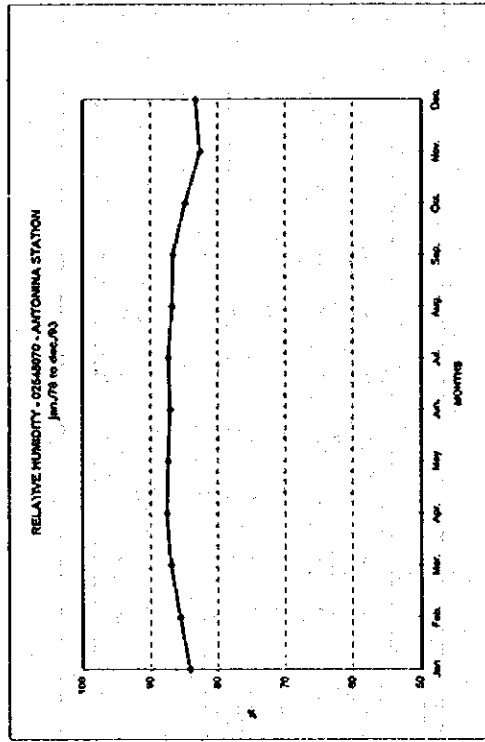


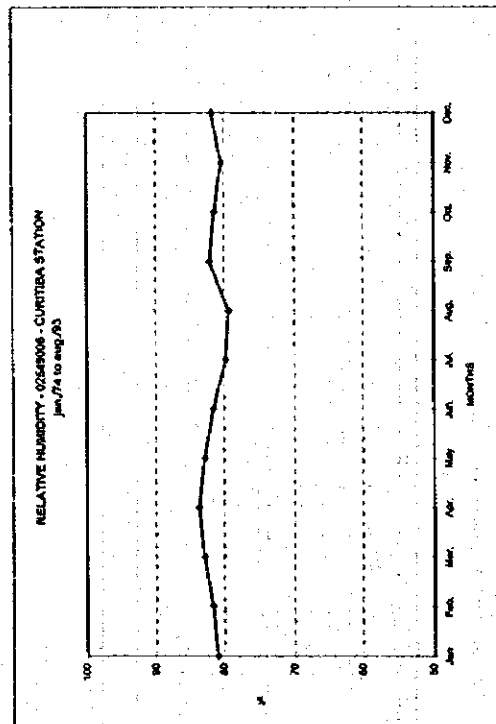
RELATIVE HUMIDITY (%)  
02548070 - ANTONINA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1978	82	84	85	86	87	88	89	90	91	92	93	94	88
1979	84	85	86	87	88	89	90	91	92	93	94	95	89
1980	82	83	84	85	86	87	88	89	90	91	92	93	88
1981	83	84	85	86	87	88	89	90	91	92	93	94	89
1982	84	85	86	87	88	89	90	91	92	93	94	95	90
1983	85	86	87	88	89	90	91	92	93	94	95	96	91
1984	81	82	83	84	85	86	87	88	89	90	91	92	87
1985	83	84	85	86	87	88	89	90	91	92	93	94	88
1986	82	83	84	85	86	87	88	89	90	91	92	93	88
1987	85	86	87	88	89	90	91	92	93	94	95	96	91
1988	84	85	86	87	88	89	90	91	92	93	94	95	90
1989	87	88	89	90	91	92	93	94	95	96	97	98	93
1990	87	88	89	90	91	92	93	94	95	96	97	98	93
1991	85	86	87	88	89	90	91	92	93	94	95	96	91
1992	80	81	82	83	84	85	86	87	88	89	90	91	85
1993	85	86	87	88	89	90	91	92	93	94	95	96	91
Mean	84	85	86	87	88	89	90	91	92	93	94	95	89



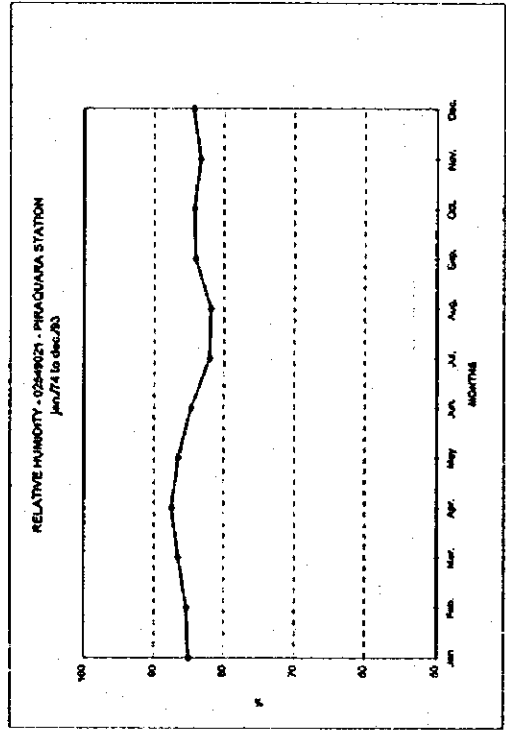
RELATIVE HUMIDITY (%)  
02549008 - CURTIBA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	82	83	84	85	86	87	88	89	90	91	92	93	88
1975	78	79	80	81	82	83	84	85	86	87	88	89	84
1976	82	83	84	85	86	87	88	89	90	91	92	93	88
1977	81	82	83	84	85	86	87	88	89	90	91	92	87
1978	78	79	80	81	82	83	84	85	86	87	88	89	84
1979	81	82	83	84	85	86	87	88	89	90	91	92	87
1980	81	82	83	84	85	86	87	88	89	90	91	92	87
1981	84	85	86	87	88	89	90	91	92	93	94	95	90
1982	81	82	83	84	85	86	87	88	89	90	91	92	87
1983	84	85	86	87	88	89	90	91	92	93	94	95	90
1984	77	78	79	80	81	82	83	84	85	86	87	88	83
1985	81	82	83	84	85	86	87	88	89	90	91	92	87
1986	79	80	81	82	83	84	85	86	87	88	89	90	85
1987	78	79	80	81	82	83	84	85	86	87	88	89	84
1988	76	77	78	79	80	81	82	83	84	85	86	87	82
1989	79	80	81	82	83	84	85	86	87	88	89	90	85
1990	81	82	83	84	85	86	87	88	89	90	91	92	87
1991	81	82	83	84	85	86	87	88	89	90	91	92	87
1992	81	82	83	84	85	86	87	88	89	90	91	92	87
1993	81	82	83	84	85	86	87	88	89	90	91	92	87
Mean	81	82	83	84	85	86	87	88	89	90	91	92	87



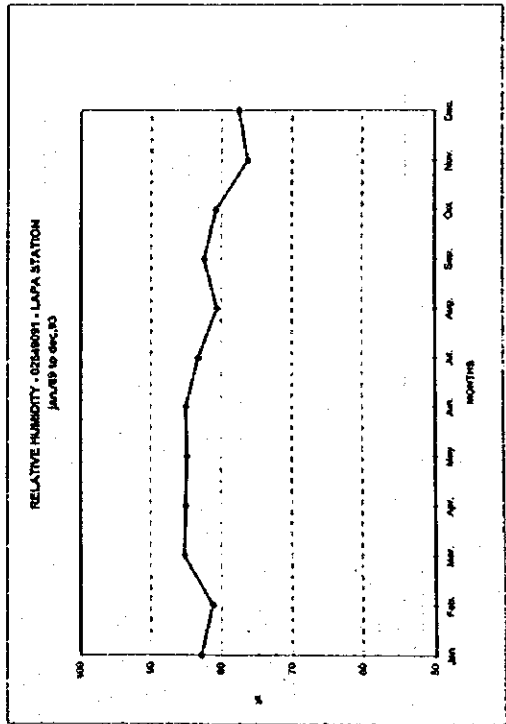
RELATIVE HUMIDITY (%)  
02548001 - PIRAQUARA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	90	90	83	85	95	94	94	92	92	93	92	92	91
1975	92	92	94	93	93	97	90	90	90	90	90	91	92
1976	92	91	91	90	90	90	90	89	88	91	89	90	90
1977	91	88	90	89	89	90	72	78	85	87	88	88	86
1978	91	88	83	87	83	78	82	79	85	90	83	84	81
1979	84	83	95	84	82	82	79	81	84	84	84	86	83
1980	83	87	84	86	85	85	84	85	83	81	84	84	85
1981	86	84	85	85	86	81	77	78	73	87	83	82	80
1982	84	85	86	87	84	87	81	83	82	83	83	86	84
1983	86	87	88	91	92	87	84	76	90	86	79	85	86
1984	80	80	87	87	84	81	79	84	76	90	80	82	83
1985	84	88	87	88	82	79	81	78	83	82	79	78	81
1986	81	83	83	87	88	82	85	81	85	79	81	86	84
1987	83	87	88	88	88	82	77	80	84	85	81	83	83
1988	83	84	84	89	91	89	81	76	79	85	79	83	84
1989	85	87	87	85	88	88	79	81	84	82	79	85	84
1990	79	86	86	82	83	86	81	80	83	88	81	81	83
1991	83	82	87	86	85	84	76	82	83	81	79	78	82
1992	79	83	86	82	87	84	85	88	87	82	84	79	84
1993	87	87	84	86	86	85	79	76	84	84	75	83	83
Mean	85	85	87	88	87	85	87	82	84	84	83	84	85



RELATIVE HUMIDITY (%)  
02548001 - LAPA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1989	81	87	85	86	87	88	88	80	81	79	75	80	84
1990	88	77	85	86	81	84	87	81	80	82	81	76	82
1991	77	78	85	84	83	84	78	79	81	81	76	77	80
1992	76	78	86	83	88	85	87	87	85	82	79	74	83
1993	82	85	86	86	85	84	81	76	87	80	71	81	82
Mean	83	81	86	85	85	85	83	81	82	81	78	78	82

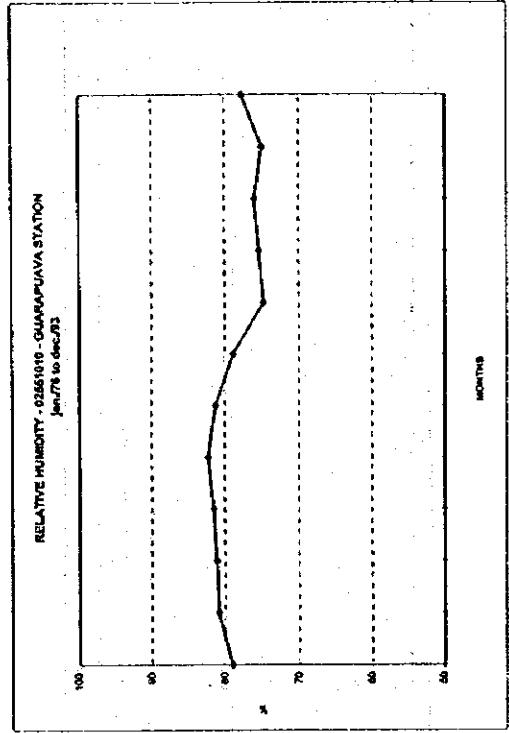


RELATIVE HUMIDITY (%)  
02560024 - PONTA GROSSA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1976	80	78	82	81	79	78	77	76	75	74	73	70	77
1975	79	80	84	81	79	79	81	79	78	76	74	75	80
1974	78	79	78	78	76	76	76	76	76	76	76	73	77
1973	81	79	82	80	78	78	79	80	79	78	74	81	78
1972	79	77	77	77	76	76	76	76	75	75	75	75	77
1971	71	74	75	77	76	76	76	76	76	77	75	75	76
1970	71	74	75	77	76	76	76	76	76	77	75	75	76
1969	77	81	80	80	81	81	75	83	79	74	75	77	78
1968	81	81	80	77	79	79	78	71	69	63	69	72	76
1967	77	81	82	78	76	84	84	77	71	76	83	78	79
1966	80	80	82	84	85	88	89	89	84	84	79	71	81
1965	74	73	79	80	80	80	76	81	88	89	80	77	78
1964	74	73	79	80	80	80	77	81	88	89	80	77	78
1963	75	84	85	84	84	78	77	81	88	89	80	77	78
1962	77	84	82	81	84	85	78	80	78	70	74	82	79
1961	80	83	71	84	85	81	81	75	79	79	79	74	79
1960	76	82	78	85	90	85	85	87	86	85	87	72	77
1959	84	83	80	80	83	85	74	78	76	73	69	76	78
1958	84	83	80	80	83	85	74	78	76	73	69	76	78
1957	85	84	83	82	82	80	83	77	75	77	77	70	78
1956	85	84	83	82	82	80	83	77	75	77	77	70	78
1955	85	84	83	82	82	80	83	77	75	77	77	70	78
1954	85	84	83	82	82	80	83	77	75	77	77	70	78
1953	85	84	83	82	82	80	83	77	75	77	77	70	78
1952	85	84	83	82	82	80	83	77	75	77	77	70	78
1951	85	84	83	82	82	80	83	77	75	77	77	70	78
1950	85	84	83	82	82	80	83	77	75	77	77	70	78
1949	85	84	83	82	82	80	83	77	75	77	77	70	78
1948	85	84	83	82	82	80	83	77	75	77	77	70	78
1947	85	84	83	82	82	80	83	77	75	77	77	70	78
1946	85	84	83	82	82	80	83	77	75	77	77	70	78
1945	85	84	83	82	82	80	83	77	75	77	77	70	78
1944	85	84	83	82	82	80	83	77	75	77	77	70	78
1943	85	84	83	82	82	80	83	77	75	77	77	70	78
1942	85	84	83	82	82	80	83	77	75	77	77	70	78
1941	85	84	83	82	82	80	83	77	75	77	77	70	78
1940	85	84	83	82	82	80	83	77	75	77	77	70	78
1939	85	84	83	82	82	80	83	77	75	77	77	70	78
1938	85	84	83	82	82	80	83	77	75	77	77	70	78
1937	85	84	83	82	82	80	83	77	75	77	77	70	78
1936	85	84	83	82	82	80	83	77	75	77	77	70	78
1935	85	84	83	82	82	80	83	77	75	77	77	70	78
1934	85	84	83	82	82	80	83	77	75	77	77	70	78
1933	85	84	83	82	82	80	83	77	75	77	77	70	78
1932	85	84	83	82	82	80	83	77	75	77	77	70	78
1931	85	84	83	82	82	80	83	77	75	77	77	70	78
1930	85	84	83	82	82	80	83	77	75	77	77	70	78
1929	85	84	83	82	82	80	83	77	75	77	77	70	78
1928	85	84	83	82	82	80	83	77	75	77	77	70	78
1927	85	84	83	82	82	80	83	77	75	77	77	70	78
1926	85	84	83	82	82	80	83	77	75	77	77	70	78
1925	85	84	83	82	82	80	83	77	75	77	77	70	78
1924	85	84	83	82	82	80	83	77	75	77	77	70	78
1923	85	84	83	82	82	80	83	77	75	77	77	70	78
1922	85	84	83	82	82	80	83	77	75	77	77	70	78
1921	85	84	83	82	82	80	83	77	75	77	77	70	78
1920	85	84	83	82	82	80	83	77	75	77	77	70	78
1919	85	84	83	82	82	80	83	77	75	77	77	70	78
1918	85	84	83	82	82	80	83	77	75	77	77	70	78
1917	85	84	83	82	82	80	83	77	75	77	77	70	78
1916	85	84	83	82	82	80	83	77	75	77	77	70	78
1915	85	84	83	82	82	80	83	77	75	77	77	70	78
1914	85	84	83	82	82	80	83	77	75	77	77	70	78
1913	85	84	83	82	82	80	83	77	75	77	77	70	78
1912	85	84	83	82	82	80	83	77	75	77	77	70	78
1911	85	84	83	82	82	80	83	77	75	77	77	70	78
1910	85	84	83	82	82	80	83	77	75	77	77	70	78
1909	85	84	83	82	82	80	83	77	75	77	77	70	78
1908	85	84	83	82	82	80	83	77	75	77	77	70	78
1907	85	84	83	82	82	80	83	77	75	77	77	70	78
1906	85	84	83	82	82	80	83	77	75	77	77	70	78
1905	85	84	83	82	82	80	83	77	75	77	77	70	78
1904	85	84	83	82	82	80	83	77	75	77	77	70	78
1903	85	84	83	82	82	80	83	77	75	77	77	70	78
1902	85	84	83	82	82	80	83	77	75	77	77	70	78
1901	85	84	83	82	82	80	83	77	75	77	77	70	78
1900	85	84	83	82	82	80	83	77	75	77	77	70	78
1899	85	84	83	82	82	80	83	77	75	77	77	70	78
1898	85	84	83	82	82	80	83	77	75	77	77	70	78
1897	85	84	83	82	82	80	83	77	75	77	77	70	78
1896	85	84	83	82	82	80	83	77	75	77	77	70	78
1895	85	84	83	82	82	80	83	77	75	77	77	70	78
1894	85	84	83	82	82	80	83	77	75	77	77	70	78
1893	85	84	83	82	82	80	83	77	75	77	77	70	78
1892	85	84	83	82	82	80	83	77	75	77	77	70	78
1891	85	84	83	82	82	80	83	77	75	77	77	70	78
1890	85	84	83	82	82	80	83	77	75	77	77	70	78
1889	85	84	83	82	82	80	83	77	75	77	77	70	78
1888	85	84	83	82	82	80	83	77	75	77	77	70	78
1887	85	84	83	82	82	80	83	77	75	77	77	70	78
1886	85	84	83	82	82	80	83	77	75	77	77	70	78
1885	85	84	83	82	82	80	83	77	75	77	77	70	78
1884	85	84	83	82	82	80	83	77	75	77	77	70	78
1883	85	84	83	82	82	80	83	77	75	77	77	70	78
1882	85	84	83	82	82	80	83	77	75	77	77	70	78
1881	85	84	83	82	82	80	83	77	75	77	77	70	78
1880	85	84	83	82	82	80	83	77	75	77	77	70	78
1879	85	84	83	82	82	80	83	77	75	77	77	70	78
1878	85	84	83	82	82	80	83	77	75	77	77	70	78
1877	85	84	83	82	82	80	83	77	75	77	77	70	78
1876	85	84	83	82	82	80	83	77	75	77	77	70	78
1875	85	84	83	82	82	80	83	77	75	77	77	70	78
1874	85	84	83	82	82	80	83	77	75	77	77	70	78
1873	85	84	83	82	82	80	83	77	75	77	77	70	78
1872	85	84	83	82	82	80	83	77	75	77	77	70	78
1871	85	84	83	82	82	80	83	77	75	77	77	70	78
1870	85	84	83	82	82	80	83	77	75	77	77	70	78
1869	85	84	83	82	82	80	83	77	75	77	77	70	78
1868	85	84	83	82	82	80	83	77	75	77	77	70	78
1867	85	84	83	82	82	80	83	77	75	77	77	70	78
1866	85	84	83	82	82	80	83	77	75	77	77	70	78
1865	85	84	83	82	82	80	83	77	75	77	77	70	78
1864	85	84	83	82	82	80	83	77	75	77	77	70	78
1863	85	84	83	82	82	80	83	77	75	77	77	70	78
1862	85	84	83	82	82	80	83	77	75	77	77	70	78
1861	85	84	83	82	82	80	83	77	75	77	77	70</	

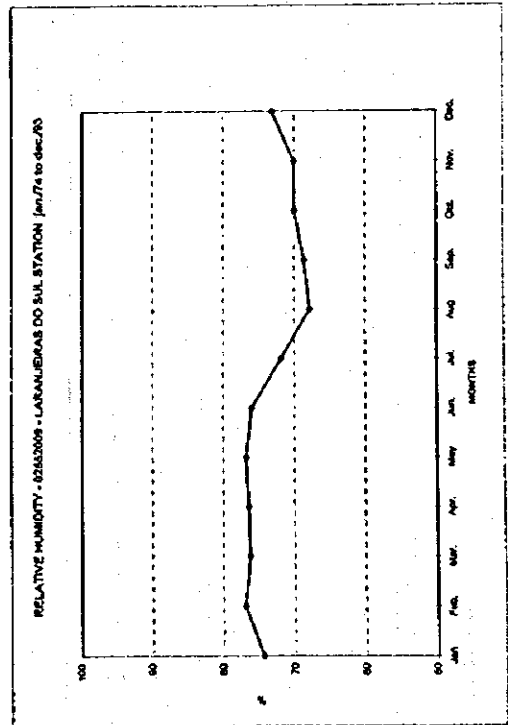
RELATIVE HUMIDITY (%)  
02551010 - GUARAPUAVA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1975	64	61	64	61	65	62	61	74	60	75	73	79	67
1976	63	70	64	61	60	62	79	79	79	90	80	84	81
1977	60	77	77	64	64	64	61	70	73	70	75	74	73
1978	71	75	75	76	80	83	79	79	79	79	75	83	79
1979	75	62	62	62	64	77	77	81	78	77	78	83	80
1980	63	65	61	65	61	65	72	71	66	66	63	77	61
1981	73	62	61	78	79	88	81	79	73	79	85	80	86
1982	62	63	62	65	68	85	85	72	82	80	78	78	82
1983	60	78	65	62	64	60	79	82	66	68	61	77	76
1984	73	67	68	65	73	60	78	71	74	71	73	66	77
1985	78	66	62	63	67	79	61	77	76	72	72	82	68
1986	79	64	75	65	66	79	77	76	79	90	77	76	76
1987	60	64	79	86	88	80	75	66	67	71	64	72	76
1988	66	65	60	62	62	64	75	74	77	73	74	77	76
1989	60	70	60	60	60	60	62	62	74	73	78	65	70
1990	71	72	60	63	62	63	73	74	72	77	69	75	76
1991	76	79	86	82	86	83	83	81	80	79	76	74	80
1992	61	64	62	62	62	62	79	67	63	76	67	78	70
1993	61	64	62	62	62	62	62	62	62	62	62	62	62
Mean	70	61	61	62	62	61	79	75	76	76	75	79	70



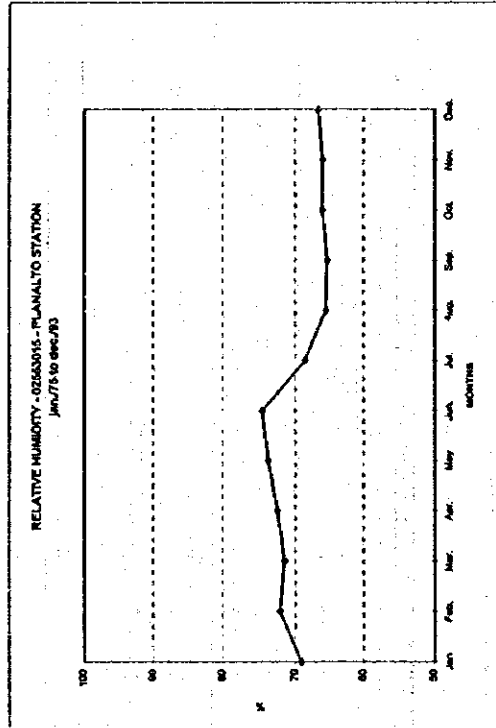
RELATIVE HUMIDITY (%)  
02532009 - LARANJEIRAS DO SUL STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	74	77	76	77	70	73	70	64	62	64	64	74	72
1975	70	70	71	71	68	71	68	74	74	73	71	75	74
1976	71	75	76	76	74	74	74	71	66	73	80	74	75
1977	61	79	80	77	75	74	74	71	66	73	80	74	75
1978	67	64	71	55	66	74	67	63	63	60	70	69	65
1979	64	71	70	79	78	78	69	73	64	68	73	78	73
1980	71	76	75	76	72	72	75	70	70	71	69	78	74
1981	62	75	71	73	62	62	62	62	69	74	72	78	72
1982	66	62	71	72	72	63	73	72	66	75	62	75	75
1983	79	81	78	84	86	86	81	65	77	74	71	71	76
1984	76	76	77	77	77	78	75	74	60	63	76	73	73
1985	64	64	64	64	64	64	64	64	64	64	64	64	64
1986	74	63	71	63	65	74	74	72	66	70	76	75	75
1987	79	81	71	61	64	73	72	73	73	76	70	73	75
1988	75	81	71	60	67	63	63	69	66	62	69	72	72
1989	63	63	63	63	63	63	63	63	63	63	63	63	63
1990	65	72	60	62	75	76	79	67	66	74	75	70	76
1991	64	74	71	73	78	78	64	66	63	71	64	74	70
1992	70	76	62	76	83	76	77	78	77	74	70	72	76
1993	78	61	78	77	77	76	74	62	76	73	63	73	74
Mean	74	77	76	77	77	76	76	72	68	70	70	73	73



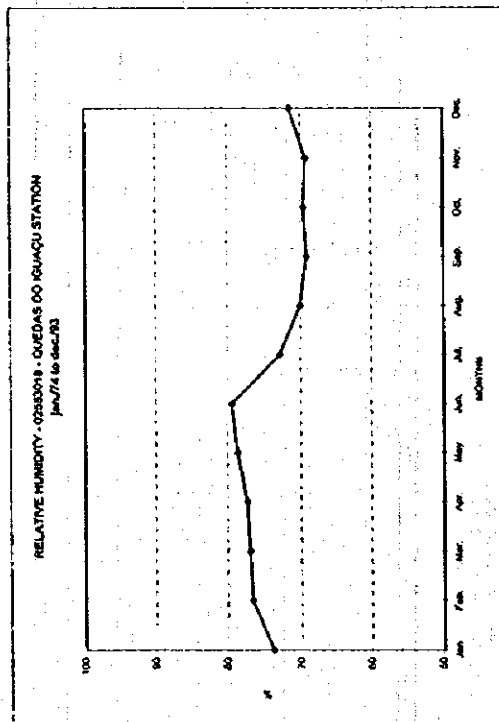
RELATIVE HUMIDITY (%)  
02553015 - PLANALTO STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1975	72	77	76	75	75	75	75	61	72	70	65	71	72
1976	78	69	69	70	76	74	67	63	69	61	61	69	69
1977	75	70	70	84	73	75	82	70	67	66	72	66	72
1978	64	64	64	47	50	62	71	61	63	59	67	62	61
1979	57	64	64	64	72	79	69	71	71	64	72	65	71
1980	64	75	74	67	76	69	70	71	65	66	67	72	70
1981	75	79	60	60	60	64	55	56	61	67	78	72	69
1982	55	77	60	62	68	83	71	71	60	70	81	69	70
1983	72	73	71	79	65	64	62	63	72	66	66	65	73
1984	72	70	73	75	75	76	67	71	57	60	70	65	69
1985	61	78	70	79	79	71	69	68	67	66	65	57	66
1986	67	78	78	78	60	70	71	72	66	62	69	71	71
1987	75	76	65	77	81	71	73	67	63	71	64	69	71
1988	70	74	65	74	84	77	62	54	57	60	54	60	66
1989	81	79	74	79	71	60	66	66	66	62	63	67	71
1990	80	71	72	81	72	76	75	62	67	71	71	67	72
1991	60	59	66	60	60	71	76	65	59	65	59	70	64
1992	62	71	79	74	81	75	75	71	99	99	89	81	71
1993	74	71	76	73	71	78	73	69	70	68	63	67	70
Mean	68	72	72	73	74	75	68	69	65	65	66	67	69



