

## Appendix 2

**Table I: Monthly total rainfall (mm) at Chauldhoaghat (1992-96)**

Year	Jan	Feb	March	April	May	Jun	July	Aug	Sept	Oct	Nov	Dec
1992	24.9	133.9	89.2	71.2	247.7	770.7	935.6	1269.6	-	-	-	6.6
1993	115.2	93.0	104.1	97.8	382.9	799.0	525.9	1167.1	525.6	218.9	16.6	2.0
1994	27.7	85.7	152.5	181.3	613.0	758.8	501.6	674.1	717.7	289.0	22.4	13.8
1995	52.7	63.3	7.2	81.7	635.4	908.1	889.8	505.5	444.5	105.2	39.2	27.4
1996	29.1	34.2	71.4	153.6	785.6	620.2	882.4	515.0	280.6	213.2	60.2	0.0

(Source: India Meteorological Department, 2012)

**Table II: Monthly total rainfall (mm) at North-Lakhimpur (1992-96)**

Year	Jan	Feb	March	April	May	Jun	July	Aug	Sept	Oct	Nov	Dec
1992	53.4	122.9	81.2	132.2	244.2	430.8	513.0	568.0	145.2	106.6	7.0	0.2
1993	115.7	98.4	95.7	115.6	372.0	657.6	507.9	1031.4	374.8	173.0	9.3	5.9
1994	21.8	71.8	194.3	234.8	582.9	818.5	462.7	391.5	394.4	166.8	0.9	0.9
1995	34.2	75.0	36.5	106.4	504.3	727.6	602.1	472.9	393.4	173.2	34.0	40.4
1996	33.1	48.0	36.5	153.6	694.8	419.8	572.8	372.1	205.2	471.5	15.9	0.0

(Source: India Meteorological Department, 2012)

**Table III: Monthly total rainfall (mm) at Rudraprayag from 2004-2007**

<b>year</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
Jan	34	79.2	10.9	27
Feb	11.7	98.4	4.3	144.7
Mar	71.3	53.7	60.8	110.7
Apr	46	8.8	85.1	63.7
May	99.6	127	230	47.8
Jun	317	205	71.5	172
Jul	455.2	470.1	408	408
Aug	107.6	56.3	286.1	286.1
Sep	117	222	264	-
Oct	5.8	16	6.4	-
Nov	8.5	18	6	-
Dec	-	5	49	-

(Source: Ministry of Water Resources, Govt. of India, 2007)

**Table IV: Monthly total rainfall (mm) at Joshimath from 2004-2007**

<b>Year</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
Jan	25.8	117	49.6	22.1
Feb	17.6	155.1	52.4	203.7
Mar	-	123.1	284.9	234.5
Apr	46	26	138	110
May	59.5	49.6	32	53.9
Jun	77.6	52.4	104	113
Jul	392.1	284.9	56.5	184.9
Aug	345.4	343.4	75.6	223.5
Sep	100	117	345	-
Oct	71	155	100	-
Nov	1	123	71	-
Dec	22	26	1	-

(Source: Ministry of Water Resources, Govt. of India, 2007)

**Table V: Annual Rainfall (mm) in the Subansiri and the Alaknanda basins  
from 1980-2002**

<b>Year</b>	<b>Lower Subansiri</b>	<b>Upper Subansiri</b>	<b>Chamoli</b>	<b>Rudraprayag</b>	<b>Tehri Garhwal</b>
1980	1976.988	1790.487	1599.568	1572.532	1581.581
1981	1928.175	1791.809	999.836	974.844	970.01
1982	1445.845	1212.226	890.421	847.84	832.669
1983	1750.349	1449.276	1418.728	1379.991	1229.583
1984	1729.456	1460.624	1040.706	1083.246	1025.432
1985	1828.997	1654.613	1466.98	1450.244	1260.139
1986	1793.265	1669.37	1253.746	1244.367	1157.699
1987	1789.07	1626.766	615.782	579.609	512.027
1988	2115.005	1755.732	1330.911	1300.336	1208.398
1989	1680.329	1354.837	903.671	883.787	866.13
1990	2126.556	1911.23	1310.057	1309.399	1236.516
1991	2333.89	2067.781	664.506	730.745	725.318
1992	1827.863	1525.439	902.998	907.872	862.254
1993	1866.298	1600.191	994.334	987.414	942.52
1994	1660.508	1464.688	938.876	944.719	905.617
1995	2191.142	1863.51	1331.763	1308.631	1218.218
1996	1789.531	1541.661	1283.235	1368.081	1300.851
1997	1572.174	1402.916	769.89	770.699	808.7
1998	2084.985	1930.226	1098.382	1069.661	969.36
1999	1874.944	1651.95	710.262	726.301	664.378
2000	1914.392	1715.168	917.473	890.642	842.272
2001	1867.421	1673.845	680.734	679.501	621.091
2002	2006.204	1821.524	980.388	978.592	821.214

(Source: Compiled from CWC report, 2013 and [http://www.indiawaterportal.org/met\\_data/](http://www.indiawaterportal.org/met_data/))

**Table VI: Monthly total rainfall (mm) at North-Lakhimpur from 2007-2009**

<b>year</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
Jan	13.3	56.2	32.6
Feb	79.3	49.4	23.8
Mar	47.1	109.6	24.6
Apr	314.5	22.4	180.9
May	406.5	259.8	296.1
Jun	853.8	762.4	446.3
Jul	748.6	478.1	523
Aug	535.3	619.2	834.6
Sep	492.4	308.6	150.1
Oct	113.2	109.6	188.4
Nov	17.5	0	37.6
Dec	17.5	0	14

(Source: India Meteorological Department, 2010)

**Table VII: (a) Mean Monthly Maximum and (b) Mean Monthly Minimum temperature at North-Lakhimpur (in deg. celcius) from 1992-19996**

**(a)**

<b>Year</b>	<b>Jan.</b>	<b>Feb.</b>	<b>Mar.</b>	<b>Apr.</b>	<b>May.</b>	<b>Jun.</b>	<b>Jul.</b>	<b>Aug.</b>	<b>Sep.</b>	<b>Oct.</b>	<b>Nov.</b>	<b>Dec.</b>
1992	23.1	20.1	24.3	27.7	29.0	31.0	31.0	31.8	29.4	29.3	27.7	24.0
1993	25.7	24.2	26.0	29.1	28.7	29.2	30.5	30.8	31.3	29.6	28.2	26.6
1994	25.2	24.1	24.4	27.5	31.0	31.1	33.2	33.2	32.4	28.4	27.7	24.0
1995	22.6	23.3	26.2	28.8	29.4	30.9	30.5	32.2	30.7	30.9	28.5	24.0
1996	22.2	25.8	26.1	28.9	28.0	31.5	29.6	32.3	31.9	30.5	28.7	27.0

