	—	—	—	—	—	—	146	—
	Positive (%)	—	—	—	—	—	—	—	3 (2.1)	—
NAKATOMI	No. of sample	—	—	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—	—	—
KASUGAI	No. of sample	—	487	—	513	510	510	—	—	538
	Positive (%)	—	78 (16.0)	—	22 (4.3)	13 (2.5)	13 (2.5)	—	—	13 (2.4)
YAMANASHI	No. of sample	—	—	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—	—	—

7. The result of fecal examination in Yamanashi (2). (1938 ~ 1958)

Name region	Numbers	1938	1939	1944	1945	1950	1954	1957	1958
		Kato-katz	Kato-katz	Kato-katz	Kato-katz	Kato-katz	Kato-katz	Kato-katz	Kato-katz
KOFU	No. of sample	649	894	1177	106	—	29063	5557	5317
	Positive (%)	3 (0.5)	3 (0.3)	267 (22.7)	64 (60.4)	—	64 (0.2)	9 (0.2)	3 (0.1)
TAMAHO	No. of sample	—	—	876	119	346	146	774	1646
	Positive (%)	—	—	284 (32.4)	73 (61.3)	22 (6.4)	1 (0.7)	41 (5.3)	16 (1.0)
RYUUDOU	No. of sample	—	—	2833	133	—	—	—	—
	Positive	—	—	627 (22.1)	51(38.3)	—	—	—	—
SYOUWA	No. of sample	—	—	—	—	—	1260	—	—
	Positive (%)	—	—	—	—	—	200 (15.9)	—	—
TATOMI	No. of sample	—	—	—	—	374	987	304	—
	Positive (%)	—	—	—	—	36 (9.6)	10 (1.0)	36 (11.8)	—
SHIKISHIMA	No. of sample	—	—	—	—	—	—	—	590
	Positive (%)	—	—	—	—	—	—	—	3 (0.5)
ISAWA	No. of sample	—	413	—	—	—	1114	—	—
	Positive (%)	—	0 (0.0)	—	—	—	1 (0.1)	—	—
ICHINOMIYA	No. of sample	—	837	—	—	—	—	—	—
	Positive (%)	—	1 (0.1)	—	—	—	—	—	—
MISAKA	No. of sample	—	—	—	—	—	280	—	—
	Positive (%)	—	—	—	—	—	1 (0.4)	—	—
YATSUSHIRO	No. of sample	—	—	—	—	—	1368	—	—
	Positive (%)	—	—	—	—	—	5 (0.4)	—	—
SAKAIGAWA	No. of sample	—	820	—	—	—	413	—	—
	Positive (%)	—	3 (0.4)	—	—	—	1 (0.2)	—	—
NAKAMICHI	No. of sample	—	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—	—
TOYOTOMI	No. of sample	—	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—	—
MITAMA	No. of sample	—	—	—	—	—	723	—	—
	Positive (%)	—	—	—	—	—	1 (0.1)	—	—
HATTA	No. of sample	—	—	—	—	—	897	—	—
	Positive (%)	—	—	—	—	—	45 (5.0)	—	—
SHIRANE	No. of sample	—	510	—	—	—	1263	—	—
	Positive (%)	—	0 (0.0)	—	—	—	3 (0.2)	—	—
KUSHIGATA	No. of sample	—	—	—	—	—	396	—	—
	Positive (%)	—	—	—	—	—	0 (0.0)	—	—
WAKAKUSA	No. of sample	—	—	—	—	—	413	—	—
	Positive (%)	—	—	—	—	—	1 (0.2)	—	—
KOUSAI	No. of sample	—	—	—	—	—	1563	—	—
	Positive (%)	—	—	—	—	—	9 (0.6)	—	—
MASUHO	No. of sample	—	—	—	—	—	819	—	—
	Positive (%)	—	—	—	—	—	0 (0.0)	—	—
FUTABA	No. of sample	592	—	2305	100	—	883	—	—
	Positive (%)	9 (1.5)	—	560 (24.3)	57 (57.0)	—	52 (5.9)	—	—
NIRASAKI	No. of sample	—	—	—	—	269	3959	269	324
	Positive (%)	—	—	—	—	44 (16.4)	44 (1.1)	44 (16.4)	36 (11.1)
NAKATOMI	No. of sample	—	—	—	—	—	—	—	115
	Positive (%)	—	—	—	—	—	—	—	0 (0.0)
KASUGAI	No. of sample	—	—	—	—	—	1511	—	—
	Positive (%)	—	—	—	—	—	0 (0.0)	—	—
YAMANASHI	No. of sample	—	—	—	—	—	342	—	—
	Positive (%)	—	—	—	—	—	0 (0.0)	—	—