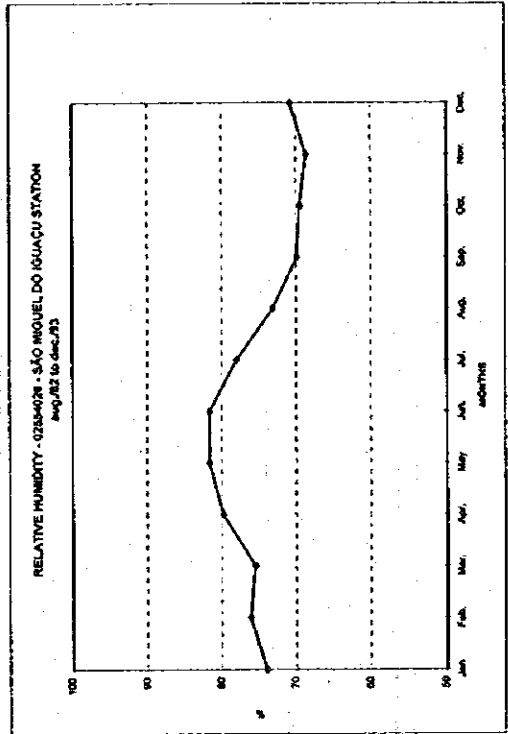
RELATIVE HUMIDITY (%)  
02553018 - QUEDAS DO IGUAÇU STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	65	64	60	60	61	67	60	74	63	63	63	75	77
1975	76	60	60	79	78	83	85	74	77	75	66	77	76
1976	72	62	52	57	64	63	74	68	73	66	65	74	74
1977	84	80	81	75	77	79	67	74	70	69	78	72	76
1978	68	64	60	60	58	68	75	63	65	61	68	64	66
1979	57	67	71	77	80	74	74	72	66	74	68	77	72
1980	67	76	79	77	79	74	78	76	70	72	69	74	70
1981	79	62	72	71	73	76	63	65	63	71	73	76	73
1982	65	81	75	76	74	74	76	76	71	75	65	75	75
1983	76	79	76	83	86	82	85	76	76	72	72	66	77
1984	74	73	76	80	73	79	87	71	67	60	70	65	71
1985	64	64	62	64	64	70	72	71	68	66	63	59	70
1986	71	80	78	83	83	77	73	74	69	69	71	77	76
1987	79	81	69	61	64	79	68	71	72	70	71	76	78
1988	77	79	72	80	87	79	69	61	65	60	60	68	74
1989	63	65	79	81	86	84	72	72	67	67	67	66	71
1990	64	63	73	62	63	78	67	69	73	73	73	72	77
1991	64	65	73	78	77	81	69	67	63	69	63	73	70
1992	70	76	82	79	84	81	78	77	73	73	71	67	79
1993	79	76	79	78	77	80	76	64	76	71	65	72	74
Mean	74	77	77	77	79	79	73	70	69	70	69	72	74



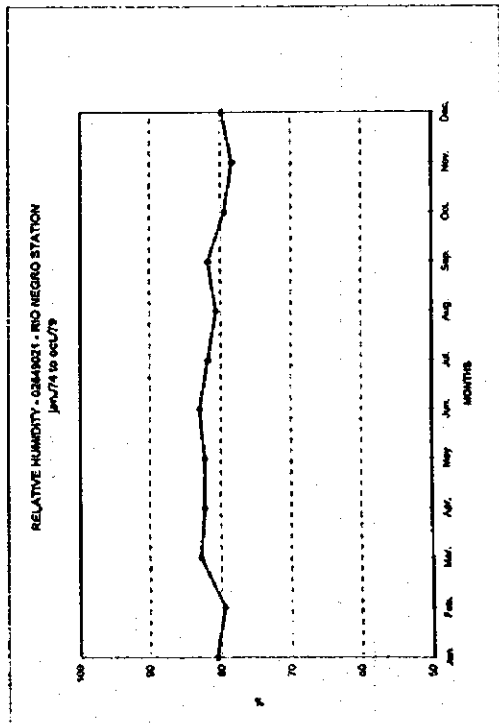
RELATIVE HUMIDITY (%)  
02554020 - SAO MIGUEL DO IGUAÇU STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1962	74	74	75	74	81	87	84	88	73	72	74	74	74
1963	74	74	70	75	90	79	81	74	75	63	67	70	72
1964	74	70	79	82	78	77	78	78	71	69	65	68	73
1965	70	90	78	82	84	76	80	75	72	65	71	76	75
1967	78	80	71	81	87	81	80	75	68	68	65	59	64
1968	77	76	71	82	87	81	75	68	68	72	65	66	73
1969	86	85	81	80	78	87	75	75	72	65	66	75	77
1990	77	77	74	81	80	96	82	73	71	74	71	75	77
1991	83	83	82	72	75	78	84	74	66	63	67	68	71
1992	86	72	81	80	88	79	80	76	74	74	69	69	76
1993	77	73	76	74	74	82	80	70	74	71	63	63	74
Mean	74	76	78	80	82	82	78	73	70	70	66	64	71



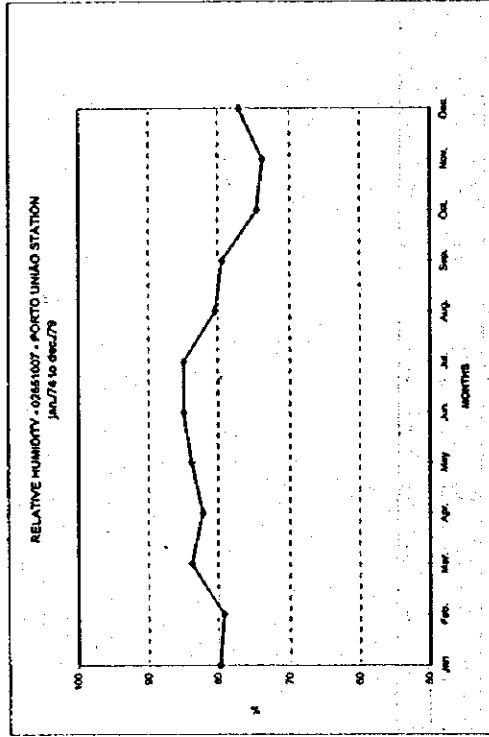
RELATIVE HUMIDITY (%)  
02849021 - RIO NEGRO STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	81	80	83	81	78	83	82	77	78	77	75	76	78
1976	81	82	83	84	86	86	80	82	85	80	82	84	83
1978	86	83	84	84	86	83	83	81	85	81	78	80	83
1977	83	78	85	85	83	86	77	81	81	82	82	80	82
1976	78	77	82	77	78	78	84	80	80	78	77	77	79
1979	75	77	80	83	83	82	83	83	83	81	81	81	81
Mean	81	80	83	82	82	83	82	81	82	80	78	80	81



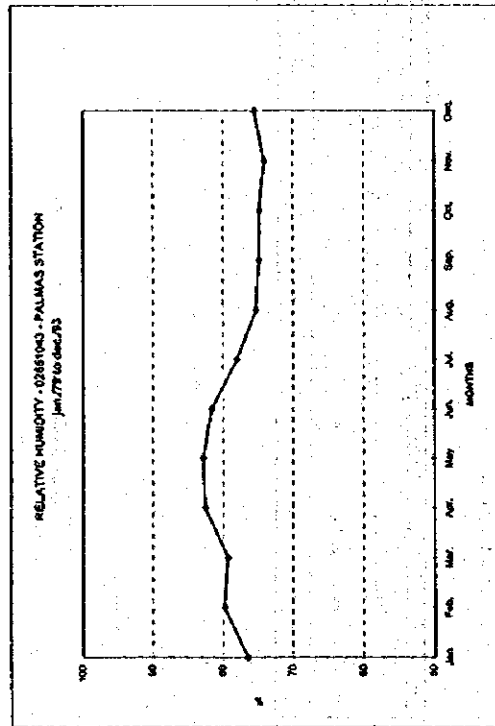
RELATIVE HUMIDITY (%)  
02851037 - PORTO UNIAO STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	79	80	82	82	82	83	84	84	78	75	68	65	77
1975	76	87	84	84	86	86	81	83	83	83	78	75	81
1976	81	77	83	83	86	85	86	77	81	77	73	74	80
1977	84	80	88	88	88	87	85	86	82	81	81	80	84
1978	78	77	82	77	79	84	89	80	76	68	76	74	78
1979	80	79	84	82	84	85	85	80	76	75	74	77	80
Mean													



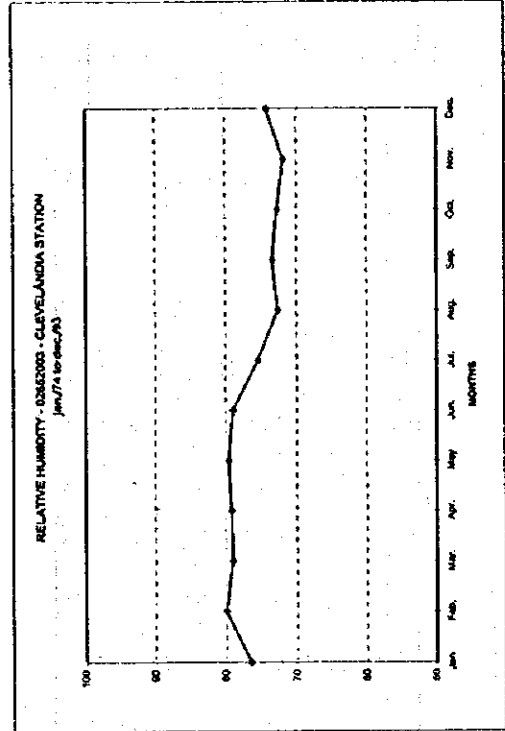
RELATIVE HUMIDITY (%)  
02851043 - PALMAS STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1975	69	71	77	84	84	81	82	78	78	64	75	63	78
1980	75	78	82	85	85	76	79	81	75	76	74	81	79
1981	80	83	79	81	84	84	73	73	71	71	80	79	79
1982	71	84	81	80	80	88	79	78	77	76	80	78	80
1983	82	84	81	86	80	85	87	74	77	76	76	75	82
1984	81	79	81	82	82	79	78	81	89	88	79	71	78
1985	70	84	82	85	85	78	80	77	75	72	80	87	78
1986	73	83	82	85	85	80	80	78	74	70	75	77	78
1987	79	82	72	83	83	77	77	78	78	77	72	76	78
1988	77	81	75	83	83	87	86	73	70	71	80	74	78
1989	85	83	86	81	80	83	73	73	78	73	71	74	78
1990	84	76	86	80	83	80	82	72	70	78	80	70	78
1991	71	87	78	80	78	81	70	74	71	70	80	78	74
1992	75	79	83	82	85	82	81	79	77	76	74	73	79
1993	81	83	82	82	81	86	79	87	81	74	88	76	78
Mean													



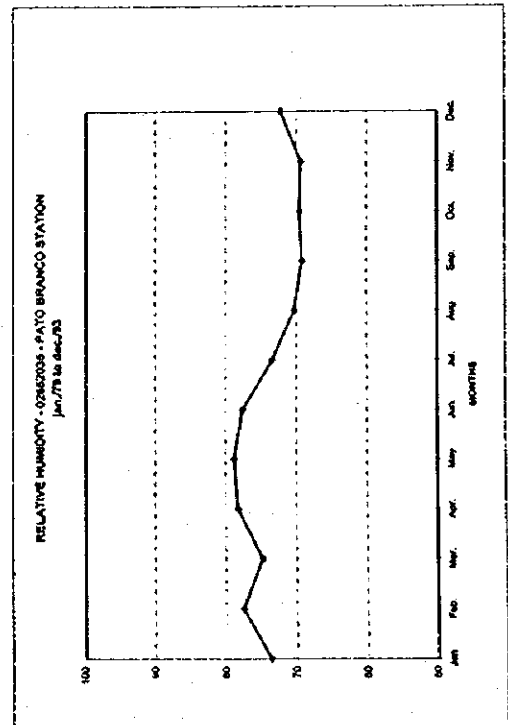
RELATIVE HUMIDITY (%)  
02652203 - CLEVELANDIA STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	87	81	87	77	76	82	71	87	88	86	81	78	78
1975	77	82	83	78	78	78	78	78	78	78	78	78	77
1976	84	76	77	77	83	81	78	84	73	70	69	80	78
1977	81	76	84	77	78	78	89	78	72	74	74	73	78
1978	81	68	73	66	56	69	76	66	70	68	73	72	69
1979	86	71	76	78	81	73	75	74	74	78	71	82	78
1980	73	80	80	77	81	71	77	77	77	73	72	79	76
1981	78	80	78	77	77	80	79	87	65	75	74	78	75
1982	79	83	77	74	77	88	76	78	74	74	78	88	78
1983	81	83	79	96	89	87	88	72	78	74	75	73	80
1984	81	78	80	81	82	78	77	81	87	87	78	72	77
1985	71	80	87	85	75	78	78	75	78	71	85	65	76
1986	74	83	80	84	85	77	78	77	74	89	74	76	76
1987	88	84	71	83	84	84	74	77	77	78	78	70	75
1988	77	82	75	82	88	83	72	84	87	87	89	65	71
1989	85	85	81	82	79	83	73	74	78	73	89	71	79
1990	84	78	80	85	77	80	81	68	75	78	78	78	76
1991	88	84	75	80	77	82	88	71	89	74	66	73	73
1992	74	81	84	82	86	80	81	78	78	70	72	71	78
1993	83	83	83	86	78	80	78	87	83	78	86	75	78
Mean	77	80	78	78	80	78	78	73	74	74	73	72	74



RELATIVE HUMIDITY (%)  
02652035 - PATO BRANCO STATION

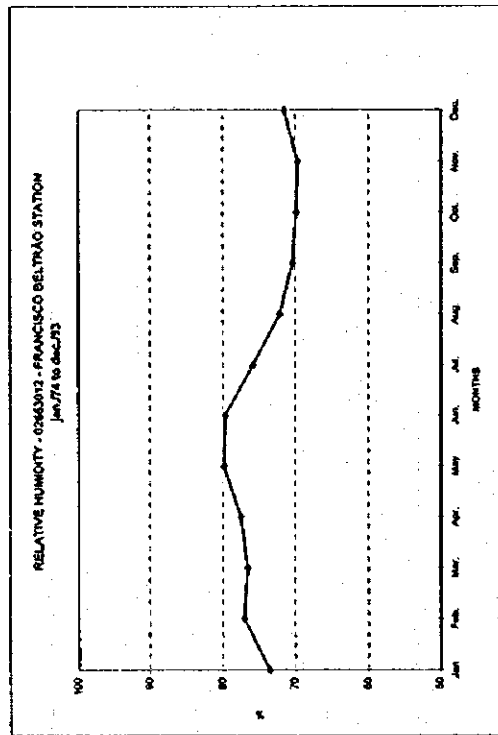
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1979	83	86	70	78	78	71	75	72	87	74	87	77	77
1980	89	78	78	73	78	80	77	75	88	70	86	79	79
1981	77	80	71	72	75	76	83	68	83	70	73	76	72
1982	84	81	73	70	72	84	74	75	70	73	83	72	74
1983	75	78	75	82	87	84	85	88	74	71	73	72	77
1984	80	78	78	78	80	76	74	75	80	81	78	71	74
1985	86	82	79	82	78	75	72	71	73	68	82	82	77
1986	72	81	78	82	83	75	78	75	70	85	71	78	75
1987	78	82	70	84	83	75	75	74	72	75	87	75	76
1988	78	78	70	80	86	83	87	82	81	84	89	87	71
1989	85	85	77	76	77	81	72	71	74	87	87	70	70
1990	84	78	77	83	78	78	78	87	72	78	78	70	76
1991	85	84	82	78	73	79	84	87	85	88	83	75	78
1992	71	77	82	78	82	78	77	75	72	70	70	89	78
1993	82	80	78	78	78	77	74	82	77	71	83	74	74
Mean	74	78	76	78	78	78	74	70	88	70	88	88	72





RELATIVE HUMIDITY (%)  
02633012 - FRANCISCO BELTRÃO STATION

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1974	76	76	76	71	74	74	74	67	63	65	63	68	71
1975	77	77	77	77	77	79	68	78	77	74	72	66	76
1976	81	69	62	62	66	65	65	73	72	65	66	70	63
1977	79	74	84	74	76	77	70	75	74	71	74	70	75
1978	67	62	66	61	65	65	76	67	67	65	71	67	69
1979	64	66	70	74	79	74	74	76	67	73	68	70	72
1980	67	73	74	74	81	72	73	76	68	71	67	74	73
1981	76	60	72	74	77	76	63	68	67	70	73	73	71
1982	70	85	60	70	79	83	78	77	72	72	63	72	77
1983	75	60	75	67	67	85	66	69	75	71	72	70	77
1984	77	78	77	79	82	90	78	76	63	65	78	66	73
1985	65	62	60	67	78	77	75	74	79	68	65	60	73
1986	70	80	77	63	85	76	78	77	72	68	71	74	76
1987	77	81	71	82	89	77	78	74	72	74	64	73	76
1988	74	75	70	81	85	80	69	64	62	64	59	65	71
1989	84	62	78	60	79	64	73	73	73	69	64	71	76
1990	84	75	79	63	80	82	79	74	74	71	76	70	78
1991	93	65	70	77	77	78	63	71	66	70	63	75	71
1992	67	77	83	81	83	63	79	77	73	73	70	65	76
1993	76	76	79	79	82	82	77	67	77	74	68	71	76
Mean	74	77	77	78	80	80	76	72	76	70	70	71	74



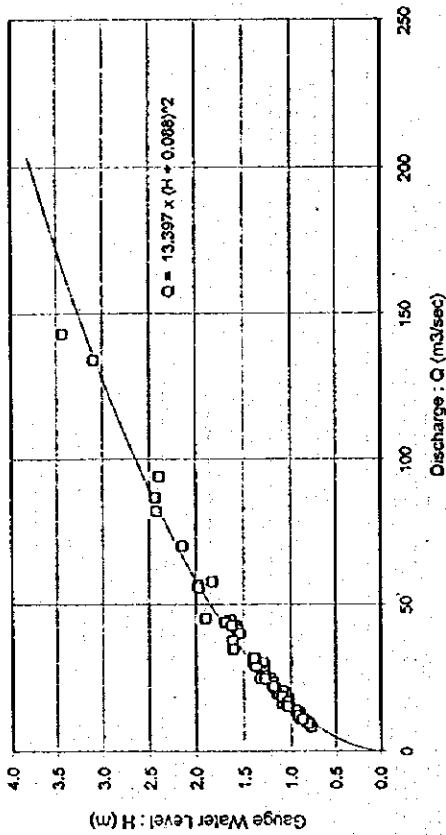
**I-2 Computation Results of Hydrological Analysis by Station**



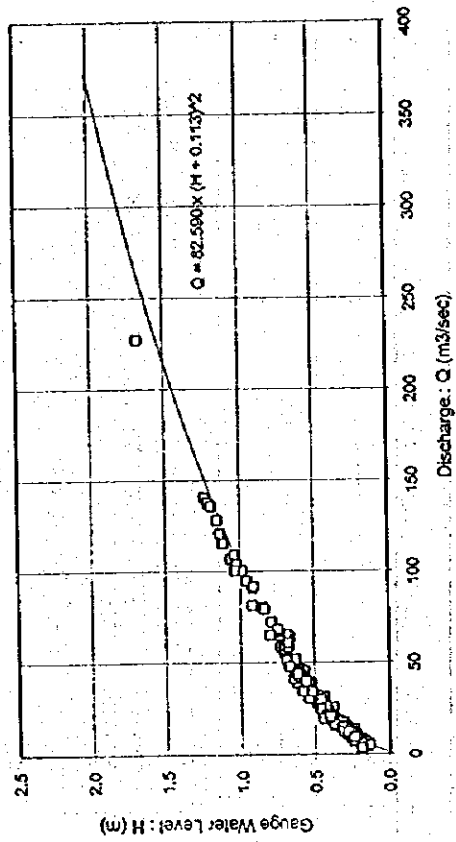
Discharge Rating Curve

No.	Basin	River	St. No.	St Name	Area (km <sup>2</sup> )	Q = a x (H + b) <sup>2</sup>		Correlation Coefficient	Remarks
						a	b		
1	Irarara	Joguaralva	64-242-000	Tamandua	1,573	13.39747	0.03763	0.99113	
2	Cinzas	Cinzas	64-360-000	Tomazina	2,015	82.59001	0.11331	0.99289	
3			64-370-000	Andira	5,622	39.83073	0.31489	0.99179	
4	Tibagi	Tibagi	64-444-000	Urvaia	4,450	3.13308	0.87398	0.98770	
5			64-465-000	Tibagi	8,948	34.68497	0.89977	0.97405	
6			64-491-000	Barra Rib Das Antas	15,600	19.05341	2.10405	0.94054	1974 - 1993 (20 Years)
			64-491-000	- ditto -	15,600	26.15779	1.76576	0.98640	1974 - 1988 (15 Years)
			64-491-000	- ditto -	15,600	27.34863	0.71579	0.97548	1989 - 1993 (5 Years)
7			64-507-011	Jataizinho (Extendido)	21,240	163.13911	-0.52300	0.98852	
8	Pirapo	Pirapo	64-550-000	Vila Silva Jardim	4,627	31.74856	-0.04146	0.95179	
9	Ival	Ival	64-625-000	Tereza Cristina	3,572	21.91277	-0.33811	0.99079	
10			64-645-000	Porto Espanhol	8,600	35.64973	1.17593	0.96807	
11			64-675-002	Porto Bananeiras	24,200	166.84236	0.50888	0.97854	
12			64-685-000	Porto Paraíso do Norte	28,427	51.88534	0.93526	0.96512	
13			64-693-000	Novo Porto Taquara	34,432	21.42278	2.28265	0.96885	
14	Piquiri	Piquiri	64-771-500	Porto Guarani	4,223	54.08229	-0.48952	0.80108	
15			64-795-000	Ponte do Piquiri	11,303	79.28416	0.39022	0.96823	
16			64-820-000	Porto Formosa	17,500	57.51248	0.59797	0.97767	
17			64-830-000	Balsa do Santa Maria	20,982	40.22845	0.88422	0.93911	
18	Iguacu	Iguacu	65-010-000	Fazendinha	1,930	1.56861	0.14205	0.99068	
19			65-025-000	Guajuvira	2,304	8.93537	0.57611	0.98153	
20			65-035-000	Porto Amazonas	3,662	14.99956	0.31715	0.97038	
21			65-060-000	Sao Mateus do Sul	6,085	11.32559	1.25105	0.98759	
22			65-310-000	Uniao da Vitoria	24,211	50.91228	0.14970	0.99282	
23			65-895-002	Salto Osorio	45,824	40.31134	0.36057	0.91990	
24			65-993-000	Salto Cataratas	67,317	1627.19625	-0.10545	0.98665	
25		Negro	65-175-000	Divisa	7,970	8.74532	1.56708	0.99326	
26		Timbo	65-260-000	Foz do Cachdeira	693	111.16013	-0.48009	0.93411	
27		Jordao	65-825-000	Santa Clara	3,913	104.02212	-0.01494	0.99667	
28		Chopim	65-950-000	Aguas do Vere	6,696	177.03587	-0.22960	0.99260	
29	Parana	Parana	64-575-003	Porto Sao Jose (Jus)	670,000				
30			64-843-000	Guaira	802,150	464.69193	1.47259	0.47039	1925
31	Ribeira	Ribeira	81-200-000	Capela do Ribeira	7,252	41.59167	0.89882	0.97265	1956 - 1974
						52.65158	-0.28360	0.99104	1974 - 1993
32	Litoranea		82-170-000	Morretes	217	28.80573	0.11850	0.94236	
33			82-195-002	Morretes	53	36.30947	0.00891	0.99587	

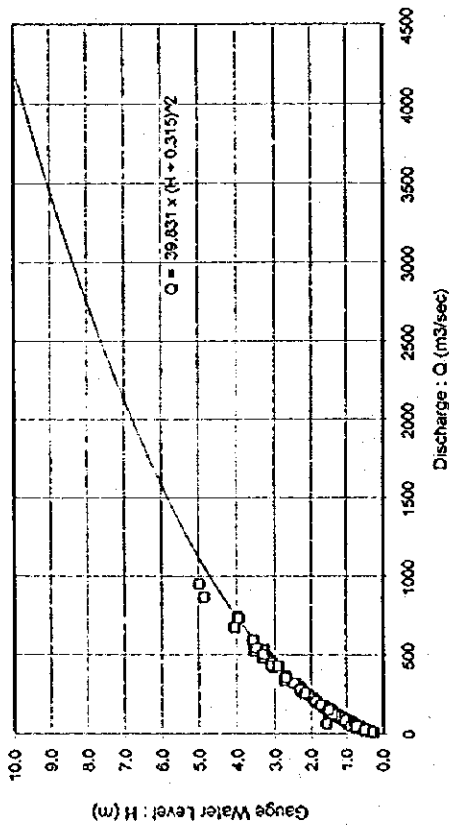
DISCHARGE RATING CURVE  
 St. No. 64242000 Tamandua (Itararé River)  
 Period : 1976 - 1993 (18 Years)