(Source: India Meteorological Department, 2012)

**(b)**

<b>Year</b>	<b>Jan.</b>	<b>Feb.</b>	<b>Mar.</b>	<b>Apr.</b>	<b>May.</b>	<b>Jun.</b>	<b>Jul.</b>	<b>Aug.</b>	<b>Sep.</b>	<b>Oct.</b>	<b>Nov.</b>	<b>Dec.</b>
1992	8.2	11.6	24.1	19.2	21.4	23.8	24.2	24.2	20.0	19.5	15.5	7.2
1993	10.2	12.4	14.8	18.9	22.0	21.9	24.7	24.5	24.0	20.3	15.4	9.7
1994	9.0	11.7	16.2	18.6	22.1	24.3	25.0	25.6	24.4	20.5	15.0	8.8
1995	8.4	12.3	16.3	18.2	22.5	24.4	24.4	24.7	24.0	20.7	16.2	12.4
1996	9.9	12.3	16.1	19.2	21.6	24.0	24.3	24.9	24.3	20.8	16.4	9.6

(Source: India Meteorological Department, 2012)

**Table VIII: Mean Monthly Temperature (°C) at Rudraprayag 2004-2007**

<b>Year</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>M. Average</b>
Jan	21	20	23	22	21.5
Feb	26	26	29	24	26.25
Mar	34	29	31	29	30.75
Apr	36	37	36	37	36.5
May	42	39	37	38	39
Jun	37	42	41	38	39.5
Jul	39	37	37	36	37.25
Aug	35	37	34	36	35.5
Sep	26	36	34	-	32
Oct	33	32	33	-	32.67
Nov	24	26	25	-	25
Dec	21	21	23	-	21.67

(Source: Ministry of Water Resources, Govt. of India, 2007)

**Table IX: Mean Monthly Temperature (°C) at Joshimath 2004-2007**

<b>Year</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>M. Average</b>
Jan	8.5	8.6	13	10	10.03
Feb	15	17.5	20.5	18	17.75
Mar	27	20.4	22.5	24	23.47
Apr	28	26	25	29	27
May	35	29	29	28	30.25
Jun	39	26.9	29	28.5	30.85
Jul	33	38	28.5	31	32.63
Aug	27.5	30	31	28	29.13
Sep	28	30	26	-	28
Oct	29	30	25	-	28
Nov	15.5	18.5	25	-	19.67
Dec	11.5	13.5	16.5	-	13.83

(Source: Ministry of Water Resources, Govt. of India, 2007)



## Appendix 2

**Table X: Daily Discharge (cumec) values in Chauldhoaghat  
(a) 1992**

Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
339.022	431.649	406	1134.616	909.836	3924.193	6733.793	5460.365	3149.522	1687.554	1339	622.486
340.615	601	322.929	1110.287	1056.097	3005.535	6541.229	4772.355	2916.069	1742.546	1315.433	600.978
328.43	619.475	391.586	859.666	1182	2971.41	5987.319	4579.73	2765.901	1860.83	1261.677	672.385
306.694	531.321	479.921	1003.691	1483.202	2855.188	6755.357	4616.236	2729.311	1971.362	1206.828	729.799
295.29	475.538	542.259	839	1036.215	2674.047	6381.723	4060.55	2793.79	2535.863	1176.055	913.867
282.553	426.655	521.697	833.512	1095.277	2667.496	6029.771	3897.916	3064.702	1952.777	1141.783	909
259.398	382.461	531.469	766.22	2046.829	4216.671	6439.875	3512.614	2827.16	1976.477	1109.912	807.786
255.711	384.179	564	780.37	2513.574	3001.088	7179.451	3301.973	2611.791	1900.891	1079	766.582
261.413	413	555.788	788.31	1761.654	2555.214	5561.007	3318.214	2677.721	1749.396	998.491	766.541
263.01	486.598	572.423	790.439	1689	2189.401	4732.224	3452.948	2649.075	1738.874	978	719.689
253.025	509.566	607.097	886.346	2209.881	2111.036	4077.104	3001.633	2710.337	1677.402	979.301	689.684
262	439.571	682.695	902	1569.315	3145.802	4134.043	2828.148	3081.706	1699.924	935.13	666.247
418.694	428.66	554.484	973.548	1444.119	3730.275	4928.528	2769.271	5429.79	1920.251	889.448	659
379.545	401.666	518.812	1168	1183.224	4203.731	6156.472	2924.929	4643.012	2114.265	863.149	649.368
374	400.91	510	1116	1207.765	3325.1	4192.775	3031	5909.554	3448.074	852	623.855
365.853	391	578.295	1785.899	1740.274	2972.168	4906.71	3063.591	5812.719	2849.605	853.473	600.591
370.792	393.26	556.241	1484	1548.804	2516.247	3960.217	5298.167	4944.6	3013.636	844.828	580.559
407.904	446.256	520.399	1075.187	2005.226	2716.197	4413.101	4736.197	4997.547	2664	838.579	573.786
394	426.142	614	936	4738.727	2816.001	4729.903	3898.503	3775.179	2235.948	828.271	573.586
372.219	406.379	557.287	980.034	4675.731	3500.723	5496.257	3637.719	2488.676	2860.438	816.378	567
351.329	436.104	530.255	862.691	5765.858	8147.549	5296.932	5033.603	1855.239	2409.717	796.013	565.191
366.381	452.316	565	897.103	4323.109	10785.661	4970.437	6313.354	1636.807	2150.806	792	554.099
356.048	472	599.08	1128.714	3608.585	9995.3	5869.665	5373.223	1507.452	2060.798	765.712	537.837
356.301	658.122	692.568	1336.48	3155.951	9205.285	5202.369	6338.082	1458.14	2972.981	737.655	533.94
357.94	622.899	836.597	1784.209	2772.363	10980.193	4478.959	7394.819	1465.152	2614	720.386	531

352	620.809	833.825	1442	2267.631	9874.184	4458.112	7066.281	1451.21	1963.869	670.969	520.398
357.26	448.488	791.393	1500.897	2018.286	8371.827	4776.302	5876.679	1796.226	1724.396	659.468	520
362.5	401.164	781.806	1037.956	2189.985	7121.642	5507.711	5937.191	2783.961	1547.563	643.196	512.409
356.034	430.193	774	985.764	2218.845	5821.408	7084.441	4774.42	1893.32	1412.522	640	512.398
356.915		1526.4	1004.974	2128.407	6098.628	6436.26	3869.806	1711.611	1417.164	638.884	493.964
362.845		1718.468		2688.968		5374.539	3390.974		1373.008		493.554

