

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)
RYUJOU	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)
RYUUOU	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

9. The result of fecal examination in Yamanashi (4). (1964 ~ 1969)

Name region	Numbers	1964		1965		1966		1967		1968	1969
		Kato-katz	MIFC	Kato-katz	MIFC	Kato-katz	MIFC	Kato-katz	MIFC	MIFC	MIFC
KOFU	No. of sample	8426.0	1638	4416	1993	3666	1263	3827	1131	807	612
	Positive (%)	0 (0.0)	1 (0.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
TAMAHO	No. of sample	--	692	--	310	--	308	--	700	529	37
	Positive (%)	--	0 (0.0)	--	0 (0.0)	--	1 (0.3)	--	0 (0.0)	0 (0.0)	0 (0.0)
RYUUOU	No. of sample	--	--	--	--	--	--	--	--	237	68
	Positive (%)	--	--	--	--	--	--	--	--	11 (4.6)	4 (5.9)
SYOUWA	No. of sample	--	--	--	--	--	--	--	62	--	702
	Positive (%)	--	--	--	--	--	--	--	0 (0.0)	--	0 (0.0)
TATOMI	No. of sample	--	324	--	--	--	502	--	--	34	28
	Positive (%)	--	1 (0.3)	--	--	--	0 (0.0)	--	--	0 (0.0)	1 (3.6)
SHIKISHIMA	No. of sample	--	--	--	48	--	--	--	--	--	61
	Positive (%)	--	--	--	0 (0.0)	--	--	--	--	--	0 (0.0)
ISAWA	No. of sample	--	--	--	--	--	--	--	1160	--	66
	Positive (%)	--	--	--	--	--	--	--	0 (0.0)	--	0 (0.0)
ICHINOMIYA	No. of sample	--	--	--	--	491	--	--	--	--	35
	Positive (%)	--	--	--	--	0 (0.0)	--	--	--	--	0 (0.0)
MISAKA	No. of sample	--	--	--	--	--	--	--	--	--	43
	Positive (%)	--	--	--	--	--	--	--	--	--	0 (0.0)
YATSUSHIRO	No. of sample	--	--	--	--	--	--	--	--	--	31
	Positive (%)	--	--	--	--	--	--	--	--	--	0 (0.0)
SAKAIGAWA	No. of sample	--	--	--	--	--	--	--	--	--	54
	Positive (%)	--	--	--	--	--	--	--	--	--	0 (0.0)
NAKAMICHI	No. of sample	--	--	--	--	--	--	--	--	--	86
	Positive (%)	--	--	--	--	--	--	--	--	--	0 (0.0)
TOYOTOMI	No. of sample	--	--	--	--	--	--	--	--	--	11
	Positive (%)	--	--	--	--	--	--	--	--	--	0 (0.0)
MITAMA	No. of sample	--	--	--	--	--	--	--	--	--	21
	Positive (%)	--	--	--	--	--	--	--	--	--	0 (0.0)
HATTA	No. of sample	--	--	--	--	--	--	--	--	107	28
	Positive (%)	--	--	--	--	--	--	--	--	0 (0.0)	0 (0.0)
SHIRANE	No. of sample	--	--	--	--	--	--	--	--	89	21
	Positive (%)	--	--	--	--	--	--	--	--	0 (0.0)	0 (0.0)
KUSHIGATA	No. of sample	--	--	--	--	--	--	--	--	--	--
	Positive (%)	--	--	--	--	--	--	--	--	--	--
WAKAKUSA	No. of sample	--	17	--	--	--	--	--	--	--	37
	Positive (%)	--	0 (0.0)	--	--	--	--	--	--	--	0 (0.0)
KOUSAI	No. of sample	--	--	--	--	--	--	--	--	--	51
	Positive (%)	--	--	--	--	--	--	--	--	--	0 (0.0)
MASUHO	No. of sample	--	--	--	--	--	--	--	--	--	--
	Positive (%)	--	--	--	--	--	--	--	--	--	--
FUTABA	No. of sample	--	925	--	--	--	102	--	--	--	26
	Positive (%)	--	115 (12.4)	--	--	--	6 (5.9)	--	--	--	0 (0.0)
NIRASAKI	No. of sample	--	--	--	38	--	200	--	203	--	61
	Positive (%)	--	--	--	3 (7.9)	--	6 (3.0)	--	0 (0.0)	--	0 (0.0)
NAKATOMI	No. of sample	--	--	--	--	--	--	--	--	--	24
	Positive (%)	--	--	--	--	--	--	--	--	--	0 (0.0)
KASUGAI	No. of sample	--	--	--	--	--	--	--	--	--	19
	Positive (%)	--	--	--	--	--	--	--	--	--	0 (0.0)
YAMANASHI	No. of sample	--	--	--	--	--	--	--	--	--	--
	Positive (%)	--	--	--	--	--	--	--	--	--	--

10. The result of fecal examination in Yamanashi (5). (1970 ~ 1979)

Name region	Numbers	1970		1971	1972-1975	1976	1978	1979
		Kat-kaz	MIFC	MIFC	MIFC	MIFC	MIFC	MIFC
KOUFU	No. of sample	1005	—	—	—	—	—	26
	Positive (%)	0 (0.0)	—	—	—	—	—	0 (0.0)
TAMAHO	No. of sample	—	256	32	6	—	—	8
	Positive (%)	—	0 (0.0)	0 (0.0)	0 (0.0)	—	—	0 (0.0)
RYUUOU	No. of sample	—	35	—	—	—	3	—
	Positive (%)	—	1 (2.9)	—	—	—	0 (0.0)	—
SYOUWA	No. of sample	467	233	731	8	1	—	—
	Positive (%)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	—	—
TATOMI	No. of sample	—	—	20	87	3	—	63
	Positive (%)	—	—	0 (0.0)	0 (0.0)	0 (0.0)	—	0 (0.0)
SHIKISHIMA	No. of sample	—	—	—	—	—	2	—
	Positive (%)	—	—	—	—	—	0 (0.0)	—
ISAWA	No. of sample	1155	56	1711	—	—	—	62
	Positive (%)	0 (0.0)	0 (0.0)	0 (0.0)	—	—	—	0 (0.0)
ICHINOMIYA	No. of sample	—	—	—	—	—	—	10
	Positive (%)	—	—	—	—	—	—	0 (0.0)
MISAKA	No. of sample	—	—	—	—	—	—	20
	Positive (%)	—	—	—	—	—	—	0 (0.0)
YATSUSHIRO	No. of sample	—	—	—	—	—	—	16
	Positive (%)	—	—	—	—	—	—	0 (0.0)
SAKAIGAWA	No. of sample	—	—	—	—	—	—	36
	Positive (%)	—	—	—	—	—	—	0 (0.0)
NAKAMICHI	No. of sample	—	—	—	—	—	—	34
	Positive (%)	—	—	—	—	—	—	0 (0.0)
TOYOTOMI	No. of sample	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—
MITAMA	No. of sample	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—
HATTA	No. of sample	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—
SHIRANE	No. of sample	—	—	—	—	—	—	17
	Positive (%)	—	—	—	—	—	—	0 (0.0)
KUSHIGATA	No. of sample	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—
WAKAKUSA	No. of sample	—	—	—	25	1	—	40
	Positive (%)	—	—	—	0 (0.0)	0 (0.0)	—	0 (0.0)
KOUSAI	No. of sample	—	—	—	6	—	—	49
	Positive (%)	—	—	—	0 (0.0)	—	—	0 (0.0)
MASUHO	No. of sample	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—
FUTABA	No. of sample	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—
NIRASAKI	No. of sample	—	—	—	82	—	—	45
	Positive (%)	—	—	—	0 (0.0)	—	—	0 (0.0)
NAKATOMI	No. of sample	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—
KASUGAI	No. of sample	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—
YAMANASHI	No. of sample	—	—	—	—	—	—	—
	Positive (%)	—	—	—	—	—	—	—

