

SHIRASAKA

1990

unit: mm/day

annual precipitation: 2194.5

annual runoff: 1165.3

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	0.0	0.8	26.9	1.6	0.1	3.2	11.7	3.0	0.0	2.0	0.0	2.0	13.7	2.5	0.0	1.7	0.0	1.1	57.6	16.8	0.0	4.3	21.4	3.0
2	0.0	0.7	3.0	2.4	11.4	3.1	0.0	2.6	0.0	1.9	34.6	3.6	1.6	2.7	0.0	1.6	0.0	1.0	0.0	7.5	0.0	3.3	0.0	2.7
3	0.0	0.7	0.0	1.7	3.9	3.1	0.0	2.2	0.0	1.9	0.0	3.1	11.8	2.6	0.0	1.5	4.5	1.0	0.0	5.3	0.0	2.9	0.0	2.3
4	0.0	0.8	7.3	1.7	17.7	3.8	13.8	2.1	27.1	2.5	0.3	2.4	15.1	3.5	0.0	1.4	9.1	1.3	0.2	4.4	0.9	2.7	0.0	2.1
5	0.0	0.8	0.8	1.4	0.0	3.5	46.2	12.4	126.0	29.5	12.2	2.5	3.9	3.1	0.0	1.3	0.0	1.0	19.6	5.0	7.4	2.7	0.0	2.0
6	0.0	0.7	0.0	1.3	0.0	2.9	0.0	5.7	14.3	25.9	11.8	3.3	0.0	2.5	0.0	1.2	0.0	0.9	5.6	4.4	0.0	2.4	0.0	1.9
7	0.0	0.7	0.0	1.2	0.0	2.6	0.1	4.0	0.0	10.1	0.6	2.6	0.0	2.2	0.0	1.2	0.0	0.9	2.3	4.3	0.0	2.2	0.0	1.8
8	0.0	0.7	0.0	1.2	1.1	2.4	40.1	5.0	49.1	14.7	0.0	2.3	0.1	2.1	0.0	1.1	0.0	0.9	35.0	6.7	0.0	2.1	0.0	1.8
9	0.0	0.7	0.0	1.1	0.0	2.3	6.5	9.1	0.0	12.4	2.2	2.1	0.6	2.1	0.0	1.1	0.0	0.8	35.2	16.1	0.0	2.0	0.3	1.7
10	6.9	0.7	0.0	1.0	0.0	2.1	0.0	5.3	0.0	8.5	75.9	15.3	0.0	1.9	26.8	1.8	0.0	0.8	0.0	8.1	59.6	7.6	0.0	1.7
11	8.8	1.3	13.5	1.1	0.0	2.0	0.0	4.3	0.0	6.9	0.0	6.2	0.0	1.8	1.0	1.7	0.0	0.7	0.0	6.1	0.0	5.2	0.0	1.6
12	0.0	0.8	20.2	3.3	13.4	2.3	0.0	3.7	0.0	6.0	0.0	4.3	0.0	1.7	16.6	1.8	0.0	0.7	0.0	5.2	0.0	3.7	14.7	2.0
13	0.0	0.8	0.1	1.9	0.9	2.3	1.1	3.4	0.0	5.3	10.7	4.1	26.0	2.9	0.0	1.4	0.0	0.7	9.5	4.8	0.0	3.2	0.0	1.7
14	0.0	0.8	0.0	1.6	0.0	2.0	39.1	5.9	0.0	4.8	0.0	3.5	0.0	2.3	5.1	1.2	4.1	0.8	4.3	4.7	0.0	2.9	0.0	1.6
15	0.5	0.7	6.3	1.5	10.3	2.0	0.0	5.1	6.7	4.7	7.3	3.0	20.8	2.5	0.0	1.3	5.5	0.9	1.8	4.2	0.0	2.7	0.9	1.5
16	1.2	0.7	3.5	1.6	0.0	2.1	0.0	4.1	0.0	4.1	63.2	8.7	3.1	3.6	0.0	1.1	26.0	1.6	0.0	3.8	0.0	2.4	0.0	1.5
17	4.0	0.9	0.0	1.4	0.0	1.8	0.0	3.6	0.0	3.7	8.7	16.9	3.0	2.6	0.5	1.1	14.1	1.6	0.0	3.5	0.0	2.3	0.4	1.4
18	0.0	0.8	0.0	1.3	0.0	1.7	0.0	3.3	1.4	3.4	0.0	7.8	0.0	2.2	30.5	2.7	136.5	33.6	0.0	3.2	0.0	2.2	1.5	1.4
19	12.3	0.8	0.1	1.3	0.4	1.7	0.0	3.0	38.3	4.0	0.0	5.6	0.8	2.0	0.0	1.6	2.0	11.2	0.0	2.9	0.0	2.1	0.0	1.4
20	3.6	1.3	36.9	1.8	0.0	1.6	0.0	2.8	11.8	8.6	0.0	4.7	0.0	1.8	0.0	1.3	81.3	22.6	0.0	2.7	5.7	2.1	0.0	1.3
21	0.0	0.9	11.3	5.3	0.0	1.6	5.1	2.8	0.0	4.7	6.0	4.4	0.0	1.6	0.0	1.1	0.0	11.8	0.0	2.6	20.1	3.1	9.1	1.4
22	0.0	0.9	0.0	2.7	0.0	1.5	0.0	2.8	0.0	4.0	0.0	3.9	0.0	1.6	0.0	1.1	0.0	6.3	0.0	2.5	0.0	2.4	0.0	1.5
23	0.0	0.8	0.8	2.3	0.0	1.5	13.5	2.8	0.0	3.4	0.0	3.4	0.0	1.5	56.0	5.6	0.0	4.6	0.0	2.4	0.0	2.2	0.0	1.4
24	0.0	0.8	74.5	13.5	1.1	1.4	1.4	3.0	0.0	3.1	0.0	3.1	14.6	1.5	4.1	3.4	0.0	3.5	0.0	2.3	0.0	2.0	0.0	1.3
25	1.6	0.8	0.0	11.3	9.0	1.7	0.0	2.4	0.0	2.9	5.9	3.0	1.1	1.8	0.0	2.1	21.0	3.9	0.0	2.1	0.0	2.0	0.0	1.3
26	0.4	0.7	4.9	6.2	0.0	1.4	0.0	2.3	0.0	2.7	4.3	2.7	53.7	10.0	0.0	1.7	0.2	3.8	32.3	3.4	8.9	2.1	2.4	1.3
27	0.1	0.7	0.0	4.6	0.0	1.3	0.0	2.2	0.0	2.6	2.2	2.8	0.0	3.7	0.0	1.5	16.4	4.2	7.0	3.7	1.0	2.1	12.0	1.3
28	0.0	0.7	0.0	3.7	0.0	1.3	0.0	2.1	0.0	2.4	4.7	2.9	0.0	2.6	0.0	1.3	0.0	3.3	0.0	2.8	5.3	2.0	2.5	1.5
29	9.0	0.7			30.0	2.5	12.8	2.3	0.0	2.3	0.0	2.4	0.0	2.3	0.0	1.2	1.7	3.0	0.0	2.4	1.0	2.0	0.0	1.3
30	17.0	1.7			4.8	2.4	0.0	2.3	0.0	2.2	1.0	2.3	0.0	2.0	0.0	1.2	15.0	3.0	16.0	2.5	6.5	2.0	0.0	1.3
31	0.1	1.1			9.5	2.3			0.0	2.1			3.9	1.9	0.0	1.1			27.8	5.5			0.0	1.3
total	65.5	26.0	210.1	81.0	113.6	67.4	191.4	115.6	274.7	193.3	251.6	134.9	173.8	79.1	140.6	50.4	337.4	131.5	254.2	151.9	116.4	82.9	65.2	51.3