**(b) 1993**

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
487.401	481.567	544.804	855.355	1492.41	1911.567	9164.97	6203.323	5505.321	6671.041	1969.72	1022.157	
483.366	485.877	535.927	827.758	1424	2207.924	8918.669	7636.857	5614.917	7695.797	1717.42	951.364	
483	468.79	602.524	780.702	1617.324	4573.171	6591.455	6812.207	5367.699	8968.772	1705.069	827.12	
472.738	465.146	593.106	792	3021.779	2977.059	6093.646	7619.51	4999.192	7406.337	1702.599	757.691	
481.301	452.961	566.27	869	3276.291	4440.999	6122.594	3646.945	4724.521	6833.959	1531.788	754	
471.862	490.336	670.442	763.376	2520	6346.836	5406.99	8355.922	4447.374	5094.065	1438.565	773.784	
470.106	484	618	801.478	2306.996	5478.36	4448.142	7720.644	4158.203	5082.561	1433	814.866	
563.748	490.847	652	800.527	2107.589	4325.234	4144.065	7464.225	4501.009	4729.911	1422.475	800.83	
675.02	507.449	672.587	818	2114	4299.655	3691.404	9254.073	4768.603	3399.402	1397.226	805.528	
635	557.067	638.594	1313.444	2286.641	5669.175	3885.232	10524.86	6194.129	3346.206	1407.908	783.794	
563.803	545.57	638.123	990	2286.722	5597.753	3281.629	9087.895	5485.265	3097.721	1329.994	768.28	
588.119	533.432	631.973	970.923	2292.729	4308.153	3396.84	8847.722	6698.491	3175.899	1252.778	765	
855.17	545.56	610.787	954.575	2829.47	3326.091	3458.749	7401.965	5848.698	3357.568	1234	763.43	
769	611	568	1045	2767.514	3149.619	3722.972	7350.584	4791.894	3836.476	1202	775.891	
647.49	583.111	559.364	1429.943	3337.846	3202.503	3489.427	7337	4824.707	5937.497	1194.796	845.475	
599.446	583.113	642.206	1207.173	2231.58	2944.011	3754.761	7109.084	5598.857	5656.974	1173.403	841.342	
582	716.811	707.098	1309.347	2333.256	3112.031	3872.498	6665.646	6107.564	5080	1164.333	788.779	
506.136	640.248	1015.527	1625	3507.008	3425.491	4351.287	6425.917	4379.917	4228.035	1212.75	742.053	
489.953	791.978	841.88	2890.653	4484.753	6071.61	4930.79	6993.466	4224.297	3563.543	1177.47	731	
488.574	846.824	928.465	1686.357	4498.677	8881.42	5583.668	6878.222	8585.807	3722.581	1266.587	709.115	

507.688	773	770	1507.753	4105.457	6117.204	6979.183	7731.038	3630.544	5118.405	1257	728.582
571.622	728.969	860.542	1331.838	3744.603	6357.029	5970.098	9851.418	3134.789	5073	1123.023	775.001
499.119	676.906	911.973	1339.952	2567.667	5610.725	4923.316	8199.86	4276.792	7784.886	1097.953	745.729
487	712.146	839.02	1301.021	2364.742	4688.803	4745.763	7993.361	3903.625	3830	1079.837	687.777
475.352	582.103	797	1317	2218.058	4770.782	4627.553	7893.193	3636.827	3533.264	1061.559	684
463	543.112	820.106	1380.364	2059.115	4859.263	4414.452	7097.655	4050.41	3449	1078.841	681
456.453	532.665	1084.291	1342.268	1775.237	5434.985	4774.954	7038.364	6495.588	3175.213	1049.824	670.728
470.856	526	1232	1325.21	2142.408	4802.684	4557.844	7635.401	7649.78	2991.352	1041	639.053
461.055		1113.976	1321.886	2704.226	5442.628	4577.613	7563.202	6608.046	2787.602	1032	654.322
506.355		892.945	1441.047	2235.22	7866.52	4587.65	7100.578	6836.258	2271.517	1005.149	646.118
506		835.425		2117.174		7145.908	6220.922		2205		686.298

(c) 1994

Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
681.309	474.544	563.685	1286	2083	6376	5227	3108	3361	2637	1514	635.8
678	456.546	602.223	1977.362	1599.129	6398	6175	3163	2956	2834	1444	596.8
665.482	439.27	556.057	3218	1404.858	6361	4300	2845	3578	3321	1391	578.8
703.338	425.317	517.658	3355.842	1391.038	9010	3513	2974	3217	4234	1339	578
661.019	375.992	524.087	2286.763	1437.435	6951	4351	2927	3135	4141	1075	579.7
641.235	386	520	1881.518	1556.061	6535	5240	3256	3687	4311	1033	468.6
631.597	398.141	524	1775.479	4885.954	5051	4405	2903	3704	3947	992.8	462.4
595.265	370.66	543	1526.488	4053	4149	4034	2503	3692	4017	933.4	494.6
589	368.068	651.314	1506.04	3795.822	3401	4059	2666	4545	4022	919	497
589.843	378.658	473.622	1535	2470.721	3320	3439	2395	3846	5580	901.5	492
577.543	398.219	426.274	1514.949	2463.659	3314	3704	3600	3397	4543	853.2	495
565.414	411.162	423.339	1432.244	2354.477	3799	3276	4100	3671	5457	941.8	498
556.226	432	417	1387.202	2261.158	4041	3044	4852	4033	4688	884	502.8
553	426.955	455	1346	1809.15	6004	2874	6378	4128	4130	926.2	495