11. The result of ELISA test region in Yamanashi. (1958 ~ 1979)

Name region	Numbers	1958	1961	1976	1977	1978	1979
KOFU	No. of sample	593	--	--	239	242	730
	Positive (%)	76 (12.8)			0 (0.0)	0 (0.0)	0 (0.0)
TAMAHO	No. of sample	--	--	291	--	--	345
	Positive (%)			0 (0.0)			0 (0.0)
RYUOU	No. of sample	--	--	--	--	672	--
	Positive					2 (0.3)	
SYOUWA	No. of sample	--	--	665	--	--	--
	Positive (%)			0 (0.0)			
TATOMI	No. of sample	--	--	733	--	--	1304
	Positive (%)			0 (0.0)			7 (0.5)
SHIKISHIMA	No. of sample	--	--	--	--	1680	--
	Positive (%)					0 (0.0)	
ISAWA	No. of sample	411	--	--	--	--	1551
	Positive (%)	108 (26.3)					9 (0.6)
ICHINOMIYA	No. of sample	--	--	--	--	--	841
	Positive (%)						2 (0.2)
MISAKA	No. of sample	--	--	--	--	--	1115
	Positive (%)						6 (0.5)
YATSUSHIRO	No. of sample	--	--	--	--	--	605
	Positive (%)						8 (1.3)
SAKAIGAWA	No. of sample	--	--	--	--	--	779
	Positive (%)						8 (1.0)
NAKAMICHI	No. of sample	--	--	--	--	--	928
	Positive (%)						0 (0.0)
TOYOTOMI	No. of sample	281	--	--	--	--	--
	Positive (%)	29 (10.3)					
MITAMA	No. of sample	--	--	--	--	--	--
	Positive (%)						
HATTA	No. of sample	--	--	--	--	--	--
	Positive (%)						
SHIRANE	No. of sample	--	--	--	--	--	709
	Positive (%)						5 (0.7)
KUSHIGATA	No. of sample	--	--	--	--	--	--
	Positive (%)						
WAKAKUSA	No. of sample	--	--	603	--	--	899
	Positive (%)			1 (0.2)			2 (0.2)
KOUSAI	No. of sample	--	--	--	--	--	1142
	Positive (%)						8 (0.7)
MASUHO	No. of sample	--	--	--	--	--	--
	Positive (%)						
FUTABA	No. of sample	1108	--	--	257	--	--
	Positive (%)	293 (26.4)			0 (0.0)		
NIRASAKI	No. of sample	2552	948	--	745	--	1531
	Positive (%)	504 (19.7)	321(33.9)		3 (0.4)		1 (0.1)
NAKATOMI	No. of sample	419	--	--	--	--	--
	Positive (%)	46 (11.0)					
KASUGAI	No. of sample	--	--	--	--	--	--
	Positive (%)						
YAMANASHI	No. of sample	--	--	--	--	--	--
	Positive (%)						

12. Surveillance of hepatosplenomegaly in the primary school children (1935)

Age	Male				Female			
	No. of subjects	Hepato-splenomegaly (%)	Egg (-) (%)	Egg (+) (%)*	No. of subjects	Hepato-splenomegaly (%)	Egg (-) (%)	Egg (+) (%)*
7	145	95 (65.5)	56 (38.6)	39 (26.9)	165	94 (57.0)	66 (40.0)	28 (17.0)
8	184	126 (68.5)	63 (34.2)	63 (34.2)	182	96 (52.8)	75 (41.2)	21 (11.5)
9	186	148 (79.6)	91 (48.9)	57 (30.7)	142	88 (62.0)	57 (40.1)	31 (21.8)
10	176	130 (73.9)	68 (38.6)	62 (35.2)	163	84 (51.5)	56 (34.4)	28 (17.2)
11	154	124 (80.5)	46 (29.9)	78 (50.7)	162	86 (53.1)	54 (33.3)	32 (19.8)
12	181	133 (73.5)	54 (29.8)	79 (43.7)	185	103 (55.7)	52 (28.1)	51 (27.6)
13	149	114 (76.5)	38 (25.5)	76 (51.0)	128	60 (46.9)	30 (23.4)	30 (23.4)
14	145	116 (80.0)	37 (25.5)	79 (54.5)	94	48 (51.1)	23 (24.5)	25 (26.6)
15	82	59 (72.0)	16 (19.5)	43 (52.4)	34	14 (41.2)	9 (26.5)	5 (14.7)
Total	1402	1045 (74.5)	469 (33.5)	576 (41.1)	1255	673 (53.6)	422 (33.6)	251 (20.0)

13. Surveillance of hepatosplenomegaly in the primary school children (1935)

Age	Male								Female							
	Endemic				Non endemic				Endemic				Non endemic			
	Subject	Height	Weight	Chest	Subject	Height	Weight	Chest	Subject	Height	Weight	Chest	Subject	Height	Weight	Chest
7	7199	106.9	17.4	54.2	1319	107.7	17.4	54.2	7486	105.8	16.5	52.6	1488	106.2	16.7	52.5
8	7274	111.5	19.1	56.1	1327	112.6	19.2	56.2	7611	110.6	18.3	54.4	1446	111.1	18.2	54.1
9	7250	116.2	20.9	58.0	1308	117.3	21.2	58.0	7579	115.1	20.1	56.1	1448	116.1	20.2	55.9
10	7309	120.5	22.6	59.4	1338	120.9	23.0	59.8	7441	119.7	22.1	57.9	1409	120.9	22.2	58.0
11	7047	124.6	24.8	61.6	1294	126.0	25.3	61.6	7181	124.2	24.3	59.8	1395	125.2	24.5	59.5
12	6951	128.9	27.0	63.5	1322	130.4	27.1	63.4	7098	129.2	27.0	62.4	1333	131.0	27.6	62.4
13	5545	133.1	29.4	65.3	1010	134.7	30.0	65.6	3116	134.2	30.4	64.8	421	135.6	31.1	65.2
14	4598	138.1	32.6	67.8	867	140.1	32.8	68.3	2284	139.6	34.6	68.8	291	141.1	34.8	68.5

14. Comparison of the stature between school children's development living in the endemic area and non endemic (1916 - 1930)

Age	Male								Female							
	Endemic				Non endemic				Endemic				Non endemic			
	Patients		Oshihara school Children		Yamanashi children		National average children		Patients		Oshihara school Children		Yamanashi children		National average children	
	Height	Weight	Height	Weight	Height	Weight	Height	Weight	Height	Weight	Height	Weight	Height	Weight	Height	Weight
6	105.7	17.3	108.7	18.6	108.2	18.2	108.6	18.5	104.2	16.9	102.3	16.9	106.9	17.7	107.7	17.9
7	110.3	17.9	118.7	19.9	113.0	20.2	113.4	20.3	108.9	17.3	110.7	19.3	111.8	19.1	112.7	19.6
8	116.2	22.3	121.4	22.5	117.6	21.6	118.1	22.3	115.8	21.8	111.7	20.4	116.3	20.9	117.3	21.5
9	116.4	22.4	122.3	24.5	122.4	23.5	122.4	24.2	116.2	21.6	121.1	22.9	120.9	22.8	121.7	23.6
10	122.1	24.7	123.5	25.7	125.6	25.7	126.5	26.4	121.8	24.2	124.6	25.1	125.2	24.9	126.8	25.8
11	127.8	25.4	130.5	27.4	129.9	27.7	130.7	28.8	128.3	25.7	125.5	28.4	130.2	27.2	131.0	28.5

