

5. Results

Chlorides (R = 0.825)

Yearly

Tons	1990	1991	1992	1993	1994	1995	1996	1997	Average
Total	29040	21375	28754	20712	19540	20042	43239	27967	26334
Baseflow	7164	6808	8756	7225	7326	6684	10520	7849	7792
Interflow	13797	8272	11659	9264	7107	9005	17859	13050	11252
Peaks	8079	6292	8335	4223	5108	4352	14860	7071	7290

Monthly

	Loads, tons				Percentage, %			
	Total	Baseflow	Interflow	Peaks	Total	Baseflow	Interflow	Peaks
Jan	4134	794	1840	1501	15.7	19.2	44.5	36.3
Feb	3569	737	1801	1030	13.6	20.7	50.5	28.9
Mar	4946	1038	2682	1226	18.8	21.0	54.2	24.8
Apr	1997	1029	671	297	7.6	51.5	33.6	14.9
May	1680	616	496	569	6.4	36.7	29.5	33.8
Jun	705	430	219	56	2.7	60.9	31.1	8.0
Jul	651	389	145	117	2.5	59.7	22.3	18.0
Aug	777	402	222	153	2.9	51.7	28.6	19.7
Sep	694	393	179	122	2.6	56.5	25.8	17.6
Oct	848	452	258	138	3.2	53.3	30.4	16.3
Nov	2321	670	968	683	8.8	28.9	41.7	29.4
Dec	4013	844	1771	1398	15.2	21.0	44.1	34.8
Year	26334	7792	11252	7290	100	29.6	42.7	27.7

Daily

Concentrations, g/m3						Loads, tons					
Minimal		Maximal				Minimal		Maximal			
base	Total	base	Inter	Peaks	Total	base	Total	base	Inter	Peaks	Total
190	23	582	2527	3520	2348	4.6	4.6	1236	649	1221	1504
Apr-96	Apr-92	Dec-97	Nov-92	Mar-93	Dec-91	Oct-95	Oct-95	Jan-95	Nov-95	Nov-95	Nov-95

Total year amount of chlorides amounts to **20 000- 45 000 tons**: highest amount in 1996;

~ 43% brought by interflow, 30% - by base- and 27% by storm flow;

Minimal daily load varies from 4.6 to 1504 tons per day.

Mercury (R = 0.551)

Yearly

Kilograms	1990	1991	1992	1993	1994	1995	1996	1997	Average
Total	2.25	2.27	3.83	2.29	1.51	2.88	4.27	2.21	2.69
Baseflow	0.71	0.69	0.96	0.75	0.76	0.66	1.22	0.83	0.82
Interflow	0.23	0.17	0.26	0.25	0.13	0.21	0.29	0.20	0.22
Peaks	1.31	1.41	2.61	1.29	0.61	2.01	2.75	1.18	1.65

Monthly

	Loads, kg				Percentage, %			
	Total	Baseflow	Interflow	Peaks	Total	Baseflow	Interflow	Peaks
Jan	0.330	0.067	0.023	0.241	12.3	20.2	7.0	72.8
Feb	0.221	0.061	0.020	0.141	8.2	27.6	8.9	63.6
Mar	0.321	0.115	0.044	0.162	11.9	35.8	13.6	50.5
Apr	0.366	0.144	0.023	0.199	13.6	39.3	6.2	54.5
May	0.240	0.068	0.013	0.160	8.9	28.3	5.2	66.5
Jun	0.105	0.046	0.014	0.045	3.9	44.0	13.0	43.1
Jul	0.173	0.040	0.011	0.122	6.4	23.0	6.4	70.6
Aug	0.182	0.042	0.015	0.126	6.8	22.9	8.1	69.0
Sep	0.165	0.042	0.011	0.113	6.1	25.2	6.6	68.2
Oct	0.140	0.050	0.015	0.076	5.2	35.3	10.4	54.2
Nov	0.226	0.068	0.017	0.142	8.4	29.8	7.6	62.6
Dec	0.218	0.081	0.015	0.122	8.1	37.3	6.8	55.9
Year	2.688	0.822	0.219	1.648	100	30.6	8.1	61.3

Daily

Concentrations, mg/m3						Loads, g					
Minimal		Maximal				Minimal		Maximal			
base	Total	base	Inter	Peaks	Total	base	Total	base	Inter	Peaks	Total
0.020	0.014	0.041	0.038	0.136	0.125	0.395	0.395	15.3	27.3	495	502
Dec-97	Jul-90	Apr-96	Mar-93	Jan-95	Jan-95	Dec-97	Dec-97	Apr-96	Mar-93	Jan-95	Jan-95

Total year amount of mercury amounts to **1.5 – 4.3 kg**: highest amount in 1996;

~ 8% brought by interflow, 31% - by base- and 61% by storm flow;

Minimal daily load is 0.4 g, maximal – 502 g.