556.197	400.783	440.45	1289	2037.298	5920	2785	5019	3839	4690	936.3	497.6
577	387.544	567.828	979.816	3165.807	5166	2417	4162	3512	4474	867.2	487.1
701.269	378.738	532.516	998	3067.791	6058	2432	3294	3602	4245	758.5	482
695.281	434.522	639.264	1929.357	2435.503	5507	2316	3031	4658	3952	751	415
607.057	397.387	603.746	2154.461	2202.436	6359	3175	3652	4443	3159	743.9	384.4
482.066	410	606	1813.989	1830.335	6821	2510	3068	4477	2792	727	391.3
478.914	400.748	778.978	1839.187	1813.06	7631	2520	3354	4519	2549	709.7	384.8
474.143	402.425	2507.612	1696.515	1793.868	6543	2788	2948	4443	2445	682.3	379.6
469	548.675	2068.19	1801.813	1889.205	5418	2891	2995	3251	2262	716.7	357.6
431.023	604.975	2557.524	2503	2017.935	6112	3650	4616	3199	2080	702.8	368
417.884	478.649	1105.256	4003.328	2193.107	4768	3642	3965	3272	1935	696.1	380
417	429.683	988.025	3784.568	2677.907	3252	4985	5382	3801	1757	690.7	391.4
419.378	418	1220	3309.971	3585.039	3474	4207	4046	3967	1886	659	394
398.943	458.01	1557	2585.591	4200.975	4172	3316	3916	3191	1862	626.8	396.2
410.392		1869.782	2355.606	7225.565	4245	3769	3541	2946	1554	654.7	410.4
410		1681.648	2145.606	6928.992	5989	4299	3287	2650	1565	626.5	413.4
420.735		1342.96		7003.119		3819	3612		1576		425.2

**(d) 1995**

Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
445	339.7	534.2	1331	1501	2151	8890	3880	-	5567	1076	706.3
465	337.8	693.5	1353	2444	2224	9220	3558	-	5550	1053	711.2
453	332.1	669	1346	2644	2182	8476	3082	-	5526	1039	711
419.8	332.3	646	1245	3274	2782	8331	3162	-	4132	1050	709.8
413.5	332	645	1000	3129	3453	8672	2878	-	3489	1049	726.1
400.9	407.3	644.1	918.2	3092	3147	8222	2892	-	3534	1048	736.3
397.7	460.2	663.6	921.4	2847	3163	8036	2901	-	3284	1048	731.1

397	437.1	739.8	888.2	2589	5352	7978	3059	-	2953	1015	722.3
407.3	399	990.6	887	2307	5257	7966	3297	-	2496	1019	712.6
442.6	383.5	887.5	813.6	2054	4668	6197	3064	-	2098	2650	713
400.3	361.9	947	814	1971	4992	6337	5257	-	2136	1845	726.4
404.7	361	946	815	1890	3942	7012	5077	-	2397	1836	751.6
391.5	360	737	821	1887	5601	6817	5737	-	3698	1591	811.6
430.4	341.3	737.9	818	3282	4229	6138	6312	-	2385	1069	789.1
411	423.5	751.7	816	3315	5016	6793	6308	-	2040	806.1	825.3
391.7	441.4	708.3	815	4609	4467	6597	6283	-	1948	789	1026
377.2	115.2	713	721	3859	4481	7524	5841	-	1908	976.1	1025
387	710.5	718.2	676	3685	4559	6443	5480	-	1980	758	789.8
417.5	704	730	701	3251	6494	6209	6539	-	4244	758	733.4
372.3	695.3	740.1	709.6	4441	6321	5851	4463	-	3080	835.9	660.5
405.9	601.7	840.4	765.6	3619	6626	5794	4307	-	2956	813.2	639.9
410	687.4	1105	1262	4737	6336	5545	4190	-	2949	790.2	627.6
413.2	759.2	962.2	744	4688	6389	5350	4195	-	2966	88.3	657.2
380.4	657.6	992	744.3	4305	4532	5261	3656	-	2711	937.1	660
374.4	627.6	1022	915	3602	5579	4489	3562	-	2292	925	659
368	628	1058	1136	3415	4185	4284	4008	-	1778	725	698.4
360	570	1095	1603	3127	5275	3985	4297	-	1522	704	742.4
335.2	568.6	1439	981.7	2983	8385	3868	4453	-	1484	736	707.2
344		1365	1135	2566	8247	3389	4247	-	1483	695.1	672.2
351.5		1107	1134	2571	8556	3445	4211	-	1320	729	644.6
333.8		1657		2474		4627	3763	-	1160		645

## (e) 1996

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	511.4	468.7	577.5	853.5	1336	3515	8488	4415	3624	4525	1806	812
	487.9	452.8	514.2	934.6	1700	3552	8860	4073	4412	4012	1724	780
	491.2	446.7	507.6	859.2	2125	3907	7376	4407	4582	6787	1722	748.3
	455.8	447	506	759.2	2554	4385	5533	4211	4708	6399	1568	729.36
	449.1	430.4	504.5	787.9	2752	3936	5732	3830	4712	4136	1498	699.7
	447.1	453.3	564.5	812	2947	2516	6268	4064	4911	4730	1405	737.9
	447	440.4	473.9	746.1	5612	4325	5280	4108	4822	5970	1332	731
	411.8	428	522.4	679.3	4324	4058	5769	4309	5172	3814	1233	722
	432.8	435.4	975.6	753.3	3881	3690	5608	4666	4731	3364	1231	711.5
	413.8	423.1	752	1257	5272	2756	4790	4689	3876	4717	1236	735.9
	447.3	412.5	535.1	899.9	4472	2516	3845	4519	3398	3367	1240	690.4
	478.9	402.9	527.6	838.8	4493	2527	13099	5787	3570	3110	1189	661
	486	427.5	593.2	811.5	4493	2014	9428	5926	3332	2745	1164	650
	486	449.6	641.6	833.3	3854	1867	7185	5977	2972	2581	1130	643
	486	441.3	601.2	856.3	2829	2031	6081	5447	2410	2412	1101	664
	429.3	440.1	737.5	874.1	2700	2093	5870	4906	2654	2309	1068	684.1
	458.7	467.1	802	914.5	3073	2580	6171	4771	2324	2295	1053	638.6
	511.2	448	866.3	1203	4677	2117	6792	4643	2217	1893	1037	631.6
	530.3	428.8	1148	1432	4834	1871	6636	4474	2305	1817	998	621
	499	455.9	1018	1226	3878	1897	7232	4389	3080	1698	999	645.7
	495	534	896.7	1227	3580	2062	7458	4282	2118	1697	993	580.6
	478.1	605.3	946.7	1390	2787	3189	6414	4130	2327	1578	889	570
	482.2	647.6	811.3	2757	2664	4150	6247	3142	2634	1521	858	558.7
	444.1	613.1	965.6	3139	2134	4712	5954	2929	3780	1360	885	542.2
	490	599	1117	5607	2005	5214	4800	2519	3096	1325	887	539
	471	585.7	940.5	4067	1875	4783	4142	2510	3166	1383	914	538.8
	471.4	582.3	936.9	4019	3254	7630	3950	2982	3269	1392	885	545.1
	471	598.5	861.2	3998	5199	9437	4949	2719	6301	1401	848	528.8
	474.8	619.4	845.1	3988	5758	7106	5556	2936	5767	1729	845	528
	485.9		854.3	1371	5934	7324	4905	3659	5877	4630	844	526
	494.8		891.9		4091		4274	3544		2261		535