SHIRASAKA

1991

unit: mm/day

annual precipitation: 2261.0

annual runoff: 1279.7

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	8.2	1.4		1.0	10.9	1.6		3.8		2.5	27.5	2.7		12.8		4.6		3.8	28.5	4.1	0.2	3.0		5.2
2	0.4	1.7		1.0		1.2		3.0		2.2	6.7	2.1	13.6	8.9	0.2	4.0		2.4	12.0	6.2		2.9		4.1
3		1.4		1.0		1.1		2.7		1.9	52.8	8.1	0.9	7.0		3.6		2.0		4.4		2.8		3.6
4		1.4		1.0		1.0		2.5		1.8	28.8	11.2		6.0		3.4		1.8		3.7		2.7		3.2
5		1.3	1.1	1.0		1.0		2.3		1.7		7.2	50.5	10.2		3.1		1.7	3.9	3.3		2.6		2.9
6	1.1	1.3		0.9		1.0		2.1		1.7		4.8	0.9	11.1	6.6	3.1		1.6	11.5	3.7		2.5		2.7
7	6.9	1.3		0.9		0.9	25.3	2.7		1.6		4.0		7.4	43.5	5.1		1.5	46.5	7.1		2.3	0.2	2.6
8	0.2	1.3	0.3	0.9	0.1	0.9	14.0	3.5	0.7	1.5		3.3	0.7	6.3		4.6	0.4	1.4	2.5	8.8		2.2		2.4
9		1.3	0.5	0.9	46.8	3.5	11.7	4.2	46.9	3.6		2.9		5.5		3.5	2.3	1.4	2.2	5.7	14.9	2.8		2.3
10		1.2	1.1	0.9		3.0		3.5		3.6	13.1	2.8	0.1	4.9		3.1		1.4	4.5	5.1		2.2		2.2
11	0.7	1.2	16.1	1.5	5.3	2.1	6.4	3.2		2.5	2.6	3.2		4.5	0.6	3.0		1.2	9.8	4.8		2.1	0.4	2.1
12		1.2		1.1	14.7	3.0	0.6	3.0		2.1		2.6	8.8	4.3	1.5	2.7		1.2	17.0	6.3		2.0	2.0	2.1
13	2.9	1.2		1.0		2.3		2.7	19.1	2.8		2.3	22.0	5.3		2.7	3.7	1.1	2.5	5.2		1.9		2.0
14	0.1	1.1		0.9		2.0	12.3	3.1		2.3	79.8	19.0	0.4	4.4		2.4	78.0	4.8		4.4		1.9		1.9
15		1.1		0.9		1.8		2.8		2.1		7.8	1.2	3.9		2.3	24.8	14.7		3.9		1.9		1.9
16	1.0	1.1	22.9	1.7	0.9	1.6		2.6	19.2	2.6	26.2	6.6	36.7	4.9		2.2	6.2	4.8		3.5		1.8		1.8
17		1.0		1.4	13.3	2.1		2.3	8.8	2.9		6.1	24.6	9.6		2.1		3.6	1.1	3.3		1.7		1.7
18	4.1	1.1		1.2		1.7	4.2	2.3		2.5	2.7	5.1	21.8	8.5		2.0	11.1	3.1	53.3	9.2		1.7	6.8	1.8
19		1.0	0.2	1.1		1.6	6.7	2.7		2.2		4.3	23.9	14.3		1.9	171.3	42.0		6.1		1.7		1.8
20		1.0		1.0		1.5		2.3		2.0	12.1	4.1	1.7	8.0		1.8	17.5	52.2		4.8		1.6		1.6
21	0.6	1.0	0.1	1.0	8.1	1.7		2.1		1.9	4.6	4.6	0.8	6.7	8.0	2.0		11.5		4.2	0.4	1.5		1.6
22	24.2	2.2	2.8	1.0	2.2	1.5		1.9	0.6	1.8	1.2	3.8		5.6	2.5	1.8	2.8	7.7		3.8		1.6		1.6
23		1.5	0.5	1.0	50.3	4.9		1.9		1.7	15.2	4.3	0.5	5.0	2.1	1.8		6.2		3.5		1.5		1.5
24		1.3		0.9	3.7	6.1	5.1	1.9		1.6	23.1	5.3		4.3	1.9	1.8		5.1		3.2	3.6	1.5	9.9	1.8
25	6.8	1.3		0.9		3.8	11.2	2.1	0.5	1.6	20.4	9.8		3.9	12.4	2.1	6.0	4.7	30.0	4.1		1.4		1.6
26		1.3	6.6	0.9		3.1		2.0		1.5		6.6		3.6		1.8		4.2		4.3		1.4	30.7	2.9
27		1.2		0.9	2.0	2.8	2.3	1.9	11.2	1.7		5.2	46.2	6.0		1.7	5.5	4.0	15.5	3.9	1.0	1.4	0.6	2.7
28		1.2	6.2	0.9	10.1	2.8		1.8	4.6	1.7	0.2	4.6	23.4	11.7		1.5	11.0	4.0	7.7	5.0	40.7	2.4	40.9	4.6
29		1.1			0.1	2.5	21.4	1.9	0.6	1.6	23.4	5.4	2.5	6.5	1.5	1.5		3.5		4.0	103.0	35.9	7.5	4.8
30		1.1				2.3	14.0	3.4		1.4	65.8	15.1	13.7	5.8	4.9	1.6	0.9	3.2		3.5		8.2	3.6	3.3
31		1.1			31.8	3.9				1.3				5.3	54.5	5.3				3.3				2.8
total	57.2	38.9	58.4	28.8	200.3	70.3	135.2	78.2	112.2	63.9	406.2	174.9	294.9	212.2	140.2	84.1	341.5	201.8	248.5	146.4	163.8	101.1	102.6	79.1

SHIRASAKA

1992

unit: mm/day

annual precipitation: 1696.0

annual runoff: 802.1

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		2.6	29.9	1.7	7.1	1.1	15.8	2.9	15.1	3.7		2.5	25.6	2.9		1.5		0.9		3.6		1.3		1.3
2		2.5		1.7		1.0	27.4	8.4		2.5		2.3	7.0	2.5	2.3	1.5		0.8	26.1	3.6		1.2	18.8	1.9
3		2.3		1.4		0.9		5.0	2.0	2.3		2.2		2.2	2.5	1.4		0.8		2.7		1.1		1.5
4		2.2	13.4	2.0		0.8		3.8		2.1		2.1		2.0	0.5	1.5		0.8		1.9	0.5	1.1		1.4
5		2.1		2.0		0.9	27.2	4.1		1.9		1.9	1.3	1.8		1.3		0.7		1.6		1.1		1.3
6	0.1	2.0		1.6	20.7	1.6		4.7		1.8		2.0	8.0	2.1		1.3		0.7	18.4	2.1		1.1		1.2
7	14.4	2.4		1.5		1.2		3.5		1.8	4.6	1.9		1.9		1.2		0.6		1.6	2.7	1.1	7.3	1.2
8		2.1		1.4		1.1		3.1	16.5	2.4	64.6	7.4	0.9	1.7		1.2		0.7	0.2	1.4		1.0	62.0	6.0
9	4.0	2.0		1.4		1.0	0.5	2.8	41.1	4.0		6.0		1.6	42.8	2.7		0.6	49.5	5.3	1.6	1.0	0.5	6.6
10	2.9	2.1		1.3	3.0	1.0	9.2	2.6	24.6	11.2		3.5		1.5	1.0	2.8		0.6		4.4	46.6	4.6		3.5
11		1.9		1.3		1.0	17.1	3.7		5.2	3.5	3.0	24.6	1.8		1.6		0.6		2.6		2.5	12.0	3.3
12		1.9		1.3		0.9		3.1		3.9	11.6	2.9	11.1	2.8	8.9	1.7		0.6		2.1		1.8		2.8
13		1.8		1.3		0.9	2.8	2.8	2.6	3.4		2.4	1.4	1.9	8.4	1.6		0.6	0.6	1.8		1.5		2.5
14	3.3	1.8	1.5	1.2		0.9		2.5	31.7	5.0		2.2	49.4	6.8	6.0	2.2		0.6	5.6	1.7	3.2	1.5	3.1	2.3
15		1.7	0.5	1.2		0.9		2.3	4.8	6.6	5.1	2.2	31.3	10.0	1.0	1.6	19.6	1.2	24.1	2.7		1.4	0.3	2.1
16		1.6	2.4	1.2	13.7	1.3	9.8	2.5	39.6	8.8		2.1	0.9	6.0		1.4		0.9	1.5	2.6		1.3		2.0
17		1.6	1.0	1.2	0.9	1.0		2.2		8.4		1.9	0.8	4.1		1.3		0.7		2.0		1.2		1.9
18		1.5		1.1	24.0	1.3		2.1	6.1	6.1		1.9	35.5	6.7	10.1	1.4		0.6		1.8		1.1		1.8
19	4.4	1.5		1.1	11.0	3.0	10.3	2.1	8.4	6.2	1.0	1.8	4.9	6.0	0.5	1.3	15.0	0.9		1.6		1.1		1.6
20		1.6		1.1		1.8	1.4	2.6		5.0	4.2	1.7		4.6		1.1		0.9	22.3	2.1	10.9	1.2		1.6
21		1.5		1.1	12.5	1.7		2.0		4.4	13.6	2.4		3.8		1.1		0.7	0.4	2.6	41.9	5.6	0.6	1.6
22		1.5	1.2	1.1	7.4	2.4	11.9	2.0		4.0		1.8		3.2		1.1		0.6		1.8		2.9	1.4	1.5
23		1.4		1.0		1.8	44.3	9.5	0.2	3.6		1.7		2.9		1.1		0.6		1.6		2.2		1.4
24		1.4		1.0	6.8	1.8		4.2	3.9	3.4	41.0	3.9	0.2	2.6	31.0	1.6		0.5	11.6	1.5		1.9	2.1	1.4
25		1.4	0.3	1.0	14.8	2.2	6.0	3.5	0.3	3.2		3.2		2.3	1.1	2.2	7.1	0.6	13.3	3.0		1.7	3.0	1.4
26		1.3		1.0	0.7	2.1		3.0		2.9		2.4		2.1	0.7	1.5	54.6	6.0		2.0		1.6		1.3
27		1.3		1.0	0.6	1.9		2.7		2.7		2.1		2.0		1.2		1.8		1.7		1.5		1.3
28		1.3		0.9	6.5	1.9		2.5	16.5	3.1	0.4	1.9		1.9		1.1		1.1		1.5		1.4	5.5	1.3
29		1.3	0.7	0.9	9.2	1.8		2.4	1.8	2.7		1.8		1.8		1.0	3.9	1.0	0.9	1.4	0.8	1.4	3.8	1.5
30	0.9	1.3			25.5	3.4	9.1	2.2	11.0	2.7	3.5	1.7		1.6		1.0	46.6	4.0	1.5	1.4		1.3		1.3
31		1.3				3.9			2.5	3.0				1.6		0.9			5.0	1.6				1.2
total	30.0	54.2	50.9	37.0	164.4	48.5	192.8	100.8	228.7	128.0	153.1	76.8	202.9	96.7	116.8	45.4	146.8	31.7	181.0	69.3	108.2	50.7	120.4	63.0