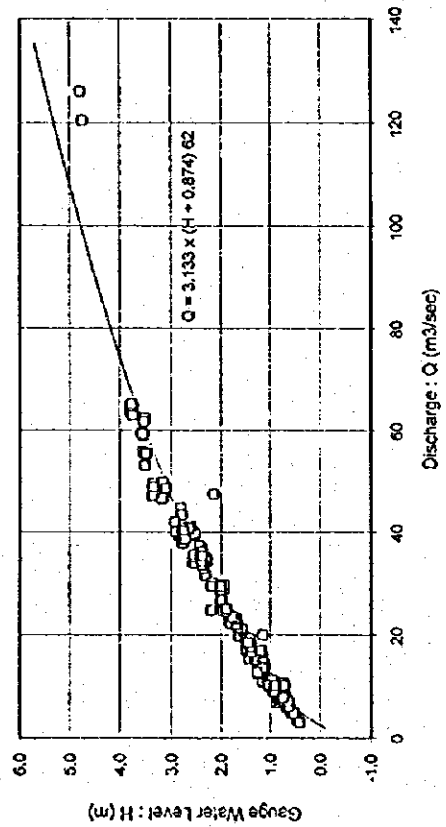
DISCHARGE RATING CURVE  
 St. No. 64360000 Tomazina (Cinzas River)  
 Period : 1930 - 1985 (56 Years)



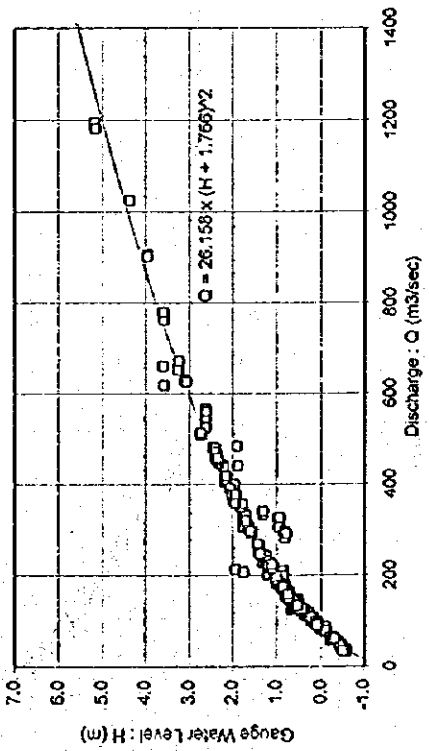
DISCHARGE RATING CURVE  
 St. No. 64370000 Andira (Cinzas River)  
 Period : 1931 - 1985 (55 Years)



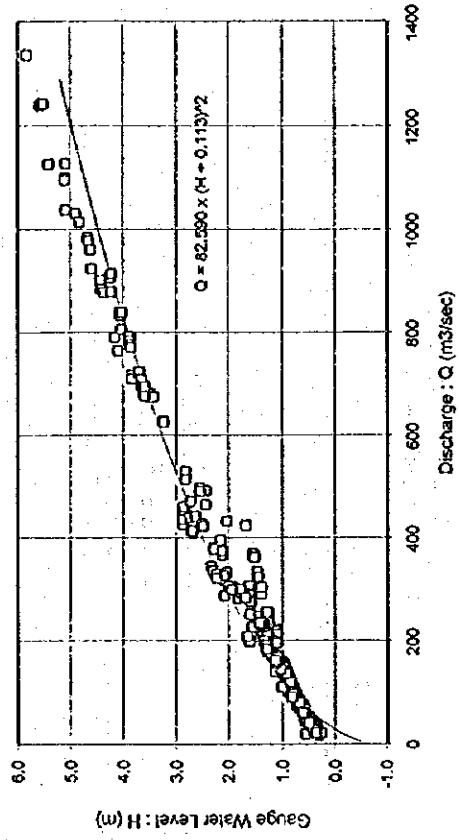
DISCHARGE RATING CURVE  
 St. No. 64440000 Tibagi (Tibagi River)  
 Period : 1937 - 1965 (29 Years)



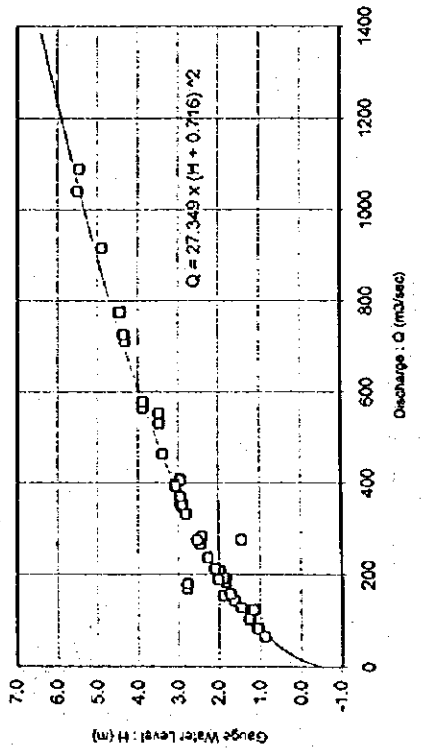
DISCHARGE RATING CURVE  
 St. No. 64491000 Barra Rib Antas (Tibagi River)  
 Period : 1974 - 1988 (15 Years)



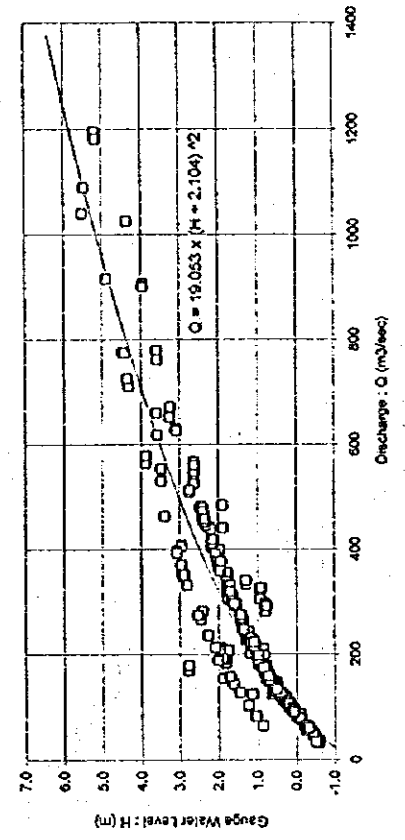
DISCHARGE RATING CURVE  
 St. No. 64465000 Tibagi (Tibagi River)  
 Period : 1930 - 1993 (64 Years)



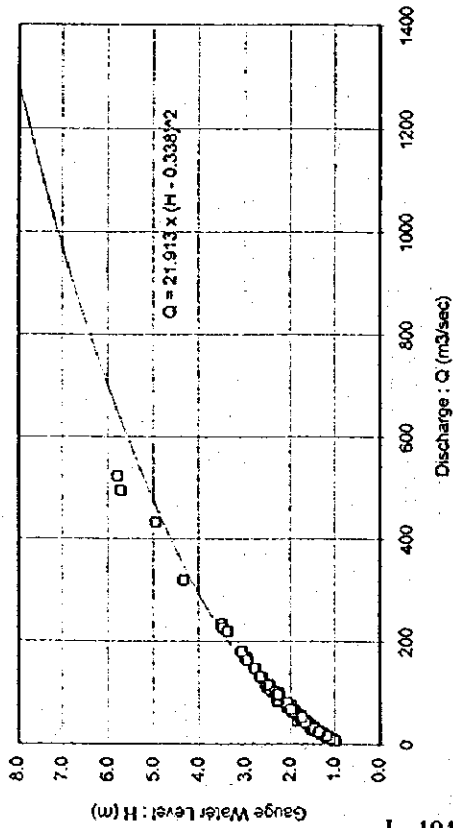
DISCHARGE RATING CURVE  
 St. No. 64491000 Barra Rib Antas (Tibagi River)  
 Period : 1989 - 1993 (5 Years)



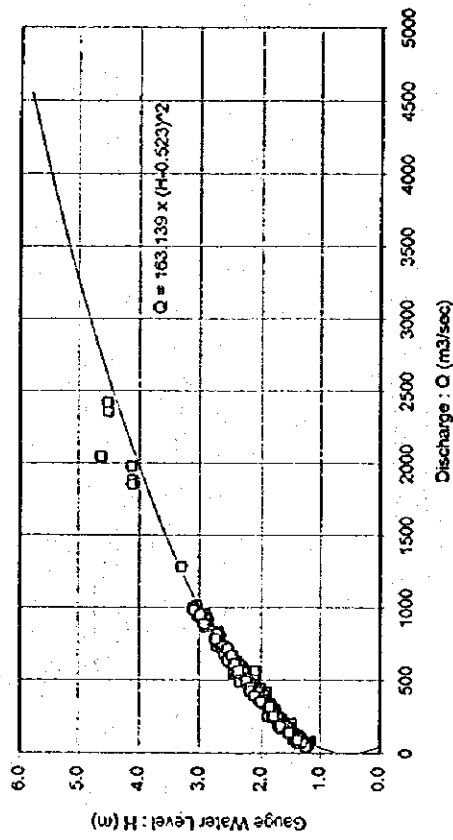
DISCHARGE RATING CURVE  
 St. No. 64491000 Barra Rib Antas (Tibagi River)  
 Period : 1974 - 1993 (20 Years)



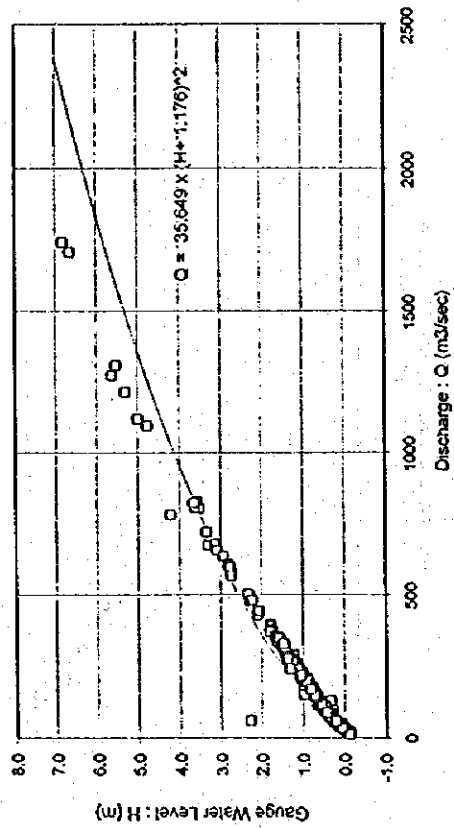
DISCHARGE RATING CURVE  
 St. No. 64620000 Tereza Cristina (Ivaí River)  
 Period : 1966 - 1989 (24 Years)



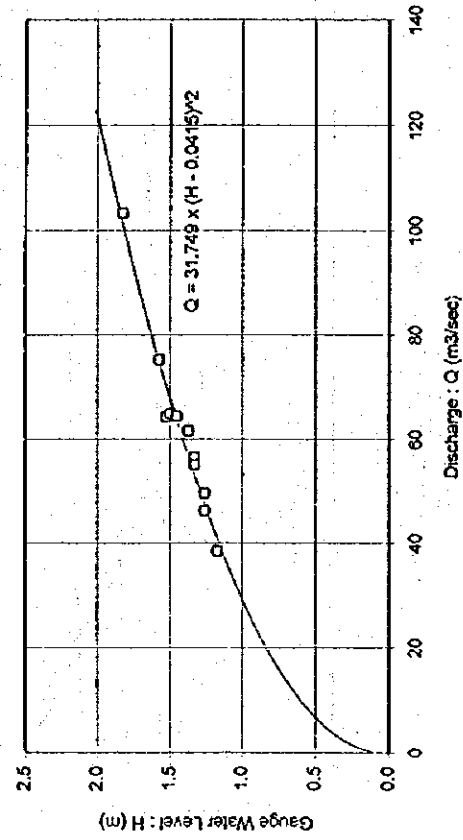
DISCHARGE RATING CURVE  
 St. No. 64507011 Jataizinho (Extendido) (Tibagi River)  
 Period : 1931 - 1986 (55 Years)



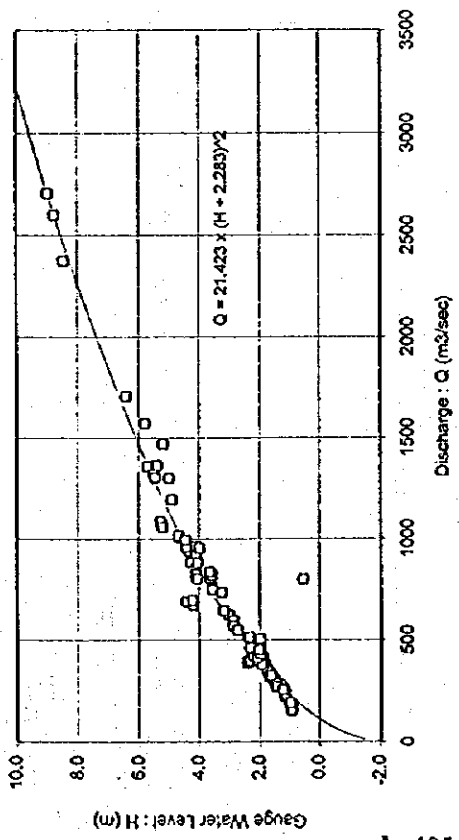
DISCHARGE RATING CURVE  
 St. No. 64640000 Porto Espanhol (Ivaí River)  
 Period : 1965 - 1993 (29 Years)



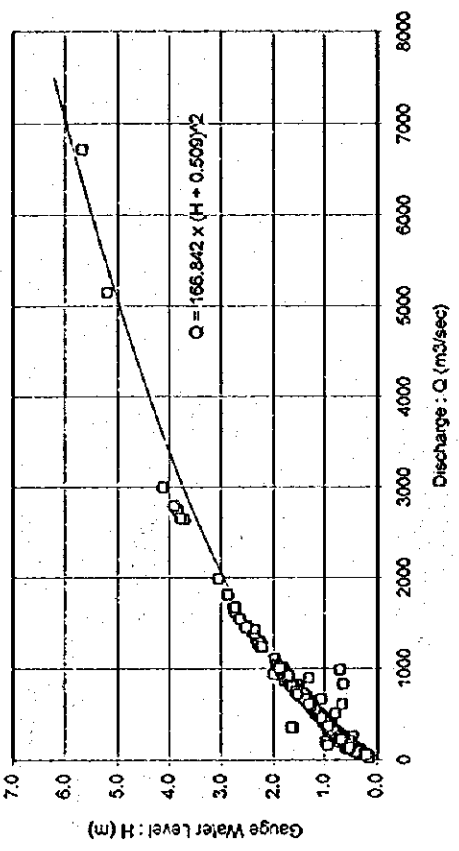
DISCHARGE RATING CURVE  
 St. No. 64550000 Vila Silva Jardim (Pirapo River)  
 Period : 1987 - 1993 (7 Years)



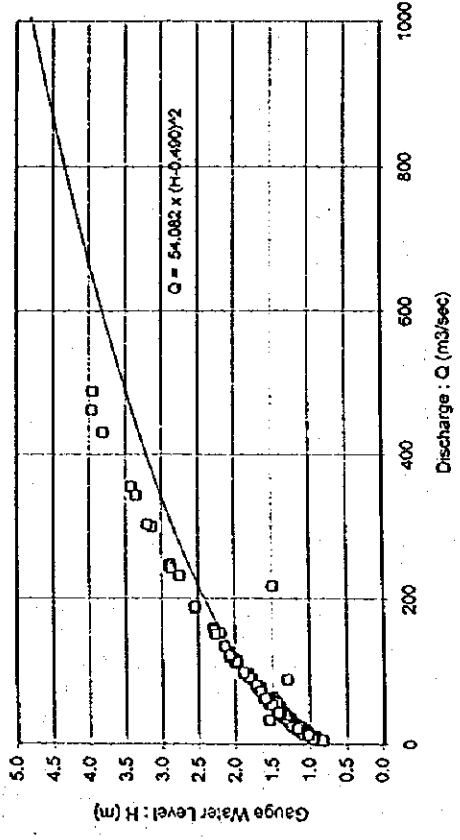
DISCHARGE RATING CURVE  
 St. No. 64693000 Novo Porto Taquara (Ival River)  
 Period : 1976 - 1989 (14 Years)



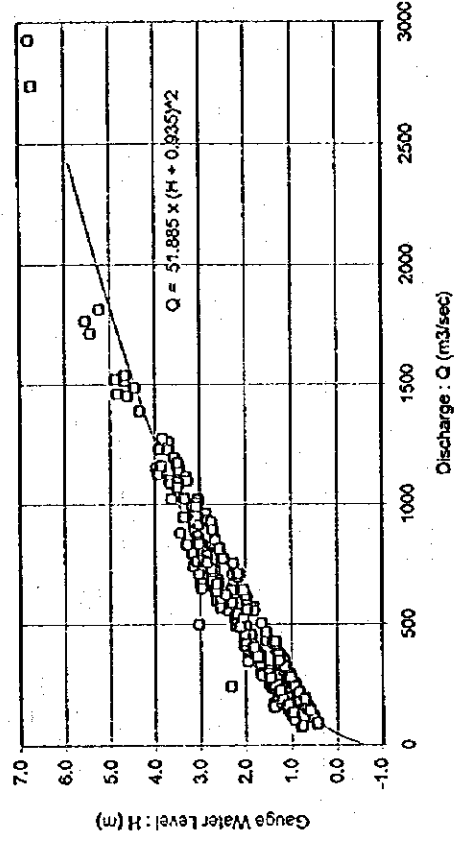
DISCHARGE RATING CURVE  
 St. No. 64675002 Porto Bananeiras (Ival River)  
 Period : 1974 - 1993 (20 Years)



DISCHARGE RATING CURVE  
 St. No. 64771500 Porto Guarani (Piquiri River)  
 Period : 1976 - 1993 (18 Years)

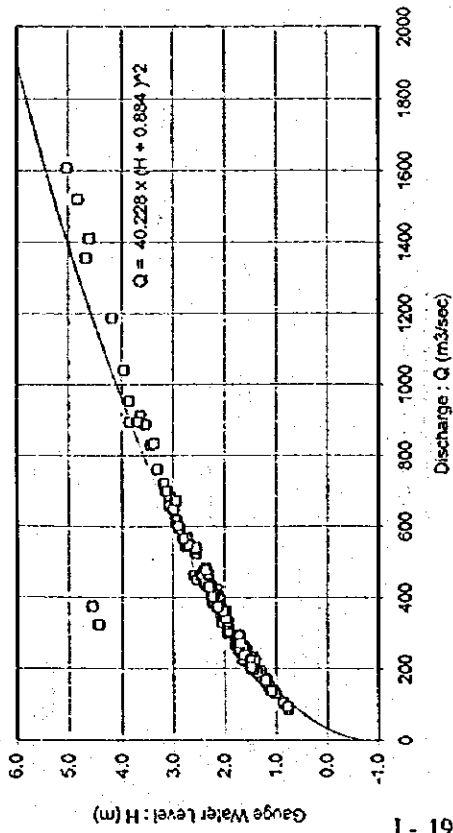


DISCHARGE RATING CURVE  
 St. No. 64685000 Porto Paraíso do Norte (Ival River)  
 Period : 1952 - 1993 (42 Years)

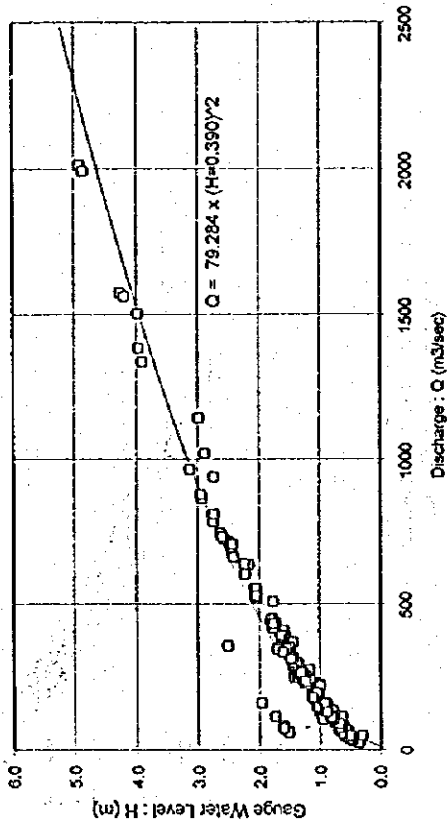




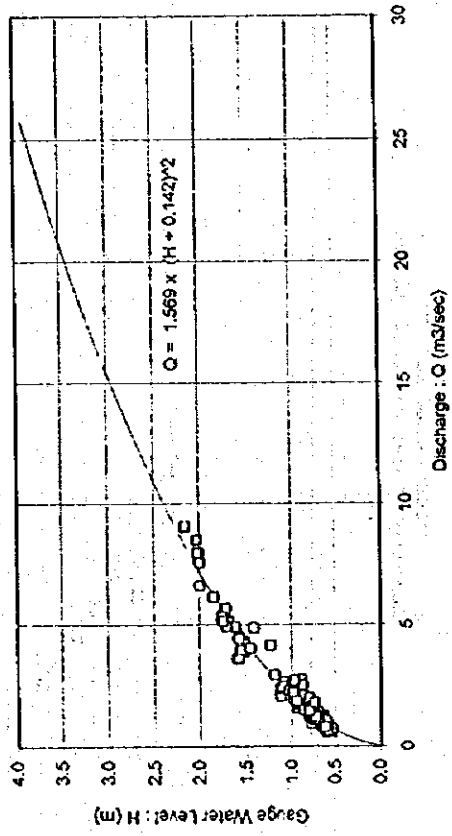
DISCHARGE RATING CURVE  
 St. No. 64830000 Salisa do Santa Maria (Piquiri River)  
 Period : 1969 - 1989 (31 Years)



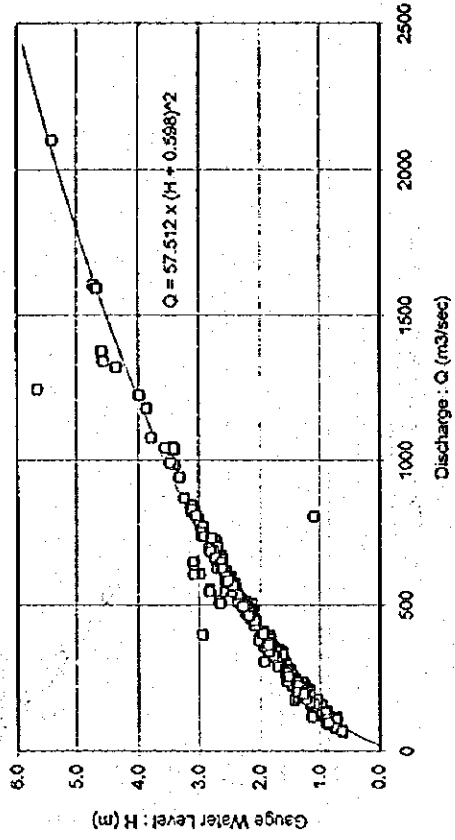
DISCHARGE RATING CURVE  
 St. No. 64795000 Ponte do Piquiri (Piquiri River)  
 Period : 1970 - 1993 (24 Years)



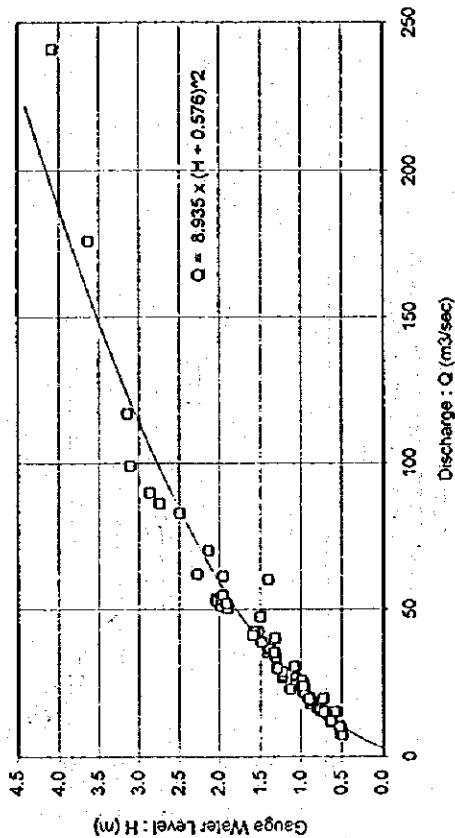
DISCHARGE RATING CURVE  
 St. No. 65010000 Fazendinha (Iguacu River)  
 Period : 1955 - 1993 (39 Years)



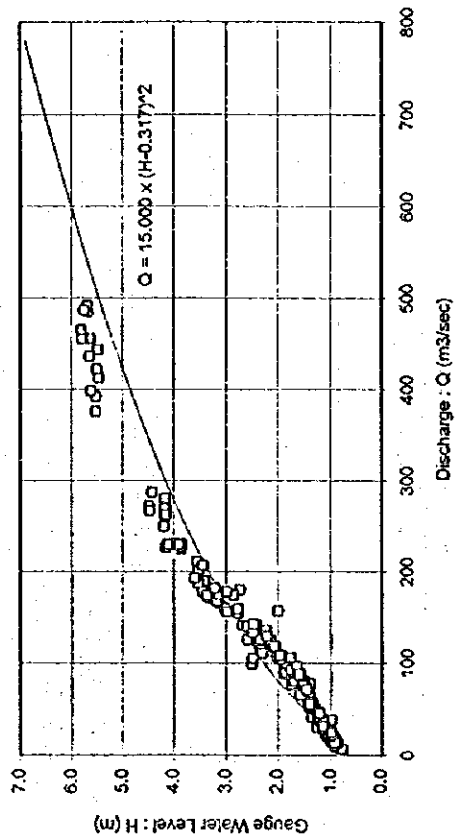
DISCHARGE RATING CURVE  
 St. No. 64820000 Porto Formosa (Piquiri River)  
 Period : 1966 - 1993 (28 Years)



