

附表－1. 新田の日降水量と袋山沢Aの日流出量  
Supplementary Table 1. Annual report of hydrological data at Fukuoyamasawa A in 2020

FUKUROYAMASAWA A				2020		unit: mm/day		n/a : data not available				annual precipitation at Shirata:				2234.9				annual runoff:				n/a			
January	February	March	April	May	June	July	August	September	October	November	December	rain	runoff	rain	runoff	rain	runoff	rain	runoff	rain	runoff	rain	runoff				
1	0.18	n/a	1.6	0.00	43.8	9.08		0.02	2.8	0.02	45.9	27.51		n/a	3.8	0.00	7.6	0.05		0.40		0.00					
2	0.11	n/a	8.1	0.10	1.6	7.70		0.01	0.6	0.01	10.2	10.74		n/a	6.0	0.00		0.00	0.00	17.6	0.43	10.6	0.00				
3	0.09	n/a		0.06	1.0	1.01		0.03		0.00	1.3	2.03		n/a		0.00		0.00	0.00	12.7	0.84	0.5	0.00				
4	0.07	n/a	28.7	1.55		0.49	8.2	0.10		0.00	56.4	n/a		n/a		0.00		0.00	0.00		0.07	0.00	0.00				
5	0.04	n/a	3.2	1.88	0.5	0.27		0.07		0.00	15.6	6.81		n/a	7.0	0.00		0.00	0.00	0.00	0.02	5.5	0.00				
6	0.02	n/a		0.13		0.13	2.2	0.10		0.00	52.5	18.55		n/a	6.0	0.04		0.00	0.00		0.01	0.00	0.00				
7	3.8	0.03	n/a	2.0	0.07	0.08	4.4	0.09		0.00	0.6	8.88		n/a	6.5	0.04	4.8	0.00	0.00		0.02	0.00	0.00				
8	21.4	1.68	n/a	15.8	0.79		0.05	0.04		0.00	1.3	2.41		0.07	0.5	0.01	45.5	1.54	0.5	0.02		0.00	0.00				
9		0.40	n/a	1.5	0.47	0.03		0.04		0.00	44.1	6.89		0.09	4.9	0.01	65.0	20.46		0.01		0.00	0.00				
10	0.15		n/a	48.4		0.01	2.2	0.09		0.00	2.6	8.85		0.10	14.6	0.25	88.8	53.71		0.00	1.8	0.00	0.00				
11	0.09		n/a			0.01		0.03	18.2	0.07	1.9	2.05		0.07	19.5	0.22	11.1	11.44		0.00		0.00	0.00				
12	0.06		n/a	0.32	11.8	0.02		0.01	24.1	1.79	10.4	1.26		0.02	9.2	1.07	0.5	2.14		0.00	0.00	0.9	0.00				
13	0.05	4.0	n/a	0.12	57.8	12.79		0.00	15.5	0.61	4.5	0.79		0.02	0.5	0.03		0.91		0.00	0.00	0.00	0.00				
14	0.03	0.6	n/a	0.56	0.5	1.35		0.00	2.1	0.47	31.8	3.81		0.02	0.02	0.00		0.40	0.00	0.00	0.00	0.00	0.00				
15	8.2	0.11	n/a	0.48		0.33		0.00	0.5	0.10		3.01		0.01	0.00	0.00	19.6	0.68		0.00		0.00	0.00				
16		0.04	n/a	0.10	0.5	0.16	25.2	0.30		0.06		1.12		0.00	2.2	0.00	0.5	0.74		0.00	0.5	0.00	0.00				
17	3.0	0.03	n/a	0.03	0.5	0.07	1.1	0.14		0.03	49.9	8.50		0.00		0.00	31.2	5.84		0.00		0.00	0.00				
18	26.8	1.29		0.02	123.7	71.19	4.4	0.03	5.1	0.03	80.4	69.36		0.00		0.00	3.2	2.93		0.00		0.00	0.00				
19	0.5	1.88	n/a	0.48		5.35	38.4	4.98	36.6	5.12	3.9	8.16		0.00		0.00	13.7	1.56		0.00		0.00	0.00				
20	0.41		0.00	3.70	13.8	2.29	1.1	0.30		1.31		2.21		0.00	1.6	0.00		1.62	0.00	0.00		0.00	0.00				
21	0.18		0.00	0.23		1.47	1.7	0.07		0.20		1.06		0.00	4.9	0.00		0.62	0.00	0.00		0.00	0.00				
22	0.09	8.7	0.01	0.10		0.70	14.0	0.38	44.5	9.13	3.4	0.84	1.7	0.00	12.4	0.03	2.7	0.39	1.6	0.00		0.00	0.00				
23	8.4	0.20	0.00	0.09	1.3	0.36	11.8	1.62	5.6	5.85	1.1	0.72	9.1	0.05	19.5	1.01	1.8	0.48		0.00		0.00	0.00				
24	0.5	0.20	0.00	0.09	0.20	0.20		0.32	1.4	1.04		0.58		0.00	39.5	2.68	2.7	0.73	2.2	0.00		0.00	0.00				
25	0.11		0.00	0.07		0.10		0.12	35.7	16.23	5.2	0.60		0.00	22.2	3.17		0.41	8.2	0.00		0.00	0.00				
26	12.9	0.69	0.01	0.03		0.07		0.06	0.5	2.43	21.2	1.26		0.00	34.6	7.97		0.30		0.00		0.00	0.00				
27	9.9	0.41	0.00	0.04		0.06		0.04		0.88		1.43	6.2	0.00		0.36		0.29		0.00		0.00	0.00				
28	81.8	n/a	0.00	0.96		0.08		0.03	56.5	31.15	2.3	0.35	4.0	0.00		0.12	0.31	0.00	0.00	0.12	0.00	0.9	0.00				
29	35.2	n/a	0.00	29.85		0.04	9.0	0.09		4.16	0.6	0.26		0.00		0.06		0.37		0.00		0.00	0.00				
30		n/a		2.75	0.03	0.03		0.04	20.4	3.74	1.1	n/a		0.00		0.03		0.32		0.00	20.2	0.55	0.01				
31		n/a		0.77				0.01				n/a		0.00				0.31					0.01				
total	212.4	n/a	253.6	99.60	265.7	115.52	123.7	9.16	270.1	84.43	448.2	n/a	21.0	n/a	215.4	17.12	298.7	108.55	42.8	1.82	40.9	0.56	0.56				

附養-2. 新田の日降水量と袋山沢Bの日流出量  
Supplementary Table 2. Annual report of hydrological data at Fukuroyamasawa B in 2020