SHIRASAKA

1993

unit: mm/day

annual precipitation: 1965.5

annual runoff: 1106.1

1106.1

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		1.2	0.1	1.1		2.3		1.5	5.0	2.2	0.2	1.0	32.2	19.9		5.7		2.5	41.3	7.1	0.9	2.6	15.1	1.8
2		1.2		1.1		2.0		1.4	1.6	1.8		0.9	0.6	12.2		4.3		2.4		4.4		2.1	1.7	2.1
3		1.1		1.0	0.3	1.9		1.3	31.1	3.5	1.6	0.9	51.9	16.0	23.0	4.4	12.0	2.6		3.6		1.9		1.7
4		1.1		1.0		1.8		1.3		3.1	0.2	0.9	1.2	14.6	9.6	5.4	39.1	5.2	15.1	4.0		1.8	0.8	1.6
5		1.1		1.0		1.7	3.2	1.3		2.3		0.8	32.3	12.3	0.5	4.6	7.3	5.1		3.6		1.7		1.6
6		1.0		1.0		1.6		1.2		2.0		0.8		12.2	24.0	6.2		3.4		3.2		1.6		1.5
7	6.5	1.1		1.0	8.3	1.6		1.1		1.7		0.8	4.1	9.2		5.7	19.3	3.2		3.0		1.6		1.5
8	17.1	1.9	3.5	1.0	0.6	1.8	1.1	1.1		1.5		0.8	1.2	7.8	5.9	4.9	36.8	6.6	7.1	2.9	16.0	1.8		1.4
9		1.4		0.9		1.5		1.1		1.4	38.4	1.7	1.4	6.8	4.1	4.6	20.4	8.9	36.0	7.4	6.7	2.4		1.4
10	12.0	1.5		0.9		1.5		1.1	10.5	1.6	5.1	2.5	6.9	6.3	2.5	4.3	30.1	17.7		4.7		1.8		1.4
11	1.6	1.7		0.9		1.4		1.0	2.0	1.5	5.3	1.5	30.6	7.4	20.3	4.7	3.2	8.4		3.9	5.1	1.7	17.0	2.0
12		1.4		0.9		1.4	1.5	1.0		1.3		1.2	2.0	9.2		4.8		6.2		3.4	1.8	1.8	1.5	1.7
13		1.3		0.9		1.3		1.0		1.2		1.0	6.9	7.2		3.9		5.2		3.1		1.7		1.5
14		1.3		0.9		1.2		1.0		1.2	49.7	3.0	3.2	6.5	9.4	3.7	70.6	6.3		2.9	51.5	7.5	3.3	1.5
15	14.2	1.8		0.8		1.3		1.0	8.0	1.4	11.3	6.4	8.6	6.1	15.8	4.4	23.6	24.7		2.7		4.1	1.1	1.5
16	13.0	1.9		0.8	22.2	2.2		0.9		1.1	1.5	3.0		5.3	13.1	4.7		10.4		2.5		3.0		1.4
17		2.0	20.1	1.0		1.6		0.9		1.1		2.2	0.2	4.7	5.9	5.0		7.6	0.2	2.5		2.6	7.2	1.5
18		1.7	13.1	2.4		1.5		0.9	15.5	1.2		1.8	10.0	4.8	44.3	10.0		6.5		2.4	0.1	2.4		1.5
19	0.5	1.6		1.3		1.4		0.9	1.2	1.8	3.5	1.7	0.5	4.4	8.8	9.6	5.9	6.0		2.3	4.6	2.3		1.4
20		1.4		1.1		1.3		0.9		1.2	64.0	11.3		4.0		7.3		5.1		2.1	1.9	2.1		1.3
21		1.4		1.1		1.2		0.9		1.1		5.7	4.3	3.9	0.7	6.1		4.5	2.4	2.1	4.3	2.1	12.3	1.7
22		1.3	71.0	11.9		1.2		0.9		1.0		3.6		3.6	7.7	5.8	0.2	4.3		2.0	10.9	2.5	5.9	1.6
23		1.3	7.3	5.5		1.2	21.7	1.7	30.4	2.5	33.0	3.9		3.3	6.5	5.2	17.5	4.9		1.9		2.1	5.6	1.5
24	5.0	1.3	1.2	3.8		1.1		1.1		1.7	26.2	9.1	0.4	3.1		4.6	11.1	5.4		1.8	1.8	2.0		1.4
25		1.2		2.9	21.5	2.1	5.0	1.1		1.4		6.1	8.4	3.3		4.1		4.4		1.7		1.9		1.4
26	1.4	1.2		2.4		1.6		1.0		1.2	18.1	5.1	19.0	3.9		3.7		3.8	0.1	1.7		1.9		1.4
27		1.2		2.2		1.4		0.9		1.1	0.6	5.3	3.4	3.5	0.4	3.6		3.5		1.6	1.7	1.8	4.6	1.4
28	4.8	1.2	12.9	2.4	8.9	1.4		0.9		1.0		4.0	0.8	3.1		3.2		3.2		1.6		1.8		1.4
29	6.5	1.1			13.6	2.3	46.8	2.7		1.0	5.3	3.6		2.8		3.0		3.1		1.5		1.6		1.3
30		1.2			0.2	1.7	2.3	2.8	5.9	0.9	77.4	17.7		2.6		2.8	6.7	3.0	19.9	1.8		1.6		1.3
31		1.2				1.6			4.6	1.3			62.1	12.5		2.7			35.3	5.3				1.2
total	82.6	42.3	129.2	53.2	75.6	49.1	81.6	35.9	115.8	48.3	341.4	108.3	292.2	222.5	202.5	153.0	303.8	184.1	157.4	94.7	107.3	67.8	76.1	46.9