15. Comparison of the stature between school children's height and weight living in the endemic area and non endemic (1950)

Age	Male							Female					
	Healthy Children (n=4550)			Patients (n=110)				Healthy Children (n=4577)			Patients (n=53)		
	Height	Weight	Chest	Height	Weight	Chest	Height	Weight	Chest	Height	Weight	Chest	
6	110.0	18.4	55.9	107.0	17.5	53.7	109.2	18.0	54.7	110.0	19.8	56.0	
7	117.5	20.3	58.3	117.4	20.1	59.8	114.3	18.8	56.5	111.5	17.5	53.2	
8	119.7	22.0	60.3	118.0	20.1	58.6	119.4	21.9	58.5	119.7	21.7	57.5	
9	124.4	24.9	63.1	122.0	24.1	62.3	124.2	24.9	60.7	124.1	24.1	59.2	
10	135.5	26.3	64.6	127.9	26.3	58.6	128.7	26.1	63.4	127.7	26.0	59.1	
11	133.7	28.4	65.0	133.0	28.5	64.6	132.3	29.3	64.4	134.4	29.2	64.4	
Average	125.1	23.4	62.3	120.8	22.2	59.5	122.6	23.2	59.5	121.5	23.2	58.3	

16. The case of animal infection with Schistsome.

Animals	1904			1925 - 1927			1929			1933~34		
	No of examin.	positive	%	No of examin.	positive	%	No of examin.	positive	%	No of examin.	positive	%
Dog	2	0	0	2	1	50						
Cat	9	9	100									
Mouse												
Cattle						9.1	30	6*	20	1203	468	38.9
Rabbit				22	2							
Mole												
Note	Fujiro Katsurada (1904) Iwaho tsuchiya 1904 1904 July to August by dissection			Outbrake of the situation of Schistosomiasis in Yamanashi (1928) Results of 9 town and 16 points.			June 18, 1929; reported Yamanashi daily news Minami Saitoh (1930)			Minami Saitoh (1935)		

Cat had lived in Ookamata(2), Ikeda, Satogaki, mutsugugawa, Arakawa, linuma, Aikawa, those in 6 cats were detcted Adult worm.

Animals	1940			1944			1945			1950		
	No of examin.	positive	%	No of examin.	positive	%	No of examin.	positive	%	No of examin.	positive	%
Dog				51	12	23.5	353	176	50	64	39	60.9
Mouse	1707	656	36.7				1707	656	36.7			
Cattle	2	2	100.0	377	187	49.6	7059	2184	30.8	1271	308	24.2
House	44	309	68.2	5612	1964	35	967	0	0			
Goat				208	0	0	1118	158	14.1			
Weasel	10	9	90.0	838	16	1.9	10	9	90			
Mole	68	13	19.0				68	13	19			
Note	Tasuo Kato 'The history of the research on schistosomiasis japonica in Yamanashi and its control project (1940) Result were obtained by autopsy			Outbrake of the situation of Schistosomiasis in Yamanashi (1953)			Reported number processed to the examination of GHQ (General Head Quarter)			Cattle: Agricultural office record Dogs: Fecal examination		

Animals	1940			1944			1945			1950		
	No of examin.	positive	%	No of examin.	positive	%	No of examin.	positive	%	No of examin.	positive	%
Dog	462	118	25.5	6838, 0	3427	5. 00.	208	0	0	35	0	0
Mouse	68	2	2.9				183	31	16.9	354	*2	0.56
Cattle	2530	78	3				1624	0	0			
Weasel							1	1	100			
Mole							2	0	0			
Note	Dogs: Y. Hosaka et al. 1955 Rats data were obtained by autopsy. Cattle was examined by scraping the mucous membrane			Dogs: Iijima(1963) Cattle; Agricultural office records(1935 -40)			Dogs: Kuzumi (1971) Cattle; Agricultural office records(1941 -42)			* indicates Usui- pond		

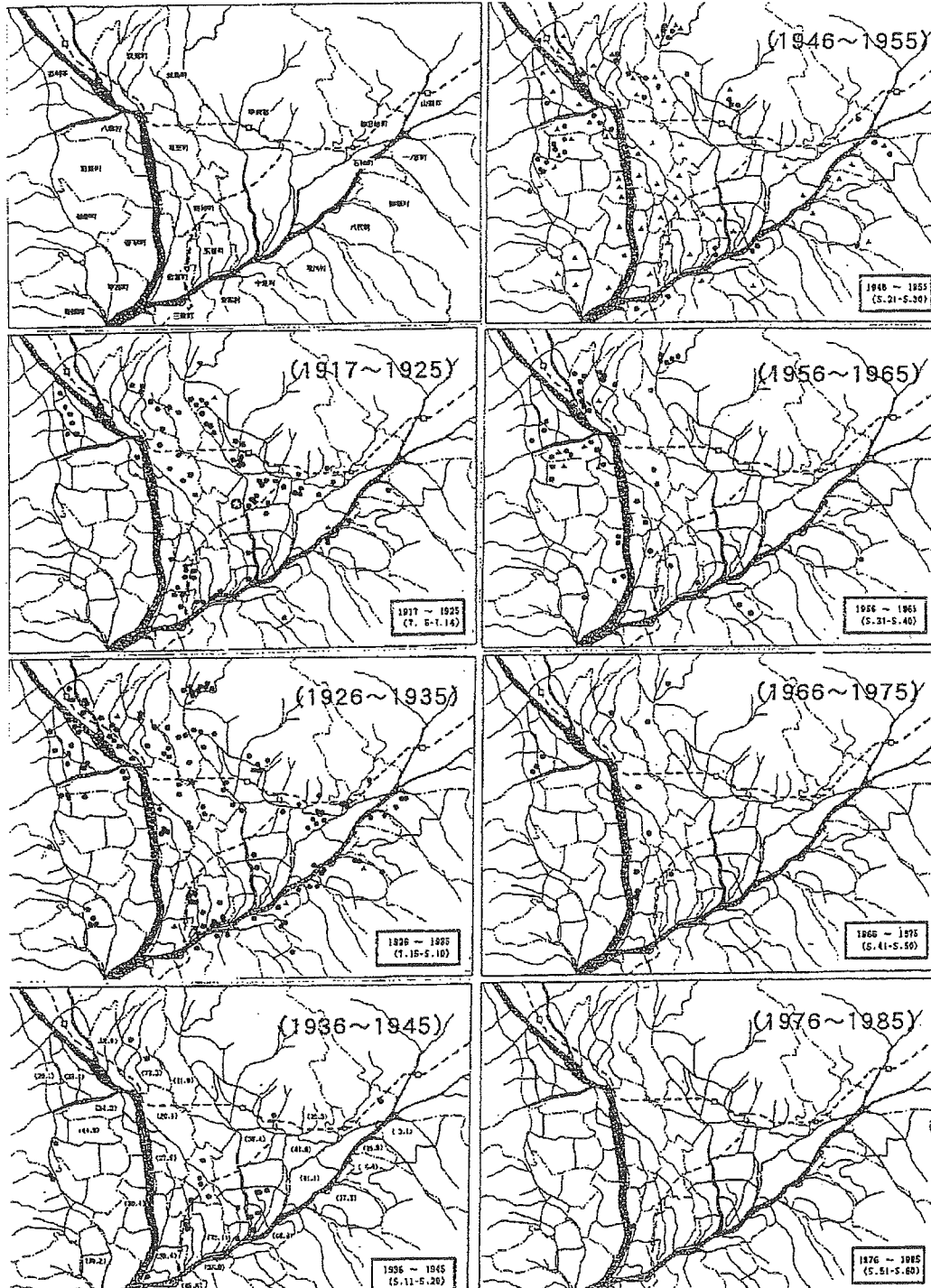
17. Fecal examination of domestic cattle and treatment.