FUKUROYAMASAWA B				2020		unit: mm/day		n/a : data not available				annual precipitation at Shinya:				2234.9		annual runoff:				n/a		
day	January rain	runoff	February rain	runoff	March rain	runoff	April rain	runoff	May rain	runoff	June rain	runoff	July rain	runoff	August rain	runoff	September rain	runoff	October rain	runoff	November rain	runoff	December rain	runoff
1		0.33		1.15	1.6	0.23	43.8	10.26		0.19	2.8	0.10	45.9	27.94		0.30		0.00	7.6	0.10		0.13		0.01
2	3	0.29		0.85	8.1	0.41	1.6	10.54		0.16	0.6	0.08	10.2	11.73		0.22	3.8	0.00		0.08	17.6	0.37	10.6	0.03
3		0.26		0.80		0.37	1.0	2.17		0.16		0.08	1.3	2.44		0.18	6.0	0.00		0.05	12.7	1.42	0.5	0.09
4		0.24		0.69	28.7	2.82		1.13	8.2	0.51		0.06	56.4	n/a		0.15		0.00		0.08		0.31		0.04
5		0.28		0.68	3.2	3.56	0.5	0.75		0.33		0.06	15.6	n/a		0.13	7.0	0.00		0.02		0.21	5.5	0.06
6		0.23		0.62		0.61		0.50	2.2	0.37		0.05	52.5	n/a		0.10	6.0	0.01		0.01		0.22		0.07
7	3.8	0.20		0.62	2.0	0.35		0.39	4.4	0.57		0.05	0.6	n/a		0.10	6.5	0.01	4.8	0.01		n/a		0.07
8	21.4	1.96		0.73	15.8	1.10		0.33		0.45		0.04	1.3	n/a		0.07	0.5	0.01	45.5	1.56	0.5	n/a		0.06
9		0.90		0.59	1.5	1.33		0.28		0.47		0.02	44.1	n/a		0.06	4.9	0.00	65.0	22.28		n/a		0.01
10		0.44		0.65	48.4	15.55		0.23	2.2	0.37		0.01	2.6	n/a		0.06	14.6	0.14	88.8	53.36		n/a	1.8	0.03
11		0.34		0.58		8.76		0.21		0.41	18.2	0.08	1.9	n/a		0.04	19.5	0.10	11.1	11.81		n/a		0.05
12		0.31		0.85		1.51	11.8	0.32		0.35	24.1	1.50	10.4	n/a		0.01	9.2	0.80	0.5	2.74		n/a	0.9	0.06
13		0.28	4.0	0.69		0.83	57.8	15.61		0.31	15.5	0.50	4.5	n/a		0.01	0.5	0.14		1.19		n/a	0.07	0.07
14		0.24	0.6	0.52	16.2	1.21	0.5	3.26		0.43	2.1	0.79	31.8	n/a		0.04	0.04	0.05		0.70		n/a	0.05	0.05
15	8.2	0.35		0.31		1.45		1.19		0.22	0.5	0.17		n/a		0.04		0.01	19.6	1.33		n/a		0.02
16		0.24	12.1	0.55		0.83	0.5	0.72	28.2	0.82		0.05		n/a		0.08	2.2	0.00	0.5	1.64		n/a	0.5	0.01
17	3.0	0.22	3.5	0.64		0.50	0.5	0.51	1.1	0.60		0.04	49.9	n/a		0.05		0.00	31.2	6.69		n/a		0.01
18	26.8	2.46		0.27		0.35	123.7	66.35	4.4	0.31	5.1	0.06	80.4	n/a		0.01		0.00	3.2	4.74		n/a		0.02
19	0.5	4.27		0.15	28.1	0.84		6.69	38.4	5.43	36.6	5.06	3.9	n/a		0.00		0.00	13.7	1.98		0.04		0.00
20		1.49		0.14	4.2	5.51	13.8	3.08	1.1	0.80		2.60		n/a		0.00	1.6	0.00		2.24		0.06		0.00
21		0.90		0.17		1.19		2.54	1.7	0.36		0.57		n/a		0.00	4.9	0.00		1.11		0.04		0.00
22		0.67	8.7	0.82		0.73		1.45	14.0	0.72	44.5	10.33	3.4	1.05	1.7	0.00	12.4	0.01	2.7	0.66	1.6	0.03		0.01
23	8.4	0.97		0.27	0.5	0.59	1.3	0.93	11.8	2.52	5.6	8.88	1.1	0.80	9.1	0.04	19.5	0.70	1.8	0.48		0.04		0.01
24	0.5	0.97		0.27	0.5	0.50		0.69		1.05	1.4	2.09		0.62		0.02	39.5	2.34	2.7	0.64	2.2	0.03		0.01
25		0.89		0.30		0.38		0.48		0.44	35.7	18.16	5.2	0.54		0.00	22.2	3.74	0.51	8.2	0.11		0.01	0.01
26	12.9	2.01	9.2	0.47		0.37		0.39		0.27	0.5	3.73	21.2	0.89		0.00	34.6	8.99		0.28	0.06		0.01	0.01
27	9.9	1.72		0.25		0.41	8.9	0.40		0.19		1.26		1.91	6.2	0.00		0.69		0.24	0.03		0.00	0.00
28	81.8	27.58		0.20	30.7	1.04		0.58		0.13	56.5	30.44	2.3	0.71	4.0	0.01		0.24	0.31	0.02	0.9		0.00	0.00
29	35.2	57.43	4.3	0.27	64.1	37.35		0.40	9.0	0.21		4.91	0.6	0.50		0.00		0.11		0.28		0.01	0.00	0.00
30		3.39				4.94		0.29		0.10	20.4	3.49	1.1	0.42		0.00		0.06		0.19	0.01		0.44	0.08
31		1.62				1.66				0.08				0.36		0.00				0.16			0.08	0.35
total	212.4	113.48	42.4	14.80	253.6	97.28	265.7	132.67	123.7	19.33	270.1	95.26	448.2	n/a	21.0	1.72	215.4	18.15	298.7	117.47	42.8	n/a	40.9	1.35

附表—3. 新田の日降水量と袋山沢Cの日流出量

Supplementary Table 3. Annual report of hydrological data at Fukuroyamasawa C in 2020

annual runoff: n/a

附表-4. 東郷ダムの日降水量と丸山沢の日流出量  
Supplementary Table 4. Annual report of hydrological data at Maruyamazawa in 2020