SHIRASAKA

1994

unit: mm/day

annual precipitation: 1184.7

annual runoff: 413.5

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	10.7	1.7	7.3	1.0		0.9		0.8		1.2		0.8	0.6	0.8		0.4		0.3		9.8		0.9		0.6	
2		1.4	11.9	2.0		0.9	22.2	1.5		1.2		0.8		0.8		0.4		0.3		4.1		0.9		0.6	
3		1.3	1.3	1.3		0.8		1.2	0.2	1.1		0.7		0.7		0.4	0.1	0.3		2.8	19.1	1.0		0.6	
4		1.3	1.8	1.2		0.8		1.0		1.1		0.7		0.7		0.4		0.3	11.5	2.5	0.5	1.5		0.5	
5		1.2		1.2		0.8		0.9	5.9	1.1		0.7		0.6		0.3		0.3	0.3	2.1		1.0		0.5	
6		1.2		1.1		0.8		0.9	2.1	1.1		0.7		0.6		0.3		0.3		1.8	0.2	0.9	2.1	0.5	
7		1.1		1.1		0.8		0.9		1.0		0.6		0.6		0.3	8.9	0.3		1.5	2.7	0.9		0.5	
8		1.1		1.0	8.0	0.8	16.6	1.5		0.9		0.7	6.3	0.8		0.3		0.4		1.3		0.8	0.3	0.5	
9		1.1	6.2	1.2	33.5	3.3		1.1		0.9	18.4	0.9	13.0	0.7		0.3		0.3		1.2		0.8	7.2	0.5	
10		1.1	1.1	1.1		1.8		1.0		0.8	4.4	1.1		0.9	2.4	0.4		0.3		1.1		0.8	8.4	0.9	
11		1.1		1.0		1.4		0.9		0.8		0.8		0.7		0.3	0.2	0.3	1.3	1.1		0.7		0.6	
12		1.0	8.7	1.0		1.3	1.6	0.9	56.4	3.8		0.7		0.6		0.3		0.3		1.0		0.7	0.6	0.6	
13		1.0	13.3	1.4	5.5	1.3	49.5	3.9		3.0	8.9	0.8		0.5		0.3	4.5	0.2	6.7	1.1		0.7	0.5	0.6	
14	1.1	1.0		1.1		1.1		2.6		1.8	15.7	1.1		0.6	1.7	0.3	0.3	0.3		0.9		0.6		0.5	
15		1.0		1.0		1.1		1.8	1.0	1.5		1.1		0.5		0.3		0.2		0.8		0.6	0.2	0.5	
16		1.0		1.0		1.1		1.5	4.5	1.5		0.8		0.5		0.3	7.3	0.3		0.8		0.6	0.2	0.5	
17		1.0		1.0	0.3	1.0		1.4		1.3		0.7		0.5		0.3	75.2	3.3	1.3	0.8	1.0	0.6		0.5	
18	23.3	1.9		1.0		1.0		1.3	2.9	1.2		0.7	6.4	0.5		0.2	76.9	19.3		0.7	0.6	0.6		0.5	
19		1.3		1.0		1.0	20.2	1.9		1.1	21.4	1.0	26.9	1.4		0.2	0.5	5.1		0.7	22.5	1.2	0.5	0.5	
20		1.2		1.0		0.9		1.6		1.0	5.5	1.4	3.1	1.4	22.5	1.0	12.5	2.8	0.4	0.7		0.9		0.5	
21		1.1	6.0	1.1		0.9		1.4		1.0	29.8	4.9		0.8	23.2	1.6		1.7	1.1	0.7		0.8		0.5	
22		1.1	3.6	1.3		0.9		1.3		0.9		1.9		0.7	1.4	0.7		1.3	24.7	1.5		0.7		0.5	
23		1.0	2.7	1.1	0.5	0.9		1.2		0.9		1.4		0.6	16.2	0.9	1.3	1.1		0.9	0.2	0.7		0.5	
24	0.1	1.0		1.1	17.0	1.5	6.6	1.3		0.9	3.8	1.2		0.5		0.6		0.9		0.8		0.6		0.5	
25		1.0		1.0		1.0		1.2		0.8	0.6	1.1	0.5	0.5		0.5	22.6	1.7		0.8		0.6		0.5	
26		1.0		0.9		1.0		1.1		0.8		1.0		0.5	2.7	0.5		1.3		0.7		0.6		0.4	
27		1.0		0.9		0.9		1.1	31.8	1.6		0.9		0.5		0.4	0.7	1.0	9.5	0.8		0.6	6.6	0.5	
28		0.9		0.9		0.9	23.3	1.4	2.3	1.4	2.9	0.9		0.5		0.4	8.5	1.1		0.8		0.6		0.5	
29	19.2	1.2				0.9	2.1	2.0		1.0	0.5	0.9		0.4		0.4	0.3	1.0	25.1	1.8		0.6		0.5	
30		1.1				0.8		1.4		0.9		0.9	4.5	0.5		0.3	132.2	33.4		1.6		0.6		0.4	
31		1.0				0.8				0.9				0.5		0.3				1.1				1.8	0.4
total	54.4	35.4	63.9	31.0	64.8	33.4	142.1	42.0	107.1	38.5	111.9	31.9	61.3	20.4	70.1	13.6	352.0	79.7	81.9	48.3	46.8	23.1	28.4	16.2	