Year	No. of examin	Egg positive	%	No. of treatment
1943	377	187	49.6	
1944	5612	1964	35.0	1785
1945	3238	1124	34.7	709
1946	1537	476	31.0	0
1947	810	384	47.4	146
1948	819	180	22.0	26
1949	1491	163	10.9	86
1950	1271	508	24.2	215
1951	3804	257	6.8	187
1952	3851	223	5.8	135
1953	3633	15.1	4.2	94
1954	2530	78	3.0	57
1955	2725	66	2.4	66
1956	2492	70	2.8	47
1957	1544	28	1.8	28
1958	2032	20	0.9	20
1959	2052	13	0.6	13
1960	1683	13	0.7	13
1961	1473	4	0.2	4
1962	1341	6	0.4	6
1963	1461	3	0.2	3
1964	1172	1	0.1	1
1965	932	0	0.0	0
1966	1097	0	0.0	0
1967	545	0	0.0	0

Year	CATTLE	HORSE
1915	2324	17564
1920	1640	17295
1924	1792	17218
1925	1882	15682
1935	1723	14100
1940	—	—
1943	10801	13356
1945	10995	13432
1950	11650	12707
1955	18673	8561
1960	20135	3966
1965	14098	960
1970	12812	257

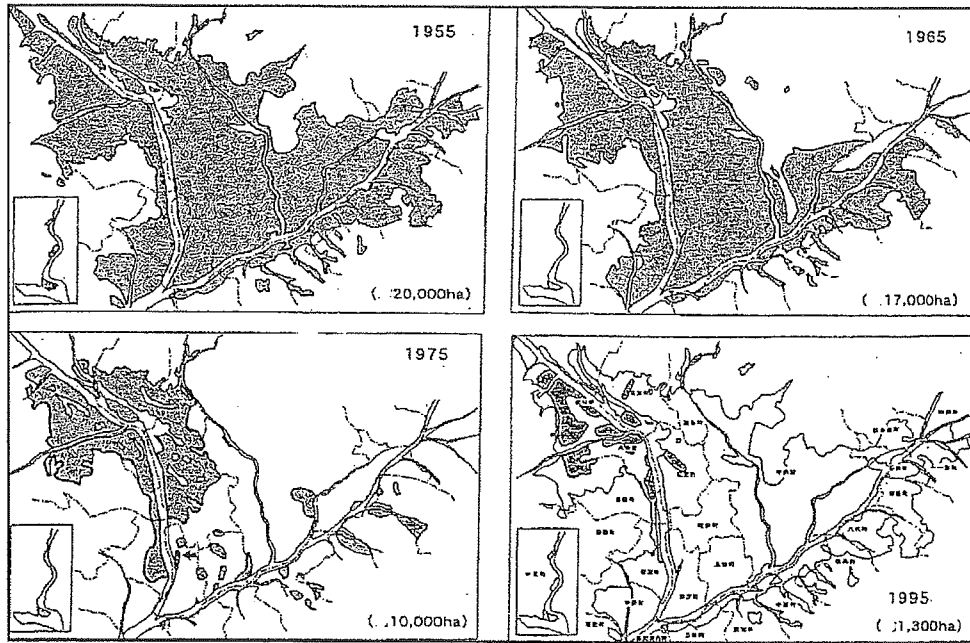
Fecal examination: 1944 to 1949, Kato-katz method.
 After 1950, Direct curettage of recum mucous membrane methods.
 Treatment: 1944 to 1946
 Reference; 1944 to 1951, 1952 to 1956

18. Annual record of Miyairi snail habitation (1917 - 1985)

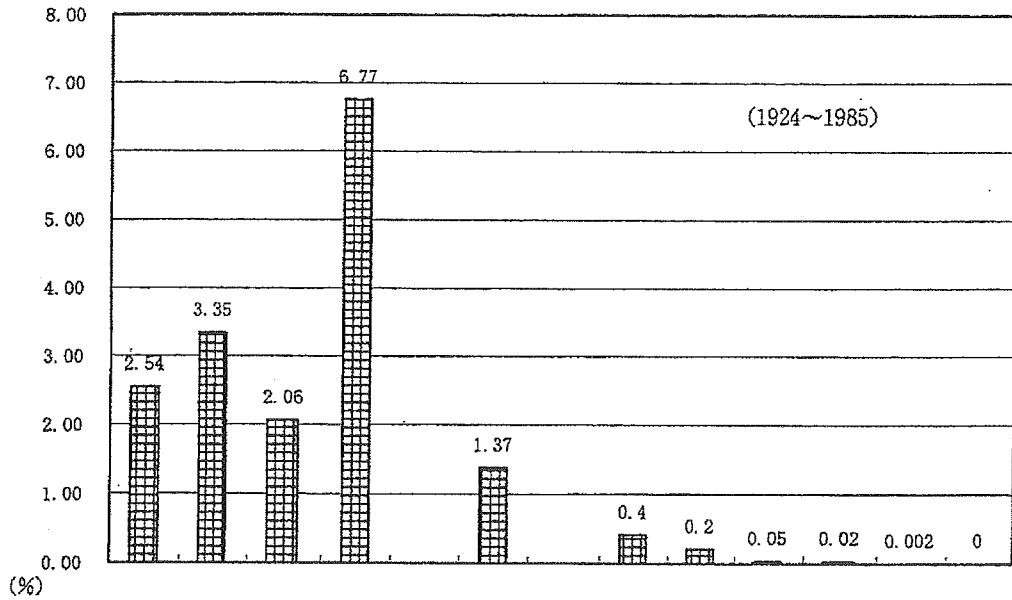


- Point of Miyairi snail habitation.
- ▲ Report of Miyairi snail habitation.

19. Annual record of Miyairi snail habitation (1917 - 1985)



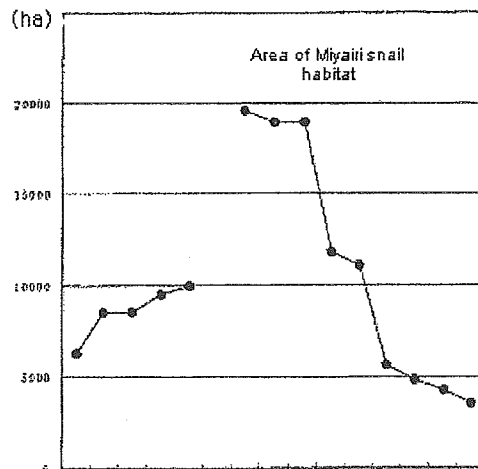
20. Annual record of infection rate of Miyairi snail.