MARUYAMAZAWA				2020				unit: mm/day				n/a : data not available				annual precipitation at Togo Dam: n/a				annual runoff: n/a						
day	January rain	February rain	March rain	April rain	May rain	June rain	July rain	August rain	September rain	October rain	November rain	December rain	runoff	runoff	runoff	runoff	runoff	runoff								
1	n/a	n/a	n/a	1.0	n/a	n/a	1.86		0.67	0.79	0.58	1.5	0.80	n/a	0.67	1.09	1.81	0.67	0.67	0.67	0.67	0.5	3.0	0.85	0.5	n/a
2	5.0	n/a	n/a	2.0	n/a	n/a	1.82	26.0		0.67	n/a	0.5	n/a	3.5	n/a	n/a	1.79	0.66	0.66	0.63	n/a	1.0	0.82	n/a	n/a	n/a
3	0.5	n/a	n/a	n/a	n/a	n/a	1.70			0.67	n/a	0.5	n/a	7.5	n/a	n/a	1.36	6.5	0.79	12.5	n/a	6.5	0.87	n/a	n/a	n/a
4	n/a	1.5	n/a	3.5	n/a	n/a	1.60			0.77	n/a	0.69	6.5	0.87	n/a	n/a	1.20	10.0	0.78	5.5	n/a	2.0	0.93	n/a	n/a	n/a
5	n/a	n/a	5.5	2.5	n/a	n/a	1.52			0.81	n/a	1.68	2.0	0.93	n/a	n/a	1.08	3.0	0.80		0.68	n/a	1.27	n/a	n/a	n/a
6	0.5	n/a	0.5	5.5	n/a	n/a	1.45			0.82	n/a	0.94	1.27	1.27	n/a	n/a	1.38	5.5	0.81		0.62	n/a	2.5	1.79	n/a	n/a
7	n/a	1.0	n/a	0.5	n/a	n/a	1.38			0.59	n/a	0.69	3.0	1.74	3.0	1.74	0.5	0.68	0.68	0.63	n/a	4.5	1.50	n/a	n/a	n/a
8	n/a	0.5	n/a	n/a	n/a	n/a	1.25			0.56	n/a	0.65	4.5	1.50	n/a	n/a	1.03	0.5	0.69	6.5	0.72	7.5	1.34	n/a	n/a	n/a
9	n/a	n/a	n/a	2.0	n/a	n/a	1.17			0.72	n/a	0.64	7.5	1.34	n/a	n/a	0.97		0.67		0.63	1.20	1.20	n/a	n/a	n/a
10	n/a	n/a	21.0	n/a	n/a	n/a	1.15			0.63	n/a	0.62	1.20	1.20	n/a	n/a	0.93	2.5	0.69		0.59	0.74	1.12	n/a	n/a	n/a
11	0.5	n/a	9.0	n/a	n/a	n/a	1.12			0.69	n/a	0.74	1.12	n/a	n/a	n/a	1.07	2.5	0.64	1.5	0.60	1.49	5.0	1.40	n/a	n/a
12	n/a	n/a	0.5	n/a	n/a	n/a	1.04			0.76	n/a	0.96	3.0	1.82	3.0	1.82	0.98	18.5	0.76	1.0	0.60	0.96	3.0	1.82	0.5	n/a
13	n/a	n/a	n/a	n/a	n/a	n/a	1.02			0.61	n/a	0.84	1.55	0.5	n/a	n/a	1.02	12.5	1.46	1.0	0.61	0.84	2.0	2.08	n/a	n/a
14	n/a	n/a	n/a	n/a	n/a	n/a	1.97			0.77	n/a	0.72	2.00	n/a	n/a	n/a	0.85		0.78	n/a	0.77	2.0	2.08	n/a	n/a	n/a
15	n/a	n/a	0.5	n/a	n/a	n/a	1.50			0.57	n/a	0.68	2.00	n/a	n/a	n/a	0.82		0.69	n/a	0.61	0.72	2.0	2.08	n/a	n/a
16	n/a	6.0	n/a	n/a	n/a	n/a	1.33			0.68	n/a	0.68	2.00	n/a	n/a	n/a	0.80		0.66	n/a	0.57	0.72	2.0	2.08	n/a	n/a
17	n/a	1.0	n/a	n/a	n/a	n/a	1.22			0.68	n/a	0.68	2.00	n/a	n/a	n/a	0.77		0.65	n/a	0.91	0.68	1.55	1.0	n/a	n/a
18	n/a	n/a	n/a	n/a	n/a	n/a	1.05			0.65	n/a	0.64	1.00	n/a	n/a	n/a	0.76	1.0	0.69	n/a	0.79	0.64	1.00	n/a	n/a	n/a
19	n/a	n/a	n/a	n/a	n/a	n/a	1.21			0.66	n/a	0.63	9.0	n/a	n/a	n/a	0.87		0.66	n/a	0.69	0.63	9.0	n/a	n/a	n/a
20	2.0	1.5	n/a	1.0	n/a	n/a	1.12			0.64	n/a	0.62	3.0	n/a	n/a	n/a	0.89		0.64	n/a	0.65	0.62	3.0	n/a	n/a	n/a
21	1.5	n/a	0.5	3.5	n/a	n/a	1.05			0.62	n/a	0.65	3.0	n/a	n/a	n/a	0.5	0.83	0.62	n/a	0.63	4.0	0.68	n/a	n/a	n/a
22	1.0	n/a	n/a	n/a	n/a	n/a	0.99			0.58	n/a	0.68	1.5	n/a	n/a	n/a	0.99	4.5	0.58	n/a	0.60	0.65	1.5	n/a	6.0	n/a
23	0.5	n/a	1.0	5.5	n/a	n/a	0.98			0.55	n/a	0.72	0.5	n/a	n/a	n/a	0.82		0.55	n/a	0.60	1.5	0.72	0.5	n/a	n/a
24	n/a	1.0	n/a	n/a	n/a	0.5	0.99			0.54	n/a	0.73	2.0	n/a	n/a	n/a	0.76	0.79	0.54	n/a	0.79	0.73	2.0	n/a	0.5	n/a
25	0.5	n/a	n/a	5.0	n/a	3.5	0.99			0.53	n/a	0.64	0.5	n/a	n/a	n/a	0.73		0.53	n/a	0.64		0.71	0.5	n/a	n/a
26	n/a	n/a	n/a	14.0	n/a	6.5	1.11			0.52	n/a	0.65	0.5	n/a	n/a	n/a	0.73		0.52	n/a	0.62		0.65	n/a	n/a	n/a
27	n/a	n/a	n/a	0.5	n/a	7.5	1.08			0.73	n/a	0.80	1.0	n/a	n/a	n/a	0.72		0.73	n/a	0.60		0.65	n/a	n/a	n/a
28	n/a	1.0	n/a	2.0	n/a	7.0	1.22			10.0	n/a	0.80	1.0	n/a	n/a	n/a	0.72	16.5	0.73	n/a	0.60	10.0	0.80	1.0	n/a	n/a
29	1.5	n/a	n/a	3.5	n/a	2.41	1.22			6.5	n/a	0.88	1.5	n/a	n/a	n/a	0.70	37.0	1.97	n/a	0.59	6.5	0.88	1.5	n/a	n/a
30	9.0	n/a	n/a	n/a	n/a	2.13	1.32			0.91	n/a	0.91	84.0	n/a	n/a	n/a	0.69	1.0	1.20	n/a	0.91	23.89	84.0	n/a	12.5	n/a
31	1.0	n/a	n/a	n/a	n/a	1.96	0.69			0.91	n/a	0.91	84.0	n/a	n/a	n/a	0.69	1.0	1.20	n/a	0.91	23.89	84.0	n/a	12.5	n/a
total	23.5	n/a	25.0	52.0	n/a	56.5	39.05	64.0	30.31	21.24	23.89	12.5	n/a	12.5	n/a	n/a	30.31	114.5	23.49	n/a	21.24	23.89	84.0	n/a	12.5	n/a

附表-5. 白坂の日降水量と白坂本谷の日流出量  
Supplementary Table 5. Annual report of hydrological data at Shirasaka hontani in 2020

SHIRASAKA HONTANI				2020		unit: mm/day		annual precipitation at Shirasaka: 1864.0										annual runoff: n/a					
January		February		March		April		May		June		July		September		October		November		December			
day	rain	runoff	rain	runoff	rain	runoff	rain	runoff	rain	runoff	rain	runoff	rain	runoff	rain	runoff	rain	runoff	rain	runoff			
1		1.16		0.96		1.11	28.0	3.84		1.93		1.62	6.0	17.57		5.16		1.22		1.15		1.87	
2		1.13		0.94		1.03		4.53		1.86	0.5	1.56		7.24		4.73	1.5	1.16		1.10	14.5	2.24	
3		1.10		0.92		0.98		3.21		1.80		1.46	17.0	5.91		4.41	40.5	3.65		1.09	2.5	2.18	
4	1.0	1.08		0.89		1.16		2.81	6.0	1.99		1.42	40.5	16.16		4.09	15.5	3.22		1.08		1.88	
5		1.06		0.87		1.15		2.56		1.76		1.34	2.0	9.62		3.78	0.5	2.23	0.5	1.07		1.79	
6		1.01		0.84		1.01		2.31	16.0	2.27		1.28	73.0	25.14		3.55	2.0	1.85		0.97		1.71	
7	8.0	1.14		0.83		0.96		2.16		1.91		1.23	26.5	24.84	13.5	4.36	43.5	6.02	8.0	1.08	8.0	1.84	
8	30.5	3.09		0.83	43.0	3.95		2.04		1.74		1.19	53.0	40.89		3.84		3.74	43.0	3.76		1.81	
9		1.94		0.81		2.81		1.93	2.0	1.68		1.16	15.5	21.58		3.29	22.0	3.90	57.5	8.04		1.61	
10		1.62		0.80	47.0		1.83	15.0	2.21	12.0		1.37	4.0	16.18		3.04	19.0	6.49	82.0	40.78		1.54	
11		1.47		0.80		6.25		1.75	0.5	2.01	53.5	3.66	38.5	19.23		2.87	13.5	4.34		11.12		1.48	
12		1.37	6.5	0.84			3.76	8.0	1.90	1.72	3.0	6.38		18.43		2.72		3.41		6.02		1.45	
13	0.5	1.31	14.0	1.67		2.97	31.0	3.25		1.60	31.0	n/a	24.0	14.25	0.5	2.63	3.0	2.89		4.41		1.41	
14	0.5	1.25	0.5	1.09	7.5	2.84		2.60		1.51	17.0	n/a	38.5	24.57		2.48		2.63		3.60		1.35	
15	1.0	1.25		1.00	0.5	2.41		2.13		1.45		n/a		17.35		2.35		2.22		3.09		1.33	
16		1.15	24.5	2.13	3.0	2.26		1.96	55.0	5.84		3.44		12.88		2.23		2.03		2.77		1.30	
17		1.11	0.5	1.75		2.06	10.5	2.12	0.5	4.20		2.83	9.5	10.79		2.12	1.0	1.94	22.5	3.65		1.27	
18	0.5	1.07		1.42		1.96	38.0	6.65	5.0	2.85	18.5	3.15	17.5	12.59		2.01	1.0	1.85		3.10		1.25	
19		1.03		1.29	2.0	n/a		4.16	28.0	5.29	41.0	9.76		9.73		1.95	0.5	1.69	3.5	2.80	2.0	1.28	
20		1.00		1.21	1.5		20.5	5.12	0.5	3.82		5.87		8.01		1.90		1.55	0.5	2.55	18.0	2.09	
21		0.97		1.14		n/a	0.5	4.07		3.08		4.27	12.0	7.15	0.5	1.70		1.45		2.36		1.60	
22		0.96	10.5	1.43		n/a		3.38		2.69	0.5	3.60	15.0	10.08	1.5	1.69		1.40		2.25		1.44	
23	13.0	1.42		1.22		n/a		2.99		2.44		3.13		7.05		1.64		1.35	41.0	6.11	0.5	1.36	
24		1.14		1.13		1.37	3.0	2.82		2.25	0.5	2.82	1.5	6.23		1.58		1.29		4.02		1.28	
25		1.06	4.5	1.10		1.31	0.5	2.59		2.10	3.0	2.80	30.5	9.90		1.50	21.0	2.10		3.19		1.23	
26	1.0	1.06	3.0	1.31		1.27		2.44	6.0	2.11	5.5	2.69	28.5	11.24		1.44		1.65		2.74		1.18	
27	1.5	1.02		1.09	25.0	1.97		2.29	0.5	2.07		2.51	4.5	11.42		1.36		1.41		2.50		1.16	
28	6.0	1.09		1.04	8.0	2.41		2.16		1.84	20.5	3.62		8.65	0.5	1.36		1.28		2.33		1.14	
29	2.5	1.23	5.5	n/a	31.5	5.87		2.06		1.73		2.65		7.35		1.31		1.23		2.18		1.10	
30		1.05				3.46		1.98		1.65	76.5	10.18		6.45		1.25		1.18		2.04		1.09	
31		0.99			0.5	2.77			3.0	1.71				5.75	1.0	1.21				1.93			
total	66.0	38.33	69.5	n/a	180.5		140.0	85.64	138.0	73.11	283.0	n/a	457.5	424.23	17.5	79.55	184.5	72.37	258.5	134.88	45.5	45.26	
																		23.5				27.97	