SHIRASAKA

1995

unit: mm/day

annual precipitation: 1656.7

annual runoff: 770.9

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	0.4	0.5	0.8	0.6	17.7	0.6	0.0	2.1	13.8	3.2	0.0	2.3	23.4	1.6	0.0	3.0	27.2	3.4	0.0	1.0	0.2	0.9	0.0	0.8
2	0.0	0.4	0.0	0.6	0.0	0.8	0.0	1.6	25.7	7.5	0.0	2.1	0.2	1.8	0.0	2.8	0.0	1.5	45.6	3.7	0.0	0.8	0.0	0.7
3	0.0	0.4	0.0	0.6	0.0	0.6	0.0	1.4	0.0	5.6	0.0	2.0	13.1	1.7	0.0	2.6	9.6	1.2	0.1	2.8	0.0	0.8	0.0	0.7
4	28.0	0.6	0.0	0.5	0.0	0.6	0.0	1.2	0.0	4.4	20.2	2.6	78.5	11.3	0.0	2.4	2.0	1.6	0.0	1.9	0.0	0.8	0.0	0.7
5	7.5	2.0	0.0	0.5	0.2	0.5	0.0	1.1	24.0	4.8	1.0	2.4	58.1	23.9	0.0	2.2	0.0	1.1	0.0	1.6	0.0	0.8	0.0	0.7
6	0.2	0.9	11.0	0.6	1.0	0.5	0.0	1.0	0.0	4.8	0.0	2.1	51.0	19.0	0.0	2.1	0.0	1.0	11.1	1.8	0.0	0.7	0.0	0.7
7	0.0	0.7	1.0	0.6	0.0	0.5	42.8	3.5	0.0	3.9	0.0	1.9	8.6	23.1	0.0	2.0	0.0	1.0	0.0	1.4	0.0	0.7	0.5	0.7
8	0.0	0.6	0.0	0.6	0.0	0.5	0.0	2.9	0.0	3.4	0.0	1.8	0.5	10.6	0.0	1.9	0.0	0.9	0.3	1.3	52.5	5.1	0.0	0.7
9	0.0	0.6	0.0	0.6	0.0	0.5	0.0	2.0	0.0	3.1	8.7	2.0	10.8	8.4	0.0	1.7	0.0	0.9	5.2	1.4	1.1	2.4	0.0	0.7
10	0.0	0.6	0.0	0.6	7.7	0.5	28.2	4.0	0.0	2.8	1.8	1.9	0.0	6.4	0.0	1.6	0.0	0.9	0.0	1.2	0.0	1.6	0.0	0.6
11	0.0	0.6	0.0	0.5	9.4	0.8	0.0	3.0	0.0	2.6	0.0	1.7	0.4	5.3	0.1	1.6	2.2	0.9	0.0	1.1	0.0	1.4	0.0	0.6
12	0.0	0.6	0.0	0.5	0.0	0.6	22.2	2.6	2.7	2.4	0.7	1.6	0.0	4.6	0.0	1.5	0.0	0.8	0.0	1.1	0.0	1.3	0.0	0.6
13	0.5	0.5	12.0	0.7	7.4	0.7	0.8	4.3	15.0	3.0	7.0	1.7	2.5	4.2	0.0	1.4	0.0	0.7	0.0	1.0	0.0	1.2	0.0	0.6
14	0.0	0.6	0.0	0.7	0.0	0.6	1.0	2.8	0.7	2.4	6.2	1.9	13.9	4.2	0.6	1.4	0.6	0.7	0.0	1.0	0.0	1.0	0.0	0.6
15	2.0	0.5	0.0	0.6	0.0	0.6	24.4	4.0	33.1	3.3	24.0	3.4	13.9	5.6	0.1	1.3	18.3	1.2	0.0	0.9	12.1	1.4	0.8	0.6
16	2.1	0.5	0.0	0.6	0.0	0.5	0.0	3.3	23.5	6.6	1.4	2.5	1.1	4.0	0.0	1.2	5.5	1.0	0.0	0.9	0.0	1.1	0.0	0.6
17	0.0	0.5	0.0	0.5	15.4	0.8	12.0	3.1	22.5	10.1	0.0	2.1	11.2	3.7	0.0	1.2	75.4	7.4	0.0	0.9	0.0	1.0	0.0	0.6
18	0.0	0.5	0.0	0.5	17.5	2.0	0.0	2.8	0.0	6.2	0.0	1.8	2.0	4.2	0.0	1.1	1.2	5.8	0.0	0.8	0.0	0.9	0.0	0.6
19	0.6	0.5	0.0	0.5	0.0	1.3	19.6	2.9	0.0	4.7	1.2	1.7	0.4	3.4	0.0	1.1	0.0	2.4	0.0	0.8	0.0	0.9	0.0	0.6
20	0.0	0.5	0.0	0.5	0.0	1.0	0.6	3.6	0.0	4.0	6.8	1.8	3.6	3.1	0.0	1.0	0.0	1.8	0.0	0.8	6.1	0.8	0.0	0.6
21	0.0	0.5	0.0	0.5	0.0	0.9	0.0	2.8	0.0	3.5	0.0	1.7	48.4	4.4	0.0	0.9	0.0	1.4	0.0	0.7	11.5	1.7	0.0	0.6
22	0.7	0.5	0.0	0.5	0.0	0.8	18.6	2.6	24.6	4.5	0.0	1.5	46.8	17.5	30.0	2.1	0.0	1.3	0.0	0.7	0.0	1.0	0.4	0.6
23	35.0	2.1	0.0	0.5	0.0	0.7	27.7	7.6	0.0	4.1	0.3	1.4	14.7	20.4	0.0	1.3	0.0	1.2	0.0	0.7	0.1	1.0	0.0	0.6
24	0.2	1.1	0.0	0.5	0.6	0.7	17.5	9.0	0.0	3.4	0.0	1.4	0.0	9.9	0.0	1.1	0.0	1.1	1.7	0.7	1.4	0.9	0.0	0.6
25	0.0	0.8	0.0	0.5	6.3	0.8	2.1	5.7	0.0	3.0	0.0	1.3	0.0	7.2	0.0	1.0	37.6	3.3	47.0	3.3	0.0	0.9	1.2	0.6
26	0.0	0.7	1.5	0.5	31.1	1.4	2.5	4.6	11.8	3.1	3.3	1.2	0.0	5.9	0.0	1.0	0.3	1.7	0.0	1.8	0.1	0.8	0.8	0.5
27	0.2	0.7	3.8	0.6	0.4	1.8	0.0	3.7	0.0	2.8	2.5	1.4	0.0	5.0	0.0	0.9	3.5	1.4	0.0	1.2	0.3	0.8	0.0	0.5
28	0.0	0.7	0.0	0.5	1.3	1.3	0.0	3.2	0.0	2.5	0.4	1.2	0.0	4.4	0.0	0.8	0.0	1.3	0.0	1.0	0.0	0.8	0.0	0.5
29	0.0	0.6			0.0	1.1	5.1	3.1	20.7	2.7	0.0	1.2	0.0	4.0	0.0	0.8	0.0	1.1	0.2	1.0	0.0	0.8	2.2	0.5
30	0.4	0.6			14.0	1.1	16.8	3.3	2.2	3.1	0.0	1.1	0.0	3.6	0.0	0.8	0.0	1.0	8.4	1.0	0.0	0.8	0.0	0.5
31	0.1	0.6			19.9	2.4			0.0	2.6			0.0	3.3	22.9	1.7			0.0	1.0			0.0	0.5
total	77.9	21.5	30.1	15.5	149.9	27.5	241.9	98.8	220.3	124.1	85.5	54.7	403.1	235.7	53.7	47.5	183.4	51.0	119.6	40.5	85.4	35.1	5.9	19.0

SHIRASAKA

1996

unit: mm/day

annual precipitation: 1462.5

annual runoff: 550.2

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		0.5		0.5	32.9	1.2		4.9	0.7	0.8		0.7	6.7	2.2		1.5		1.8	22.6	2.7	17.7	1.1		1.1
2		0.5	0.8	0.5	0.3	2.5		3.2	2.0	0.9		0.7		1.8		1.4		1.5		1.6	4.5	1.3		1.1
3		0.5	0.6	0.5		1.2		2.6		0.8		0.7		1.5		1.3		1.3		1.3	0.2	1.1	6.1	1.1
4	0.7	0.5	1.3	0.5		1.0		2.3		0.8		0.7		1.4		1.3		1.2	16.1	1.9		1.0		1.0
5		0.5		0.5	5.8	0.9		2.0	36.1	1.7		0.7	0.3	1.2		1.2		1.1		1.5		0.9	28.8	1.5
6		0.5	1.8	0.5		0.8		2.0		1.8		0.6	20.7	2.3		1.1		1.0		1.3	3.0	0.9	15.4	4.7
7		0.5		0.5		0.7	2.1	1.9		1.2		0.6		1.5		1.1	0.2	1.0		1.1		0.9		2.7
8		0.5		0.5	24.5	1.3		1.8		1.1	1.3	0.6	67.2	6.6	3.1	1.1		0.9	0.2	1.1	11.1	0.9		2.1
9	6.7	0.5		0.5		1.8		1.5	47.0	2.4	1.4	0.6	40.5	24.1		1.1	4.1	0.9	23.0	2.1	4.0	1.2		1.8
10	10.1	0.5		0.5		1.2		1.4	0.8	4.4	9.0	0.8	0.6	8.4		1.0	25.9	1.9		1.5		1.0		1.6
11		0.5		0.5		1.1		1.3		2.1	28.5	1.6		5.6		1.0	1.1	1.5	0.3	1.3		0.9	4.3	1.6
12		0.5		0.5	1.3	1.0		1.2		1.7		1.4		4.1		0.9		1.2	0.7	1.2	25.6	1.7		1.4
13		0.5		0.5		0.9		1.2	0.1	1.5		1.0		3.3		0.9	0.5	1.0	15.7	1.7		1.7		1.3
14		0.5		0.5		0.8		1.1		1.3	0.9	0.8		2.8	13.4	1.1	12.9	1.2	6.1	1.4		1.2		1.3
15	6.1	0.7		0.5	3.0	0.8		1.1		1.2	0.4	0.8		2.5	47.6	3.4		1.2	39.3	7.0		1.1		1.2
16	14.9	1.0		0.4	16.1	1.4	3.8	1.1		1.1		0.8		2.2		2.2	0.3	1.0	0.2	3.4		1.0		1.2
17		0.8	1.3	0.4	34.4	2.0	22.3	2.1		1.0		0.7		2.0		1.4		0.9		2.4		1.0		1.1
18		0.7	16.7	0.5	14.4	8.0	10.6	1.7		1.0	9.2	0.7		1.8		1.2	0.6	0.9		2.0	4.6	1.0	23.0	1.9
19		0.6	2.6	0.6		3.0		1.7		1.0	17.9	1.9		1.7		1.1		0.9		1.8		1.0		1.5
20	0.8	0.6		0.5		2.2		1.4		0.9		1.1	32.0	2.4		1.0		0.8		1.6		0.9	3.5	1.4
21		0.6		0.5		1.8		1.3	0.5	0.9	15.9	1.4	5.4	3.0		1.0	8.2	1.0		1.5		0.9		1.3
22		0.5		0.5	18.7	1.9	2.6	1.2	34.0	1.6	4.4	1.4	0.1	2.0		0.9	3.3	0.9		1.3		0.8		1.2
23	1.0	0.5		0.4	6.9	2.8		1.1	0.3	1.9	0.3	1.2	28.0	2.8		0.9	11.0	1.3		1.2		0.8	2.8	1.2
24	0.5	0.5		0.4		2.0		1.1		1.2		1.0	32.3	8.4		0.8		0.9		1.1		0.8		1.2
25	0.4	0.5		0.4	18.1	2.2		1.0		1.1	54.0	6.5		3.7		0.8		0.8		1.1		0.8		1.1
26		0.5	18.5	0.9	0.8	2.4		1.0		1.0	23.6	5.1		2.8	0.2	0.8	6.7	0.9		1.0		0.8		1.1
27		0.5	0.6	0.8		2.0		0.9		0.9	1.2	5.6		2.4	13.0	0.9	0.6	1.0		1.0	11.9	0.8		1.0
28		0.5		0.7		1.7		0.9		0.9	5.0	3.5		2.1	28.2	2.0		0.8		0.9	21.8	2.3		1.0
29		0.5		0.6		1.5		0.9		0.8	0.5	2.8		1.9	34.1	5.0		0.7	2.6	1.0		1.3		1.0
30		0.5			6.6	1.6		0.9		0.8	1.0	2.2		1.7	8.8	3.1	20.0	0.9		0.9	5.0	1.2		1.0
31	4.6	0.5			53.6	10.1				0.8				1.6		2.2				0.9				1.0
total	45.8	17.0	44.2	15.1	237.4	63.8	41.4	47.8	121.5	40.6	174.5	48.2	233.8	111.8	148.4	44.7	95.4	32.4	126.8	51.8	109.4	32.3	83.9	44.7