21. Annual record of Miyairi Snail habitation

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
KOFU	41.3	41.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TAMAHO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SYOWA	27.9	33.9	42.9	15.1	28.1	25.7	30.7	30.7	21.1	15.1	8.2
TATOMI	10.8	10.8	10.8	10.8	23.9	42.4	10.8	10.8	0.0	0.0	0.0
RYUOU	242.0	286.7	254.4	276.9	266.3	288.8	305.2	66.2	68.3	56.7	39.8
SHIKISHIMA	109.4	106.6	118.8	80.0	49.0	5.5	43.5	41.6	39.5	43.8	20.0
MITAMA											
ISAWA	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
ICHINOMIYA											
MISAKA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
YATUSHIRO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SAKAIGAWA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NAKAMICHI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOYOTOMI											
HATTA	289.1	297.2	331.1	258.8	292.1	280.8	349.4	322.1	360.9	297.6	186.6
SHIRANE	236.8	231.1	207.9	187.1	241.6	234.1	268.9	268.9	269.4	268.9	139.1
KUSHIGATA											
WAKAKUSA	149.0	126.2	162.9	162.9	140.5	135.6	126.6	130.7	130.7	120.8	115.2
KOUSAI											
MASUHO											
FUTABA	85.7	86.4	117.7	80.8	44.0	43.5	44.0	32.0	14.0	41.1	4.6
NIRASAKI	464.9	466.2	470.6	470.8	418.9	313.4	396.5	424.8	335.4	393.3	391.4
KASUGAI											
YAMANASHI											
NAKATOMI	55.6	554.0	62.4	58.8	59.4	60.4	62.4	63.0	63.0	63.0	58.1
ICHIKAWADAIMONN											
TOTAL	1712.5	1741.8	1779.6	1602.0	1593.8	1430.2	1638.1	1390.8	1302.3	1288.4	963.0

Snail habitation area: Total area size of the snail habitation in each region was sum of the reported until where the snails were found. Basically the area size of the endemic area and the snail habitation are the same. However, the endemic area needed to process the steps to declare disease free, the area since of the endemic area was bigger than that of the snail habitation.



22. Amount of using Quicklime used for molluscicide

Present city	Previous City	Implementati on area (TANN)	Ditch extention (KEN)	Ridge extention (KEN)	Amount of Quicklime (HYOU)	No. of workers	Period	Not implementation area (3300m ²)
KOFU	KOFU	987	161871	384055	106108	14809	1925 - 26, 31 - 38	0
	TAMAO	304	47128	29498	46800	2665	1925 - 27, 30 - 38	17
	YAMASHIRO	170	29785	39575	14659	2762	1937 - 38	25
	KOUJUNN	126	29653	15162	25453	1775	1925 - 26, 30 - 38	0
	TIZUKA	170	25016	40560	11278	1406	1925 - 33	0
	OOMIYA	86	6493	29434	9761	695	1929 - 31	0
	SUMIYOSHI	238	30404	43715	15032	2355	1937 - 38	0
	ASAI	35	4106	8100	2302	362	1938	45
	CHIYODA	4	280	480	75	14	1938	0
	IKEDA	180	27777	89859	28990	2804	1929 - 23	0
	OOKAMADA	100	23352	5072	11287	2208	1938	99
FUTAKAWA	35	4860	13125	2854	439	1938	85	
TAMAHO	INAZUMI	76	13212	20839	6388	874	1938	209
	SANNCYOU							249
SYOUWA	SAJYOU	331	78037	189114	42258	7566	1937 - 38	20
	JYOUSUI	177	24733	66557	13933	1982	1937 - 38	28
TATOMI	OIKAWA	50	7870	17425	3640	624	1938	40
	HANAWA, SHINOBU							278
RYUUJOU	RYUUJOU	505	74353	190304	62287	7541	1929 - 38	0
	TAMAHATA	285	50603	99726	30277	4014	1931 - 38	0
SHIKISHIMA	SHIKISHIMA	336	35006	84369	33811	3323	1927 - 31	0
	MUTUZAWA	24	1731	8541	2749	320	1927 - 30	0
	YOSHIZAWA	32	2190	11303	3517	382	1926 - 27, 30	0
KASUGAI	KASUGAI	77	5316	797	4002	327	1926	0
	OKABE	159	18876	6012	13646	818	1926 - 27, 30	0
ISAWA	ISAWA	42	9326	12575	5945	798	1927 - 30, 32 - 33	0
	HANABUSA	186	33048	47705	23599	2235	1928, 30 - 31	0
	FUJIMI	175	19276	23513	10398	987	1929 - 30, 34	0
ICHINOMIYA		130	10502	12575	12929	798	1926, 28 - 30	0
MISAKA	NISHIKI	87	13859	27422	9075	1401	1929 - 31	0
	KINNSYOU	8	1260	2110	450	94	1936	0
	KACYOU	10	910	2425	500	118	1937	0
YATSUSHIRO	KITAYATSUSHIRO	71	18608	28450	8355	1094	1933 - 34	0
	MINAMI YATSUSHIRO	90	14361	26878	8750	916	1933	0
	NAGAI	5	314	1250	350	48	1937	0
	KOUKE	15	1770	2200	550	124	1938	0
	YONEKURA	5	730	1350	350	80	1938	0
	MASUDA	49	10840	13151	4818	601	1922 - 34	0
SAKAIGAWA	SAKAIGAWA	120	24421	59136	12505	1779	1934 - 36	0
NAKAMICHI	SIRAIKAWAHARA	41	6839	4302	2855	361	1929, 1934	0
	KAMISONE	85	11592	28084	6.52	983	1934 - 35	0
	SHIMOSONE	45	6247	10971	2643	408	1935 - 36	0
	YUSAGUCHI	87	10605	36510	7555	1689	1935 - 37	0
TOYOTOMI	TOYOTOMI	108	11873	49015	9530	1299	1933 - 36	0
MITAMA	OTSUKA	75	6555	3040	2505	370	1933	0
HATTA	MIKAGE	230	32216	88294	21838	3758	1933 - 38	10
	TANOOKA	65	16891	12195	6500	984	1936, 38	34
SHIRANE	MINAMOTO	80	2960	16995	3698	562	1935 - 36	0
	IINO	20	1968	2088	1015	161	1938	0
	MOMOTA	78	10080	21330	3534	800	1934 - 1936	0
	IMASUWA	58	23205	31980	9191	1239	1936 - 37	2
WAKAMUSA	NIBANN	11	1190	2130	5.6	80	1035 - 36	0
	KAGAMINAKAJYOU	101	28612	38812	9754	1153	1037 - 38	0
	FUJITA	55	3460	4851	1639	226	1935 - 36	0
KASAI	OCHIAI	4	520	560	200	40	1935	0
	OJI	8	1665	1960	650	99	1936	0
	GOMYOU	156	16265	25300	8765	1199	1932 - 36	0
	NANNGO	199	20321	43230	10436	1652	1934 - 36	0
MASUHO	MASUHO	18	1660	630	660	101	1934	0
FUTABA	TOMI	215	38901	119259	40544	3723	1927 - 30	0
	SIOZAKI	365	55916	167359	54621	7027	1932 - 33	0
NIRASAKI	NIRASAKI	122	19406	37623	9373	1651	1928 - 37	20
	SEITETSU	20	2138	1889	765	225	1934 - 35, 37 - 38	0
	KAMIYAMA	50	9288	3163	4.956	472	1938	0
	ASAHI	193	29245	61807	27808	2351	1927, 30	0
	OOKUSA	145	28363	61295	25329	2765	1927 - 29, 31	0
	TATSUOKA	173	32025	105301	32802	3800	1928 - 31, 33 - 35	0
KUSHIGATA	SAKAKI							10
ALL TOTAL		8287	1292083	2645380	895937	1106180		1171

Reference: Tatsuya Kato, Research and prevention of Schistosomiasis japonica in Yamanashi, 1940
 The table was used unit, 1 TAN:3300m², 1 KEN: 180m, 1 HYOU: 21kg