附表-6. 青野の日降水量と樹芸2号沢の日流出量  
Supplementary Table 6. Annual report of hydrological data at Jyugei 2gosawa in 2020

name	annual precipitation at Aono:	annual runoff:	n/a
n/a : data not available	2472.0		

unit: mm/day

2020

**JYUGEI 2GOSAWA**

day	January		February		March		April		May		June		July		August		September		October		November		December			
	rain	runoff	rain	runoff	rain	runoff	rain	runoff	rain	runoff	rain	runoff	rain	runoff	rain	runoff	rain	runoff	rain	runoff	rain	runoff	rain	runoff		
1		1.97	1.5	1.66	0.5	2.28	35.0	8.69			260	4.0	2.11	88.0	23.18		5.06		2.46	2.0	2.17		2.31		1.73	
2		1.94		1.60	10.0	2.35		9.24			252		2.02		33.10		4.78	3.0	2.43		2.15	15.5	2.65		1.74	
3		1.86		1.54		2.20		8.60			245		1.97	17.0	18.64		4.53	38.5	4.54		2.14	2.5	2.57		1.73	
4		1.83		1.53	13.0	2.43		7.67	9.0		259		1.94	103.0	44.73		4.28		3.06		2.13		2.15		1.68	
5		1.80		1.35	1.5	2.39		6.72			239		1.95	22.0	25.29		4.05	4.0	2.68		2.11	2.11	2.0		1.72	
6		1.81		1.34		2.21		5.85	6.0		235		2.01	49.5	31.87		3.92	16.0	3.31		2.01		2.15		1.72	
7	0.5	1.83		1.34		2.16		5.03	2.0		226		1.87		23.75	0.5	3.75	30.5	4.48	3.0	1.98	1.5	2.31		1.70	
8	15.0	2.57		1.41	25.5	2.82		4.67			209		1.84	25.0	17.56		3.59	7.0	3.76	52.0	3.50	0.5	2.34		1.67	
9		2.03		1.41		2.62		4.21			208		1.88	64.0	22.40		3.46	4.5	3.30	57.5	6.53		2.02		1.65	
10		1.88		1.38	39.0	5.70		4.44	37.5			10.0	2.01	13.0	26.66		3.35	8.0	3.28	70.0	12.08		1.95		1.64	
11		1.84		1.42		6.00		4.13	0.5		282		1.75	4.86	5.0	19.41		3.29		2.97		8.05		1.93		1.64
12	0.5	1.78	0.5	1.64		4.41	2.5	3.95			224	23.0	11.00	2.0	15.04		3.20	5.5	3.11		5.50	1.89	1.73		1.64	
13		1.67	71.0	5.01		3.69	8.5	4.67			212	20.0	6.49	3.0	12.25		3.08	1.5	2.88	0.5	4.79		2.04		1.65	
14		1.63	2.0	2.24		3.75		4.65			202	5.0	8.78	101.5	29.21		2.95		2.72		4.26		1.99		1.57	
15	4.0	1.76		1.93		3.17		4.93			1.98		7.72		25.63		2.87		2.61		3.82		1.98		1.50	
16		1.64	33.5	3.37		2.85		4.82	29.5		277		6.19		16.62		2.79	1.0	2.55		3.43		2.05		1.47	
17	9.5	1.82	1.0	3.16		2.52	4.5	4.78	0.5		237		5.18	111.0	23.71		2.73		2.51	8.0	3.37		1.98		1.45	
18	12.0	2.13		2.22		2.42	96.0	n/a	5.5		220	19.5	4.97	106.5	52.99		2.68		2.49	1.0	3.21		2.09		1.47	
19		1.95		2.10	27.5	2.93		n/a	34.0		502	39.5	8.24	9.5	31.91		2.62		2.39	15.5	3.44	1.0	2.20		1.65	
20		1.78		2.00		2.91	11.0				327		7.72		18.99		2.57	2.5	2.40		3.11	26.0	2.78		1.67	
21		1.58		1.90		2.38		n/a			285		6.75	0.5	13.95		2.53	2.0	2.43		2.89		2.14		1.65	
22		1.72	12.5	2.12		2.37		n/a			266	9.5	6.04		11.07	2.0	2.52	25.5	2.88		2.97	2.0	2.04		1.82	
23	30.0	2.69		1.80		2.23	2.23	4.26			250	6.0	5.91		9.11	0.5	2.53	4.5	2.82	5.5	3.10		2.00		2.02	
24		2.05		1.76		2.06	2.06	3.84			240	8.0	4.91	4.5	7.84		2.47		2.45		2.70		1.92	1.5	1.61	
25		1.88	10.0	1.88		2.00		3.53			236	49.5	10.26	22.5	7.55		2.41	2.0	2.35		2.56	1.0	1.94		1.49	
26	13.0	2.07	23.0	3.22		2.01		3.40			229	7.5	10.19	14.5	7.06		2.36		2.32		2.58		1.89		1.53	
27	6.0	1.74	5.0	2.19		2.19		3.13			219	2.19	9.57	5.5	6.44	7.0	2.47	2.0	2.31		2.58		1.87		1.56	
28	6.0	1.81		1.99	65.5	6.11		2.89			211	72.0	22.85		6.20	36.5	4.89		2.23		2.51	1.81	3.5	1.74		1.56
29		2.17	14.5	2.15		15.51		2.75			207		18.96		5.87		2.76		2.17		2.45		1.75		1.91	
30		1.86		1.52		12.52		2.68			205	24.5	14.74		5.57		2.59		2.14		2.30		1.73		3.12	
31						9.15			2.5		214				5.31	1.0	2.53				2.19				1.77	
total	96.5	58.76	174.5	58.62	265.0	120.28	157.5	n/a	127.0	76.85	369.5	200.59	767.5	598.91	47.5	99.63	156.0		84.03	215.0	108.61	50.0	62.58	44.0	53.00	

附表-7. 青野の日降水量と樹蓋3号沢の日流出量  
Supplementary Table 7. Annual report of hydrological data at Jyugei 3gosawa in 2020