SHIRASAKA

1997

unit: mm/day

n/a : data not available

annual precipitation: 2037.6

annual runoff:

n/a

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	0.0		0.0		0.0	0.6	0.0	1.1	6.0	1.3	0.0	1.6	0.0	1.9	1.7	7.4	0.0	2.0	0.0	2.7	0.0	1.0	0.0	9.7
2	0.0		0.0		4.0	0.6	0.0	1.0	0.0	1.2	0.0	1.5	2.9	1.6	0.0	6.2	0.0	1.9	0.0	2.6	0.0	1.0	2.7	5.4
3	0.5		7.8		0.0	0.6	11.5	1.1	0.0	1.1	0.0	1.5	4.1	1.8	0.0	5.2	0.0	1.8	3.4	2.6	0.0	0.9	0.5	4.0
4	0.0		0.0		0.0	0.6	8.5	1.4	24.1	1.8	0.7	1.4	0.0	1.6	0.0	4.5	0.0	1.7	2.0	2.5	0.0	0.9	0.0	3.2
5	0.0		0.0		0.0	0.5	9.0	1.4	0.0	1.8	1.0	1.4	0.0	1.4	3.0	4.1	0.0	1.6	4.7	2.6	0.0	0.9	0.0	2.8
6	16.0		0.0		0.0	0.5	50.5	7.3	1.8	1.4	21.3	1.5	0.0	1.3	77.4	19.8	0.0	1.5	0.0	2.4	0.0	0.8	0.0	2.5
7	0.0		0.0		2.9	0.6	37.9	13.6	0.0	1.3	0.5	2.1	0.0	1.2	1.7	9.7	22.1	2.6	0.0	2.2	0.0	0.8	0.0	2.3
8	0.0		0.0		0.0	0.6	13.9	9.7	21.3	1.6	0.0	1.4	3.7	1.3	4.8	7.6	13.4	2.1	0.3	2.2	0.0	0.8	19.2	2.7
9	0.0		0.0		0.0	0.5	0.0	5.9	47.8	8.4	1.3	1.3	1.0	1.2	0.0	6.3	39.4	3.8	0.0	2.0	0.0	0.8	8.5	3.5
10	0.0		0.0		0.0	0.5	0.0	4.2	0.0	4.9	14.7	1.7	29.8	2.5	0.0	5.6	0.4	4.9	0.3	1.9	0.0	0.8	0.0	2.7
11	0.0		0.0		4.7	0.6	0.0	3.2	0.0	3.0	1.0	1.4	130.9	31.4	0.8	5.0	0.0	2.5	2.5	1.9	0.0	0.8	0.0	2.3
12	0.0		4.8		0.0	0.5	0.0	2.7	0.0	2.4	1.2	1.4	31.2	23.7	0.0	4.4	0.0	2.1	0.0	1.9	0.0	0.8	0.0	2.2
13	0.0		0.0		0.0	0.5	0.0	2.3	0.0	2.0	0.0	1.3	40.5	28.7	0.0	4.0	0.0	1.9	0.0	1.7	7.1	0.8	0.0	2.1
14	0.0		0.0		0.3	0.5	0.0	2.1	32.8	2.6	0.0	1.2	14.3	n/a	0.0	3.7	28.9	3.5	0.0	1.7	0.4	0.9	0.0	1.9
15	0.0		0.0		23.1	0.9	0.0	1.9	24.7	7.9	0.0	1.1	0.0	n/a	84.0	28.9	182.1	54.3	0.0	1.6	12.1	1.1	0.0	1.9
16	0.0		20.0		13.7	1.3	0.0	1.7	8.6	5.6	3.4	1.2	5.7	8.1	2.4	9.7	8.3	33.4	0.0	1.5	0.0	0.9	0.2	1.8
17	0.0		0.0		0.4	1.1	0.0	1.6	0.0	4.3	0.4	1.2	8.7	6.6	0.0	7.5	7.0	11.1	0.0	1.5	10.2	0.9	0.0	1.7
18	0.0		0.0		0.0	0.9	5.1	1.5	0.0	3.5	0.0	1.1	3.8	6.4	0.0	6.5	16.8	9.7	0.0	1.5	28.8	3.9	23.5	2.6
19	0.5		0.8		0.0	0.8	6.2	1.7	0.6	2.9	3.6	1.2	0.0	5.1	0.0	5.2	4.4	7.6	0.0	1.4	0.0	1.5	0.0	2.2
20	0.0		0.0		0.0	0.7	0.0	1.5	5.8	2.7	20.7	1.3	0.0	4.5	0.0	4.8	0.0	6.0	0.0	1.4	0.0	1.3	0.0	2.0
21	0.0		0.4		0.0	0.7	0.0	1.4	12.3	3.1	31.1	4.6	0.0	4.0	0.0	4.2	0.0	5.1	0.0	1.3	0.5	1.2	0.0	1.9
22	1.1		0.2		16.1	0.9	2.5	1.3	0.0	2.5	5.2	2.2	0.0	3.6	0.0	3.9	0.2	4.5	0.0	1.2	16.4	1.3	0.0	1.7
23	0.3		0.0		0.0	0.9	0.2	1.3	0.0	2.3	12.6	2.2	3.2	3.3	0.0	3.6	20.1	4.6	0.0	1.2	14.1	2.5	0.0	1.7
24	0.0		0.0		0.8	0.8	0.0	1.2	0.4	2.0	2.3	2.5	0.0	3.1	0.0	3.3	2.2	5.0	0.0	1.2	0.0	1.7	0.0	1.6
25	5.9		0.0		0.0	0.7	0.0	1.1	21.1	3.0	0.0	2.0	0.0	2.9	0.0	3.0	0.0	4.1	10.2	1.5	0.0	1.4	0.0	1.6
26	0.0		3.3		0.0	0.7	0.0	1.1	0.0	2.4	0.4	1.7	1.1	2.7	0.0	2.8	3.9	3.8	0.0	1.3	9.3	1.3	0.0	1.5
27	0.4		0.0		10.1	0.8	0.0	1.0	4.5	2.2	0.0	1.6	8.9	2.8	0.0	2.7	2.6	3.7	0.0	1.2	70.3	12.3	7.2	1.6
28	0.0		0.8	0.6	0.7	0.8	7.9	1.0	0.0	2.0	9.6	1.4	11.8	2.9	0.0	2.5	0.0	3.4	0.6	1.1	0.0	4.6	0.0	1.6
29	0.2				0.0	0.7	18.8	1.9	0.0	1.8	26.8	3.3	104.4	24.1	0.0	2.4	0.0	3.1	0.0	1.1	10.7	3.1	0.0	1.4
30	3.0				29.3	1.8	0.0	1.3	0.0	1.7	0.0	2.5	17.8	16.3	0.0	2.2	0.0	2.9	0.0	1.0	77.1	19.1	10.8	1.4
31	0.0				0.0	1.5			2.1	1.7			8.6	9.7	0.0	2.1			0.0	1.0			8.2	2.3
total	27.9		38.1		106.1	23.7	172.0	79.5	213.9	86.4	157.8	51.8	432.4	n/a	175.8	188.8	351.8	196.2	24.0	52.9	257.0	70.1	80.8	77.8