23. Amount of using Quicklime used for molluscicide

Year	Enterprise	molluscicide No. of town	Area (CHOU)	Ridge extention (KENN)	Ridge extention (KENN)	Area of farm (UNE)	Amount of Calcium cyanamide (BAG)	Amount of Carbide (CAN)	Total no. of workers (PERSONS)
1944 - 1948	Prefectural	1-53	11996	2076898	1809750	29083	57558	3027	128561
1948	Village-run	1-51	8875	549857	444129	12211	11495	-	27907
1949	Village-run	1-25	3928	683296	536115	-	15715	-	43333
1950	Village-run	1-51	?	1585827	1246553	156623	52743	8	74721
1951	Village-run	1-58	4467	923992	666061	1213	26212	50	47711
TOTAL			29266	5819870	4702608	199130	163723	3085	322233

24. Amount of kerosene for molluscicide in the year

Unit: 1 liter

YEAR	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
KOFU	1665	375	180		450	1922	2125	3220	1100	396	570	648	144	630
TAMAHO				4800	6200	10000	1290	4300	4000	1362	1725	1000	1133	1429
SYOUWA				1500	4800	8100	4200	12821	10812	2800	2439	2381	1935	1807
TATOMI				9382	250	5000	5000	8268	220	2741	1538	1329	900	480
RYUUOUJ				600	400	5100	5458	2520	1700	1885	1800	1200	1798	2070
SHIKISHIMA	450	2135	3998	3805	2365	3829	2961	7939	4550	5897	4976	3650	3760	4353
ISAWA						54		36						72
ITINOMIYA						142	100							
MISAKA					50	18		730						27
YATUSHIRO	20			150	18	400		1000	600	418	400	40		60
SAKAIGAWA								482		200				
NAKAMICHI				2	980		200			180	40			
TOYOTOMI				72										
MITAMA														
HATTA				4000	6300	3777	2800	5942	4628	4187	1580	310	1500	1112
SHIRANE				6400	5429	2497	1509	3285	3450	2377	1203	942	167	563
KUSHIGATA														
WAKAKUSA			450	1200	350	200	14990	16000	4700	2716	800		90	1127
KOUSAI														
MASUHO														
FUTABA			1386	20		3553	5200	5234	5712	2248	1095	1618	400	
NIRASAKI				11980	4636	9692	7300	10360	7030	5655	330	310	3873	330
KASUGAI														
YAMANASHI														
ICHIKAWADAIMONN														
NAKATOMI			120	120	520	340	1220	2370	1700	3150	1420	959	1765	1830
TOTAL	2135	2510	6014	43911	32228	54284	53133	82137	48502	33062	18496	13428	15699	14061

Reference; The war against regional disease (1977)

25. Amount of Santbrite and PCP (1953 - 1957)

Present City	Previous town	1953		1954		1955		1956		1957
		Sant bright	Sant bright	Na-PCP	Na-PCP	Na-PCP	Na-PCP	Na-PCP	Na-PCP	
		(Spring)	(Spring)	(Autumn)	(Spring)	(Autumn)	(Spring)	(Autumn)	(Spring)	
KOFU	OTHER AREA	300.46	1055	350						
	YAMASHIRO		264	25						
	SUMIYOSHI		295	35						
	ASAI		209	15						
	TAMAO		187	25						
	CHIYODA		-8	5						
	OOKAMADA		536	50						
	FUTAGAWA		321	25						
	KOUUNN		173	25						
	TOTAL		3028	555	2915	395	1000	2550		3410
TAMAHO	INAZUMI		625	100						
	SANCYOU		448	100*						
	TOTAL		1073	100	1060	**	910	369		855
SYOUWA	SYOUWA		770	92	758	100	1195	382	1120	
TATOMI	TATOMI		636	100	626	85	500	80	480	
RYUJOU	RYUJOU		603	150	595	80	825	130		
	TAMAHATA	303.88	431	75	425	60	510	148		
	TOTAL	303.88	1034	225	1020	140	1335	278		1250
SHIKISHIMA	SHIKISHIMA		565	*						
	MUTSUZAWA	16.5	181	*						
	YOSHIZAWA	21.74	146	*						
	TOTAL	38.24	892		840	110	490	80		460
ISAWA	ISAWA		200	35	187	25	205	30	680	
	HAYABUSA		277	*	274	37	350	170		
	FUJIMI	115.52	155	30	148	20	380	60	360	
	TOTAL	115.52	632	65	609	82	935	260	1040	
ITINOMIYA	ICHINOMIYA		176	35	172	25	350	90	330	
MISAKA	KINSEI	80.17	108	15						
	KACYOU		3	3						
	TOTAL	80.17	111	28	92	15	160	25		235
YATSUSHIRO	YATSUSHIRO		440	25	436	60	400			
	GOSYO		14	*	13	10	45			
	TOTAL		454	25	449	70	445	75		420
SAKAIGAWA	SAKAIGAWA		188	25	186	30	200	35	180	
NAKAMICHI	KASHIWA		103	25						
	YUSAGUCHI		128	25						
	TOTAL		231	50	227	30	375	60		355
TOYOTOMI	TOYOTOMI	380.07	263	50	261	35	250	40	235	
MITAMA			267	15	248	30	160	25	150	
HAATA	MIKAGE	554.36	376	75	366	50	430			
	TANOUCI	277.89	191	50	183	25	200			
	TOTAL	832.25	567	125	549	75	630	110		595
SHIRANE	MOMOTA		102							
	IMASUWA	369.54	251	50						
	KOMA		21			335	50	280	65	
	SHIRANE					61	10	110	70	
	MINAMOTO	101.01	66	*						
TOTAL	470.55	440	50	396	60	390	135		370	
KUSHIGATA	SAKAKI		52	5	50	10	20	10	20	
WAKAKUSA	SANKEI		16							
	KACAMINAKAYOU	563.15	454	*						
	FUJITA		88							
	TOTAL	563.15	538		435	60	625	285		585
KOUSAI	GOMYOU		203	10						
	NANNGO		223	50						
	OCHI		21	5						
	OCHIAI		4	5						
	TOTAL		451	70	526	70	625	100		595
MASUHO	MASUHO		14	5	13	10	30	10	30	
FUTABA	TOMI	510.28	348	60						
	SHIOZAKI	598.19	469	40						
	TOTAL	1108.47	817	100	796	100	835	150		790
NIRASAKI	NIRASAKI	186.88	265	35						
	FUJII		12	5						
	SEITETSU		77	8						
	KAMIYAMA		100	12						
	ASAHI	136.28	382	60						
	OOKUSA	175.6	614	70						
	TATSUOKA	581.47	802	80						
	TOTAL	1090.23	2252	270	2193	280	1360	240		1275
KASUGAI	OKABE		137	*	133	10	265	174		
	KASUGAI		3	10	32	10	50	48		
	TOTAL		140	10	165	20	315	222		125
NAKATOMI				110	43	160	60	55		
YAMANASHI	HIKAWA		41	*	41	10	50	15	50	
TOTAL		5283	15067	2000	14737	1695	14145	5656	15000	