(Source: Brahmaputra Board, Govt. of India, 2010)

**Table XI: Daily Discharge (cumec) values in Dam site**

**(a) 1992**

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
598.28	504.11	541.96	1109.672	1008.64	1063.925	1060.79	1736.294	2284.011	-	999.333	525.112
562.41	623.464	573.44	1080.258	1137.05	790.905	907.25	1779.51	2188.511	-	1015.976	523.65
566.71	563.946	608.44	1029.103	1400.79	766.791	935.15	1466.342	2090.883	-	994.869	556.202
554.79	612.81	631.11	731.656	1363.25	730.05	1011.91	1549.094	1802.21	-	998.371	581.883
503.54	603.9	687.78	697.264	1377.36	660.46	1128.159	2182.929	1792.206	-	972.65	626.86
554.82	656.921	707.31	637.46	1564.85	812.52	1209.76	2379.962	1752.157	-	960.977	541.208
547.09	669.982	689.1	731.805	1558.87	788.822	1321.51	1990.447	1730.766	-	916.132	509.313
539.33	679.715	656.03	743.96	1371.34	733.785	1371.354	2053.44	1683.261	-	914.536	455.69
543.01	702.645	726.91	743.57	1176.91	705.579	1404.708	1986.611	1648.423	-	903.35	509.12
536.42	712.813	736.05	640.88	1258.86	592.791	1029.094	2060.461	1541.628	-	883.324	504.311
536.81	700.871	779.97	695.52	879.87	576.274	842.855	1974.563	1479.583	-	884.921	499.15
567.87	670.835	682.85	656.32	710.57	635.41	841.935	1800.512	1442.83	-	839.231	495.474
581.1	522.266	672.11	679.05	617.45	774.91	807.14	1729.609	1392.162	-	824.698	488.098
569.33	527.001	636.39	688.04	537.38	708.92	981.417	1975.38	1383.707	-	807.37	483.182
589.83	516.848	612.79	704.15	558.96	685.52	954.744	-	1330.06	-	808.762	475.726
577.84	512.791	610.36	718.99	634.65	586.61	897.363	3388.388	1322.818	-	790.204	473.505
573.66	574.447	615.93	708.04	615.93	653.35	879.805	2934.85	1300.583	-	747.328	474.147
573.53	486.219	629.73	717.05	629.73	705.31	930.715	2209.623	1292.962	-	725.2	474.544
580.82	503.195	624.36	709.25	624.36	745.09	958.66	1738.292	1264.196	-	706.038	474.457
519.35	511.414	638.17	1183.81	634.17	809.99	1012.315	1674.479	1246.79	-	685.733	479.256
568.73	528.043	678.97	1229.94	678.97	913.14	1174.953	1894.779	1240.68	-	666.822	466.534
552.07	537.575	699.88	1236.8	699.88	1081.91	1442.304	1848.015	1225.618	-	680.726	463.7
501.22	532.531	683.85	1425.46	683.85	1410.83	1364.639	2239.997	1191.127	-	620.075	459.719
488.06	515.646	809.71	1725.63	809.71	1638.24	1128.993	2140.653	1170.28	-	603.699	456.8
509.15	404.004	788.8	1816.64	788.8	1378.48	1090.55	1707.792	1160.315	-	593.223	444.565

	619.233	710.58	1614.68	710.58	1225.06	1136.235	3469.5	1150.965	-	601.436	446.23
459.84	608.239	711.35	1249.36	711.35	1053.1	929.363	1764.996	1137.619	-	567.026	446.1
545.55	604.319	693.28	1037.87	701.84	999.15	1167	2364.792	1109.903	-	515.026	443.066
531.76	613.35	737.098	884.17	810.7	228.06	1637.77	2100.043	1086.289	-	495.84	437.067
539.83		1283.14	1017.24	695.07	981.44	1087.67	2302.773	1047.646	-	533.769	438.067
544.52		1318.66		671.88		1228.02	2384.113				483.94

**(b) 1993**

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
437.899	437.44	434.684	563.974	949.52	1085.302	1717.808	3651.008	3208.576	3619.825	-	-
436.889	434.867	449.2	554.456	1032.223	1108.159	2706.065	3711.238	3068.673	2849.566	-	-
438.98	439.733	451.301	516.407	1087.952	1298.366	2925.946	3523.994	2558.445	2093.184	-	-
438.812	436.61	455.383	857.298	1151.445	1591.648	2335.715	3598.107	2508.112	1835.016	-	-
455.696	432.919	463.83	553.87	1091.697	1200.86	2291.054	3641.345	2279.784	1414.866	-	-
459.59	432.431	466.516	533.508	1168.268	2195.422	2156.414	3622.82	2639.809	1251.487	-	-
454.931	435.249	449.105	519.945	1228.654	1936.343	1673.296	3756.561	3156.286	1021.576	-	-
469.528	433.251	446.064	468.401	1267.03	2525.969	2293.866	4421.277	3543.13	1142.36	-	-
469.33	401.218	471.455	461.969	1324.925	2428.85	1981.804	4492.316	3306.066	1051.569	-	-
490.412	432.933	455.894	828.03	1420.831	2007.38	1467.448	4856.26	2594.119	984.24	-	-
506.81	440.576	456.482	888.801	1461.922	2114.418	1517.567	3025.35	2379.725	951.266	-	-
452.626	439.219	460.187	818.388	503.261	1830.744	2270.517	4569.335	2853.339	883.721	-	-
520.327	443.883	456.569	886.877	1397.104	-	2310.351	3827.661	2213.258	1005.15	-	-
502.679	459.729	448.522	973.514	1471.555	1292.82	2267.836	3786.877	2417.057	1174.953	-	-
505.73	468.248	462.155	937.991	1414.736	1240.632	2065.675	-	2394.32	1110.436	-	-
460.338	458.836	474.319	910.193	1202.936	1114.788	2041.384	3914.78	2636.106	1016.278	-	-
451.305	446.167	509.296	940.19	1203.328	977.096	1987.217	3553.865	2663.574	974.143	-	-
451.704	443.36	520.456	1070.229	1138.416	1052.116	1931.287	3291.89	2377.143	817.137	-	-