JYUGEI 3GOSAWA			2020		unit: mm/day		annual precipitation at Aono:		2472.0		annual runoff:		n/a	
day	January	February	March	April	May	June	July	August	September	October	November	December	rain	runoff
1	0.72	1.5	0.67	1.92	10.36	1.80	1.28	53.02	2.97	0.74	0.78	0.92	0.54	0.54
2	0.72		0.64	2.20	10.87	1.69	1.07	56.18	2.64	0.72	0.73	1.55	1.20	0.59
3	0.68		0.59	1.72	7.59	1.60	0.92	20.70	38.5	3.55	0.74	2.5	1.45	0.55
4	0.69		0.57	1.95	6.34	1.89	0.87	103.0	2.20	1.37	0.71	0.85	0.85	0.50
5	0.83		0.54	2.27	5.47	1.52	0.83	22.0	2.00	0.91	0.72	0.83	2.0	0.78
6	0.83		0.52	1.70	4.75	1.43	0.83	49.5	1.85	1.94	0.65	0.83		0.63
7	0.5	0.66	0.54	1.56	4.27	2.0	0.77	n/a	1.89	30.5	0.73	1.5	0.88	0.60
8	15.0	1.54	0.52	3.02	3.84	1.25	0.76	25.0	1.64	7.0	2.29	0.5	0.89	0.57
9	0.76		0.51	2.41	3.51	1.20	0.72	64.0	1.53	4.5	1.74	7.82	1.06	0.61
10	0.70		0.49	39.0	3.24	2.71	0.97	13.0	1.43	8.0	1.88	70.0	1.37	0.93
11	0.64		0.49	8.99	3.00	0.5	6.26	5.0	1.36		9.80		1.34	0.70
12	0.5	0.64	0.57	4.91	2.93	1.36	20.05	2.0	1.29	5.5	1.85		1.59	0.92
13	0.61	71.0	6.50	3.70	3.11	1.20	8.24	3.0	1.21	1.5	1.45	0.5	2.82	0.56
14	0.58	2.0	1.35	3.99	2.59	1.11	12.43	101.5	1.14		1.15		2.19	0.54
15	4.0	0.78	1.05	3.10	2.38	1.05	7.51		1.07		0.99		1.89	0.48
16	0.57	33.5	4.01	2.61	2.25	2.95	4.64	14.86	1.02	1.0	0.96		0.95	0.47
17	9.5	0.67	1.0	3.82	2.27	2.19	3.40	111.0	0.99		0.93	8.0	1.23	0.45
18	12.0	0.98	2.08	2.08	28.33	5.5	3.67	106.5	0.95	1.0	3.02		1.23	0.65
19		0.64	1.59	2.93	10.71	34.0	12.06	35.34	0.90	15.5	3.26	1.0	0.92	1.20
20		0.56	1.37	3.10	7.06	3.05	8.62	17.56	0.89	2.5	0.83	1.75	26.0	0.81
21		0.54	1.23	2.14	5.18	2.08	5.72	11.26	0.85	2.0	0.87		0.76	0.67
22		0.54	1.54	2.03	4.25	1.75	5.14	8.35	0.83	25.5	1.45	3.14	2.0	0.60
23	30.0	1.93	1.16	1.87	3.65	1.56	4.50	6.53	0.88	4.5	1.42	4.18	0.69	0.55
24		0.97	1.08	1.71	3.23	1.43	3.65	5.42	0.80		0.91		0.61	0.53
25		0.68	1.13	1.60	2.87	1.36	18.63	6.22	0.76	2.0	1.06	3.96	1.0	0.52
26	13.0	1.25	3.63	1.53	2.66	1.27	7.5	5.90	0.70		1.02	2.73	0.59	0.59
27	6.0	0.90	1.82	1.89	2.43	1.19	12.25	5.30	0.92	2.0	0.95	1.28	0.58	0.57
28	6.0	0.92	1.48	10.05	2.23	1.13	42.80	5.19	4.96		0.83	1.04	0.64	0.86
29		0.92	1.75	52.46	2.05	1.07	20.80	4.24	1.15		0.81	0.98	0.87	0.92
30		0.72		20.49	1.91	1.02	16.36	3.64	0.87		0.76	0.93	0.53	2.05
31		0.67		8.70	2.5	1.01		3.37	0.80		0.90			0.57
total	96.5	24.84	174.5	43.24	155.25	53.95	240.38	n/a	44.89	215.0	95.57	50.0	29.49	21.51

附表-8. 新田の降水水質  
Supplementary Table 8. Annual report of rainwater quality data at Shinta in 2019

SHINTA

2019	Sampling period	Number of samples	Precipitation (mm)	pH	EC (μS/cm)	Na <sup>+</sup> (mg/L)	K <sup>+</sup> (mg/L)	Mg <sup>2+</sup> (mg/L)	Ca <sup>2+</sup> (mg/L)	NH <sub>4</sub> <sup>+</sup> (mg/L)	Cl <sup>-</sup> (mg/L)	NO <sub>3</sub> <sup>-</sup> (mg/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)
1	2018/12/18~2019/1/15	2	18.1			0.68	0.33	0.24	0.54	0.32	2.31	0.55	1.51
2	2019/1/15~2/15	2	52.4			0.89	0.23	0.32	1.16	0.64	2.95	1.01	2.21
3	2019/2/15~3/15	2	185.7			0.31	0.12	0.09	0.28	0.07	1.05	0.40	0.79
4	2019/3/15~4/15	2	148.7			0.21	0.20	0.07	0.22	0.19	0.69	0.37	0.48
5	2019/4/15~5/17	2	136.6			0.48	0.26	0.16	0.37	1.21	1.56	0.45	1.28
6	2019/5/17~6/14	2	337.7			0.48	0.12	0.12	0.16	0.22	1.59	0.07	0.42
7	2019/6/14~7/18	2	482.6			0.15	0.09	0.11	0.17	0.09	0.48	0.02	0.20
8	2019/7/18~8/15	2	44.9			0.44	0.53	0.14	0.21	0.18	1.54	0.02	0.33
9	2019/8/15~9/19	2	398.5			0.98	0.27	0.22	0.22	0.23	3.19	0.05	0.49
10	2019/9/19~10/16	2	253.1			5.79	0.45	1.34	0.70	0.10	19.92	0.01	2.93
11	2019/10/16~11/20	1	501.5			0.46	0.05	0.12	0.12	0.07	1.44	0.08	0.33
12	2019/11/20~12/18	2	270.6			0.41	0.10	0.12	0.15	0.21	1.33	0.25	0.53

Note: blank cell is no data (water was not sampled or not measured /analysed)

附表-9. 東郷ダムの降水水質  
Supplementary Table 9. Annual report of rainwater quality data at Togo dam in 2020

TOGO DAM

2020	Sampling date	Sampling time	Sampler type	Precipitation (mm)	pH	EC (μS/cm)	Na <sup>+</sup> (mg/L)	K <sup>+</sup> (mg/L)	Mg <sup>2+</sup> (mg/L)	Ca <sup>2+</sup> (mg/L)	NH <sub>4</sub> <sup>+</sup> (mg/L)	Cl <sup>-</sup> (mg/L)	NO <sub>3</sub> <sup>-</sup> (mg/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)
1	2020/1/22	10:00	Winter type	46.0	5.36	23	0.80	0.11	0.20	0.41	0.35	2.58	0.94	1.13
2	2020/2/19	9:45	Winter type	45.6	5.01	14	0.42	0.13	0.11	0.33	0.37	1.34	0.64	0.67
3	2020/3/18	9:50	Winter type	70.4	5.40	10	0.36	0.07	0.12	0.39	0.31	1.10	0.59	0.71
4	2020/4/22	10:10	Winter type	37.8										
5	2020/5/20	14:26	General	104.1	6.84	23	0.19	0.14	0.07	0.28	0.71	0.55	0.91	0.94
6	2020/6/17	14:25	General	72.0	5.72	14	0.05	0.14	0.02	0.24	0.38	0.16	0.84	0.70
7	2020/7/21	14:30	General	97.9	7.41	16	0.05	0.56	0.07	0.20	1.41	0.24	0.63	0.74
8	2020/8/24	15:14	General	85.9	7.20	25	0.08	0.61	0.06	0.21	2.17	0.28	0.66	1.18
9	2020/9/16	13:58	General	93.8	7.50	6	0.06	0.13	0.02	0.04	0.27	0.17	0.38	0.29
10	2020/10/21	10:50	General	105.5	7.04	28	0.21	0.06	0.05	0.11	0.15	0.53	0.27	0.24
11	2020/11/18	10:20	General	94.0	7.08	22	0.83	0.12	0.19	0.30	0.48	2.38	1.02	1.20
12	2020/12/16	10:35	Winter type	101.2	5.96	22	0.82	0.09	0.19	0.16	0.37	2.32	0.87	1.31