Statistics tables

26. Amount of molluscicide in the year

	1966		1966		1967		1968		1969		1970		1971		1972		1973		1974		1975		1976		1977		1978		1979		1980		1981		1982		1983		
	PCP	Yulmin	PCP	Yulmin	PCP	Yulmin	PCP	Yulmin	PCP	Yulmin	PCP	Yulmin	PCP	Yulmin	PCP	Yulmin	PCP	Yulmin	PCP	Yulmin	PCP	Yulmin	B-2 lab.	B-2 lab.	B-2 lab.	B-2 lab.	B-2 lab.	B-2 lab.	B-2 lab.	B-2 lab.	B-2 lab.	B-2 lab.	B-2 lab.	B-2 lab.	B-2 lab.	B-2 lab.	B-2 lab.		
KOFU	800	50	700	50	800	220	800	250	800	50	100	800	1000	1000	1000	1000	600	600	1320	1320	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	
TAMAHO	300	200	200	200	220	50	80	140	450	80	80	80	200	200	200	200	200	200	400	400	250	300	300	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
YTOUYA	500	250	120	100	100	10	30	60	20	20	80	60	200	200	200	200	200	200	400	400	150	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
FATOWA	200	100	80	50	50	230	350	200	200	200	350	200	200	200	200	200	200	200	500	500	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
FYLLICU	2000	300	3280	3000	3240	700	440	2280	750	3000	2950	3500	7000	5000	5000	5000	5000	5000	5000	5000	5000	5000	2240	2040	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	
SHIKISHIMA	800	50	880	980	1200	26	20	20	20	20	20	20	25	20	20	20	20	20	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
ISAWA	100	100	50	20	60	20	40	80	20	20	40	40	5	100	20	20	20	20	300	300	300	300	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	
ICHINOMIYA	300	100	100	60	60	5	50	120	100	290	100	290	300	500	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	
MISAKA	300	200	100	30	30	5	20	60	30	20	20	20	50	17	20	20	20	20	60	60	40	40	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
YATISUSHIRO	100	50	50	10	10	30	30	30	30	30	30	30	50	17	20	20	20	20	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
SAKAGAWA	950	300	140	20	20	20	80	200	20	140	100	100	240	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	
NAKAWACHI	50	50	20	20	20	70	30	20	20	30	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
TOYOTOMI	100	300	2800	3000	3000	300	2000	1250	500	4250	670	4300	5198	3400	3400	3400	3400	3400	4000	4000	2500	1440	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	
MITAMA	1700	200	2000	1920	2000	500	1500	1200	1000	2500	1000	2500	3000	3000	3000	2000	2000	1000	1500	1500	800	260	1000	1000	1200	1200	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400		
HATAI	1610	200	2300	1920	2000	500	1500	1200	1000	2500	1000	2500	3000	3000	3000	2000	2000	1000	1500	1500	800	260	1000	1000	1200	1200	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400		
SHIRANE	900	200	2400	2700	12500	300	1800	700	300	1200	300	230	1100	1000	1000	1000	1000	1000	1400	1400	600	300	1500	2000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000		
KUSHIGATA																																							
WAKAKUSA																																							
KOUSAI																																							
IKASUHO																																							
HIRABA	1700	200	1700	1700	1500	300	740	1070	530	1560	500	1560	1700	1600	1600	1600	1600	1600	1600	1600	1600	1000	900	2150	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000		
HIRASAKI	3500	300	4400	4830	4500	800	2750	3500	1400	3870	1920	6535	7400	5000	6000	7080	3980	3913	8800	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000		
NAKATOMI	200		580	500	500	200	400	600	510	600	600	600	600	600	600	600	600	600	180	180	60	20	140	350	650	650	650	650	650	650	650	650	650	650	650	650	650	650	
KASUGAI																																							
YAMAYASHI																																							
ICHIKAWADAIMONN																																							
TOTAL	16210	1560	20100	19960	18940	4030	12730	13820	5250	21820	8420	22260	30800	21130	20930	24590	13650	11713	25080	23420	23940	13150	6035	1320	14685	11485	9245												

Unit: PCP, Yulmin, B-2 Tablet, Kg, B-2 Liquid, 500ml
 Cost: B-2 Tablet ¥680 (1979), ¥710 (1980), ¥740 (1981)

27. Concrete irrigation canal extension

PLACE	1950 - 1956		1957 - 1973		1974	1975	1976	1977	1978	1979	1980	1974 - 1980		TOTAL 1950 - 1980	
	Ditch extension (m)	TOTAL EXPENSES	Ditch extension (m)	TOTAL EXPENSES	Ditch extension (m)	Ditch extension (m)	Ditch extension (m)	Ditch extension (m)	Ditch extension (m)	Ditch extension (m)	Ditch extension (m)	Ditch extension (m)	TOTAL EXPENSES	Ridge extension (KEMN)	TOTAL EXPENSES
KOFU	23575	24984738	157509	408591999	2784	4242	4812	6864	18887	8826	7604	54019	11089322664	233.103	15428994400
TAMAHO	7229	7983510	91473	219168977	1911	1842	2053	2874	4736	2400	1393	17209	475214094	115911	702367581
SYOWA	7427	8230800	89143	213579521	1192	1098	759	3507	3450	4197	2.639	16843	358835940	113413	580648261
TATOMI	8370	8839038	51430	138206486	1740	2244	2328	4719	4465	3103	2244	20843	507663150	80643	654708674
RYUDU	9852	12577138	142343	365813400	3152	5427	7419	4908	3649	870	2303	27728	315201492	180023	693592030
SHIKISHIMA	6752	7187608	38629	97531785	1843	2166	2714	2365	2086	1856	2036	15068	176115257	60.449	280834650
MITAMA	4607	5066200	24938	60301307										29545	65367507
ISAWA	9709	10062319	69844	148971638	1355	1958	1509	1976	2600	6065	6420	21883	296335455	101436	455369412
ICHINOMIYA	3480	3509849	15760	31494816	419	222	183	473	613	607	674	3171	44049838	22411	79054103
MISAKA	4092	3347797	38528	70578662	301	1413	1310	1247	504	82		4857	39677671	45477	113605130
YATSUSHIRO	6090	5656507	25128	38421266	1093	864	879	1350	3019	2202	2023	11430	155828171	42648	199805944
SAKAGAWA	3006	2653039	33752	80899486	183	222	350	298	361	595	420	2429	66845129	39187	130197654
NAKAMICHI	3847	4034637	60293	118357336	893	895	404	955	826	1026	1064	6063	71823662	70203	194215625
TOYOTOMI	3019	3311260	37204	61005205										40223	64318465
HATTA	13045	10216797	98575	152259306	800	1194	895	1601	1214	1380	976	8060	211934368	119880	374410471
SHIRANE	14031	11899537	110202	166802389	1180	1377	861	1465	1361	914	705	7853	150640069	132096	329341995
KUSHIGATA	1230	938599	1394	1081900										2624	2065499
WAKAKUSA	6956	7492189	72170	185453819	1395	2495	1017	2244	2759	1116	1227	12253	274544047	91379	467490055
KOUSAI	8.751	9887310	122270	251303522	877	706	548	1.168	921	771		4991	148913128	136.012	410103980
MASUHO	1147	1154239	2326	2598343										3473	3752582
FUTABA	10671	10959,054	75769	127098356	1236	2040	2224	1756	2607	1286	1145	12294	214731988	98734	352787398
NIRASAKI	24062	23284615	189361	390559110	5457	8203	8264	4804	3172	2201	2611	34712	391276173	248135	805120698
KASUGAI	4200	3982062	18311	27479064										22671	31461126
YAMANNASHI	1601	1529574	9835	25803644										11436	27333218
NAKATOMI	1456	999259	10898	15136812										12354	16136071
TOTAL	186365	189832475	1585085	2969906750	27811	38609	38509	44574	57230	39497	35486	281716	5008752286	2053186	8168491511