SHIRASAKA

1998

unit: mm/day

n/a : data not available

annual precipitation: 2335.3

annual runoff:

n/a

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	0.0	1.7	0.0	1.8	5.1	2.1	0.0	2.1	0.0	3.9	0.0	6.1	0.0	4.5	0.0	6.1	0.0	5.6	53.2	12.2	0.0	4.1	2.3	1.3
2	7.2	1.7	0.0	1.8	0.0	1.9	42.4	4.1	0.4	3.7	0.0	5.2	1.4	4.2	0.0	4.7	9.6	3.7	28.5	26.4	0.0	3.7	0.5	1.3
3	0.0	1.6	0.0	1.7	0.0	1.8	0.0	4.8	28.1	5.0	29.8	5.8	0.0	3.9	0.0	4.0	0.0	2.9	0.0	13.3	0.0	3.4	0.0	1.3
4	11.3	1.6	0.0	1.7	0.0	1.7	0.0	3.4	20.9	7.4	1.1	6.3	0.0	3.5	0.0	3.5	0.0	2.5	0.0	9.4	0.0	3.2	4.3	1.4
5	1.6	2.0	0.0	1.6	0.2	1.6	0.0	2.9	0.0	5.0	0.0	5.1	1.7	3.3	0.0	3.0	0.0	2.2	0.0	7.6	0.0	3.1	14.7	1.4
6	0.0	1.6	0.0	1.5	24.5	2.8	8.3	2.7	1.6	4.4	0.0	4.6	0.0	3.1	0.0	2.7	0.5	1.9	0.0	6.5	0.0	2.9	12.1	2.6
7	0.1	1.5	0.0	1.5	0.0	2.2	28.2	4.7	0.0	4.0	0.0	4.1	0.0	2.9	7.7	2.6	7.5	2.1	0.0	5.7	0.0	2.8	0.5	1.6
8	0.1	1.5	3.5	1.6	0.0	1.9	0.0	4.7	2.5	3.8	0.6	3.9	0.0	2.7	13.8	3.5	3.1	2.0	27.0	6.9	0.0	2.7	9.6	1.7
9	17.6	2.2	19.1	1.7	0.0	1.9	6.4	3.8	21.8	5.4	0.0	3.5	0.0	2.5	0.0	2.5	0.0	1.8	0.0	5.9	0.0	2.5	0.0	1.6
10	0.0	1.8	1.3	1.7	0.0	1.7	23.9	6.0	0.0	4.2	13.9	3.9	2.1	2.4	0.0	2.3	0.0	1.6	0.0	4.9	1.5	2.4	0.0	1.4
11	0.0	1.7	0.0	1.7	0.0	1.7	0.0	5.0	0.0	3.7	0.0	3.5	14.5	3.0	0.0	2.1	0.0	1.5	0.0	4.5	0.0	2.3	0.0	1.3
12	12.1	1.8	0.0	1.5	16.0	2.0	0.0	4.1	52.4	9.0	0.0	3.2	1.6	2.7	0.0	2.0	0.0	1.4	0.0	4.0	0.0	2.2	0.0	1.3
13	7.6	2.3	0.1	1.6	3.5	2.1	35.0	4.7	19.5	9.3	0.0	3.0	0.0	2.3	0.1	1.9	0.0	1.3	0.0	3.8	0.0	2.1	0.0	1.2
14	0.0	2.0	0.0	1.6	0.0	1.8	32.6	9.7	0.0	8.4	17.4	3.7	0.1	2.2	2.6	1.8	0.0	1.3	7.3	3.8	0.0	2.1	0.0	1.2
15	20.3	2.2	9.8	1.7	4.5	1.8	45.9	18.9	0.0	6.4	28.2	6.0	0.0	2.1	0.0	1.8	7.1	1.4	1.1	3.6	0.0	2.0	1.6	1.2
16	23.4	6.2	0.0	1.8	0.0	1.7	0.0	17.6	0.0	5.5	0.0	4.6	6.9	2.1	1.5	1.7	91.3	9.5	35.2	4.8	0.0	1.9	0.0	1.2
17	0.0	4.2	0.0	1.5	0.0	1.6	0.0	9.9	53.2	10.3	0.0	3.7	4.5	2.4	0.0	1.6	0.0	8.6	48.8	9.8	1.0	2.0	0.0	1.1
18	8.4	3.3	0.0	1.4	0.0	1.5	1.3	7.8	8.0	9.8	0.0	3.3	2.6	2.0	1.1	1.6	1.4	4.0	52.9	27.0	0.9	1.8	0.0	1.1
19	24.8	6.5	0.0	1.4	0.0	1.5	4.6	6.7	7.0	8.9	1.6	3.0	0.0	1.9	0.0	1.4	1.1	3.2	0.0	12.7	0.0	1.7	0.0	1.1
20	0.2	4.5	3.6	1.4	26.8	2.0	0.0	5.8	0.0	7.1	64.9	12.7	0.0	1.8	8.5	1.6	0.0	2.9	0.0	9.1	0.0	1.7	0.0	1.1
21	0.0	3.7	42.7	5.3	9.0	3.8	0.0	5.1	0.0	6.1	0.0	8.1	0.0	1.7	0.0	1.6	6.5	2.4	0.3	n/a	0.0	1.6	0.0	1.0
22	0.0	3.2	0.0	3.4	0.0	2.5	0.0	4.6	0.0	5.3	64.5	16.1	0.0	1.6	0.0	1.3	63.5	9.8	18.7	n/a	0.0	1.6	0.0	1.0
23	0.6	3.0	0.0	2.6	0.0	2.1	11.9	4.4	0.0	4.7	4.4	15.9	0.0	1.6	0.0	1.3	26.1	10.8	0.0	6.4	0.0	1.6	0.0	1.0
24	0.0	2.7	0.0	2.2	0.0	1.9	49.5	9.2	0.5	4.3	7.5	10.6	4.5	1.6	0.0	1.2	45.9	19.8	7.1	6.0	0.0	1.5	0.0	0.9
25	0.0	2.6	17.3	2.6	0.0	1.8	5.5	10.1	46.9	7.4	1.0	8.4	3.9	1.7	0.0	1.3	0.9	9.9	0.0	5.5	0.0	1.5	0.0	0.9
26	0.1	2.5	0.9	2.4	0.0	1.7	2.8	7.3	0.6	6.4	1.6	7.2	0.0	1.5	19.3	1.6	14.2	9.6	0.5	4.9	0.0	1.5	0.0	0.9
27	0.1	2.4	0.5	2.2	21.9	2.0	0.0	5.9	0.4	5.2	0.0	6.4	0.0	1.4	4.0	1.7	27.4	14.2	0.0	4.5	0.0	1.4	0.0	0.9
28	0.0	2.3	0.0	2.1	15.8	4.2	0.0	5.2	0.0	4.5	0.0	5.7	110.7	14.9	7.8	1.6	25.3	24.6	7.6	4.5	3.9	1.4	0.0	0.9
29	0.0	2.0			0.0	2.9	0.0	4.7	42.8	6.4	12.7	5.9	47.7	23.6	22.6	2.8	2.8	10.7	0.0	4.1	0.0	1.4	0.0	0.9
30	0.0	2.0			0.0	2.5	0.0	4.2	18.7	9.7	0.0	5.1	20.5	8.8	29.6	5.3	0.0	8.0	0.0	3.9	0.0	1.3	0.0	0.9
31	0.0	1.9			0.0	2.2			0.5	7.8			20.7	9.3	42.7	10.0			19.5	4.8			0.9	0.9
total	135.5	80.2	98.8	55.0	127.3	64.9	298.3	190.1	325.8	193.0	249.2	184.6	243.4	123.2	161.3	82.1	334.2	181.2	307.7	n/a	7.3	65.4	46.5	37.6