Note: blank cell is no data (water was not sampled or not measured /analysed)



附表－10. ワサビ沢の降水水質  
Supplementary Table 10. Annual report of rainwater quality data at Wasabizawa in 2020

WASABIZAWA

2020

2020	Sampling date	Sampling time	Sampler type	Precipitation <sup>§</sup> (mm)	pH <sup>§</sup>	EC <sup>§</sup> (μS/cm)	Na <sup>+</sup> (mg/L)	K <sup>+</sup> (mg/L)	Mg <sup>2+</sup> (mg/L)	Ca <sup>2+</sup> (mg/L)	NH <sub>4</sub> <sup>+</sup> (mg/L)	Cl <sup>-</sup> (mg/L)	NO <sub>3</sub> <sup>-</sup> (mg/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)
1	2020/1/22	12:15	Winter type	104.9	5.83	5	0.15	0.22	0.03	0.17	0.16	0.33	0.41	0.24
2	2020/2/19	12:10	Winter type	103.3	6.19	6	0.09	0.04	0.01	0.13	0.15	0.14	0.29	0.02
3	2020/3/18	10:50	Winter type	87.3	6.39	12	0.15	0.12	0.13	0.59	0.26	0.35	0.76	0.63
4	2020/4/22	12:15	Winter type	281.3	6.22	5	0.05	0.02	0.01	0.16	0.16	0.12	0.40	0.19
5	2020/5/20	12:10	Winter type	97.0	5.99	8	0.06	0.12	0.04	0.30	0.32	0.19	0.57	0.56
6	2020/6/17	13:12	General	156.7	6.59	8	0.07	0.23	0.00	0.10	0.72	0.17	0.42	0.48
7	2020/7/22	13:31	General	523.2	6.44	5	0.10	0.23	0.00	0.00	0.42	0.19	0.16	0.02
8	2020/8/19	12:25	General	172.0	6.69	8	0.09	0.33	0.00	0.10	0.59	0.20	0.26	0.46
9	2020/9/16	9:54	General	198.9	6.76	9	0.11	0.29	0.01	0.05	0.85	0.22	0.20	0.23
10	2020/10/21	13:05	General	331.6	6.28	4	0.05	0.08	0.00	0.07	0.18	0.11	0.19	0.16
11	2020/11/18	13:00	General	28.7	6.44	10	0.17	0.69	0.05	0.16	0.37	0.69	0.21	0.08
12	2020/12/16	12:50	General	3.3	6.65	26	0.28	0.89	0.13	1.65	0.91	1.02	2.32	1.38

<sup>§</sup>The precipitation, pH and EC were published in Asano *et al.* (2022).

The pH and EC were analyzed in the laboratory of Institute for Water Science, Suntory Global Innovation Center Limited.

附表－11. 白坂の降水水質

Supplementary Table 11. Annual report of rainwater quality data at Shirasaka in 2020

SHIRASAKA

2020

2020	Sampling date	Sampling time	Precipitation (mm)	pH	EC (μS/cm)	Na <sup>+</sup> (mg/L)	K <sup>+</sup> (mg/L)	Mg <sup>2+</sup> (mg/L)	Ca <sup>2+</sup> (mg/L)	NH <sub>4</sub> <sup>+</sup> (mg/L)	Cl <sup>-</sup> (mg/L)	NO <sub>3</sub> <sup>-</sup> (mg/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)
1	2020/1/22	11:16	86.0	4.94	23	0.34	0.07	0.08	0.21	0.17	1.20	0.73	1.39
2	2020/2/20	10:26	77.8	5.37	11	0.11	0.02	0.02	0.11	0.11	0.39	0.48	0.64
3	2020/3/19	10:27	124.7	6.01	9	0.13	0.03	0.05	0.16	0.14	0.42	0.54	0.49
4	2020/4/22	10:51	220.6	6.13	10	0.22	0.13	0.06	0.24	0.20	0.75	0.48	0.71
5	2020/5/20	11:06	142.2	5.43	13	0.18	0.08	0.07	0.22	0.06	0.56	0.61	0.70
6	2020/6/18	10:48	137.1	5.30	10	0.08	0.04	0.02	0.08	0.06	0.27	0.59	0.43
7	2020/7/22	11:17	573.6	5.61	6	0.10	0.05	0.03	0.03	0.01	0.31	0.17	0.18
8	2020/8/20	10:11	82.9	5.51	9	0.09	0.06	0.03	0.16	0.00	0.30	0.07	0.78
9	2020/9/17	10:19	175.7	6.62	9	0.27	0.06	0.06	0.10	0.02	0.88	0.30	0.25
10	2020/10/22	10:44	254.9	6.15	3	0.03	0.00	0.00	0.04	0.00	0.09	0.13	0.03
11	2020/11/20	11:10	83.1	5.07	8	0.38	0.12	0.09	0.13	0.04	1.16	0.13	0.36
12	2020/12/18	10:59	26.3	6.99	12	0.33	0.12	0.07	0.31	0.18	0.96	0.66	0.76

附表－12. 加納の降水水質  
Supplementary Table 12. Annual report of rainwater quality data at Kanou in 2020

KANOU 2020

2020	Sampling period	Number of samples	Precipitation (mm)	pH	EC (μS/cm)	Na <sup>+</sup> (mg/L)	K <sup>+</sup> (mg/L)	Mg <sup>2+</sup> (mg/L)	Ca <sup>2+</sup> (mg/L)	NH <sub>4</sub> <sup>+</sup> (mg/L)	Cl <sup>-</sup> (mg/L)	NO <sub>3</sub> <sup>-</sup> (mg/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)
1	2019/12/18~2020/1/20	9	74.6			1.52	0.13	0.37	0.29	0.14	4.82	0.79	1.99
2	2020/1/20~2020/2/17	10	153.8			1.80	0.15	0.41	0.24	0.20	5.16	0.52	1.62
3	2020/2/17~2020/3/15	8	166.9			0.91	0.11	0.22	0.19	0.14	2.54	0.46	1.02
4	2020/3/15~2020/4/21	8	290.4			1.14	0.13	0.26	0.20	0.18	3.27	0.36	1.01
5	2020/4/21~2020/5/19	5	124.1			0.62	0.40	0.19	0.23	0.83	1.81	0.57	1.36
6	2020/5/19~2020/6/15	5	87.1			1.18	0.64	0.37	0.32	1.51	3.56	0.56	1.62
7	2020/6/15~2020/7/20	17	823.1			0.33	0.10	0.09	0.09	0.16	0.99	0.20	0.25
8	2020/7/20~2020/7/28	2	47.3			0.49	0.13	0.13	0.18	0.21	1.73	0.34	1.17
9	2020/7/28~2020/9/14	12	148.2			0.65	0.28	0.17	0.19	0.25	2.21	0.46	1.11
10	2020/9/14~2020/10/20	10	238.6			0.33	0.12	0.11	0.28	0.14	1.05	0.75	0.43
11	2020/10/20~2020/11/9	3	17.9			1.03	0.15	0.24	0.34	0.21	2.54	1.02	1.24
12	2020/11/9~2020/12/12	5	33.3			1.50	0.21	0.38	0.46	0.15	4.39	1.13	1.56

Note: blank cell is no data (water was not sampled or not measured /analysed)

附表－13. 袋山沢Aの渓流水質  
Supplementary Table 13. Annual report of streamwater quality data at Fukuroyamasawa A in 2020