28. Concrete irrigation canal extension and total expenses.

	1981	1982	1981-1982		1983	1984	1985	1983-1985		All Total 1981-1985	
	Ditch extension (m)	Ditch extension (m)	Ditch extension (m)	TOTAL EXPENSES	Ditch extension (m)	Ditch extension (m)	Ditch extension (m)	Ditch extension (m)	Ditch extension (m)	Ditch extension (m)	TOTAL EXPENSES
KOFU	3840		3840	90509700	631	571	740	1942	85952820	5782	176462520
TAMAHO	1703	33	1736	36408686	458	713		1171	24413000	2907	60821686
SYOUWA	2962	1881	4843	98812130	623	663	513	1799	39032825	6642	137844955
TATOMI	4275	5355	9630	204810253	1188	1230	1354	3772	93760759	13402	298571012
RYUJOU	5691	3252	8943	197192740	1139	1282	1089	3510	89897892	12453	287090632
SHIKISHIMA	2431	3081	5512	95665760	805	517	836	2158	46208500	7670	141874260
MITAMA											
ISAWA	1785	714	2499	55115114	592	723	752	2067	46335950	4566	101451064
ICHINOMIYA	219		219	4831040						219	4831040
MISAKA	134		134	1690890	60		158	218	4350000	352	6040890
YATSUSHIRO	4674	2755	7429	132835037	472	658	813	1943	38069897	9372	170904934
SAKAIGAWA	2567	1247	3814	51920365						3814	51920365
NAKAMICHI	1738	1480	3218	46477000	800	54	2	273	411456		
TOYITOMI										5954	87891556
HATTA	1686	3040	4726	77942821	1119	955	884	2958	45084950	7684	123027771
SHIRANE	2013	3240	5253	76719081	527	617	961	2105	36502718	7358	113221799
KUSHIGATA											
WAKAKUSA	1543	726	2269	51369201	982	770	917	2669	59061750	4938	110430951
KOUSAI	423		423	8860973						423	8860973
MASUHO											
FUTABA	4427	4616	9043	161699063	682	646	595	1923	36634730	10966	198333793
NIRASAKI	4863	2247	7110	97164850	704	878	1180	2762	53682520	9872	
KASUGAI											150847370
YAMANASHI											
NAKATOMI	639	81	720	9316980	522	522	412	1456	18030000	2176	27346980
TOTAL	47613	33748	81361	1499341684	11304	11799	12086	35189	758432867	116550	2257774551

29. Use of a preventive ointment for ceraria infection.

	1954		1955		1956		1957	1961	1962	1963	1964	1969	1970	1971	1972	1973
	Tubes	Persons	Tubes	Persons	Tubes	Persons										
KOFU			440	880		960	1680	1680	1680	1680	168		200			
TAMAHO	257	514	157	314		460	560	308	79	140	23	56	116	360	1500	
SYOUWA	379	758	70	140		303	560	415	112	280	104					
TATOMI	50	100				40	280	336	224		15					
RYUJOU	500	1000	207	414		138	1104	1120	1120	840	392					
SHIKISHIMA	110	220	20	40		56		381	536	560	560					
MITAMA							34	118								
ISAWA	43	86	13	26		40										
MISAKA							135									
YATSUSHIRO							881									
NAKAMITI			100	200		150										
TOYOTOMI			41	82		100										
HATTA	802	1604	359	718		285	1960	2240	2240	2240	1680	560	2160	2400	900	
SHIRANE	310	620	316	632		557	2800	2800	2240	1748	2264	2240	3816	3640	1530	
WAKAKUSA	350	700	500	1000		300	555	560	840	1080	1288	1400	1800	1600	1050	1050
KOUSAI	231	462	1121	2242		1860	1960	1960	1960	560	784					
FUTABA	1248	2496	500	1000		410	1266	1400	1464	1636	106	1680	2880	2000	600	900
NIRASAKI	394	788	638	1276		1000	2128	1540	1040	1980	1182	3600	4810	2400	1050	
NAKATOMI						660	588	852	532	560	269	1120	880	800	750	
TOTAL	4674	9348	4482	8964	3555	7319	16491	15710	14067	13304	8835	10656	13400	7380	5805	5805

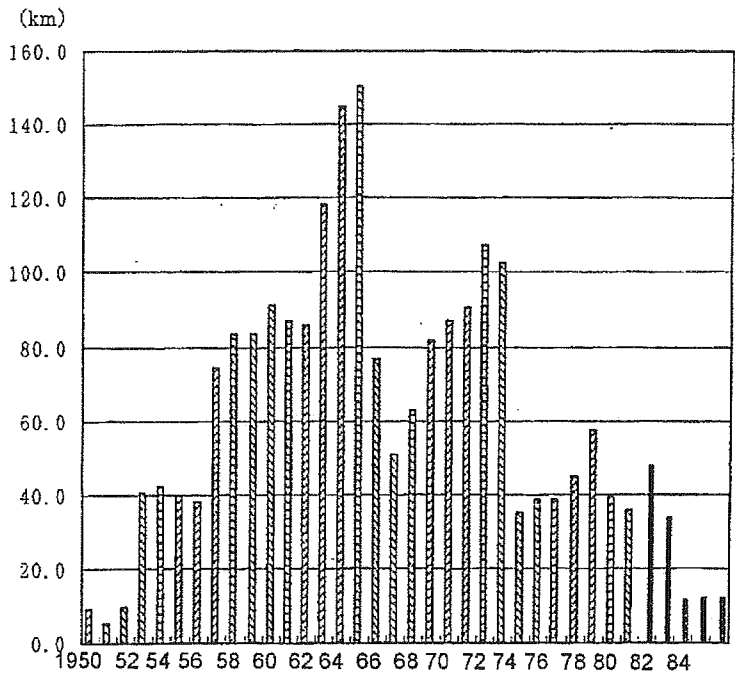
Reference: 1954 - 56 ; Report of Institute of Health And Environmental Science, 1960 - 1973 : The war against regional disease (1977)

In 1951 Bentrato (Benzyl benzoate, Dibutylphtalate), BD (Dimethylphtalate alone) were used.

Now, In 1955 - 1956 almost in village were used.

30. Annual record of the extension of construction

Year	Extention re-construction	Extention re-construction
1950	9	
1951	5.4	
1952	9.7	
1953	40.2	
1954	42.9	
1955	39.9	
1956	38.2	
1957	74.5	
1958	83.4	
1959	83.2	
1960	91.1	
1961	86.8	
1962	86	
1963	118.2	
1964	144.7	
1965	150.1	
1966	76.7	
1967	50.9	
1968	62.9	
1969	81.8	
1970	86.8	
1971	90.4	
1972	107.7	
1973	102.9	
1974	34.8	
1975	38.6	
1976	38.5	
1977	44.6	
1978	57.2	
1979	39.5	
1980	35.5	
1981		47.6
1982		33.7
1983		11.3
1984		11.8
1985		12.1



LRH: NARA AND OTHERS

RRH: HUMAN ISOTYPE RESPONSES TO S. JAPONICUM PARAMYOSIN

ANTIBODY ISOTYPE RESPONSES TO PARAMYOSIN, A VACCINE CANDIDATE FOR
SCHISTOSOMIASIS, AND THEIR CORRELATIONS WITH RESISTANCE AND
FIBROSIS IN PATIENTS WITH *SCHISTOSOMA JAPONICUM* IN LEYTE, THE
PHILIPPINES

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Abstract. We examined whether antibody isotype responses to paramyosin (PM), a vaccine candidate for schistosomiasis, are associated with age-dependent resistance and pathology in liver fibrosis using human sera collected from 139 individuals infected with *Schistosoma japonicum* in Leyte, the Philippines. Here, we report that IgA and IgG3 responses to PM

showed a positive correlation with age and that the epitopes responsible were localized predominantly within the N-terminal half of PM. In addition, the IgG3 response to PM was associated with serum level of procollagen-III-peptide (P-III-P), an indicator of progression of liver fibrosis. These results imply that IgG3 against PM may not only provoke age-dependent resistance to *S. japonicum* infection but also enhance granuloma formation. In contrast, levels of IgE to PM and to multiple PM fragments showed a negative correlation with P-III-P level. Thus, in contrast to IgG3, increases in PM-specific IgE may contribute to suppression of liver pathogenesis in schistosomiasis.