441.487	468.038	538.876	1140.275	1207.385	1192.403	2428.125	3128.177	1776.27	870.47	-	-
441.732	476.53	535.348	1007.161	1224.642	1282.248	2604.998	3626.958	1555.529	859.955	-	-
441.412	441.563	548.389	632.946	1360.75	1232.186	2730.154	3702.181	1426.72	829.369	-	-
443.753	444.049	610.582	563.558	1462.592	1310.99	3397.774	3891.741	1668.45	797.919	-	-
441.133	439.613	670.661	549.83	1372.012	1296.918	3506.487	3670.019	1945.69	736.954	-	-
440.745	478.392	669.826	549.31	1207.763	1410.058	3466.151	3058.93	1718.807	715.114	-	-
450.609	461.877	652.592	539.213	1149.938	1367.92	3116.056	3558.15	2055.779	701.361	-	-
446.267	456.747	675.612	535.979	1189.493	1460.007	3561.226	2838.412	2772.295	676.935	-	-
440.149	439.644	756.627	529.587	1262.287	1352.826	3299.546	2851.79	2932.448	697.846	-	-
442.37	430.886	832.958	555.53	1280.451	1363.966	3354.85	3675.95	3087.896	664.667	-	-
437.918		612.34	565.673	1240.184	1489.025	3774.618	3713.777	3098.079	644.173	-	-
437.118		653.51	589.042	1154.321	1547.287	3701.553	2903.418	3018.985	620.838	-	-
436.878		556.529			1530.855	4357.212	2801.285		613.098	-	-

(c) 1994

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
448.728	448.441	469.167	602.054	1414.055	3174.774	1604.49	949.835	929.239	716.735	1125.809	819.964
454.741	442.903	483.031	636.021	1233.82	3133.861	1253.028	931.838	938.294	718.638	1127.322	792.824
445.596	433.55	492.563	665.048	1352.842	3375.206	2249.741	892.823	813.111	813.845	1118.039	774.143
449.105	440.424	480.31	634.045	1420.732	4176.866	3018.456	958.252	891.374	981.917	1116.432	751.944
448.089	429.469	481.005	668.774	1931.661	3641.306	3230.027	935.579	905.983	911.601	1115.16	631.094
450.046	426.132	493.504	669.855	1770.292	2260.642	4994.32	1002.694	832.359	1073.077	1095.261	602.167
451.071	420.95	491.482	695.134	1712.628	2019.571	3360	938.122	908.65	789.929	1092.683	606.632
450.321	424.765	480.755	761.69	1677.066	1889.569	2973.28	1012.261	948.248	768.529	745.128	533.722
449.896	440.776	491.173	781.477	1578.128	1829.51	2247.487	966.139	983.287	1303.71	744.426	560.719
451.631	442.056	487.997	768.191	1414.197	1779.384	1881.053	1018.579	1058.309	1005.223	748.515	545.242
449.904	449.523	484.378	751.512	1452.951	1651.925	1476.724	1008.316	1194.814	1016.232	745.755	525.85
454.774	457.257	494.221	787.264	1260.303	1575.55	1947.609	1003.534	1080.723	1003.6	750.925	517.702

452.115	468.616	497.517	720.034	1215.887	1518.933	1893.021	967.115	1012.241	902.519	761.393	515.863
455.792	472.327	496.269	755.368	1092.703	1464.156	1499.564	930.892	923.987	940.057	748.611	508.389
447.283	476.114	497.627	754.672	1064.717	1384.932	1287.601		888.691	894.573	754.298	495.428
492.499	473.167	494.773	805.102	1112.255	1553.748	1037.176	1251.477	949.636	895.283	752.811	495.594
453.141	464.466	511.166	1003.876	1160.234	1694.735	1006.157	1231.02	898.327	964.923	743.444	512.755
462.862	469.5	527.044	1099.598	1226.821	2018.399	1090.476	1204.705	1023.824	1062.838	767.826	497.805
456.711	474.187	536.388	1039.752	1353.478	2185.533	1129.286	1262.584	935.928	1109.561	723.629	484.02
447.769	475.111	622.866	997.006	1420.079	3022.425	982.68	941.596	947.889	1069.686	719.134	646.162
424.071	472.542	569.667	1099.973	1426.4	2628.416	1037.566	928.134	934.801	1004.733	716.666	651.221
432.873	468.682	583.626	1193.52	1568.752	2800.141	1111.138	943.868	900.24	908.877	708.653	641.176
427.258	469.343	591.232	1077.68	1630.509	2604.293	1342.142	973.879	803.416	889.616	699.786	633.887
464.345	464.369	587.644	1038.602	1826.687	2093.78	1348.46	1310.602	785.232	898.726	688.25	635.418
450.167	469.51	584.787	1112.664	2083.954	2065.258	1655.01	960.86	760.83	936.389	676.702	633.892
459.536	472.097	598.09	1243.971	2222.713	1912.135	1999.638	960.627	744.469	1040.794	772.26	632.006
459.64	484.279	610.953	1199.855	2437.425	1762.83	1694.956	959.601	731.387	1057.74	822.063	626.539
464.722	475.749	614.694	1171.802	2682.816	1677.58	1529.291	999.805	709.715	1069.984	883.653	623.861
463.291		619.217	1091.603	2667.309	1637.693	1328.879	987.348	710.064	1061.938	275.666	630.732
463.629		633.802		2643.458	1484.556	1049.114	951.168	709.508	990.86	866.274	637.514
453.852		629.669		3108.53		1457.737	938.369		914.76		

**(d) 1995**

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
642.5	589.893	800.778	-	1710.717	1743.085	3526.056	1271.62	1343.42	2014.427	864.698	640.273
662.127	579.419	636.274	-	1732.516	2951.323	2111.817	1224.801	1323.924	1567.374	847.569	640.56
659.651	579.638	589.935	-	1827.608	2241.271	1987.89	1239.398	1368.729	1289.98	858.091	641.22
651.75	581.363	601.126	-	1708.033	2078.184	1826.352	1277.163	1339.723	1196.569	867.753	639.788
641.834	583.822	613.125	-	1591.004	1832.895	1774.752	1255.535	1347.086	1165.631	859.64	635.57
631.551	621.22	611.657	-	1838.011	1922.389	1790.854	1236.486	1388.864	1272.71	843.887	638.27