FUKUROYAMASAWA A 2020

2020	Sampling date	Sampling time	Water height (mm)	Water temp. (°C)	pH	EC (μS/cm)	Na (mg/L)	K (mg/L)	Mg (mg/L)	Ca (mg/L)	NH <sub>4</sub> <sup>+</sup> (mg/L)	Cl <sup>-</sup> (mg/L)	NO <sub>3</sub> <sup>-</sup> (mg/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)
1	2020/1/15	10:16	75.5				7.54	0.72	3.21	9.84		11.19	0.32	8.73
2	2020/2/19	11:35	80.0				9.62	0.92	4.52	11.28		12.97	0.49	8.47
3	2020/3/18	10:00	62.0				8.00	0.73	3.34	9.55		12.78	0.09	8.97
4	2020/4/22	10:20	98.3				8.19	0.75	3.22	9.04		13.09	0.00	7.17
5	2020/5/20	10:05	84.5				3.14	0.34	1.44	5.26		4.32	0.07	2.85
6	2020/6/17	9:51	75.5				10.06	1.18	5.05	14.29		10.97	0.15	7.52
7	2020/7/21	10:06	93.0				6.05	0.58	2.67	8.37		7.70	0.08	3.69
8														
9														
10	2020/10/21	10:08	88.0				8.91	0.82	3.50	8.39		10.42	0.18	6.87
11														
12														

Note: blank cell is no data (water was not sampled or not measured /analysed)

附表－14. 袋山沢Bの溪流水質  
Supplementary Table 14. Annual report of streamwater quality data at Fukuroyamasawa B in 2020

FUKUROYAMASAWA B 2020

2020	Sampling date	Sampling time	Water height (mm)	Water temp. (°C)	pH	EC (μS/cm)	Na (mg/L)	K (mg/L)	Mg (mg/L)	Ca (mg/L)	NH <sub>4</sub> <sup>+</sup> (mg/L)	Cl <sup>-</sup> (mg/L)	NO <sub>3</sub> <sup>-</sup> (mg/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)
1	2020/1/15	10:14	45.5				5.30	0.57	2.37	6.99		6.79	0.25	4.88
2	2020/2/19	11:30	43.2				5.57	0.61	2.56	7.35		7.16	0.48	4.73
3	2020/3/18	9:59	47.5				4.25	0.41	2.07	6.01		5.03	0.12	3.85
4	2020/4/22	10:10	50.8				5.66	0.59	2.45	6.30		6.62	0.08	4.53
5	2020/5/20	9:58	52.5				5.63	0.64	2.57	7.27		6.36	0.19	4.20
6	2020/6/17	9:46	38.0				6.36	0.79	3.02	8.50		6.29	0.30	3.85
7	2020/7/21	10:18	61.5				5.90	0.64	2.54	6.67		6.14	0.24	4.10
8	2020/8/19	10:34	36.5				7.05	1.09	3.92	12.52		7.25	0.00	2.46
9														
10	2020/10/21	10:03	57.5	14.8			5.71	0.60	2.30	6.42		5.73	0.29	4.26
11	2020/11/18	9:59	41.5				5.99	0.68	2.68	8.01		6.69	0.47	4.09
12														

Note: blank cell is no data (water was not sampled or not measured / analysed)

附表－15. 丸山沢の溪流水質  
Supplementary Table 15. Annual report of streamwater quality data at Maruyamazawa in 2020

MARUYAMAZAWA 2020

2020	Sampling date	Sampling time	Water height (mm)	Water temp. (°C)	pH	EC (μS/cm)	Na <sup>+</sup> (mg/L)	K <sup>+</sup> (mg/L)	Mg <sup>2+</sup> (mg/L)	Ca <sup>2+</sup> (mg/L)	NH <sub>4</sub> <sup>+</sup> (mg/L)	Cl <sup>-</sup> (mg/L)	NO <sub>3</sub> <sup>-</sup> (mg/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)
1														
2														
3														
4														
5	2020/5/20	12:00	208	11.4	7.22	41	1.76	0.75	0.80	2.62	0.04	2.07	0.43	2.15
6	2020/6/17	11:05	142	12.8	7.19	46	1.88	0.85	0.99	3.20	0.02	1.77	0.56	1.88
7	2020/7/21	13:38	87	23.0	7.30	55	2.38	1.32	1.02	3.76	0.12	2.21	0.60	2.19
8	2020/8/24	10:54	77	15.5	7.39	58	2.40	1.26	1.14	4.24		2.28	0.59	2.22
9	2020/9/16	10:44	80	13.4	7.19	57	2.28	1.23	1.20	4.21		2.34	0.46	2.01
10	2020/10/15	14:45	96	8.2	6.83	52	1.98	1.16	1.22	3.93	0.02	2.33	0.36	1.99
11	2020/11/18	11:49	152	6.3	7.39	53	1.74	0.91	1.06	3.28	0.01	2.43	1.30	1.96
12														

Note: blank cell is no data (water was not sampled or not measured / analysed)

附表—16. バケモノ沢の溪流水質  
Supplementary Table 16. Annual report of streamwater quality data at Bakemonozawa in 2020

2020														
BAKEMONOZAWA														
2020	Sampling date	Sampling time	Water height (mm)	Water temp. <sup>§</sup> (°C)	pH <sup>§</sup>	EC <sup>§</sup> (μS/cm)	Na (mg/L)	K (mg/L)	Mg (mg/L)	Ca (mg/L)	NH <sub>4</sub> <sup>+</sup> (mg/L)	Cl <sup>-</sup> (mg/L)	NO <sub>3</sub> <sup>-</sup> (mg/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)
1	2020/1/22	12:26		7.8	7.07	47	2.99	0.14	0.64	5.26		0.59	0.09	6.47
2	2020/2/19	12:25		8.7	7.42	50	3.13	0.15	0.72	5.64		0.69	0.07	4.68
3	2020/3/18	12:12		10.2	7.50	51	3.17	0.16	0.75	5.76		0.62	0.11	5.50
4	2020/4/22	13:00		8.9	7.26	46	2.76	0.30	0.70	5.08		0.59	1.90	4.88
5	2020/5/20	11:47		10.3	7.23	56	3.05	0.29	0.85	6.72		0.56	0.87	5.49
6	2020/6/17	14:05		10.4	7.34	51	2.87	0.30	0.76	5.95		0.57	1.54	5.08
7	2020/7/22	13:58		11.8	7.38	44	2.65	0.34	0.64	4.72		0.56	1.64	4.37
8	2020/8/19	13:09		12.9	7.26	50	2.95	0.34	0.75	5.54		0.56	1.07	4.93
9	2020/9/16	10:39		12.4	7.64	55	3.15	0.16	0.85	6.82		0.56	0.00	5.59
10	2020/10/21	13:48		10.9	7.26	44	2.77	0.33	0.69	5.48		0.67	1.96	3.61
11	2020/11/18	13:31		10.4	7.34	51	3.03	0.15	0.76	6.35		0.57	0.07	4.68
12	2020/12/16	12:24		9.3	7.16	45	2.97	0.13	0.66	5.32		0.59	0.00	5.21

Note: blank cell is no data (water was not sampled or not measured /analysed)  
§The water temperature, pH and EC were published in Asano *et al.* (2022).  
The pH and EC were analyzed in the laboratory of Institute for Water Science, Suntory Global Innovation Center Limited.

附表—17. 白坂本谷の溪流水質  
Supplementary Table 17. Annual report of streamwater quality data at Shirasaka hontani in 2020

SHIRASAKA HONTANI														2020	
2020	Sampling date	Sampling time	Water height (mm)	Water temp. (°C)	pH	EC (μS/cm)	Na (mg/L)	K (mg/L)	Mg (mg/L)	Ca (mg/L)	NH <sub>4</sub> <sup>+</sup> (mg/L)	Cl <sup>-</sup> (mg/L)	NO <sub>3</sub> <sup>-</sup> (mg/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)	
1	2020/1/22	9:54	92	5.3	6.36	49	4.62	0.81	0.53	3.82		2.76	0.73	4.72	
2	2020/2/20	10:39	107	5.9	6.12	50	4.72	0.84	0.55	3.76		2.67	0.82	3.79	
3	2020/3/19	10:55	142	9.4	6.26	46	4.55	0.83	0.54	3.71		2.43	1.43	3.40	
4	2020/4/22	11:06	212	10.7	6.46	45	4.42	0.85	0.47	3.39		2.41	1.30	3.75	
5	2020/5/20	11:28	230	14.8	6.66	46	4.77	0.98	0.49	3.60		2.40	0.96	4.36	
6	2020/6/18	10:57	176	17.5	6.21	47	5.03	1.05	0.52	3.80		2.39	0.96	4.16	
7	2020/7/22	11:32	416	20.5	6.64	39	4.13	0.99	0.49	3.17		2.29	0.76	4.68	
8	2020/8/20	10:29	146	22.7	5.97	47	4.83	1.13	0.51	3.55		2.70	0.58	4.97	
9	2020/9/17	11:01	149	20.9	6.54	48	4.72	1.03	0.49	3.46		2.54	0.78	4.84	
10	2020/10/22	10:05	162	14.6	6.34	45	4.69	0.97	0.56	3.87		2.46	0.76	3.49	
11	2020/11/20	11:40	155	16.1	6.38	49	4.94	1.31	0.61	4.08		2.84	0.19	3.64	
12	2020/12/18	10:44	88	5.3	6.94	48	4.91	0.83	0.58	3.99		2.91	0.43	4.29	