SHIRASAKA

1999

unit: mm/day

annual precipitation: 2004.4

annual runoff: 1042.6

1042.6

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	0.0	0.9	0.2	0.7	0.0	1.1	0.0	1.6	0.0	1.0	0.0	1.7	0.1	43.9	0.0	3.1	0.0	1.5	0.0	3.3	38.3	2.1	0.0	1.3
2	0.0	0.8	0.0	0.7	0.0	1.0	0.0	1.3	0.0	0.9	0.0	1.6	0.0	17.9	0.0	2.7	12.4	2.0	0.0	3.1	18.6	7.2	2.4	1.3
3	0.0	0.8	2.0	0.7	0.0	0.9	3.8	1.4	0.0	0.9	0.0	1.5	19.2	11.7	4.0	2.6	0.0	1.5	3.3	3.0	0.0	2.7	0.0	1.3
4	0.0	0.8	1.0	0.7	0.0	0.8	0.0	1.2	3.0	0.9	0.0	1.4	22.3	13.2	0.0	2.3	4.7	1.5	0.0	2.8	0.0	2.2	0.0	1.2
5	0.2	0.8	0.0	0.6	0.0	0.8	0.0	1.1	109.4	20.4	0.0	1.3	0.0	10.5	0.0	2.1	1.1	1.6	0.0	2.6	0.0	1.9	0.0	1.2
6	0.0	0.8	0.0	0.6	1.8	0.8	0.0	1.1	0.2	6.8	0.0	1.2	1.5	8.6	0.0	2.0	0.0	1.4	0.0	2.5	0.0	1.7	0.3	1.2
7	0.0	0.8	0.0	0.6	0.0	0.7	12.5	1.5	0.0	3.9	31.3	1.8	0.0	7.0	0.0	1.9	1.3	1.3	15.2	2.7	0.0	1.6	0.0	1.1
8	4.2	0.8	0.0	0.6	11.7	1.0	0.0	1.1	0.0	3.0	6.0	3.0	0.0	6.1	0.0	1.7	34.6	3.5	3.7	3.0	0.0	1.5	0.0	1.1
9	8.9	0.8	0.0	0.6	0.0	0.8	0.0	1.0	0.0	2.5	0.0	1.7	0.0	5.4	0.0	1.6	4.4	2.2	0.0	2.5	0.0	1.5	0.0	1.1
10	1.7	0.8	0.0	0.6	4.8	0.8	0.0	1.0	0.0	2.2	0.0	1.4	0.0	4.8	0.0	1.6	0.0	1.8	0.0	2.2	0.0	1.4	0.4	1.1
11	1.1	0.8	2.6	0.6	0.0	0.8	40.7	2.9	0.0	2.0	0.0	1.3	0.0	4.3	11.0	1.8	2.3	1.6	0.0	2.1	0.0	1.3	0.0	1.0
12	0.1	0.8	22.2	1.4	0.0	0.7	0.0	2.7	0.0	1.7	0.0	1.2	1.5	4.1	4.5	2.0	0.0	1.5	0.0	2.0	7.5	1.3	0.0	1.0
13	0.0	0.8	0.0	0.8	0.0	0.7	2.0	1.9	0.0	1.6	0.0	1.2	22.4	4.6	0.0	1.6	0.0	1.4	0.0	2.0	15.4	2.3	0.0	1.0
14	1.0	0.8	0.0	0.7	0.0	0.7	0.0	1.7	0.0	1.5	0.0	1.1	16.3	6.5	11.4	1.9	3.8	1.5	0.5	1.9	0.0	1.5	0.0	1.0
15	0.0	0.8	0.3	0.7	2.1	0.7	0.0	1.4	0.0	1.4	0.0	1.0	12.2	6.0	21.2	1.6	165.3	30.8	0.5	1.8	0.0	1.4	0.3	1.0
16	1.9	0.8	0.0	0.7	14.6	1.1	0.0	1.3	42.1	3.0	6.4	1.2	0.0	4.7	66.1	9.8	15.4	20.1	8.6	2.1	27.8	2.8	0.1	1.0
17	0.0	0.8	0.0	0.7	0.0	0.8	0.0	1.2	0.0	3.7	0.9	1.0	0.0	4.1	14.5	7.0	13.2	10.0	0.0	1.8	0.0	2.0	0.0	0.9
18	0.0	0.8	0.0	0.6	0.0	0.8	3.1	1.2	0.0	2.2	14.9	1.4	0.0	3.7	0.0	4.2	0.0	6.8	0.0	1.7	0.0	1.7	0.0	0.9
19	0.0	0.7	1.5	0.7	3.2	0.7	12.4	1.6	13.3	1.8	12.1	1.5	2.2	3.5	0.1	3.3	0.8	5.3	0.0	1.6	0.0	1.6	0.0	0.9
20	12.3	1.1	0.7	0.6	16.1	1.4	6.2	1.5	2.1	2.3	42.3	4.3	5.3	3.5	0.5	2.8	1.5	4.4	18.9	2.3	0.0	1.5	0.8	0.9
21	0.0	0.9	0.0	0.6	33.2	2.6	0.0	1.3	0.0	1.8	0.0	3.4	1.1	3.3	7.7	2.7	0.5	3.9	0.0	1.8	0.0	1.4	0.0	0.9
22	0.0	0.8	0.0	0.6	14.6	3.8	0.0	1.2	0.0	1.5	0.0	2.2	0.0	3.0	12.1	3.2	21.8	4.0	0.0	1.7	0.0	1.3	0.0	0.9
23	0.0	0.8	0.0	0.6	0.0	3.0	0.2	1.1	0.0	1.4	3.7	2.0	0.0	2.8	0.0	2.6	34.4	8.1	0.0	1.6	0.0	1.3	0.0	0.8
24	0.0	0.7	0.0	0.6	0.0	2.1	4.9	1.2	4.7	1.4	10.9	2.0	0.0	2.6	0.5	2.2	14.7	11.2	0.0	1.4	5.2	1.4	0.0	0.8
25	4.1	0.8	13.7	0.9	0.0	1.7	9.4	1.4	19.3	2.3	58.7	8.2	0.0	2.4	6.3	2.7	10.8	8.0	0.0	1.4	23.6	2.8	0.0	0.8
26	4.4	0.9	0.0	0.7	0.0	1.5	0.0	1.1	0.0	1.7	20.9	13.9	0.0	2.3	0.0	2.1	0.0	6.1	0.0	1.4	0.6	1.9	0.0	0.8
27	0.0	0.8	29.5	1.6	9.2	1.7	0.0	1.1	34.2	2.2	31.6	7.9	0.6	2.1	3.6	2.0	0.0	5.1	0.0	1.3	0.0	1.6	0.0	0.8
28	0.0	0.7	0.5	1.7	2.3	1.5	0.0	1.1	3.9	4.7	50.1	30.0	17.3	2.6	1.0	2.0	0.0	4.5	22.4	2.2	0.0	1.5	0.0	0.8
29	0.0	0.7			0.0	1.3	0.0	1.0	0.0	2.8	0.2	10.3	56.9	8.4	0.0	1.8	0.0	4.0	0.0	1.6	0.0	1.4	0.0	0.8
30	0.0	0.7			0.0	1.2	0.0	1.0	0.0	2.3	240.4	111.0	0.0	4.9	0.0	1.6	0.0	3.6	0.0	1.4	0.0	1.4	0.0	0.8
31	0.0	0.7			17.5	1.5			0.0	1.9			0.6	3.6	0.0	1.5			0.0	1.3			0.0	0.7
total	39.9	24.8	74.2	21.2	131.1	39.0	95.2	41.2	232.2	87.7	530.4	222.7	179.5	212.1	164.5	82.0	343.0	160.2	73.1	64.1	137.0	57.2	4.3	30.4