622.291	619.301	612.085	-	1542.921	2545.812	1737.378	1199.478	1393.033	1231.846	891.144	638.52
613.711	613.729	637.487	-	1518.833	2056.24	1654.667	1445.066	1548.516	1149.272	828.071	636.62
601.099	617.269	901.507	-	1447.941	2302.354	1718.607	1476.726	1472.484	1184.161	841.233	636.635
598.03	609.662	791.847	-	1426.787	2506.555	1565.088	1638.06	1546.67	1216.434	846.793	633.57
606.998	602.009	688.923	-	1384.275	2657.303	1560.65	1569.639	1581.352	1293.787	935.188	637.22
602.124	591.849	687.31	-	1399.098	2135.46	1690.33	1645.087	1535.539	1224.981	859.219	637.285
595.485	605.08	681.587	-	1426.878	3136.174	1606.732	2251.049	1486.745	1360.755	995.529	635.88
592.014	629.061	685.537	-	1438.94	3413.781	1548.604	1691.628	1540.944	1129.081	965.648	639.52
600.521	641.689	799.738	-	1585.102	3114.705	1579.953		1522.574	1066.284	914.548	638.53
579.136	754.7	827.488	-	1614.764	2991.735	1447.068	1431.875	1364.258	1038.867	920.719	420.955
484.612	932.848	875.165	-	1548.793	2779.843	1423.753	1465.071	1391.655	1284.167	911.674	680.95
591.347	948.601	901.618	-	1663.65	2909.918	3638.818	1511.324	1375.685	1355.749	897.853	690.72
603.775	911.715	899.637	-	1524.528	2734.983	4198.857	1501.421	1537.489	1244.946	928.43	638.57
599.545	858.003	902.757	-	1528.408	2252.124	4039.51	1225.515	1591.34	1205.208	911.889	639.79
575.536	670.519	756.621	-	1546.154	2484.563	4162.467	1260.267	1586.854	1190.018	924.852	633.8
603.396	717.468	786.035	-	1679.549	2937.79	3737.352	1269.318	2030.136	1301.834	903.997	925.08
623.861	735.181	720.067	-	1669.622	3213.931	3739.23	2165.22	1444.552	1114.36	916.959	930.105
633.371	714.939	707.546	-	1593.057	2892.593	2555.844	1413.363	1556.204	1071.063	907.767	1102.5
606.449	709.496	722.08	-	1587.577	3135.04	2532.32	1258.399	1484.727	1044.707	882.575	1025.7
557.592	692.101	819.048	-	1562.043	2801.45	2495.954	1324.488	1557.314	1028.332	880.902	850.95
579.256	635.212	854.658	-	1537.452	2027.026	2382.977	1611.932	1648.214	889.308	885.123	870.52
585.691	634.503	1011.064	-	1529.537	1642.059	2226.733	1506.347	1914.309	877.462	870.892	841.233
568.646		1064.678	-	1563.924	2685.716	2110.551	1729.789	1655.849	861.807	882.272	800.445
584.441		1362.497	-	1549.954	3073.651	3050.9	1637.138	1419.582	841.565	664.645	850.022
482.309		1146.311	-	1605.889		1792.064	1210.813		848.084		911.9
576.224		800.778									

## (e) 1996

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep;	Oct	Nov	Dec
690.75	498.25	777.32	672.275	801.103	2149.302	3846.498	2590.839	2573.117	1679.213	-	511.071
685.837	498.01	768.04	646.197	908.851	2428.549	3876.549	2532.795	2167.424	1602.645	-	500.527
684.9	497.225	764.56	660.685	928.229	2482.741	4496.269	2626.467	1950.067	1578.687	-	494.966
684.32	497.55	762.24	633.497	958.101	2760.707	4744.891	2739.903	2105.533	1637.05	-	487.879
685.45	493.22	759.92	624.862	1102.118	2569.462	4154.605	2239.537	2162.642	1583.804	-	512.376
683.25	493.23	759.92	595.07	1288.3	2441.372	4514.907	3052.624	2244.039	1670.69	-	520.511
681.55	494.52	761.08	625.503	1654.685	3048.276	4118.163	2568.185	2057.245	1482.113	-	517.208
630.575	493.222	779.64	621.212	1540.676	3342.611	4157.071	2722.03	1997.961	1730.555	-	506.461
610.357	495.82	831.84	652.925	1282.854	2278.447	4370.221	2714.999	1920.948	1343.323	-	509.586
580.225	494.332	778.48	638.519	1419.649	2077.123	4735.848	2842.422	1992.44	1513.855	-	520.882
580.5	528.27	769.2	633.101	1281.554	1891.517	5964.419	2874.904	1816.836	1210.262	-	516.816
581.25	498.075	757.6	597.263	1834.679	1926.99	6728.311	3061.536	1762.728	1162.67	-	519.745
582.02	493.53	769.18	587.599	1461.576	1857.036	6400.107	2790.289	1827.595	1152.236	-	523.704
580.79	495.202	776.14	604.41	2312.71	1971.017	5768.914	2856.579	1708.157	1091.889	-	501.93
684.66	497.335	781.94	602.935	2068.465	1783.61	5680.748		1656.106	1070.545	-	506.577
683.844	493.25	798.18	638.125	2022.34	1707.205	5513.502	2933.106	1602.386	1033.342	-	505.86
681.3	495.99	841.2	727.635	2337.696	1941.135	4832.878	2916.802	1587.012	996.905	-	495.472
681.65	493.75	845.84	743.171	2519.133	1679.56	3770.424	2868.046	1537.129	914.686	-	487.83
680.765	497.255	869.04	773.938	2972.304	1486.011	4310.084	2921.082	1568.838	889.259	-	483.167
684.625	499	869.04	811.042	2588.046	1975.038	4701.349	2440.035	1580.197	770.165	-	480.297
682.675	440.589	851.64	789.997	2446.278	1892.476	4509.176	2745.964	1459.081	765.351	-	466.059
587.9	533.9	807.56	797.572	1979.434	2042.861	5426.408	2690.152	1530.332	745.694	-	466.302
600.52	698.05	836.56	778.911	2373.017	2285.98	4036.749	2488.04	1596.564	688.433	-	470.73
593.733	539.4	819.3	829.008	2202.426	2420.199	2537.07	2551.239	1574.138	705.572	-	465.24
597.87	650.4	844	790.805	1998.371	3659.809	3709.854	2518.294	1560.279	713.893	-	465.815
550.43	497.07	797.6	806.911	1911.664	3406.069	3019.491	2373.32	1662.852	708.658	-	459.941

545.49	495.855	803.4	612.734	2965.381	2974.533	3248.398	2373.427	1597.151	709.202	-	458.074
542.225	535.35	797.6	641.696	4416.968	4715.179	3724.234	2163.36	1769.978	713.063	-	456.821
531.13	539.355	780.2	534.015	3712.546	4118.534	3293.531	2239.157	1751.639	869.962	-	439.95
570.32		669.78	640.961	3634.455	4311.56	2775.421	2678.117	1738.022	1512.038	-	451.451
578.52		667.36		3190.837		3048.55	2610.655		988.68		448.464