Note: blank cell is no data (water was not sampled or not measured /analysed)

附表—18. 樹芸2号沢の渓流水質  
Supplementary Table 18. Annual report of streamwater quality data at Jyugei 2gosawa in 2020

JYUGEI 2GOSAWA 2020

2020	Sampling date	Sampling time	Water height (mm)	Water temp. (°C)	pH	EC (μS/cm)	Na <sup>+</sup> (mg/L)	K <sup>+</sup> (mg/L)	Mg <sup>2+</sup> (mg/L)	Ca <sup>2+</sup> (mg/L)	NH <sub>4</sub> <sup>+</sup> (mg/L)	Cl <sup>-</sup> (mg/L)	NO <sub>3</sub> <sup>-</sup> (mg/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)
1	2020/1/22	14:05	60	10.3	7.27	156	5.59	0.52	4.89	10.23	0.05	10.80	0.00	42.07
2	2020/2/18	14:25	73	9.6	7.23	146	5.38	0.54	4.48	9.38	0.07	11.51	0.57	37.02
3	2020/3/18	14:05	75	11.6	7.15	132	5.20	0.49	4.16	8.63	0.05	11.26	0.17	33.04
4	2020/4/22	13:55	100	13.5	7.21	125	5.06	0.50	3.65	7.13	0.06	12.08	0.17	26.66
5	2020/5/20	13:50	84	16.2	7.19	135	5.28	0.51	4.13	8.53	0.07	11.17	0.56	32.49
6	2020/6/17	14:10	99	17.7	7.26	122	5.12	0.54	3.58	7.25	0.06	12.04	0.30	25.13
7	2020/7/22	13:50	135	17.7	7.01	110	4.95	0.47	3.22	5.56	0.06	12.51	0.28	20.94
8	2020/8/19	13:55	72	21.7	7.13	139	5.61	0.58	4.39	8.55	0.06	11.26	0.43	36.02
9	2020/9/16	13:30	69	20.5	7.20	143	5.92	0.65	4.64	9.40	0.03	10.35	0.56	37.37
10	2020/10/21	13:55	71	15.7	7.16	136	5.63	0.58	4.43	8.83	0.02	10.39	0.47	34.94
11	2020/11/18	13:50	60	15.3	7.19	150	5.96	0.61	4.94	10.20	0.04	10.21	0.40	40.51
12	2020/12/16	13:50	56	9.2	7.29	153	5.39	0.55	4.94	10.30	0.05	10.15	0.04	41.04

附表—19. 樹芸3号沢の渓流水質  
Supplementary Table 19. Annual report of streamwater quality data at Jyugei 3gosawa in 2020

JYUGEI 3GOSAWA 2020

2020	Sampling date	Sampling time	Water height (mm)	Water temp. (°C)	pH	EC (μS/cm)	Na <sup>+</sup> (mg/L)	K <sup>+</sup> (mg/L)	Mg <sup>2+</sup> (mg/L)	Ca <sup>2+</sup> (mg/L)	NH <sub>4</sub> <sup>+</sup> (mg/L)	Cl <sup>-</sup> (mg/L)	NO <sub>3</sub> <sup>-</sup> (mg/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)
1	2020/1/22	14:45	21	9.0	4.58	160	5.50	0.64	6.84	5.83	0.05	12.16	0.00	55.40
2	2020/2/18	14:50	35	8.2	4.63	136	4.90	0.46	5.27	4.40	0.06	12.04	0.00	41.21
3	2020/3/18	14:35	35	10.8	4.60	135	5.22	0.36	5.42	4.53	0.09	12.06	0.00	42.36
4	2020/4/22	14:30	45	12.5	4.76	123	5.03	0.34	4.58	3.65	0.07	12.11	0.00	34.16
5	2020/5/20	14:25	39	15.9	4.55	128	4.95	0.50	4.94	4.19	0.06	11.79	0.00	38.61
6	2020/6/17	14:40	42	18.3	4.59	121	4.99	0.42	4.38	3.48	0.06	12.03	0.00	33.82
7	2020/7/22	14:25	61	19.6	5.23	99	4.82	0.38	3.67	2.74	0.08	11.91	0.00	25.49
8	2020/8/19	14:20	26	23.5	4.46	142	5.56	0.54	5.78	4.88	0.08	12.51	0.00	45.43
9	2020/9/16	13:55	25	21.6	4.44	144	5.47	0.83	5.55	4.67	0.04	11.29	0.00	44.46
10	2020/10/21	14:20	29	15.3	4.48	140	5.38	0.58	5.47	4.68	0.00	11.06	0.00	43.41
11	2020/11/18	14:20	22	15.1	4.39	153	5.79	0.61	6.42	5.34	0.02	11.65	0.00	51.45
12	2020/12/16	14:35	18	7.9	4.52	166	5.59	0.66	7.01	6.24	0.05	12.01	0.00	55.41

附表-20. バケモノ沢の溪流水質 (修正版)  
Supplementary Table 20. Annual report of streamwater quality data at Bakemonozawa in 2016 (Error correction)

BAKEMONOZAWA 2016

2016	Sampling date	Sampling time	Water height (mm)	Water temp. (°C)	pH <sup>§</sup>	EC <sup>§</sup> (μS/cm)	Na (mg/L)	K (mg/L)	Mg (mg/L)	Ca (mg/L)	NH <sub>4</sub> <sup>+</sup> (mg/L)	Cl <sup>-</sup> (mg/L)	NO <sub>3</sub> <sup>-</sup> (mg/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)
1	2016/1/27	12:00	9	5.8	7.25	46	2.93	0.19	0.14	4.76		0.46	0.18	4.42
2	2016/2/24	14:11	28	7.8	7.43	46	2.79	0.20	0.26	5.48		0.55	1.27	5.66
3	2016/3/15	12:09	13	6.4	7.36	49	2.86	0.19	0.27	5.84		0.51	0.23	5.12
4	2016/4/18	14:05	18	9.2	7.25	53	3.07	0.33	0.83	6.62		0.51	0.37	5.00
5	2016/5/18	12:36	26	9.4	7.42	53	3.07	0.41	0.82	6.74		0.49	0.78	4.47
6	2016/6/22	14:25	9	11.9	7.36	55	2.98	0.21	0.84	7.23		0.51	0.28	5.56
7	2016/7/15	12:56	12	13.6	7.25	58	3.02	0.27	0.88	7.41		0.49	1.22	5.61
8	2016/8/16	12:37	9	14.2	7.38	59	3.15	0.24	0.93	7.19		0.50	0.33	6.01
9	2016/9/21	13:40	229	11.5	7.12	39	2.41	0.37	0.63	4.89		0.53	1.90	3.56
10	2016/10/19	13:51	29	11.4	7.21	49	2.90	0.29	0.76	6.15		0.53	0.34	4.99
11	2016/11/15	13:17		9.5	7.37	51	3.01	0.22	0.79	6.18		0.61	0.47	6.04
12	2016/12/21	12:02	10	5.5	7.32	48	2.90	0.39	0.74	5.64		0.57	0.15	5.74

Note: blank cell is no data (water was not sampled or not measured /analysed)

§The pH and EC were analyzed in the laboratory of Institute for Water Science, Suntory Global Innovation Center Limited

\* Modifications are shown by shaded figures.