8. The result of fecal examination in Yamanashi (3). (1959 ~ 1963)

Name region	Numbers	1959	1960		1961		1962		1963	
		Kato-katz	Kato-katz	MIFC*	Kato-katz	MIFC	Kato-katz	MIFC	Kato-katz	MIFC
KOFU	No. of sample	551	7310	317	2925	396	11252	2293	7683.0	2132
	Positive (%)	8 (1.5)	419 (5.7)	7 (2.2)	6 (0.2)	1 (0.3)	0 (0.0)	7 (0.3)	0 (0.0)	7 (0.3)
TAMAHO	No. of sample	--	761	194	--	356	--	385	--	681
	Positive (%)	--	183 (24.0)	8 (4.1)	--	1 (0.3)	--	1 (0.3)	--	1 (0.1)
RYUOUU	No. of sample	--	572	90	--	--	--	--	--	--
	Positive (%)	--	220 (38.5)	3 (3.3)	--	--	--	--	--	--
SYOUWA	No. of sample	--	--	--	--	--	--	--	--	--
	Positive (%)	--	--	--	--	--	--	--	--	--
TATOMI	No. of sample	--	--	--	--	--	--	555	--	499
	Positive (%)	--	--	--	--	--	--	1 (0.2)	--	2 (0.4)
SHIKISHIMA	No. of sample	--	1030	42	--	--	--	--	--	--
	Positive (%)	--	42 (4.1)	2 (4.8)	--	--	--	--	--	--
ISAWA	No. of sample	--	1625	70	--	--	--	--	--	--
	Positive (%)	--	63 (3.9)	0 (0.0)	--	--	--	--	--	--
ICHINOMIYA	No. of sample	--	--	--	--	--	--	--	--	--
	Positive (%)	--	--	--	--	--	--	--	--	--
MISAKA	No. of sample	--	--	--	--	--	--	--	--	--
	Positive (%)	--	--	--	--	--	--	--	--	--
YATSUSHIRO	No. of sample	--	--	--	--	--	--	--	--	--
	Positive (%)	--	--	--	--	--	--	--	--	--
SAKAIGAWA	No. of sample	--	--	--	--	--	--	--	--	--
	Positive (%)	--	--	--	--	--	--	--	--	--
NAKAMICHI	No. of sample	--	--	--	--	--	--	--	--	--
	Positive (%)	--	--	--	--	--	--	--	--	--
TOYOTOMI	No. of sample	55	--	--	--	--	--	--	--	--
	Positive (%)	0 (0.0)	--	--	--	--	--	--	--	--
MITAMA	No. of sample	--	704	64	--	--	--	--	--	--
	Positive (%)	--	58 (8.2)	2 (3.2)	--	--	--	--	--	--
HATTA	No. of sample	--	429	162	40	--	--	--	--	--
	Positive (%)	--	161 (37.5)	32 (19.8)	0 (0.0)	--	--	--	--	--
SHIRANE	No. of sample	--	644	6	--	--	--	--	--	--
	Positive (%)	--	57 (8.9)	0 (0.0)	--	--	--	--	--	--
KUSHIGATA	No. of sample	--	--	--	--	--	--	--	--	--
	Positive (%)	--	--	--	--	--	--	--	--	--
WAKAKUSA	No. of sample	--	388	67	--	42	--	98	--	86
	Positive (%)	--	61 (15.7)	8 (11.9)	--	2 (4.8)	--	1 (1.0)	--	1 (1.2)
KOUSAI	No. of sample	--	--	--	--	--	--	--	--	--
	Positive (%)	--	--	--	--	--	--	--	--	--
MASUHO	No. of sample	--	--	--	--	--	--	--	--	--
	Positive (%)	--	--	--	--	--	--	--	--	--
FUTABA	No. of sample	282	1078	127	688	349	--	1949	--	120
	Positive (%)	77 (27.3)	286 (26.5)	23 (18.1)	4 (0.6)	3 (0.9)	--	252 (12.9)	--	14 (11.7)
NIRASAKI	No. of sample	391	1502	230	--	--	--	1089	--	1044
	Positive (%)	11 (2.8)	224 (14.9)	13 (5.7)	--	--	--	8 (0.7)	--	5 (0.5)
NAKATOMI	No. of sample	--	--	--	--	--	--	--	--	--
	Positive (%)	--	--	--	--	--	--	--	--	--
KASUGAI	No. of sample	--	--	--	--	--	--	--	--	--
	Positive (%)	--	--	--	--	--	--	--	--	--
YAMANASHI	No. of sample	--	372	10	--	--	--	--	--	--
	Positive (%)	--	5 (1.34)	0 (0.0)	--	--	--	--	--	--

*MIFC method, merthiolate iodine formaldehyde concentration technic