(Source: Brahmaputra Board, Govt. of India, 2010)

**Table XII: Mean, Maximum and Minimum flows (cumec) of the Alaknanda at Rudraprayag**

	Mean	Max	Min	ALF	MLSF	MLSF AS	MLSF AS
year	Annual (MAF)	Annual (MxAF)	Annual (MiAF)			% OF AMF	% OF MAF
1971-72	301.41	968.52	70.35	70.35	78.95	26.19	23.09
1972-73	331.53	1096.89	76.19	76.19	92.34	27.85	27
1973-74	399.14	1343.73	72.65	72.65	93.09	23.32	27.22
1974-75	280.57	1275.74	73.25	73.25	85.84	30.6	25.1
1975-76	329.17	1010.9	77.29	77.29	87.69	26.64	25.64
1976-77	264.84	1010.21	52.78	52.78	69.59	26.28	20.35
1977-78	317.51	1038.48	77.03	77.03	104.68	32.97	30.61
1978-79	326.33	1335.2	61.91	61.91	90.09	27.61	26.34
1979-80	286.34	1235.25	57.78	57.78	70.97	24.79	20.75
1980-81	330.56	1253.36	95.68	95.68	102.99	31.16	30.12
1981-82	331.35	1334.64	73.43	73.43	92.18	27.82	26.95
1982-83	303.49	1082.91	75.16	75.16	86.35	28.45	25.25
1983-84	300.89	1252.63	73.05	73.05	86.02	28.59	25.15
1984-85	257.68	731.28	64.75	64.75	76.45	29.67	22.36
1985-86	293.28	919.63	72.77	72.77	97.24	33.16	28.44
1986-87	318.61	1366.42	70.63	70.63	81.71	25.65	23.89
1987-88	276.14	1081.39	50.47	50.47	68.02	24.63	19.89
1988-89	326.54	1269.46	73.04	73.04	90.4	27.68	26.43
1989-90	316.51	1669.62	87.96	87.96	98.4	31.09	28.77
1990-91	360.57	1155.37	95.08	95.08	110.39	30.62	32.28
1991-92	366.85	1104.95	91.95	91.95	105.71	28.82	30.91
1992-93	359.18	1215.38	74.52	74.52	95.83	26.68	28.02
1993-94	305.92	1014.85	79	79	86.99	28.44	25.44
1994-95	388.92	1482.39	51.96	51.96	62.13	15.97	18.17
1995-96	365.65	1272.78	56.12	56.12	68.3	18.68	19.97
1996-97	381.29	1470	56.74	56.74	65.18	17.09	19.06
1997-98	343.97	1225.72	82.85	82.85	99	28.78	28.95
1998-99	562.92	1857.86	54.56	54.56	178.3	31.68	52.14
1999-2000	468.14	1674.35	76.22	76.22	94.86	20.26	27.74
2000-01	403.96	1351.74	83.14	83.14	99.57	24.65	29.12
2001-02	397.85	1581.5	70.84	70.84	89.98	22.62	26.31
2002-03	346.2	1017.01	82.39	82.39	100.97	29.17	29.52

(Source: Report on Managed flow regime on river Alaknanda, 2009)

**Table XIII: Mean, Maximum and Minimum flows (cumec) of the Alaknanda at Joshimath**

	<b>Annual Mean</b>	<b>Max</b>	<b>Min</b>	<b>ALF</b>	<b>MLSF</b>	<b>MLSF AS</b>	<b>MLSF AS</b>
<b>year</b>	<b>Flow (AMF)</b>	<b>Annual (MxAF)</b>	<b>Annual (MiAF)</b>			<b>% OF AMF</b>	<b>% OF MAF</b>
1971-72	112.95	259.15	34.73	34.73	40.04	35.45	22.72
1972-73	123.34	297.91	35.11	35.11	45.91	37.23	26.05
1973-74	126.86	298.53	36.33	36.33	45.61	35.96	25.88
1974-75	139.65	391.53	36.99	36.99	42.91	30.73	24.34
1975-76	194.42	577.11	31.91	31.91	40.97	21.07	23.24
1976-77	162.02	573.17	35.25	35.25	43.52	26.86	24.69
1977-78	180.44	603.23	29.98	29.98	36.6	20.28	20.76
1978-79	192.81	598.66	36.84	36.84	45.89	23.8	26.03
1979-80	168.88	564.93	26.62	26.62	31.15	18.44	17.67
1980-81	178.41	666.58	24.06	24.06	28.63	16.05	16.24
1981-82	111.19	415.19	13.35	13.35	16.22	14.59	9.2
1982-83	103.5	399.73	15.9	15.9	18.04	17.43	10.23
1983-84	175.99	623.82	30.99	30.99	35.72	20.3	20.26
1984-85	177.71	497.87	27.22	27.22	31.13	17.52	17.66
1985-86	167.63	472.8	34.19	34.19	38.15	22.76	21.64
1986-87	196.92	697.52	43.45	43.45	47.33	24.03	26.85
1987-88	202.37	635.05	34.39	34.39	45.86	22.66	26.02
1988-89	199.24	709.58	29.88	29.88	38.98	19.56	22.11
1989-90	157.02	539.68	27.25	27.25	31.62	20.14	17.94
1990-91	182.27	517.57	28.98	28.98	36.1	19.81	20.48
1991-92	177.42	533.49	27.25	27.25	38.5	21.7	21.84
1992-93	173.99	431.96	44.3	44.3	52.7	30.29	29.89
1993-94	146.31	425.31	18.83	18.83	23.9	16.34	13.56
1994-95	152.97	544.35	15.92	15.92	18.37	12.01	10.42
1995-96	164.01	531.65	15.21	15.21	21.94	13.38	12.44
1996-97	182.88	626.42	17.7	17.7	22.39	12.24	12.7
1997-98	155.59	568.57	30.57	30.57	35.94	23.1	20.39
1998-99	513.11	1262.2	41.03	41.03	109.98	21.43	62.39
1999-2000	178.35	476.84	47.48	47.48	55.45	31.09	31.46
2000-01	120.39	461.91	8.35	8.35	14.63	12.15	8.3
2001-02	209.48	738.26	25.2	25.2	36.09	17.23	20.47
2002-03	188.04	615.94	49.56	49.56	54.61	29.04	30.98
2003-04	201.15	533.85	41.23	41.23	56.66	28.17	32.14

(Source: Report on Managed flow regime on river Alaknanda, 2009)