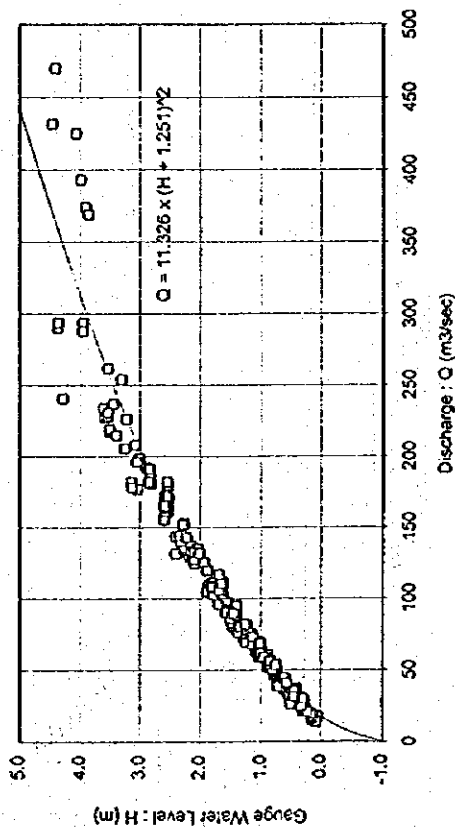
DISCHARGE RATING CURVE  
 St. No. 65025000 Guajuvira (Iguacu River)  
 Period : 1973 - 1993 (21 Years)



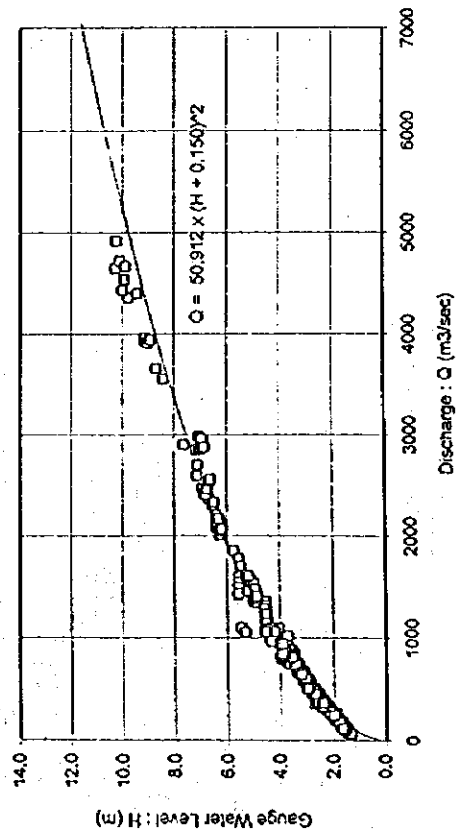
DISCHARGE RATING CURVE  
 St. No. 65035000 Porto Amazonas (Iguacu River)  
 Period : 1935 - 1993 (59 Years)



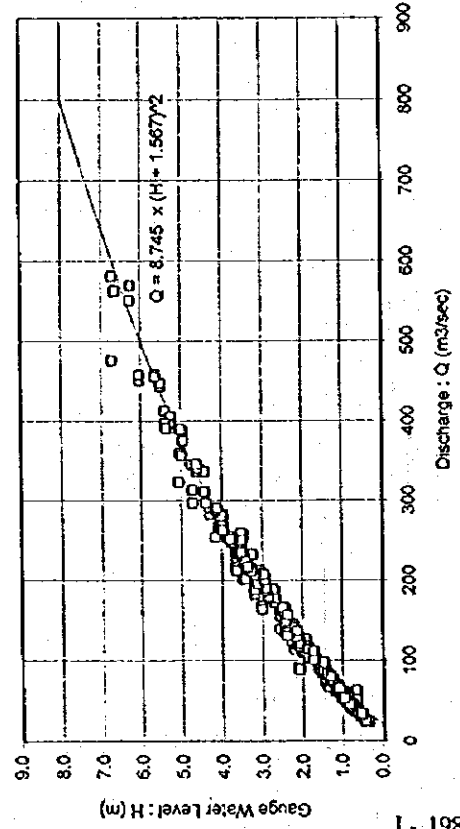
DISCHARGE RATING CURVE  
 St. No. 65060000 Sao Mateus do Sul (Iguacu River)  
 Period : 1930 - 1992 (63 Years)



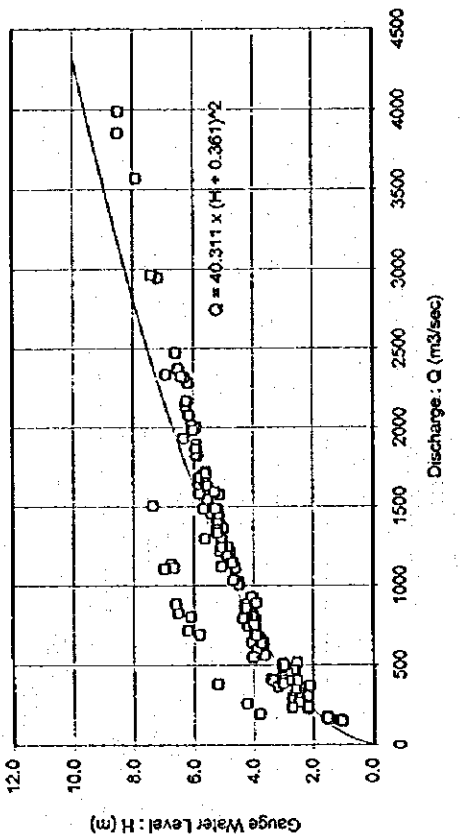
DISCHARGE RATING CURVE  
 St. No. 65310000 Uniao da Vitoria (Iguacu River)  
 Period : 1930 - 1993 (64 Years)



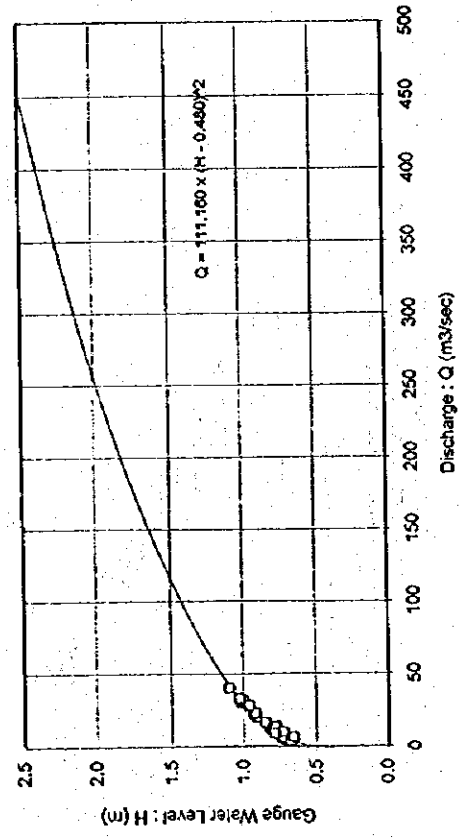
DISCHARGE RATING CURVE  
 St. No. 64175000 Divisa (Negro - Iguacu River)  
 Period : 1963 - 1993 (31 Years)



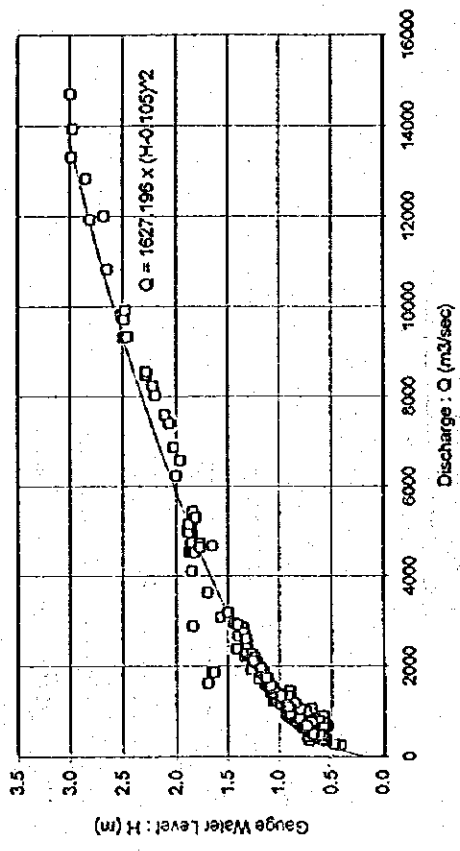
DISCHARGE RATING CURVE  
 St. No. 65895002 Salto osorio (Iguacu River)  
 Period : 1940 - 1988 (49 Years)



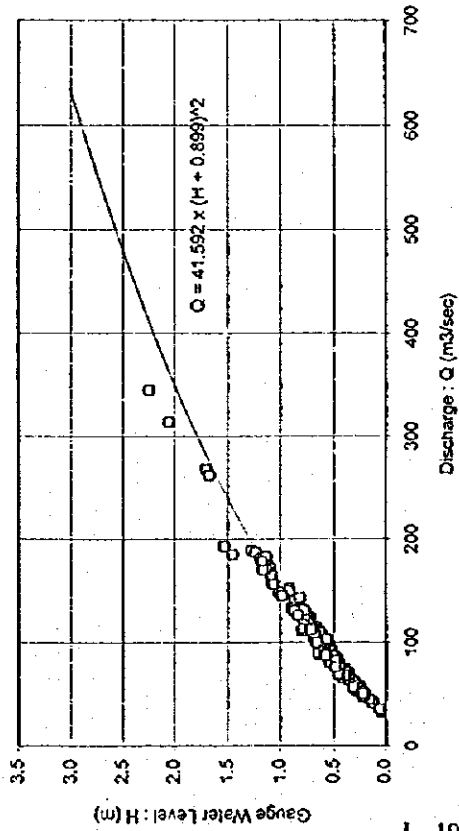
DISCHARGE RATING CURVE  
 St. No. 65260000 Foz do Cachoeira (Timbo - Iguacu river)  
 Period : 1985-1992 (8 Years)



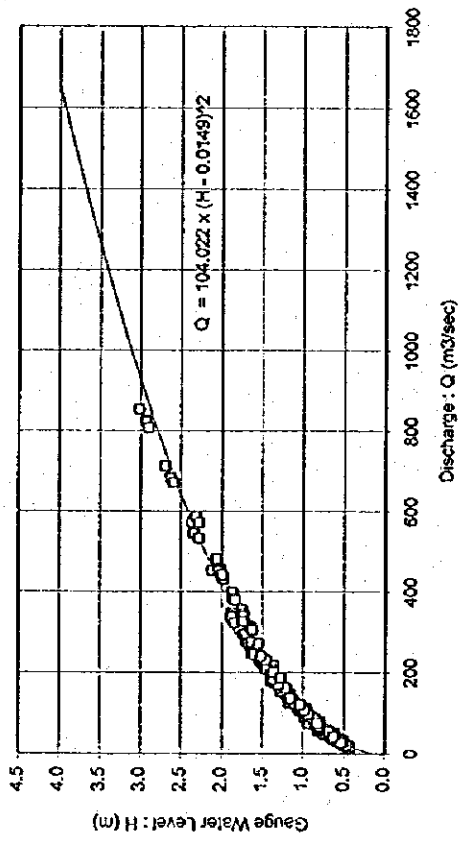
DISCHARGE RATING CURVE  
 St. No. 65993000 salto Cataratas (Iguacu River)  
 Period : 1981 - 1994 (14 Years)



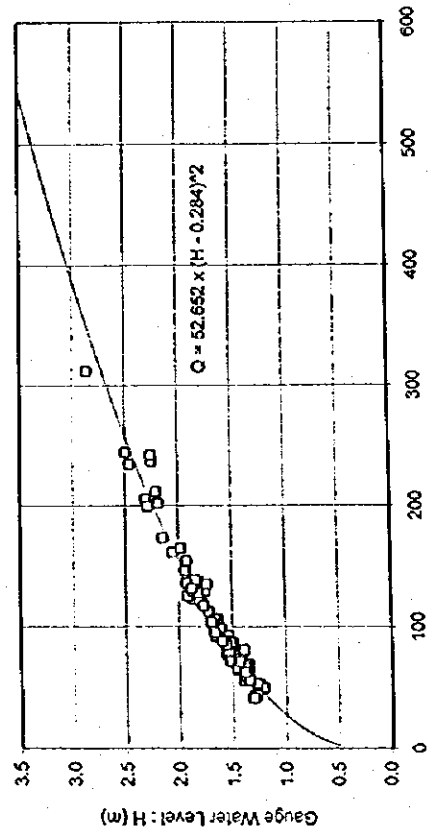
DISCHARGE RATING CURVE (1/2)  
 St. No. 81200000 Capela da Ribeira (Ribeira River)  
 Period : 1936 - 1974 (39 Years)



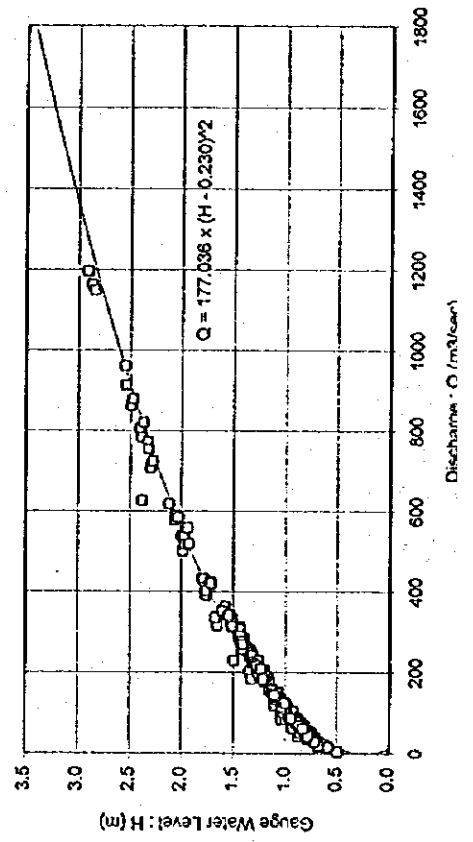
DISCHARGE RATING CURVE  
 St. No. 65625000 Santa Clara (Jordao-Iguacu River)  
 Period : 1949 - 1993 (45 Years)



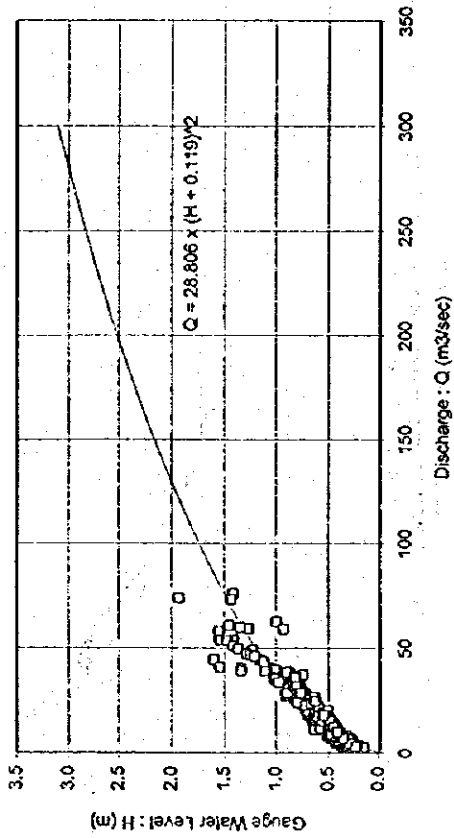
DISCHARGE RATING CURVE (2/2)  
 St. No. 81200000 Capela da Ribeira (Ribeira River)  
 Period : 1974 - 1993 (20 Years)



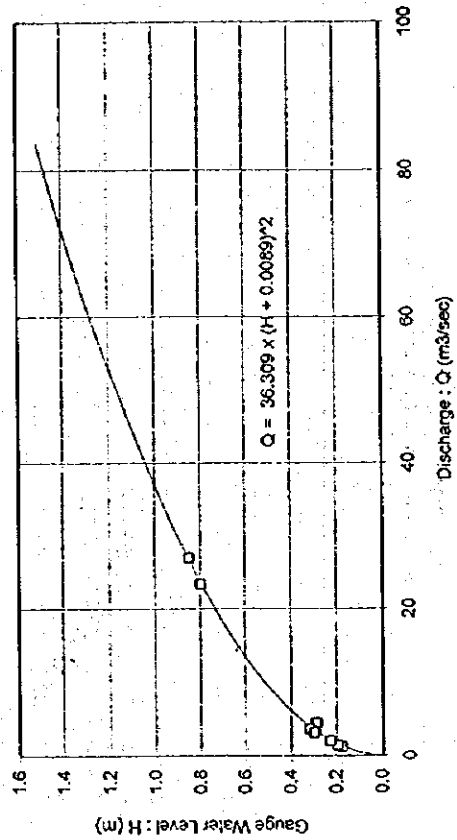
DISCHARGE RATING CURVE  
 St. No. 65960000 Aguas do Vere (Chopim-Iguacu River)  
 Period : 1956 - 1993 (38 Years)



DISCHARGE RATING CURVE  
 St. No. 82170003 Morreres (Litoranea)  
 Period : 1938 - 1993 (56 Years)



DISCHARGE RATING CURVE  
 St. No. 82195002 Morreres (Litoranea)  
 Period : 1992 (1 Year)



Summary of Correlation Curve (Monthly Specific Discharge)

No.	River	X Station	Y Station	Y = a + bX		X = a' + b'xY		Correlation Coefficient
				a	b	a'	b'	
1-2	Irarara-Cinzas	64242000, 1622 km2 Tamandua (Irarara)	64360000, 2015 km2 Tomazina (Cinzas)	0.00037	0.84961	-0.00044	1.17701	0.95217
2-3	Cinzas-Cinzas	64360000, 2015 km2 Tomazina (Cinzas)	64370000, 5622 km2 Andira (Cinzas)	-0.00292	1.01074	0.00289	0.98338	0.96013
4-5	Tibagi-Tibagi	64444000, 4450 km2 Uvaia (Tibagi)	64465000, 8948 km2 Tibagi (Tibagi)	0.00157	0.92133	-0.00170	1.08468	0.97371
5-6	Tibagi-Tibagi	64465000, 8948 km2 Tibagi (Tibagi)	64491000, 15600 km2 Barra Rib. Das Antas (Tibagi)	0.00131	0.90742	-0.00144	1.10203	0.98892
6-7	Tibagi-Tibagi	64431000, 15600 km2 Barra Rib. Das Antas (Tibagi)	64507011, 21955 km2 Jataizinho (Tibagi)	0.00030	0.98994	-0.00031	1.01016	0.98554
7-8	Tibagi-Pirapo	64507011, 21955 km2 Jataizinho (Tibagi)	64550000, 4827 km2 Vila Silva Jardim (Pirapo)	0.00796	0.38490	-0.02068	2.59805	0.73835
9-10	Ivaí-Ivaí	64625000, 3572 km2 Tereza Cristina (Ivaí)	64645000, 8600 km2 Porto Espanhol (Ivaí)	0.00366	0.85109	-0.00426	1.16132	0.97828
10-11	Ivaí-Ivaí	64645000, 8600 km2 Porto Espanhol (Ivaí)	64675002, 24200 km2 Porto Bananeiras (Ivaí)	0.00363	0.73018	-0.00497	1.36952	0.96137
11-12	Ivaí-Ivaí	64675002, 24200 km2 Porto Bananeiras (Ivaí)	64685000, 28427 km2 Porto Paraíso do Norte (Ivaí)	0.00086	0.95612	-0.00090	1.04589	0.98907
12-13	Ivaí-Ivaí	64685000, 28247 km2 Porto Paraíso do Norte (Ivaí)	64693000, 34437 km2 Novo Porto Taquara (Ivaí)	0.00206	0.88949	-0.00232	1.12424	0.92718
14-15	Piquiri-Piquiri	64771500, 4223 km2 Porto Guarani (Piquiri)	64795000, 11303 km2 Ponte do Piquiri (Piquiri)	0.00115	1.04025	-0.00110	0.96130	0.97424
15-16	Piquiri-Piquiri	64795000, 11303 km2 Ponte do Piquiri (Piquiri)	64820000, 17500 km2 Porto Formosa (Piquiri)	0.00549	0.70210	-0.00782	1.42430	0.95123
16-17	Piquiri-Piquiri	64820000, 17500 km2 Porto Formosa (Piquiri)	64830000, 20982 km2 Balsa do Santa Maria (Piquiri)	0.00203	0.84994	-0.00239	1.17655	0.97651
18-19	Iguaçu-Iguaçu	65010000, 110 km2 Fazendinha (Iguaçu)	65025000, 2304 km2 Guajuvira (Iguaçu)	-0.00119	0.92678	0.00128	1.07899	0.82589
19-20	Iguaçu-Iguaçu	65025000, 2304 km2 Guajuvira (Iguaçu)	65035000, 3662 km2 Porto Amazonas (Iguaçu)	-0.00011	0.93787	0.00012	1.06625	0.87600
20-21	Iguaçu-Iguaçu	65035000, 3662 km2 Porto Amazonas (Iguaçu)	65060000, 6065 km2 Sao Mateus do Sul (Iguaçu)	0.00044	0.94833	-0.00047	1.05448	0.94533
21-22	Iguaçu-Iguaçu	65060000, 6065 km2 Sao Mateus do Sul (Iguaçu)	65310000, 24211 km2 União da Vitória (Iguaçu)	0.00073	1.11026	-0.00066	0.90069	0.92934
23-24	Iguaçu-Iguaçu	65895002, 45824 km2 Salto Osório (Iguaçu)	65993000, 67317 km2 Salto Cataratas (Iguaçu)	0.00359	0.80064	-0.00449	1.24900	0.96305
21-25	Iguaçu-Negro	65060000, 6065 km2 Sao Mateus do Sul (Iguaçu)	65175000, 7970 km2 Divisa (Negro, Iguaçu)	-0.00094	0.86662	-0.00453	1.15125	0.86180
22-25	Iguaçu-Negro	65310000, 24211 km2 União da Vitória (Iguaçu)	65175000, 7970 km2 Divisa (Negro, Iguaçu)	0.00090	0.76368	-0.00511	1.30948	0.88779
26-22	Timbo-Iguaçu	65260000, 693 km2 Foz do Cachoeira (Timbo)	65310000, 24211 km2 União da Vitória (Iguaçu)	0.00362	0.61317	-0.00590	1.63088	0.84700
27-28	Jordao-Chopi	65825000, 3913 km2 Santa Clara (Jordao, Iguaçu)	65960000, 6696 km2 Aguas do Vere (Chopim, Iguaçu)	-0.00313	1.18238	0.00265	0.84575	0.89169
23-28	Iguaçu-Chopi	65895002, 45824 km2 Salto Osório (Iguaçu)	65960000, 6696 km2 Aguas do Vere (Chopim, Iguaçu)	0.00499	1.09337	-0.00457	0.91460	0.81439
31-1	Ribeira-Irarara	81200000, 7252 km2 Capela do Ribeira (Ribeira)	64242000, 1622 km2 Tamandua (Irarara)	-0.00542	1.50814	0.00359	0.66307	0.85131
32-33	Litoranea	82170000, 217 km2 Morretes	82195002, 53 km2 Morretes	-0.00205	1.55160	0.00132	0.64450	0.84590

Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

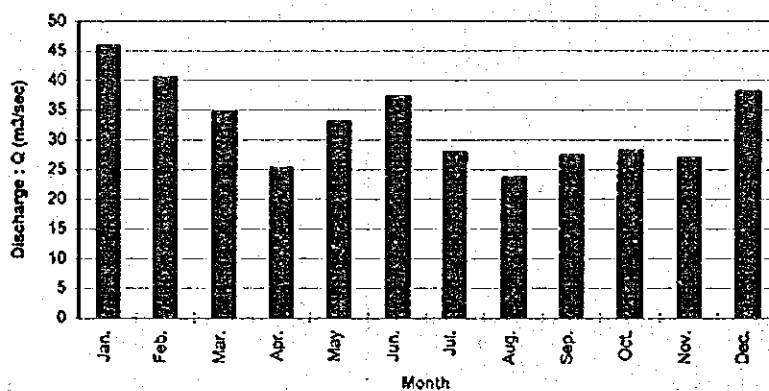
St. No. 64242000

St. Name Tamandua

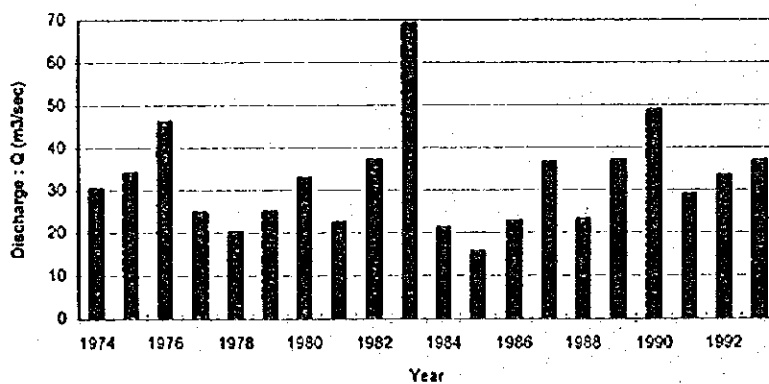
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	(66.70)	(37.79)	(52.90)	(24.16)	(17.51)	(42.98)	(24.41)	(16.00)	(12.13)	(20.69)	(16.10)	(36.37)	30.64
2 1975	(46.99)	(44.38)	(37.90)	(18.51)	(16.57)	(16.03)	(21.63)	(20.42)	(13.58)	(51.06)	(44.44)	(80.18)	34.31
3 1976	(72.29)	(80.54)	(39.88)	(26.98)	(29.74)	(44.21)	(32.14)	(57.61)	42.88	37.95	43.71	37.11	46.25
4 1977	43.20	39.41	25.01	38.75	20.48	21.43	19.00	14.92	16.66	17.88	19.24	25.41	25.03
5 1978	14.43	13.88	26.32	13.21	13.61	13.26	27.17	16.10	36.89	17.05	30.52	21.98	20.37
6 1979	24.52	18.23	21.09	12.64	32.26	16.79	16.40	20.73	38.95	37.67	35.33	28.69	25.28
7 1980	51.28	54.42	54.43	33.55	22.60	22.43	27.89	24.05	32.32	22.40	16.24	35.64	33.10
8 1981	59.67	30.96	22.34	18.32	17.06	14.61	12.51	12.96	11.30	21.47	18.91	31.43	22.63
9 1982	13.03	25.77	17.35	11.03	12.56	37.33	67.61	26.07	12.42	43.26	69.30	112.65	37.37
10 1983	67.85	47.36	61.34	47.32	107.25	201.71	67.59	39.44	78.22	52.94	34.97	35.64	69.30
11 1984	31.80	24.06	17.70	16.97	17.85	13.59	13.68	18.87	26.04	15.82	20.64	39.13	21.35
12 1985	16.19	21.01	20.73	19.80	18.64	18.59	18.12	9.14	12.68	8.86	17.08	8.90	15.81
13 1986	10.36	22.93	27.73	19.20	30.83	20.43	14.17	25.45	16.95	15.50	17.18	53.25	22.83
14 1987	28.76	69.75	23.74	22.07	78.61	68.72	30.41	21.17	21.67	24.45	32.66	19.48	36.79
15 1988	19.25	29.23	27.01	25.97	46.68	28.16	21.63	17.33	16.69	16.78	13.23	17.72	23.31
16 1989	73.21	65.08	36.90	24.65	22.70	21.77	32.31	27.68	33.94	21.46	19.69	67.24	37.21
17 1990	199.89	46.19	36.26	28.45	27.43	26.79	51.27	36.29	42.18	39.10	28.30	26.90	49.09
18 1991	22.71	27.52	56.35	30.43	31.35	27.95	21.84	18.70	20.06	30.92	20.73	41.29	29.15
19 1992	20.16	38.52	38.19	33.65	71.68	49.84	23.69	22.89	24.58	31.31	24.64	24.49	33.64
20 1993	37.44	75.65	53.00	41.40	28.21	41.23	27.46	20.45	39.98	39.93	19.20	21.31	37.11
Mean	45.99	40.58	34.81	25.35	33.18	37.39	28.05	23.81	27.51	28.32	27.10	38.24	32.53

(Note) (...): Correlated value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. Tamandua (Karare River)  
1974 - 1993 (20 Years)



Annual Mean Discharge  
St. No. 64242000 Tamandua (Karare River)  
1974 - 1993 (20 Years)



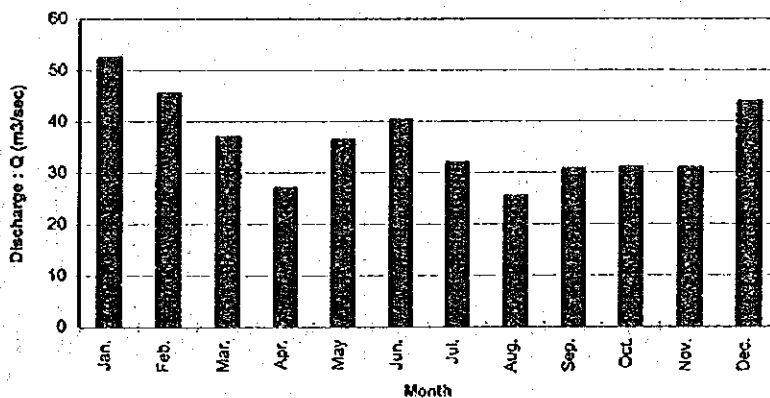
Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

St. No. 64360000

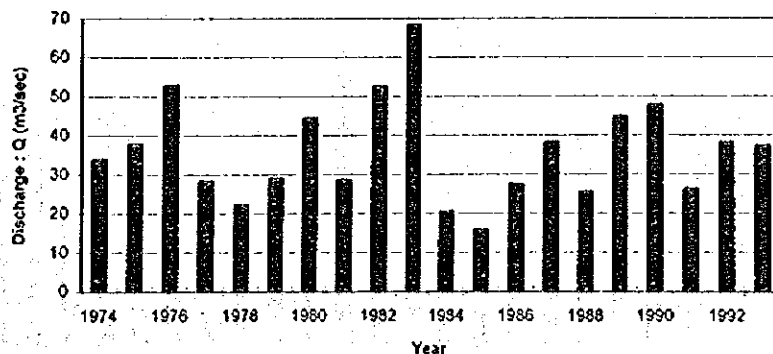
St. Name Tomazina

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	73.34	41.88	58.32	27.05	19.81	47.53	27.32	18.16	13.95	23.27	18.27	40.34	34.17
2 1975	51.89	49.05	42.00	20.90	18.79	18.20	24.29	22.98	15.53	58.32	49.12	88.02	38.06
3 1976	79.43	88.41	44.16	30.12	33.12	48.87	35.73	74.33	51.22	50.36	60.55	40.51	53.01
4 1977	55.38	50.36	30.52	47.63	22.13	24.25	19.16	14.44	16.14	15.22	20.38	26.85	28.54
5 1978	14.45	12.22	21.07	9.88	12.56	12.37	35.93	19.91	50.49	19.00	29.68	31.10	22.36
6 1979	30.26	16.72	16.59	10.27	32.38	16.37	18.09	24.40	53.82	49.73	41.23	40.52	29.20
7 1980	66.88	63.24	82.26	49.50	26.86	24.51	32.98	28.48	50.34	31.37	22.61	55.66	44.56
8 1981	95.84	38.81	22.33	20.01	19.11	15.40	11.98	10.26	8.38	23.86	25.89	52.52	28.70
9 1982	23.71	40.14	25.07	14.82	13.84	57.65	99.34	35.43	21.29	46.91	110.41	145.06	52.81
10 1983	71.98	47.04	64.91	53.45	109.07	200.71	63.63	31.21	70.94	49.68	30.93	28.80	68.55
11 1984	29.04	23.38	15.34	16.19	18.01	11.70	11.82	16.72	24.28	17.66	22.11	40.22	20.54
12 1985	20.66	20.38	21.43	28.04	22.67	17.30	15.40	9.55	9.65	7.29	11.09	7.90	15.95
13 1986	11.62	28.97	29.64	18.25	46.74	25.76	15.09	33.34	20.64	16.49	23.72	60.72	27.58
14 1987	27.97	81.63	28.34	21.12	75.49	77.36	34.89	21.45	19.40	21.16	29.41	22.48	38.35
15 1988	22.23	29.66	24.74	18.83	58.79	52.94	25.43	16.65	12.85	14.96	12.76	18.01	25.65
16 1989	102.03	87.44	47.06	27.28	21.73	23.48	33.08	33.81	52.74	26.44	21.24	63.88	45.02
17 1990	190.04	38.30	24.67	22.43	27.73	25.75	66.56	44.93	46.96	37.08	28.17	23.09	47.98
18 1991	19.89	29.15	48.62	23.43	25.67	22.27	20.39	16.98	12.04	28.67	21.04	48.81	26.41
19 1992	21.26	29.11	45.73	49.16	101.58	47.96	25.81	20.25	26.10	43.63	25.37	22.15	38.18
20 1993	45.00	95.99	48.99	33.88	23.27	38.31	24.28	17.25	38.74	43.20	17.18	22.41	37.38
Mean	52.65	45.59	37.09	27.11	36.47	40.43	32.06	25.53	30.78	31.13	31.06	43.95	36.15

Mean Monthly Discharge  
St. No. 64360000 Tomazina (Cinzas River)  
1974 - 1993 (20 Years)



Annual Mean Discharge  
St. No. 64360000 Tomazina (Cinzas River)  
1974 - 1993 (20 Years)

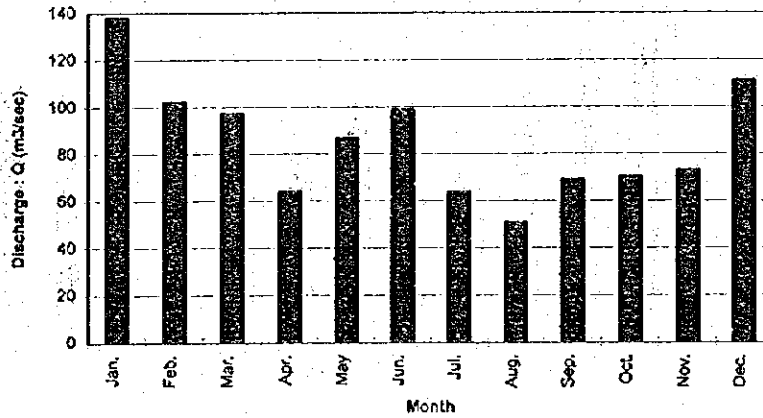




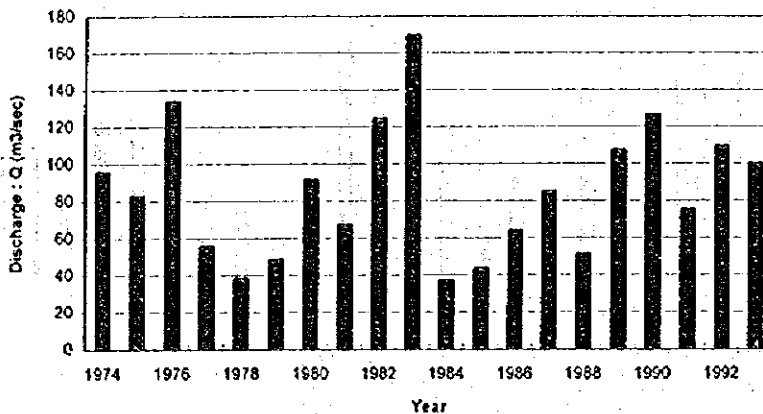
Monthly Mean Discharge Table Period 1974 - 1993 (20 years)  
 St. No. 64370000  
 St. Name Andira

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	209.90	100.44	213.58	70.10	49.04	123.16	60.09	35.17	31.03	72.98	50.52	134.63	95.89
2 1975	137.63	88.11	82.99	38.31	30.31	27.76	37.60	34.25	21.75	148.78	102.33	247.22	83.09
3 1976	170.99	177.15	114.98	70.37	87.08	158.79	80.76	199.36	138.68	155.94	100.37	134.16	134.16
4 1977	154.44	103.92	49.49	101.63	37.55	40.67	31.17	22.26	25.22	24.88	33.30	48.02	56.05
5 1978	24.99	16.59	40.02	16.01	20.08	18.65	69.88	28.94	91.08	29.98	55.59	51.12	38.58
6 1979	41.13	34.11	28.82	15.36	46.60	25.48	25.79	39.00	97.33	82.95	76.76	74.76	49.01
7 1980	130.04	136.43	224.56	96.54	47.12	44.82	64.18	44.10	81.85	50.61	28.54	144.31	91.93
8 1981	234.18	73.44	38.28	52.33	31.98	28.63	20.30	17.04	13.75	50.27	71.52	179.14	67.57
9 1982	50.50	117.12	57.30	29.84	29.42	155.69	214.45	59.90	34.85	82.86	253.54	410.57	124.67
10 1983	189.49	96.66	141.12	91.83	330.09	582.99	131.30	58.94	191.53	102.55	70.63	50.70	169.82
11 1984	55.53	51.12	26.57	29.02	34.98	20.04	18.13	24.31	38.55	26.49	31.40	90.65	37.23
12 1985	58.42	47.00	90.15	94.44	89.60	38.08	28.34	18.17	16.97	12.02	22.16	12.66	44.00
13 1986	19.80	69.78	76.17	54.56	116.78	54.93	25.79	77.77	46.05	37.49	40.13	151.25	64.21
14 1987	52.78	165.54	48.92	33.26	171.34	196.56	69.02	37.12	36.47	45.99	121.82	44.95	85.31
15 1988	51.330	51.59	47.95	34.78	125.12	114.01	39.35	24.92	20.36	43.51	31.37	32.68	51.41
16 1989	312.42	158.83	122.06	49.97	41.65	39.64	72.67	80.67	164.12	54.89	75.32	118.79	107.59
17 1990	589.46	86.32	55.20	57.93	60.11	48.75	149.3	109.13	105.12	112.69	80.47	68.16	126.72
18 1991	72.04	127.97	165.26	69.19	58.38	54.82	44.13	35.29	22.76	59.43	44.36	154.33	75.65
19 1992	43.71	68.47	209.62	180.89	279.87	104.40	52.67	38.76	96.78	111.79	71.83	59.83	109.89
20 1993	165.87	277.61	117.71	99.56	51.79	105.43	46.37	35.93	110.78	103.55	37.82	53.01	100.45
Mean	138.23	102.41	97.54	64.30	66.94	99.06	64.07	51.05	69.25	70.48	73.24	111.36	85.66

Monthly Mean Discharge  
 St. No. 64370000 Andira (Cinzas River)  
 1974 - 1993 (20 Years)



Annual Mean Discharge  
 St. No. 64370000 Andira (Cinzas River)  
 1974 - 1993 (20 Years)



Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

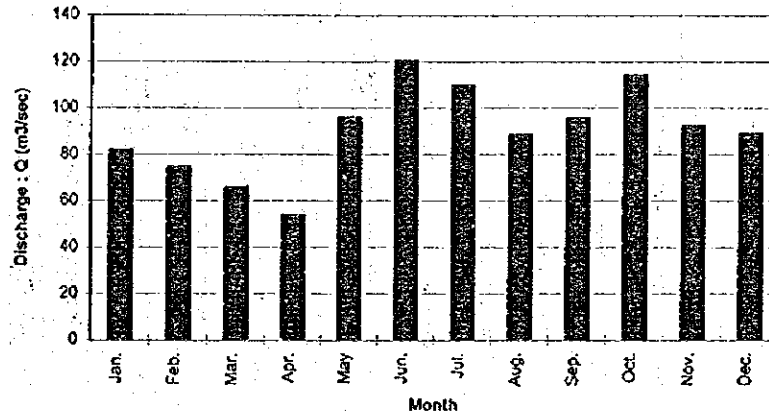
St. No. 64444000

St. Name uvala

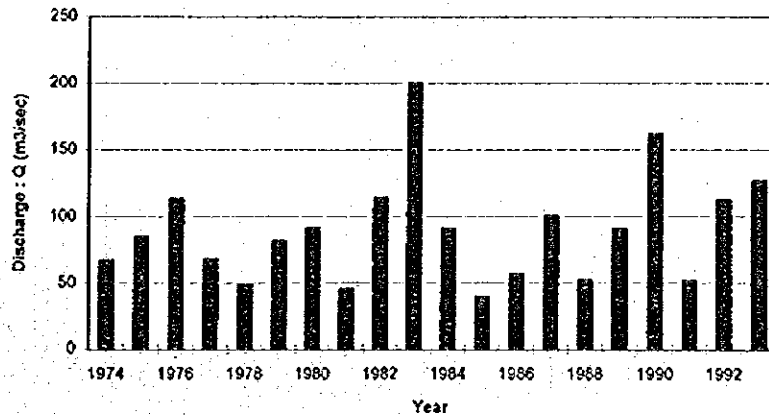
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	(145.74)	105.15	96.10	54.60	33.34	67.00	63.10	35.33	68.88	45.12	58.72	34.47	67.38
2 1975	41.97	46.36	78.77	38.74	28.83	34.57	51.42	95.75	73.79	232.49	121.37	180.57	85.22
3 1976	106.84	93.37	85.17	68.06	54.58	238.97	90.02	172.81	131.02	87.16	126.22	112.60	113.90
4 1977	93.71	183.13	78.02	99.96	43.32	38.88	35.74	30.19	26.64	57.18	56.51	79.87	68.60
5 1978	30.72	22.51	33.23	20.57	20.42	31.20	68.15	112.15	101.17	44.47	61.37	50.42	49.70
6 1979	40.58	21.08	25.10	15.77	139.94	47.17	31.06	38.97	139.26	173.23	202.33	114.09	82.30
7 1980	69.74	78.35	68.45	65.17	40.45	38.53	131.99	115.18	190.77	162.13	72.97	70.30	92.00
8 1981	143.85	81.49	36.18	24.56	31.69	21.74	17.74	15.68	14.57	32.66	49.64	83.05	46.07
9 1982	31.89	39.39	29.61	20.15	17.67	91.09	336.54	101.81	41.40	141.69	261.04	259.46	114.31
10 1983	114.75	82.89	197.95	104.87	308.19	448.15	489.59	133.98	163.52	209.08	96.05	56.72	200.49
11 1984	48.12	47.58	37.89	53.45	111.51	124.53	89.90	112.82	106.08	105.97	134.30	126.16	91.53
12 1985	72.27	47.93	41.02	100.20	46.43	32.38	28.40	18.21	27.14	20.96	29.64	14.73	39.94
13 1986	24.44	41.94	32.96	30.08	77.16	60.57	25.49	43.30	40.74	54.65	64.09	192.50	57.33
14 1987	155.06	102.71	38.73	35.77	287.70	224.31	101.60	66.24	49.20	68.05	48.07	34.31	100.98
15 1988	27.26	35.80	33.75	29.65	141.78	174.65	61.38	28.89	28.40	31.62	21.09	16.97	52.60
16 1989	72.24	137.43	74.67	55.51	159.77	46.49	51.37	126.51	207.49	86.47	45.23	29.83	91.08
17 1990	303.71	152.47	57.91	57.54	73.99	126.73	190.20	232.96	276.47	198.43	202.24	75.48	162.34
18 1991	33.85	48.43	45.81	33.44	34.87	69.43	93.14	45.12	24.87	74.15	63.65	58.34	52.09
19 1992	43.91	34.42	92.54	117.59	146.06	353.02	128.28	167.00	94.00	80.17	59.07	39.54	112.97
20 1993	39.87	97.54	134.92	54.96	127.93	144.24	118.00	81.25	114.62	381.96	78.20	155.75	127.44
Mean	82.08	75.00	65.94	54.03	96.18	120.68	110.16	88.71	95.95	114.38	92.59	89.26	90.41

(Note) (...): Correlated Value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. 64444000 Uvala (Tibagi River)  
1974 - 1993 (20 Years)



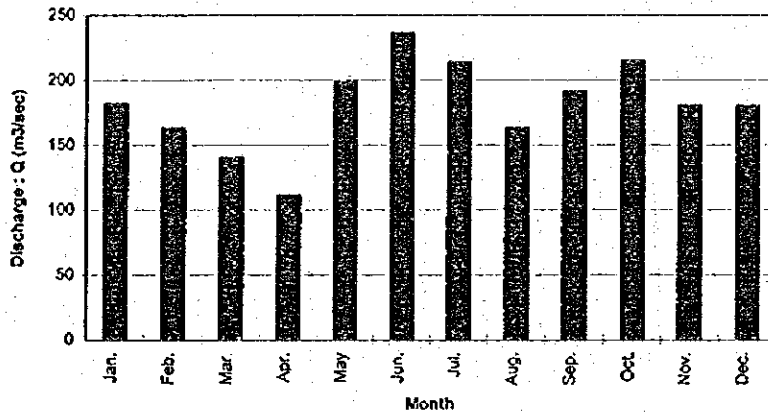
Annual Mean Discharge  
St. No. 64444000 Uvala (Tibagi River)  
1974 - 1993 (20 Years)



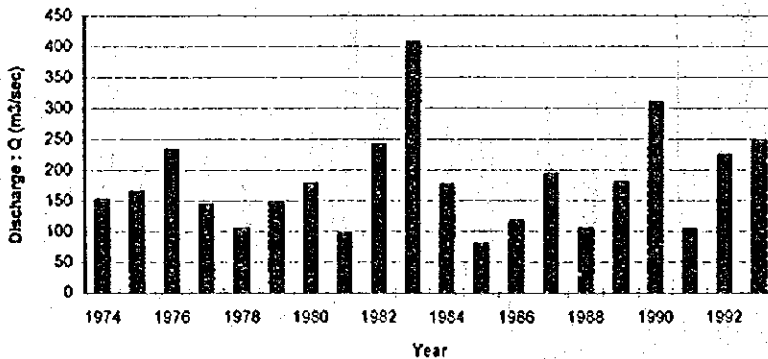
Monthly Mean Discharge Table Period 1974 - 1993 (20 years)  
 St. No. 64465000  
 St. Name Tibagi

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	288.06	196.17	202.14	108.99	75.17	164.46	132.08	99.45	182.82	143.05	154.14	92.89	153.12
2 1975	91.73	107.25	151.35	79.54	61.13	82.37	112.04	169.07	116.77	386.51	256.84	382.45	166.42
3 1976	280.57	264.58	179.66	142.54	143.96	431.60	175.57	326.24	270.84	165.56	226.01	209.61	234.73
4 1977	218.70	355.13	172.88	227.36	89.78	79.94	81.76	69.30	57.46	111.13	110.06	166.05	144.96
5 1978	69.04	48.77	63.38	38.94	47.55	60.99	189.35	193.22	273.39	88.74	106.69	91.65	105.97
6 1979	69.49	42.57	44.77	24.38	229.65	88.39	66.05	72.58	272.68	314.33	343.08	217.31	148.77
7 1980	157.24	146.29	162.86	131.66	85.43	82.98	229.97	198.93	338.78	253.49	121.23	239.43	179.02
8 1981	319.50	164.43	82.58	58.70	71.76	50.19	37.38	27.32	20.26	80.06	99.63	169.43	98.29
9 1982	75.06	111.40	75.52	42.63	31.66	264.67	650.08	195.03	91.11	307.03	542.84	525.92	242.75
10 1983	257.97	179.62	368.77	232.94	706.03	990.06	843.08	214.07	389.38	401.20	189.22	124.18	408.04
11 1984	103.63	103.20	93.99	123.59	210.19	202.13	155.04	189.00	204.12	191.68	292.56	262.35	177.71
12 1985	142.74	102.76	91.36	172.36	109.87	81.21	61.48	37.95	52.06	38.07	54.15	23.10	80.59
13 1986	44.17	110.72	105.08	73.18	196.59	131.99	63.88	107.13	81.78	102.06	109.98	296.62	118.60
14 1987	220.47	273.00	94.25	82.09	550.29	394.65	197.52	122.53	108.93	125.37	95.22	72.61	194.74
15 1988	56.56	82.41	77.54	64.09	299.99	311.37	125.95	68.22	55.85	56.37	40.52	30.81	105.81
16 1989	220.59	284.63	152.00	102.25	264.79	95.36	143.36	256.91	314.38	152.87	88.82	91.69	180.97
17 1990	770.98	277.74	121.56	104.03	133.30	200.35	376.10	387.34	480.30	371.73	364.30	138.63	310.53
18 1991	73.14	104.18	99.92	69.37	68.09	131.14	151.85	93.76	52.37	150.13	133.70	130.60	104.85
19 1992	87.41	72.01	203.64	219.22	377.00	570.41	247.42	288.81	212.30	193.49	134.51	99.29	225.43
20 1993	103.57	242.56	271.19	135.12	219.38	311.19	234.87	155.37	258.28	669.75	151.67	242.84	249.65
Mean	182.43	163.47	140.72	111.55	198.58	236.47	213.79	163.61	191.69	215.13	180.77	180.37	181.55

Monthly Mean Discharge  
 St. No. 64465000 Tibagi (Tibagi River)  
 1974 - 1993 (20 Years)



Annual Mean Discharge  
 St. No. 64465000 Tibagi (Tibagi River)  
 1974 - 1993 (20 years)



Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

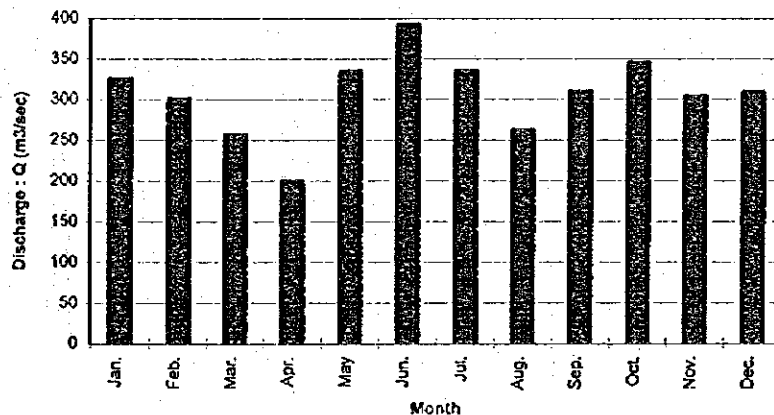
St. No. 64491000

St. Name Barra Ribeiro das Antas

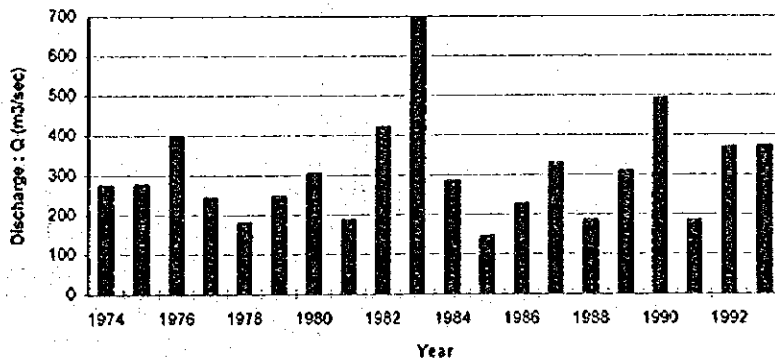
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	(516.69)	(348.00)	(417.81)	187.71	133.07	303.79	227.08	163.36	319.06	251.79	257.01	187.26	276.05
2 1975	193.28	234.40	248.60	149.71	122.74	152.84	201.03	266.61	166.39	585.51	419.69	593.63	277.87
3 1976	505.21	497.37	329.09	247.02	231.69	676.54	299.8	542.21	446.49	289.81	385.66	348.76	399.97
4 1977	414.81	528.07	273.41	376.87	159.84	149.70	146.74	117.11	109.43	189.61	184.43	291.6	245.14
5 1978	126.97	86.82	115.66	69.79	97.33	95.40	320.78	298.54	469.71	152.85	183.92	(156.06)	181.15
6 1979	126.38	(92.09)	(86.08)	(48.81)	368.78	143.54	115.79	139.36	472.37	501.44	525.60	364.89	248.76
7 1980	284.53	264.73	309.45	246.18	162.30	146.01	364.39	308.18	539.44	375.62	196.16	479.22	306.36
8 1981	544.87	292.40	161.02	114.27	130.36	91.63	64.75	53.48	45.4	181.21	204.05	378.56	188.50
9 1982	188.81	249.88	162.66	89.98	69.65	477.08	1008.23	327.77	153.35	492.36	993.11	855.08	422.34
10 1983	454.48	(335.55)	605.63	422.16	1184.56	1808.41	1280.33	371.19	682.37	648.59	(364.25)	233.17	699.22
11 1984	192.35	193.91	160.07	(217.16)	342.42	287.20	231.50	277.76	337.31	302.68	473.11	422.28	286.48
12 1985	233.41	188.30	194.08	297.17	210.55	155.05	113.91	70.97	91.59	61.22	93.02	47.23	146.38
13 1986	71.46	272.80	242.38	150.75	386.19	244.07	110.76	261.93	155.52	169.41	200.49	465.46	227.60
14 1987	335.20	535.95	184.55	161.6	871.63	657.33	337.08	199.53	182.24	204.95	176.34	130.85	331.44
15 1988	110.86	185.95	180.23	116.97	524.32	494.99	203.75	106.91	88.14	91.43	70.85	59.62	186.17
16 1989	471.73	507.08	280.89	182.60	381.24	178.75	235.16	416.51	479.51	252.43	151.52	187.09	310.38
17 1990	1265.18	441.63	219.95	182.48	238.33	311.12	597.06	578.80	714.35	590.23	546.81	237.03	493.58
18 1991	128.44	195.48	188.65	129.97	127.96	205.83	236.24	157.96	86.90	291.93	225.30	249.27	185.33
19 1992	157.18	142.65	386.61	398.73	683.86	834.15	358.72	390.64	317.95	346.06	240.69	177.87	369.59
20 1993	221.03	450.79	405.35	234.09	299.58	469.19	(285.49)	227.56	373.65	953.33	214.02	353.87	374.00
Mean	327.14	302.20	257.61	201.20	336.32	394.13	336.93	263.82	311.56	346.62	305.30	310.94	307.81

(Note) (...): Correlated value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. 64491000 Barra Ribeiro das Antas (Tibagi River)  
1974 - 1993 (20 Years)



Annual Mean Discharge  
St. No. 64491000 Barra Ribeiro das Antas (Tibagi River)  
1974 - 1993 (20 years)



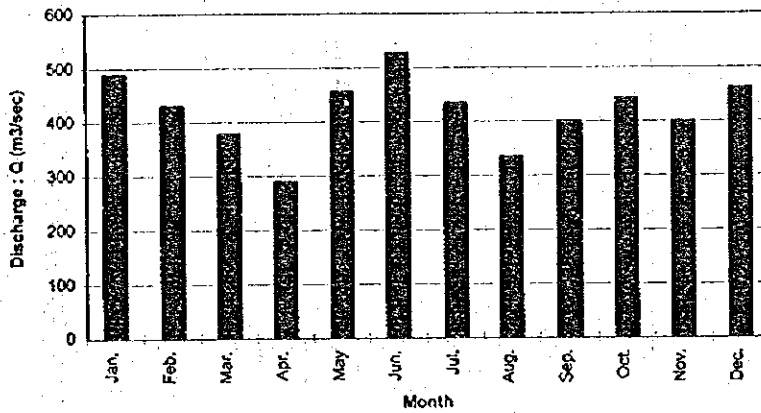
Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

St. No. 64507011

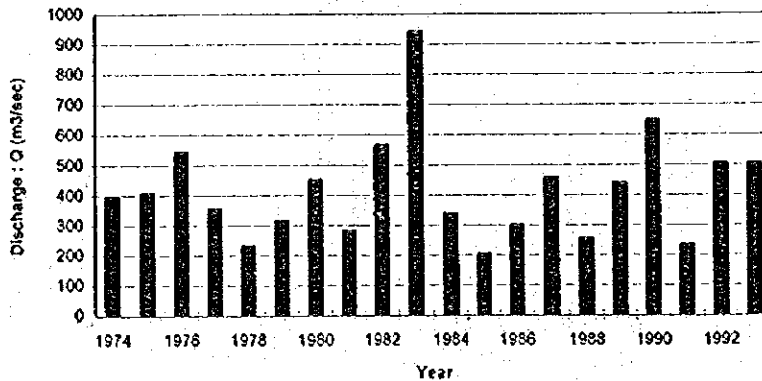
St. Name Jataizinho (Extendido)

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	702.83	475.47	569.56	298.82	214.24	482.61	326.61	243.37	381.86	384.26	339.89	342.88	396.87
2 1975	383.82	356.80	394.04	213.67	164.02	195.56	273.30	314.67	189.83	731.96	672.70	1027.52	409.82
3 1976	704.08	720.98	452.42	328.77	325.69	843.06	379.52	721.74	583.92	442.60	555.10	491.90	545.82
4 1977	696.60	715.83	386.03	552.04	229.14	247.91	212.45	169.61	156.95	236.37	241.53	435.18	356.64
5 1978	175.22	124.21	156.71	90.51	107.04	109.18	444.43	347.32	600.78	198.40	223.60	216.76	232.85
6 1979	163.39	130.54	122.44	72.21	442.64	193.73	148.60	184.47	602.28	629.02	641.47	476.26	317.25
7 1980	459.66	442.69	612.48	418.05	252.06	210.74	471.26	398.46	707.69	472.48	260.28	712.00	452.32
8 1981	859.44	429.30	242.79	179.90	182.52	132.04	93.20	76.68	54.69	246.13	295.93	610.64	283.61
9 1982	320.30	354.83	277.37	143.18	102.40	589.62	1307.93	432.07	213.95	582.26	1261.71	1238.83	568.70
10 1983	632.42	458.68	848.61	527.50	1580.03	2595.82	1561.87	490.17	967.95	830.79	497.37	340.45	944.31
11 1984	253.38	250.60	195.04	299.11	432.69	323.30	272.44	299.12	390.89	354.33	496.21	514.46	340.13
12 1985	294.20	239.73	277.55	411.27	357.25	240.60	165.02	106.31	122.56	78.65	115.29	59.52	205.66
13 1986	81.48	360.52	359.53	214.17	513.39	319.43	155.78	350.24	205.40	217.74	255.65	607.99	303.44
14 1987	444.90	758.26	270.53	233.63	1174.06	932.65	441.16	260.17	216.81	240.48	326.16	232.28	460.92
15 1988	183.35	252.78	292.67	166.03	690.02	656.53	282.24	160.92	120.12	119.51	94.65	78.73	258.13
16 1989	725.56	736.87	423.45	257.63	452.09	241.57	288.44	519.02	648.03	332.71	204.88	486.08	443.03
17 1990	1922.78	603.06	308.70	245.01	301.97	351.38	769.77	715.26	870.16	764.70	665.67	313.10	652.63
18 1991	193.07	270.57	259.76	177.41	152.46	245.26	289.31	191.79	103.58	330.14	263.98	360.65	237.33
19 1992	207.42	207.68	597.35	602.25	1087.25	1049.26	438.06	444.17	401.64	467.76	324.38	258.90	507.18
20 1993	388.64	729.49	540.95	374.19	361.25	602.24	391.21	277.33	491.58	1200.35	281.23	440.13	506.55
Mean	489.63	430.94	379.40	290.27	457.11	528.12	435.63	335.14	401.53	443.03	400.88	462.21	421.16

Monthly Mean Discharge  
St. No. 64507011 Jataizinho (Extendido) (Tibagi River)  
1974 - 1993 (20 Years)



Annual Mean Discharge  
St. No. 64507011 Jataizinho (Extendido) (Tibagi River)  
1974 - 1993 (20 Years)



Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

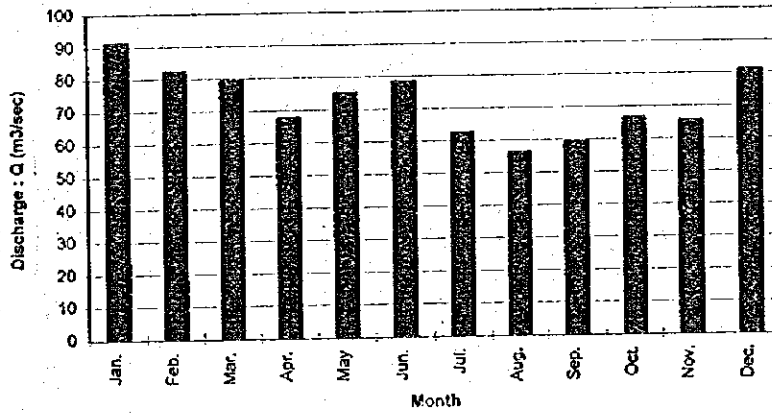
St. No. 64550000

St. Name Vila Silva Jardim

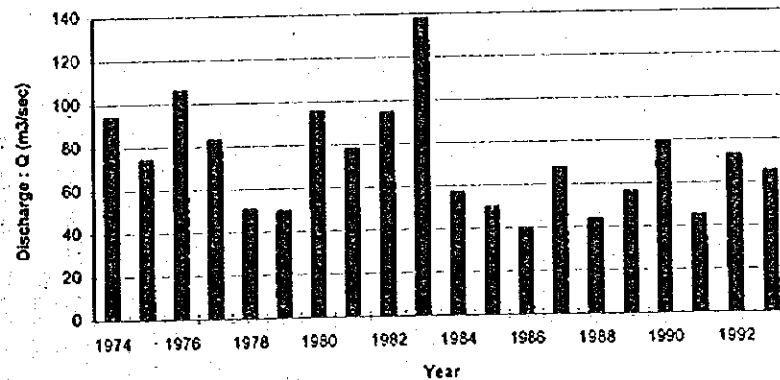
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	182.14	127.19	116.01	96.91	84.92	96.81	71.27	60.35	52.32	89.05	73.73	83.33	94.50
2 1975	86.95	82.97	78.83	63.10	57.99	51.67	54.43	47.07	42.08	91.08	96.99	139.84	74.25
3 1976	132.48	113.93	87.60	81.38	81.23	108.82	74.69	139.08	108.99	126.08	112.37	109.65	106.36
4 1977	155.22	119.43	88.79	97.92	67.79	78.40	63.66	53.23	55.14	48.14	61.73	109.51	83.25
5 1978	72.81	53.49	57.04	42.83	43.29	38.56	70.07	43.15	59.59	42.99	44.96	42.53	50.94
6 1979	39.12	59.36	40.98	39.31	47.20	36.69	38.51	33.11	54.44	70.81	59.81	79.70	49.92
7 1980	78.75	94.61	153.43	122.63	107.93	84.33	76.59	69.61	92.56	87.67	72.82	107.70	95.72
8 1981	116.61	94.87	89.67	83.45	68.83	66.94	54.36	45.57	39.01	66.67	78.32	137.70	78.33
9 1982	95.26	88.71	91.21	61.25	50.29	93.89	119.41	73.73	58.01	81.49	117.49	207.76	94.88
10 1983	209.97	110.44	199.32	102.52	127.36	268.26	121.44	101.62	94.38	116.72	112.88	91.01	137.99
11 1984	80.37	66.52	65.47	75.15	66.40	51.44	43.57	41.74	51.95	43.74	36.34	64.39	57.26
12 1985	60.38	54.55	60.25	68.19	84.54	64.03	52.27	41.49	35.70	30.78	28.10	21.87	50.26
13 1986	22.74	57.09	48.79	39.25	57.25	39.10	32.03	45.65	35.84	30.21	26.62	46.65	40.10
14 1987	43.99	67.82	38.36	38.94	101.48	106.32	78.63	57.90	50.37	47.40	105.66	79.39	68.02
15 1988	57.38	50.15	58.39	40.09	68.11	66.19	41.99	32.96	28.59	37.78	25.02	21.23	43.99
16 1989	83.82	(98.62)	59.68	48.02	43.22	43.98	34.58	51.96	83.95	46.92	43.05	41.77	56.63
17 1990	166.36	89.19	71.19	60.73	61.61	50.22	66.24	67.46	90.87	93.75	75.39	62.17	79.60
18 1991	65.88	71.68	55.63	48.04	39.20	44.45	35.76	29.23	25.11	27.00	39.32	62.35	45.39
19 1992	29.13	39.60	58.02	73.19	185.79	114.25	76.66	59.14	76.89	63.22	54.06	46.37	73.03
20 1993	50.02	108.22	72.64	75.70	60.59	65.55	45.61	36.27	53.92	94.17	51.49	71.28	65.46
Mean	91.47	82.42	79.47	67.93	75.25	78.50	62.64	56.52	59.54	65.78	65.71	81.31	72.29

(Note) (...): Correlated value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. 64550000 Vila Silva Jardim (Tibagi River)  
1974 - 1993 (20 Years)



Annual Mean Discharge  
St. No. 64550000 Vila Silva Jardim (Tibagi River)  
1974 - 1993 (20 years)



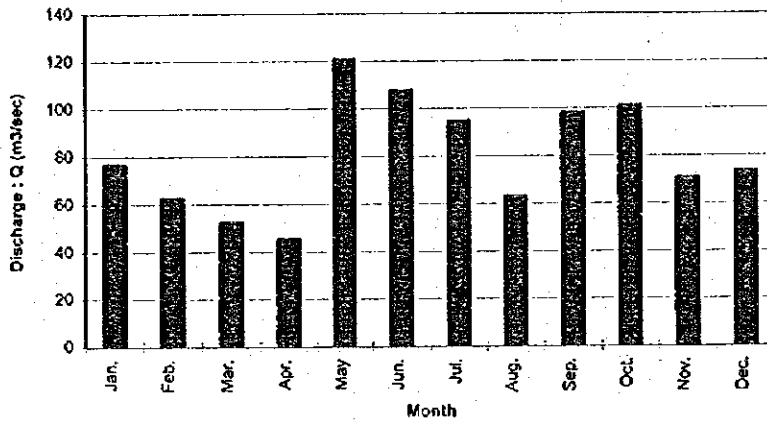
Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

St. No. 64625000  
St. Name Tereza Cristina

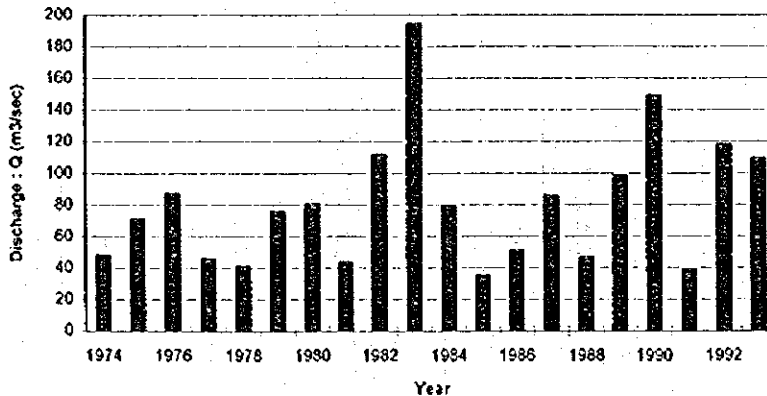
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	121.33	59.45	58.65	22.84	14.45	58.28	23.54	41.32	45.43	62.04	42.96	29.82	48.34
2 1975	27.59	38.96	53.51	25.04	18.18	28.19	25.92	77.88	79.10	213.89	116.55	151.65	71.37
3 1976	103.77	61.64	55.28	40.81	77.38	159.36	35.49	107.99	137.64	45.91	92.16	133.95	87.62
4 1977	92.21	133.11	44.42	44.21	14.88	28.05	20.95	14.43	14.29	44.90	36.43	65.41	45.94
5 1978	14.59	14.62	(17.77)		14.70	19.10	150.31	75.30	102.89	21.25	31.28	33.37	45.02
6 1979	26.97	24.77	17.34	9.27	125.95	17.91	17.62	49.01	213.75	177.12	171.22	64.05	76.25
7 1980	59.66	39.03	52.00	35.71	33.30	44.87	103.26	97.00	242.30	97.75	38.27	127.39	80.88
8 1981	103.85	67.49	27.89	22.82	28.69	16.79	10.78	8.06	9.82	52.04	42.47	137.38	44.01
9 1982	24.80	20.81	12.03	8.43	9.14	292.83	297.29	44.19	19.71	161.54	301.04	152.29	112.01
10 1983	106.19	89.08	223.45	131.71	359.31	440.75	367.63	63.43	254.49	200.61	63.52	36.62	194.73
11 1984	37.78	41.57	67.88	92.31	85.93	87.95	38.35	101.20	119.00	38.50	107.60	139.51	79.80
12 1985	31.79	32.72	32.23	158.59	44.67	27.19	22.44	9.79	24.76	12.61	20.84	8.13	35.48
13 1986	16.14	52.92	47.29	23.90	139.90	37.84	11.54	45.23	34.17	35.31	29.20	143.54	51.42
14 1987	51.78	140.26	21.07	22.77	448.98	137.55	59.12	32.59	25.54	41.20	33.80	20.21	86.24
15 1988	24.13	45.76	39.63	29.72	257.44	88.14	29.76	13.52	10.05	13.78	7.40	7.28	47.22
16 1989	188.97	192.83	87.55	45.65	153.38	22.46	102.05	85.62	184.00	68.46	29.92	24.10	98.83
17 1990	427.44	40.02	24.91	36.93	66.71	119.00	301.78	211.95	208.52	244.66	85.55	23.70	149.26
18 1991	12.17	14.75	19.46	25.55	15.93	121.61	39.90	24.90	12.85	73.58	58.43	49.58	39.06
19 1992	(22.27)	(19.59)	(84.90)	(97.63)	(361.58)	(287.88)	(116.70)	(109.95)	(92.49)	(105.35)	(76.61)	(45.51)	118.37
20 1993	(47.42)	(127.13)	(70.23)	(44.15)	(152.03)	(126.66)	(126.73)	(53.55)	(138.54)	(313.31)	(36.06)	(81.44)	109.77
Mean	77.04	62.83	52.88	48.32	121.13	108.02	95.06	63.40	98.47	101.19	71.07	73.75	81.08

(Note) (...): correlated value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. 64625000 Tereza Cristina (Ival River)  
1974 - 1993 (20 Years)



Annual Mean Discharge  
St. No. 64625000 Tereza Cristina (Ival River)  
1974 - 1993 (20 Years)



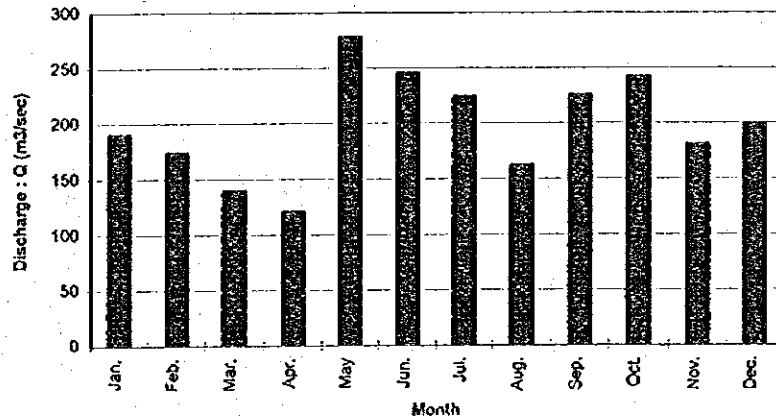
Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

St. No. 64645000

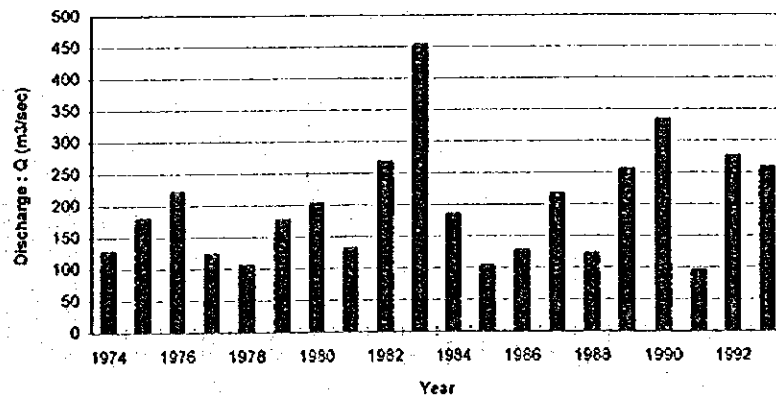
St. Name Porto Espanhol

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	236.70	155.08	146.82	69.68	51.92	109.57	78.12	123.06	150.90	159.69	141.84	116.33	128.1
2 1975	116.32	167.93	143.80	67.81	52.10	78.85	67.64	162.84	142.24	493.56	286.66	388.51	180.1
3 1976	300.22	178.50	133.65	94.36	153.36	415.60	98.76	229.81	297.21	141.10	235.46	389.67	222.1
4 1977	291.43	288.19	126.14	129.66	50.55	89.82	69.61	45.71	48.40	110.89	84.57	148.05	123.1
5 1978	47.91	28.20	68.36	30.85	40.66	44.96	348.70	189.11	247.79	73.43	79.20	79.45	106.1
6 1979	56.46	73.80	61.78	29.51	257.08	58.64	49.32	146.67	466.20	364.38	384.96	187.48	178.1
7 1980	172.48	114.86	156.20	107.49	124.87	112.10	229.70	238.89	470.66	268.36	114.98	329.56	203.1
8 1981	279.49	220.06	87.85	73.14	74.99	52.33	32.49	26.19	23.65	175.54	126.83	413.69	132.1
9 1982	120.93	67.19	36.26	24.69	24.97	503.33	686.74	165.29	68.76	355.54	700.39	473.08	268.1
10 1983	288.54	209.79	549.09	329.17	929.18	904.27	771.45	145.74	544.92	467.41	201.02	106.69	453.1
11 1984	103.17	136.75	97.44	178.28	222.96	163.91	97.98	194.22	256.18	143.63	258.96	375.36	185.1
12 1985	111.86	93.14	106.80	353.92	194.91	130.56	88.67	39.49	47.39	28.70	39.55	18.19	104.1
13 1986	30.81	146.13	123.79	112.93	307.42	140.28	50.64	166.94	95.71	82.65	58.39	229.07	128.1
14 1987	126.73	442.46	80.55	84.62	892.15	350.96	162.64	90.28	67.81	102.83	141.02	73.95	218.0
15 1988	81.08	110.98	119.22	90.41	517.28	268.95	106.96	50.36	31.21	50.71	21.17	21.99	122.1
16 1989	402.64	497.14	265.83	143.98	332.10	80.15	241.64	309.30	436.02	191.12	97.44	72.35	255.1
17 1990	799.19	130.24	69.63	91.16	167.12	286.49	634.05	438.53	540.44	527.81	249.40	83.08	334.1
18 1991	43.23	55.20	47.22	55.92	44.21	208.20	110.62	88.89	39.73	185.67	108.62	163.25	95.1
19 1992	77.68	72.12	207.53	233.91	781.14	628.34	273.46	259.45	223.25	249.92	190.34	125.85	276.1
20 1993	129.82	295.07	177.10	123.04	346.70	294.09	294.24	142.52	318.73	681.06	106.26	200.36	259.0
Mean	190.83	174.14	140.26	121.24	278.28	246.07	224.57	162.66	225.85	242.70	181.35	199.80	198.9

Monthly Mean Discharge  
St. No. 64645000 Porto Espanhol (Ival river)  
1974 - 1993 (20 years)



Annual Mean Discharge  
St. No. 64645000 Porto Espanhol (Ival River)  
1974 - 1993 (20 years)





Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

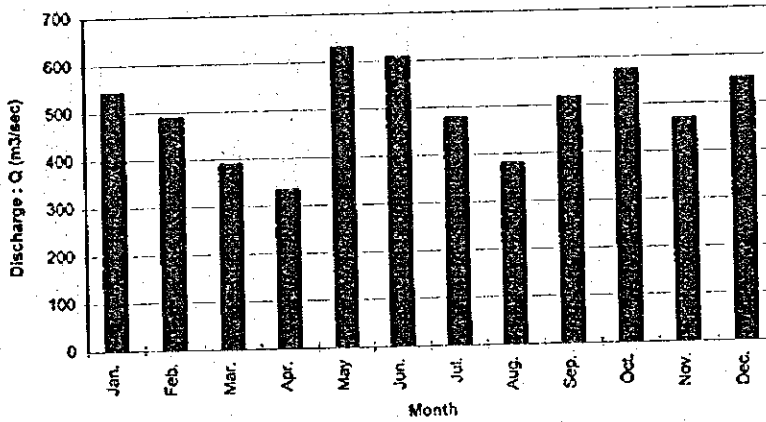
St. No. 64675002

St. Name Porto Bananeiras

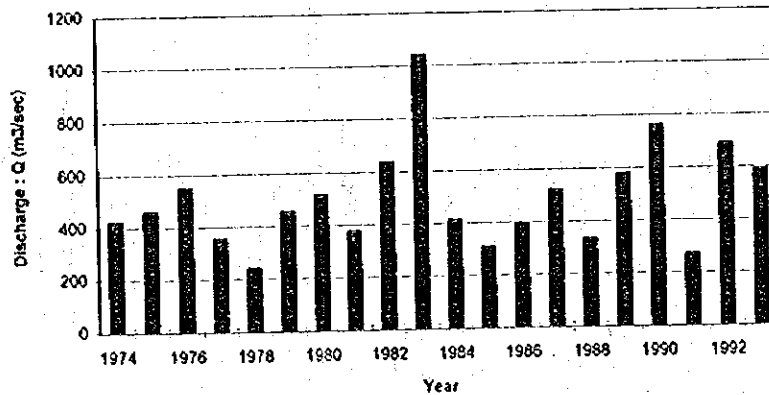
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	(853.25)	642.13	368.86	189.65	145.25	536.56	241.13	259.74	392.89	601.23	448.66	418.73	424.86
2 1975	433.75	625.41	402.39	196.06	170.23	208.32	231.10	327.40	208.02	960.29	672.55	1109.63	452.10
3 1976	921.35	648.70	347.43	263.74	400.48	925.96	267.56	577.11	532.88	342.42	554.30	842.39	552.03
4 1977	982.03	626.95	295.49	346.67	144.23	325.02	204.74	120.34	133.12	235.37	270.74	584.08	355.73
5 1978	173.08	99.76	151.77	78.48	83.22	85.46	639.58	340.24	654.68	171.14	229.57	203.60	242.97
6 1979	155.79	221.10	154.78	93.20	689.07	179.62	159.24	438.53	1103.04	858.74	785.56	635.79	456.21
7 1980	515.35	362.48	688.82	381.76	444.85	324.97	540.76	478.63	879.51	522.45	271.50	809.60	518.22
8 1981	734.04	528.35	283.36	270.76	236.82	183.62	130.42	101.08	76.97	548.82	341.16	1115.50	379.24
9 1982	395.01	257.92	182.42	105.69	82.45	1061.71	1443.59	421.14	196.64	810.29	1546.26	1172.55	639.64
10 1983	590.46	489.29	1371.79	884.99	1889.97	2256.97	1355.35	370.60	1274.80	1038.62	636.52	358.18	1041.45
11 1984	293.72	375.36	203.55	401.80	524.81	291.83	217.23	291.17	536.02	364.63	567.19	914.69	415.17
12 1985	359.76	305.16	406.13	714.87	694.12	407.76	272.33	144.74	158.32	91.79	104.43	53.56	369.41
13 1986	71.11	518.88	415.47	346.29	949.46	528.92	180.48	664.05	253.44	185.61	171.72	503.13	399.05
14 1987	262.52	1201.28	240.66	255.77	1633.70	716.95	417.18	223.91	180.25	221.40	619.43	283.55	523.05
15 1988	261.19	303.93	324.54	281.17	1006.28	1093.40	250.37	158.26	111.44	102.18	76.48	58.02	335.61
16 1989	1078.30	1088.67	562.91	367.25	579.52	222.19	407.57	727.29	996.35	462.72	264.05	216.62	581.12
17 1990	1884.85	320.51	229.73	222.28	444.27	562.25	1164.30	880.34	1264.07	1274.71	635.70	278.40	763.45
18 1991	176.23	220.51	223.55	151.47	136.75	355.57	274.62	248.55	125.78	493.24	312.54	569.70	274.04
19 1992	233.25	219.29	596.19	779.72	1795.09	1214.69	603.24	524.75	599.78	832.84	566.23	341.94	692.25
20 1993	476.60	743.51	355.70	390.01	578.66	709.72	587.28	339.17	674.99	1364.48	317.72	578.60	593.04
Mean	543.58	489.96	390.28	335.08	631.71	609.57	479.40	381.75	517.65	574.15	469.63	552.41	497.93

(Note) (...): correlated value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. 64675002 Porto Bananeiras (Ival River)  
1974 - 1993 (20 Years)



Annual Mean Discharge  
St. No. 64675002 Porto Bananeiras (Ival River)  
1974 - 1993 (20 Years)



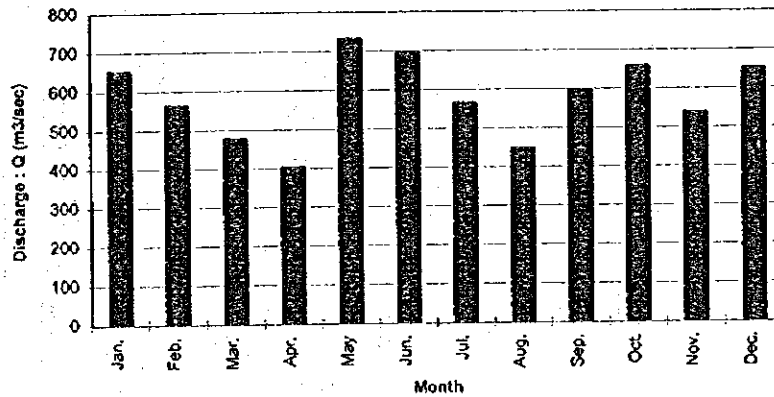
Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

St. No. 64685000  
St. Name Porto Paraiso do Norte

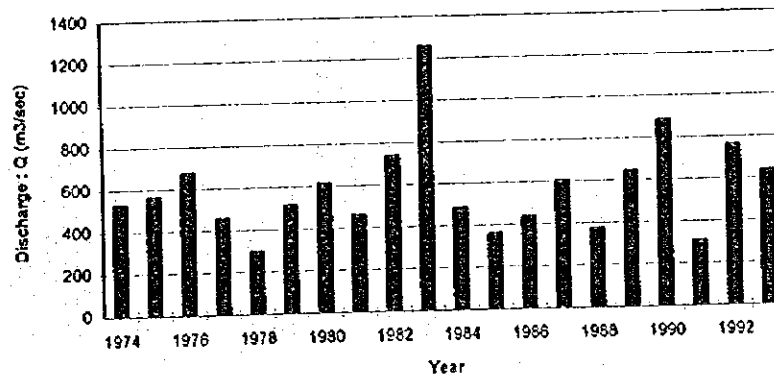
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	982.70	665.83	517.46	297.45	241.57	667.04	353.38	283.31	507.64	745.57	611.45	513.07	532.21
2 1975	549.42	775.70	528.72	288.22	253.38	292.24	302.67	391.00	262.28	1101.01	743.42	1308.03	566.76
3 1976	1067.45	791.09	462.40	367.02	502.41	1120.08	367.89	695.30	660.37	475.60	641.63	974.38	677.14
4 1977	1228.16	790.98	415.08	464.08	229.53	416.25	280.46	178.46	184.32	289.07	339.20	720.85	461.37
5 1978	250.65	155.74	199.73	118.98	120.71	132.54	717.78	420.22	724.61	214.83	278.90	241.45	298.01
6 1979	189.94	275.90	199.42	127.74	754.15	218.69	195.83	473.07	1194.37	926.74	887.54	757.00	516.70
7 1980	606.64	455.26	820.32	490.71	547.70	406.60	638.65	550.62	973.63	625.86	343.26	920.48	614.98
8 1981	881.75	670.65	379.73	344.10	323.94	255.87	187.70	146.57	126.55	596.30	386.40	1273.08	464.39
9 1982	499.79	343.84	263.35	167.73	139.56	1133.59	1669.54	494.68	255.05	870.56	1671.59	1410.95	743.35
10 1983	710.23	596.07	1713.68	1030.40	2045.79	2931.25	1653.51	501.64	1480.68	1203.51	789.28	474.44	1260.87
11 1984	369.51	478.21	273.87	477.91	613.73	354.92	271.83	367.38	623.94	417.61	574.49	1034.81	488.18
12 1985	416.22	356.83	443.27	731.94	874.62	323.24	351.00	216.31	218.47	148.36	152.91	110.57	361.98
13 1986	122.53	536.95	505.99	387.12	1024.48	466.59	233.23	698.95	309.33	241.51	204.28	557.05	440.67
14 1987	330.46	1301.35	283.65	310.58	1819.95	857.44	502.62	294.60	247.67	270.13	709.55	364.12	607.68
15 1988	324.96	385.66	380.54	341.68	1190.08	782.22	340.22	215.76	167.83	166.34	133.13	100.20	377.39
16 1989	1179.71	1078.38	635.06	403.02	582.10	279.34	404.92	869.90	1179.71	537.63	335.08	279.18	647.00
17 1990	2349.80	(384.37)	322.80	296.71	533.44	608.17	1300.72	967.48	1361.75	1414.77	(738.37)	373.98	887.70
18 1991	255.83	304.39	269.70	200.74	182.50	383.20	307.36	268.01	145.98	491.75	312.79	606.02	310.69
19 1992	255.26	235.34	573.86	843.48	2061.32	1541.27	675.89	561.16	641.16	803.19	569.13	393.71	764.56
490 1993	489.69	725.03	387.28	403.78	600.61	801.35	556.23	378.69	655.73	1645.59	362.53	638.36	640.41
Mean	653.04	565.38	478.80	404.67	733.08	698.59	565.57	448.66	598.05	659.30	539.50	652.59	583.10

(Note) (...): correlated value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. 64685000 Porto Paraiso do Norte (Ival River)  
1974 - 1993 (20 Years)



Annual Mean Discharge  
St. No. 64685000 Porto Paraiso do Norte (Ival River)  
1974 - 1993 (20 years)



Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

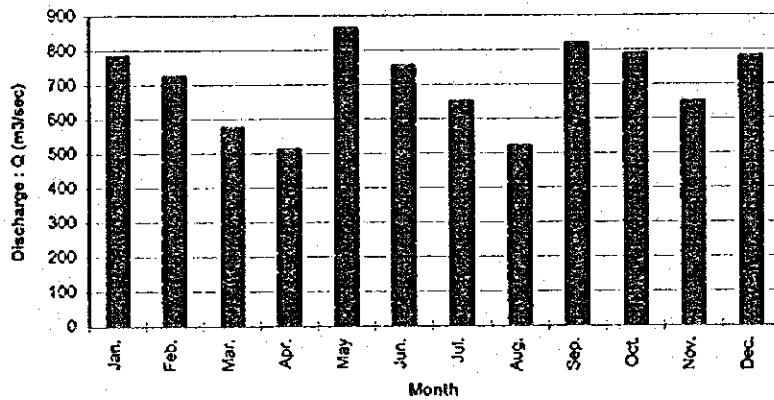
St. No. 64693000

St. Name Novo Porto Taquara

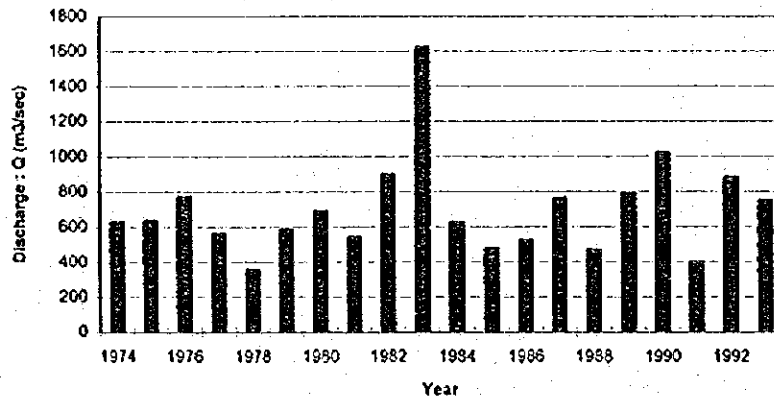
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	(1136.70)	(793.09)	(632.19)	(393.61)	(333.01)	(794.40)	(454.26)	297.19	617.29	802.98	768.43	581.18	633.69
2 1975	639.37	829.20	585.66	355.14	304.61	331.59	369.76	443.98	320.91	1240.49	799.50	1459.01	640.77
3 1976	1169.61	907.85	545.67	438.56	523.83	1343.32	423.59	741.48	748.52	605.83	774.30	1083.06	775.47
4 1977	1470.12	1050.82	499.74	557.86	302.26	510.59	345.95	247.44	254.19	346.90	382.50	853.80	568.51
5 1978	354.26	226.35	272.90	200.94	190.06	186.13	779.00	457.14	790.09	256.03	313.96	286.60	359.46
6 1979	254.54	336.10	271.45	185.69	865.09	294.70	236.52	503.36	1316.93	1005.31	977.18	840.50	590.62
7 1980	685.23	580.69	965.33	568.86	627.50	459.14	681.99	593.95	1022.15	730.89	412.15	1000.77	694.05
8 1981	1004.33	708.50	441.14	375.05	406.65	331.34	259.51	221.61	185.61	669.90	480.54	1480.92	547.09
9 1982	672.04	516.33	426.51	318.98	202.10	1252.15	1924.26	596.67	318.15	950.43	1833.67	1824.85	903.01
10 1983	1020.85	1121.33	1698.29	1276.73	2315.36	2195.48	1782.68	(615.04)	4116.39	1619.75	1051.36	707.76	1626.75
11 1984	580.74	689.36	403.09	615.99	753.41	462.08	363.05	444.62	715.25	609.01	708.81	1228.56	631.16
12 1985	576.61	509.23	589.05	900.74	991.31	591.13	433.15	293.43	291.32	226.01	225.14	169.88	483.08
13 1986	175.37	618.35	582.62	476.52	1115.04	584.25	309.90	826.30	409.49	326.14	272.36	648.18	528.71
14 1987	418.97	1481.58	394.82	387.88	2261.15	1119.50	630.23	398.00	336.43	362.16	921.27	475.35	765.61
15 1988	425.02	493.83	488.82	415.76	1264.51	958.79	(439.99)	(305.03)	233.57	258.42	210.99	171.93	472.22
16 1989	1282.08	1392.67	804.54	529.45	766.33	367.24	455.39	1079.57	1409.24	660.69	454.27	359.89	796.78
17 1990	2607.73	628.13	448.64	405.73	670.43	749.39	1338.11	954.93	1588.93	(1605.24)	(871.75)	455.50	1027.04
18 1991	333.30	479.71	359.99	368.81	265.33	463.53	387.12	336.35	205.63	563.28	371.21	704.17	403.20
19 1992	318.84	328.32	630.95	1019.87	2473.10	1322.81	807.12	675.36	787.43	977.02	728.65	557.02	685.54
20 1993	585.53	848.44	509.66	500.71	694.02	816.35	634.51	446.71	769.70	1996.67	473.75	(763.30)	753.28
Mean	785.56	726.99	577.55	514.64	866.26	756.70	652.80	523.91	821.86	790.66	651.59	783.11	704.30

(Note) (...): correlated value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. 64693000 Novo Porto Taquara (Ival River)  
1974 - 1993 (20 Years)



Annual Mean Discharge  
St. No. 64693000 Novo Porto Taquara (Ival River)  
1974 - 1993 (20 Years)



Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

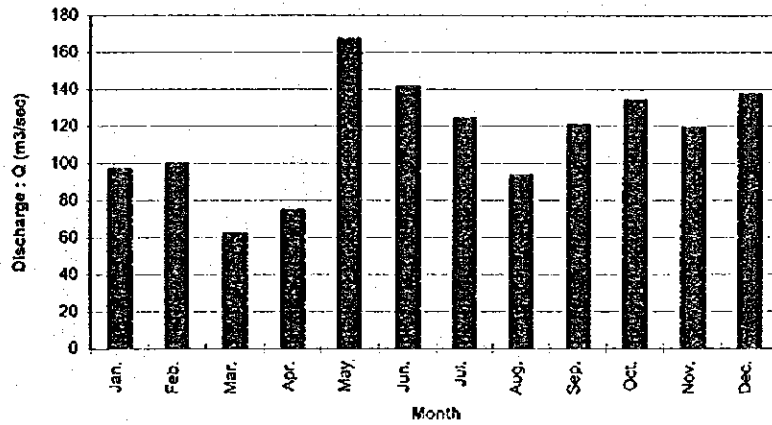
St. No. 64771500

St. Name Porto Guarani

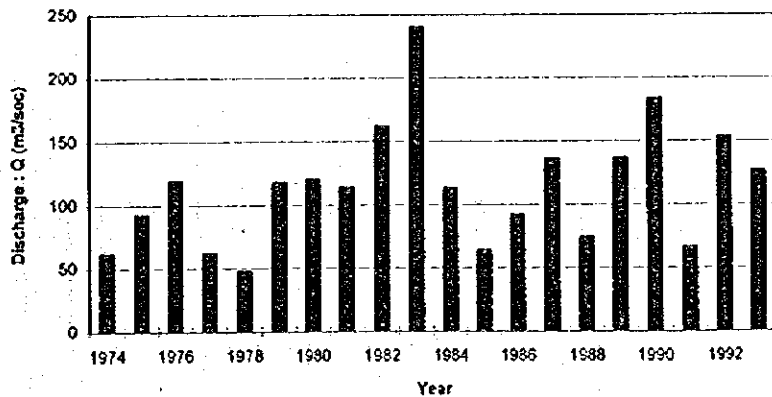
	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1	1974	(72.62)	(87.92)	(53.43)	(24.97)	(20.27)	(59.21)	(25.52)	(71.93)	(77.33)	(79.12)	(77.06)	(95.45)	62.07
2	1975	(96.39)	(155.41)	(55.64)	(37.79)	(34.75)	(83.52)	(37.45)	(50.12)	(55.51)	(199.73)	(119.97)	(176.14)	92.70
3	1976	(140.15)	(113.66)	(48.01)	(57.88)	(93.77)	(178.38)	48.67	92.74	141.77	104.29	185.10	230.35	119.56
4	1977	145.42	69.36	42.33	50.33	18.25	100.38	27.48	19.51	18.24	33.50	80.91	139.64	62.11
5	1978	22.61	8.35	8.65	4.97	9.06	12.77	209.32	84.33	80.81	30.36	45.26	64.07	48.38
6	1979	26.49	127.44	45.44	22.84	288.80	39.95	29.12	127.40	157.55	223.65	202.48	126.88	118.17
7	1980	200.31	67.30	94.28	24.01	119.89	69.45	110.11	113.16	302.00	121.16	64.37	162.96	120.75
8	1981	145.28	110.42	39.07	114.43	58.72	90.51	32.26	22.27	15.62	125.54	111.95	507.46	114.48
9	1982	78.53	40.49	32.45	13.50	12.57	257.04	387.67	97.34	32.06	244.39	543.93	210.78	162.56
10	1983	94.32	104.29	302.63	171.82	433.09	434.61	402.58	78.86	271.69	258.14	171.52	64.15	240.63
11	1984	129.41	99.90	50.41	85.66	98.12	89.46	45.41	128.49	100.23	90.92	172.79	272.28	113.59
12	1985	66.79	59.52	59.41	225.33	131.04	70.69	68.22	28.01	20.82	14.19	18.88	7.24	64.18
13	1986	27.32	152.82	79.49	133.14	228.10	93.52	24.55	89.11	75.88	46.47	24.99	133.29	92.39
14	1987	72.86	281.54	41.71	75.87	526.56	173.09	88.40	48.66	21.92	59.49	165.11	83.65	136.41
15	1988	52.77	54.94	39.86	85.65	374.23	167.65	50.99	22.68	11.82	14.46	12.29	10.33	74.81
16	1989	149.65	179.42	71.18	86.35	222.40	44.90	173.10	214.82	306.61	123.31	48.44	26.32	137.21
17	1990	254.45	58.85	32.99	119.67	110.72	234.04	316.56	307.20	335.99	282.80	115.13	41.04	184.12
18	1991	17.04	21.85	13.22	24.72	15.75	180.23	61.40	36.53	16.48	111.04	53.98	245.68	66.49
19	1992	52.23	53.94	72.64	103.19	360.81	295.74	193.80	160.76	187.96	177.34	113.95	72.93	153.77
20	1993	102.29	157.02	71.03	38.74	141.94	111.63	159.17	71.04	186.65	347.89	57.62	81.04	127.17
	Mean	97.35	100.22	62.69	75.04	167.44	141.84	124.49	93.75	120.84	134.39	119.29	137.58	114.58

(Note) (...): correlated value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. 64771500 Porto Guarani (Piquiri River)  
1974 - 1993 (20 Years)



Annual Mean Discharge  
St. No. 64771500 Porto Guarani (Piquiri River)  
1974 - 1993 (20 Years)

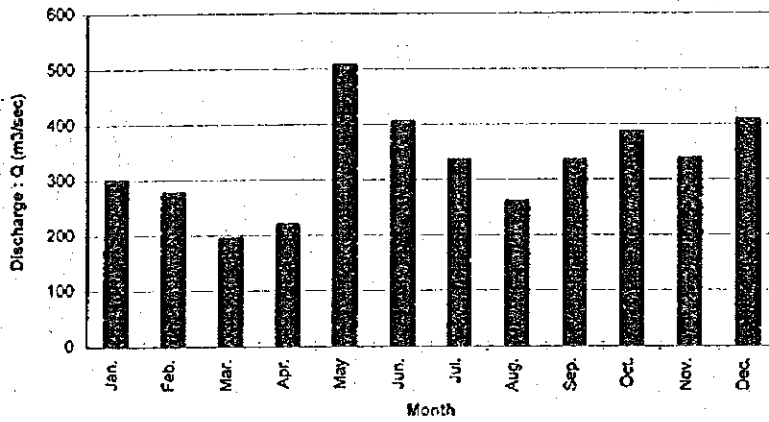


Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

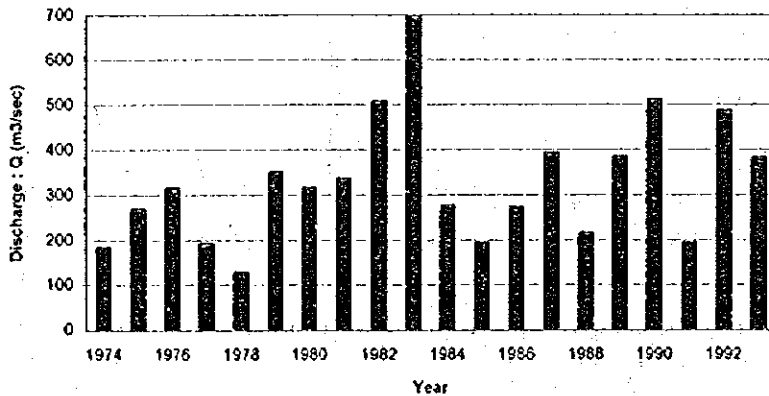
St. No. 64795000  
St. Name Ponte do Piquiri

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	215.13	257.73	161.71	82.46	69.39	177.79	83.99	213.21	228.25	233.24	227.49	278.69	185.76
2 1975	281.31	445.66	167.85	118.17	109.70	245.48	117.21	180.32	167.49	569.05	346.97	503.37	271.05
3 1976	403.17	329.40	146.61	174.09	274.01	509.60	144.32	225.17	290.88	233.81	496.47	579.03	317.21
4 1977	560.04	270.54	150.92	129.80	63.50	182.09	85.13	53.15	61.38	110.52	227.05	441.25	194.61
5 1978	88.88	45.38	39.99	26.23	30.02	35.54	473.09	182.90	261.49	81.91	125.02	166.30	129.73
6 1979	79.50	322.15	119.71	69.70	728.78	131.13	113.20	402.55	545.16	528.80	668.04	523.81	352.71
7 1980	446.08	196.68	334.08	97.33	336.03	189.26	260.38	305.26	745.07	359.06	189.92	353.89	317.75
8 1981	361.31	292.30	134.94	336.26	192.72	231.35	106.10	80.68	55.41	385.78	290.33	1581.79	337.41
9 1982	659.40	148.12	108.65	52.47	44.73	624.59	1102.56	339.65	124.90	725.68	1385.64	783.28	508.31
10 1983	268.69	259.72	840.09	510.38	1445.52	1458.12	1041.35	266.15	842.23	717.36	532.94	200.87	698.62
11 1984	417.64	289.76	140.66	246.93	265.52	168.62	100.50	243.98	216.65	213.26	380.29	652.14	278.00
12 1985	210.65	177.26	201.10	601.78	434.94	233.80	179.05	97.18	63.27	45.60	71.41	31.75	195.65
13 1986	64.89	341.82	262.09	386.72	726.89	323.96	106.63	276.20	194.18	154.57	89.88	360.80	274.22
14 1987	195.14	793.15	136.79	225.75	1514.00	642.17	233.58	144.02	78.25	130.99	407.03	226.81	393.97
15 1988	155.70	146.10	136.20	274.61	978.39	466.89	173.43	89.94	52.59	49.15	46.05	27.07	216.34
16 1989	398.54	447.61	211.67	268.04	586.93	141.13	438.45	581.51	858.20	416.80	181.36	105.02	366.27
17 1990	635.57	186.93	112.49	257.88	318.73	611.00	848.01	768.14	960.50	878.33	402.89	175.56	513.00
18 1991	107.98	112.47	73.94	73.92	57.40	389.09	168.61	110.33	59.73	342.69	183.66	662.51	195.19
19 1992	181.49	140.48	241.20	353.03	1363.61	1047.00	537.93	482.03	499.77	498.01	310.86	212.86	489.02
20 1993	287.02	362.66	199.93	132.52	631.52	326.22	419.17	202.74	424.25	1076.80	222.35	327.30	384.29
Mean	300.91	278.30	195.98	220.90	508.62	406.74	336.73	262.26	336.48	387.57	339.28	409.71	331.96

Monthly Mean Discharge  
St. No. 64795000 Ponte do Piquiri ( Piquiri River )  
1974 - 1993 ( 20 years )



Annual Mean Discharge  
64795000 Ponte do Piquiri ( Piquiri River )  
1974 - 1993 ( 20 years )



Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

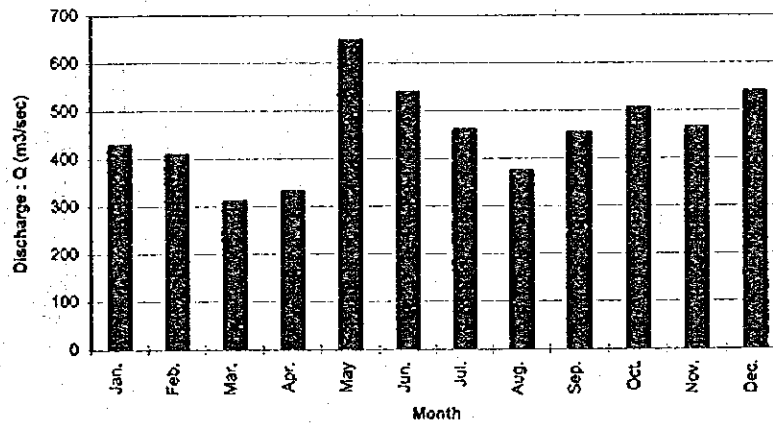
St. No. 64820000

St. Name Porto Formosa

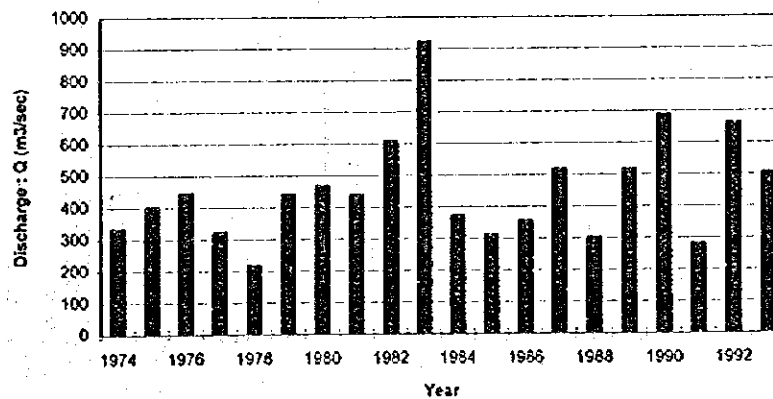
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	355.05	462.70	331.21	205.87	169.14	302.79	188.50	329.43	372.42	358.02	422.10	472.45	334.14
2 1975	431.85	616.07	315.24	269.44	245.90	357.19	218.10	266.06	247.38	694.08	507.55	659.93	403.23
3 1976	564.52	512.72	276.37	284.17	378.93	793.71	254.46	343.73	400.81	310.65	585.75	653.24	446.59
4 1977	893.13	469.57	278.21	255.05	159.15	292.48	165.85	119.37	139.87	165.83	329.86	631.67	325.00
5 1978	226.39	133.82	110.13	83.40	(128.67)	86.25	608.40	257.43	355.71	151.24	224.28	255.17	218.41
6 1979	150.52	350.76	222.24	136.97	1105.31	243.08	193.56	370.25	571.32	548.21	785.17	635.45	442.82
7 1980	671.95	526.47	405.48	238.16	490.87	312.77	410.01	353.95	878.86	500.54	335.16	497.30	468.46
8 1981	527.75	322.66	239.80	439.21	332.42	342.76	202.35	167.95	133.01	500.65	393.50	1672.69	439.56
9 1982	496.51	261.76	210.38	136.15	115.95	734.61	1273.37	536.64	268.20	825.26	1479.43	987.29	610.46
10 1983	482.41	387.89	1166.75	777.73	1534.92	1701.72	1321.10	505.27	1115.18	917.15	749.19	420.11	923.29
11 1984	465.01	456.70	240.13	335.06	395.16	253.06	185.14	304.09	299.51	299.25	477.52	774.74	373.86
12 1985	361.79	306.29	300.02	688.63	649.03	407.80	324.89	208.22	163.01	126.47	140.63	85.51	313.52
13 1986	119.32	416.07	339.68	429.98	798.25	453.44	208.85	380.35	287.87	234.97	163.57	454.81	357.26
14 1987	291.14	795.45	239.48	338.44	1852.26	767.99	452.67	268.87	174.63	210.79	500.52	337.64	519.99
15 1988	234.85	240.03	213.43	417.37	972.46	639.42	297.40	184.93	128.78	124.76	102.19	84.46	303.34
16 1989	489.15	616.91	329.64	354.45	647.37	252.79	529.60	765.12	1088.20	614.59	330.61	203.12	518.46
17 1990	802.70	351.63	229.96	406.37	432.67	767.86	927.03	1004.43	1179.56	1181.39	644.16	350.43	689.85
18 1991	264.82	257.51	173.96	145.33	139.33	371.82	243.45	191.13	127.16	423.28	272.75	802.45	283.58
19 1992	292.42	236.25	332.71	491.81	1744.29	1263.26	732.65	643.78	667.31	666.40	507.55	376.47	664.58
20 1993	439.76	478.01	293.71	234.51	686.03	447.55	535.98	334.07	513.19	1261.22	375.76	467.95	505.65
Mean	430.10	409.96	312.43	333.41	649.41	540.12	463.67	376.25	455.60	506.74	466.36	541.19	457.10

(Note) (.....): correlated value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. 64820000 Porto Formosa (Piquiri River)  
1974 - 1993 (20 Years)



Annual Mean Discharge  
St. No. 64820000 Porto Formosa (Piquiri River)  
1974 - 1993 (20 Years)



Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

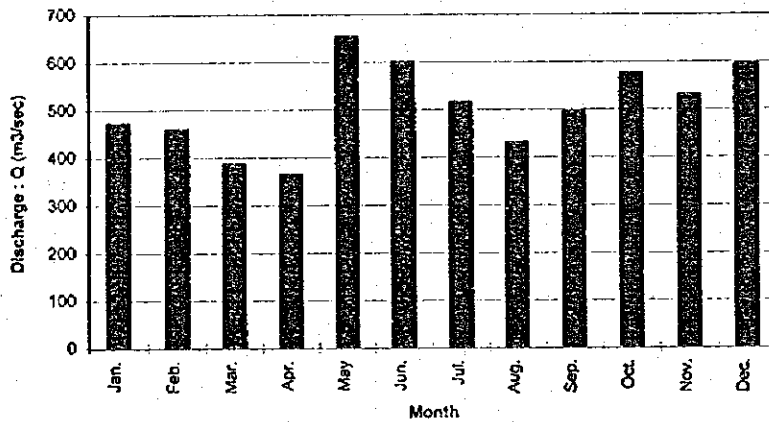
St. No. 64830000

St. Name Balsa do Santa Maria

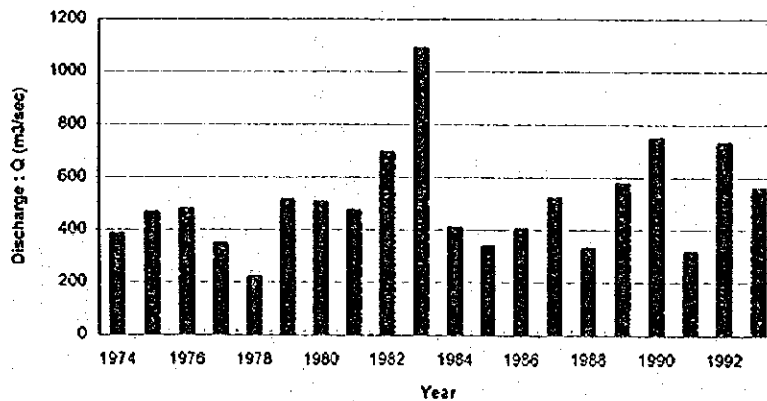
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	474.21	529.30	401.84	283.06	216.72	328.51	224.02	359.66	445.00	413.04	465.01	524.81	387.10
2 1975	498.65	692.83	382.34	340.81	324.20	424.04	283.39	323.31	285.85	787.19	547.30	739.05	469.08
3 1976	639.39	539.97	314.77	319.55	388.77	731.89	285.61	370.75	427.97	358.07	666.54	739.18	481.87
4 1977	876.40	529.62	343.10	288.77	188.73	306.36	183.78	137.19	148.42	187.93	340.44	676.80	350.63
5 1978	251.97	173.94	139.80	100.72	99.91	100.49	503.69	267.21	363.96	164.65	239.42	261.74	222.29
6 1979	187.09	376.12	328.91	173.45	900.95	289.88	259.11	526.81	688.63	651.31	989.04	841.67	517.75
7 1980	708.09	429.14	666.23	265.74	554.78	355.87	424.42	402.37	780.51	570.97	398.47	534.36	507.58
8 1981	521.72	442.79	307.02	382.47	368.24	386.70	253.14	198.48	162.34	583.30	414.76	1694.94	476.33
9 1982	587.06	360.77	277.15	174.62	156.23	771.65	1496.56	589.13	341.45	888.77	1646.10	1078.47	697.33
10 1983	559.03	502.87	1429.84	827.40	1909.39	1976.09	1473.05	735.60	1180.01	1141.19	870.99	493.23	1091.56
11 1984	512.04	486.34	269.51	378.23	446.32	301.45	228.39	360.50	324.35	330.67	502.83	801.03	411.81
12 1985	396.67	343.44	322.90	712.53	677.64	440.71	370.16	242.93	184.58	148.29	158.02	94.86	341.06
13 1986	137.49	431.94	390.40	461.11	840.70	532.14	286.03	465.34	338.11	292.55	211.02	502.14	406.58
14 1987	347.01	915.18	299.99	383.32	1238.93	899.54	500.35	339.80	220.87	251.40	536.37	350.51	523.51
15 1988	268.39	270.70	225.11	407.43	1013.98	686.92	354.75	224.74	163.63	151.96	123.94	94.40	332.16
16 1989	504.45	660.89	465.84	399.51	(702.31)	310.22	517.97	855.00	1168.02	689.72	408.08	271.63	579.47
17 1990	853.02	395.02	272.95	431.92	518.94	804.39	1002.63	938.28	1275.50	1290.41	755.54	463.52	750.18
18 1991	296.74	321.72	222.07	190.25	161.39	403.39	273.92	201.92	148.89	482.67	321.67	820.36	320.42
19 1992	347.90	282.69	367.18	540.90	1660.19	1490.11	835.72	721.54	741.72	789.35	585.44	449.43	734.35
20 1993	484.15	523.32	342.12	270.43	746.95	493.93	577.01	384.38	549.18	1373.47	460.44	518.36	560.31
Mean	472.57	460.43	387.95	365.61	655.76	601.71	515.69	432.25	496.95	577.35	532.07	597.53	508.07

(Note) (...): correlated value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. 64830000 Balsa do Santa Maria (Piquiri River)  
1974 - 1993 (20 Years)



Annual Mean Discharge  
St. No. 64830000 Balsa do Santa Maria (Piquiri River)  
1974 - 1993 (20 Years)



Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

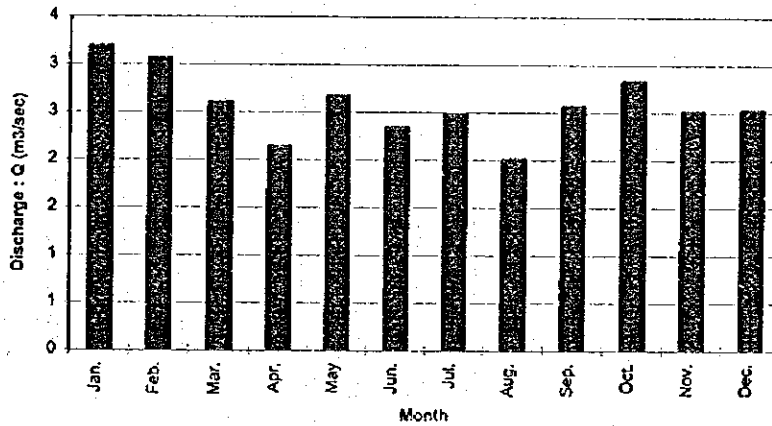
St. No. 65010000

St. Name Fazendinha

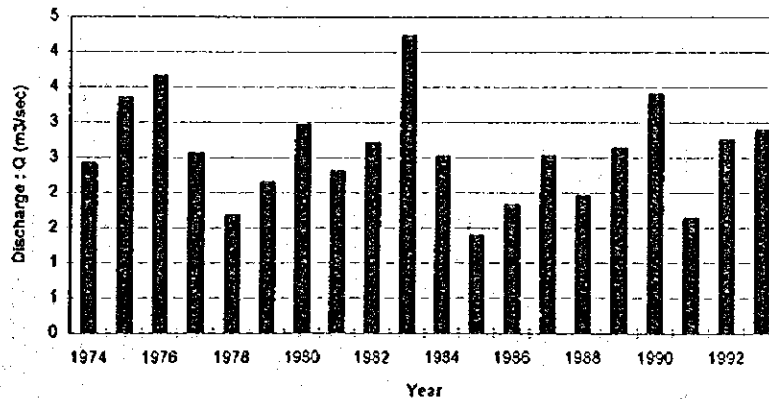
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	4.04	3.76	4.87	2.60	1.36	1.81	1.97	1.22	2.24	1.66	1.66	1.93	2.43
2 1975	3.24	4.54	2.75	1.88	1.67	1.55	2.47	2.55	3.61	5.62	4.78	5.60	3.36
3 1976	8.77	4.56	4.82	2.55	4.29	4.12	3.16	3.64	2.83	2.55	2.47	2.18	3.66
4 1977	3.83	3.53	3.15	3.10	1.32	1.18	1.22	1.12	1.38	5.43	2.93	(2.64)	2.57
5 1978	2.99	1.94	(1.03)	0.95	(0.76)	1.24	1.34	1.84	3.11	1.21	2.19	1.68	1.69
6 1979	2.01	1.80	1.87	1.31	4.00	1.35	1.40	0.96	2.25	3.38	2.62	(2.95)	2.16
7 1980	2.79	3.45	2.61	1.97	1.11	1.07	3.07	3.11	4.34	4.86	2.12	5.15	2.97
8 1981	5.47	3.28	2.20	2.00	1.69	1.09	1.22	0.93	0.86	1.82	3.82	3.40	2.32
9 1982	1.17	(2.52)	2.40	1.49	1.55	3.28	3.87	1.68	1.31	2.98	5.63	(4.70)	2.71
10 1983	3.44	3.85	3.05	4.45	5.63	6.85	8.57	2.75	4.23	3.91	2.30	1.83	4.24
11 1984	2.64	1.45	1.79	2.76	3.30	3.26	2.00	3.61	2.61	1.71	3.09	2.06	2.52
12 1985	1.96	2.82	2.00	2.11	1.17	1.13	0.84	0.54	1.35	1.02	1.14	0.68	1.40
13 1986	(1.11)	2.57	2.17	1.52	1.33	0.72	0.90	1.31	1.39	1.98	2.63	4.43	1.84
14 1987	2.43	3.72	1.25	2.50	6.28	3.88	1.82	1.40	1.97	2.39	1.35	1.35	2.53
15 1988	1.25	2.07	2.50	1.77	4.94	2.62	1.29	0.97	1.92	2.02	1.18	1.04	1.96
16 1989	6.17	2.61	2.08	2.22	3.78	1.35	2.29	1.82	3.94	1.56	1.02	2.85	2.64
17 1990	6.90	2.90	2.69	2.68	2.30	2.55	4.37	4.00	3.69	3.68	3.65	1.53	3.41
18 1991	1.58	1.26	3.08	1.53	1.18	1.84	0.89	1.21	0.76	2.52	2.42	1.48	1.65
19 1992	1.22	4.57	3.02	1.32	3.09	3.23	4.55	4.37	2.82	1.76	1.74	1.43	2.76
20 1993	2.88	4.19	2.87	2.30	2.83	2.94	2.52	1.32	4.81	4.73	1.61	1.81	2.90
Mean	3.19	3.07	2.61	2.15	2.68	2.35	2.49	2.02	2.57	2.84	2.52	2.54	2.59

(Note) ( ... ): correlated value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. 65010000 Fazendinha (Iguacu River)  
1974 - 1993 (20 years)



Annual Mean Discharge  
St. No. 65010000 Fazendinha (Iguacu River)  
1974 - 1993 (20 years)





Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

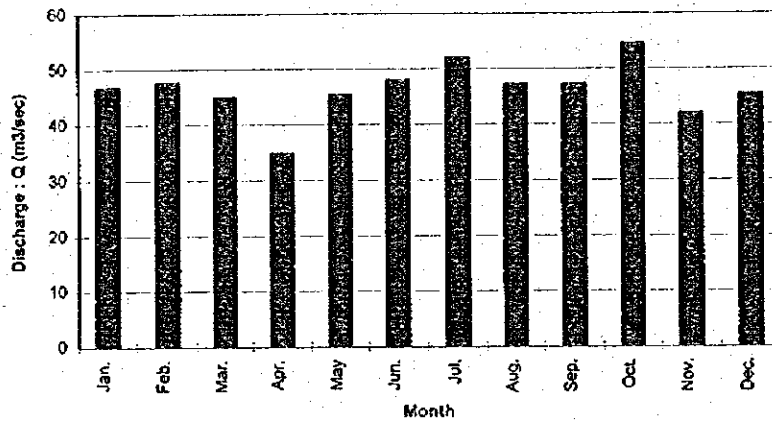
St. No. 65025000

St. Name Guajuvira

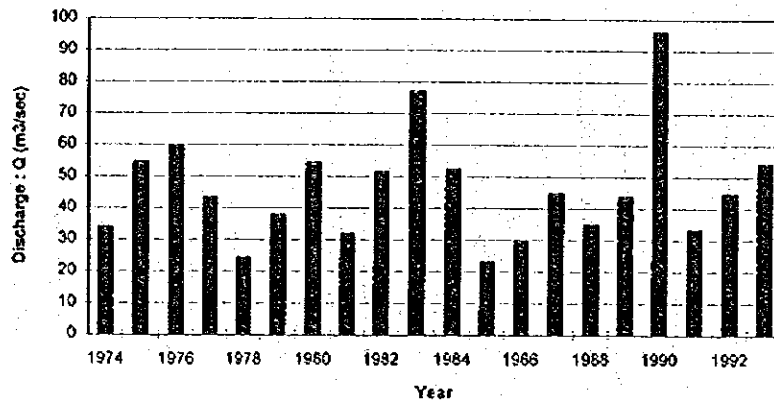
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	(57.68)	(40.50)	(73.10)	(31.73)	(15.87)	(30.00)	(34.76)	(17.00)	(38.95)	(22.84)	(22.58)	(22.37)	33.95
2 1975	(42.07)	(44.31)	(46.33)	(25.11)	(17.69)	(21.17)	(44.98)	(58.53)	(52.67)	(122.12)	(68.04)	(114.28)	54.77
3 1976	(107.10)	(69.58)	(72.20)	(33.10)	(43.07)	(95.10)	(48.55)	(90.29)	34.31	45.05	47.65	31.97	59.91
4 1977	53.61	76.90	60.01	73.37	23.71	21.40	22.02	19.32	18.48	68.23	35.35	48.46	43.41
5 1978	23.36	15.80	17.29	9.52	11.92	17.31	25.55	39.86	59.33	19.25	32.33	20.26	24.32
6 1979	17.32	18.01	20.41	14.90	73.95	21.80	24.36	18.48	46.59	75.44	70.07	54.51	37.99
7 1980	33.17	47.99	64.45	38.37	17.64	19.59	60.75	69.34	89.94	72.46	42.00	98.98	54.56
8 1981	89.98	47.08	27.75	24.57	20.60	13.84	13.68	14.50	12.40	28.90	32.83	57.41	31.96
9 1982	13.66	46.14	32.85	16.68	17.43	61.03	110.63	32.53	24.34	68.90	106.54	88.49	51.62
10 1983	62.63	61.94	61.74	73.74	64.76	159.47	136.18	64.75	92.50	65.63	34.26	49.26	77.24
11 1984	50.00	33.77	38.60	47.59	67.57	70.49	43.85	73.64	53.48	40.37	60.51	49.57	52.45
12 1985	31.03	50.07	34.34	36.08	18.73	18.32	14.24	8.81	23.32	18.11	16.38	8.39	23.15
13 1986	18.87	41.03	37.12	21.59	25.55	13.26	10.67	25.36	16.52	27.88	36.86	84.60	29.94
14 1987	43.95	47.24	14.92	37.66	133.10	82.33	36.85	26.23	29.60	41.42	19.91	25.04	44.87
15 1988	20.30	40.39	51.05	30.72	97.65	66.28	26.70	14.92	23.56	24.23	12.25	11.43	34.96
16 1989	75.50	56.34	33.26	43.77	71.29	21.92	31.12	45.37	75.97	30.39	17.44	23.86	43.85
17 1990	108.57	(70.16)	(66.48)	50.82	50.54	47.91	208.99	192.72	105.81	128.93	92.67	30.10	96.14
18 1991	35.11	33.86	47.48	28.47	30.19	36.13	29.12	22.96	14.52	43.98	37.65	41.39	33.41
19 1992	22.23	42.06	48.05	24.35	52.68	82.76	70.16	86.26	38.43	26.52	24.69	18.28	44.71
20 1993	30.20	70.17	52.13	35.62	53.95	60.06	48.79	24.64	94.51	121.05	(30.63)	29.76	54.31
Mean	45.82	47.67	44.98	34.92	45.39	48.06	52.10	47.28	47.26	54.58	42.03	45.42	46.38

(Note) (...): correlated value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. 65020000 Guajuvira (Iguacu River)  
1974 - 1993 (20 years)



Annual Mean Discharge  
St. No. 65020000 Guajuvira (Iguacu River)  
1974 - 1993 (20 years)



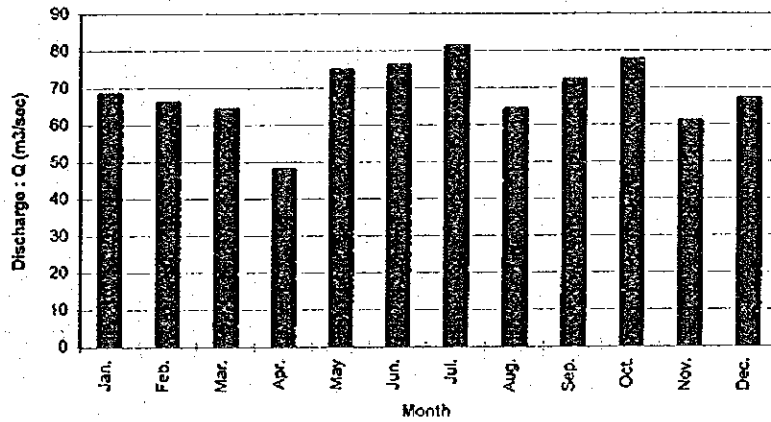
Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

St. No. 65035000

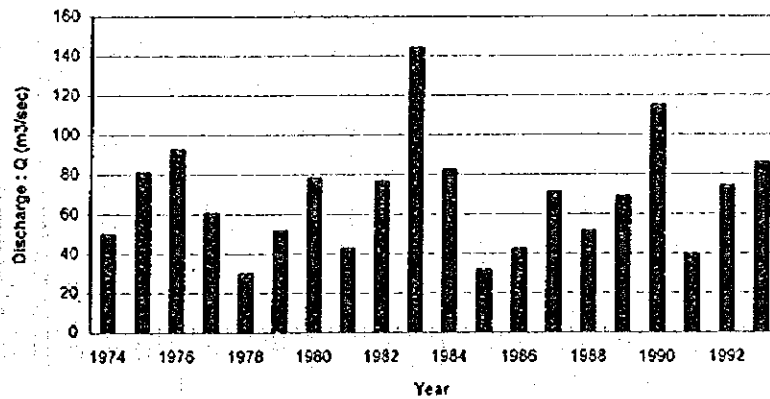
St. Name Porto Amazonas

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	85.58	59.56	108.56	46.89	23.25	44.32	51.41	24.93	57.66	33.64	33.26	32.94	50.20
2 1975	62.31	65.64	68.65	37.03	25.96	31.15	66.64	85.84	78.10	181.63	101.02	169.94	81.24
3 1976	159.24	103.31	107.72	48.94	63.80	142.84	71.96	134.18	89.05	66.60	74.05	53.11	92.88
4 1977	84.53	119.82	83.98	104.02	30.60	27.82	27.99	24.83	24.09	92.24	43.92	61.00	60.82
5 1978	26.68	20.50	19.32	9.77	11.95	21.84	37.93	57.68	76.10	22.25	33.77	20.56	30.28
6 1979	16.57	15.96	24.58	14.53	103.88	25.79	28.89	24.28	70.78	114.04	97.07	88.74	51.93
7 1980	45.73	66.77	84.32	59.10	23.65	25.95	90.94	105.69	134.14	95.30	59.29	148.60	78.37
8 1981	139.81	62.23	32.84	27.79	24.21	15.43	14.33	15.88	13.31	36.29	50.30	81.58	42.83
9 1982	16.63	60.79	41.99	19.36	20.87	89.21	188.73	48.54	30.59	96.51	185.16	123.49	76.66
10 1983	76.26	78.44	87.45	92.53	192.10	267.66	433.00	104.93	150.93	112.17	58.88	77.78	144.34
11 1984	74.12	51.44	62.20	69.91	104.64	120.92	74.25	120.90	81.80	60.76	94.52	76.39	82.65
12 1985	41.80	65.19	54.80	59.92	27.81	25.71	19.81	11.23	28.81	21.82	20.28	8.69	32.16
13 1986	23.32	46.84	43.81	25.34	37.87	20.05	13.04	34.30	22.00	39.29	56.29	150.15	42.69
14 1987	73.91	69.14	22.78	52.05	238.01	139.83	56.38	41.54	42.40	59.94	28.88	30.11	71.25
15 1988	24.72	54.38	70.73	42.03	160.55	111.83	39.61	19.60	34.38	32.29	16.14	14.54	51.73
16 1989	94.65	87.49	47.02	65.56	119.89	30.94	48.94	77.73	149.51	45.14	27.34	34.18	69.03
17 1990	236.41	104.18	98.70	74.65	72.40	86.87	153.64	153.89	135.46	120.30	109.75	35.03	115.11
31 1991	30.64	44.49	58.02	27.49	23.99	54.71	28.57	31.97	12.99	63.12	41.24	56.56	39.90
32 1992	23.68	50.41	84.71	41.81	114.64	159.81	109.43	136.62	59.14	46.12	38.70	27.21	74.36
20 1993	36.30	101.19	88.53	48.22	82.97	86.79	77.18	37.53	156.98	213.39	45.25	58.47	86.07
Mean	68.69	66.41	64.51	48.35	75.15	76.47	81.53	64.65	72.41	77.89	61.26	67.35	68.72

Monthly Mean Discharge  
St. No. 65035000 Porto Amazonas ( Iguacu )  
1974 - 1993 ( 20 years )



Annual Mean Discharge  
St. No. 65035000 Porto Amazonas ( Iguacu )  
1974 - 1993 ( 20 years )



Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

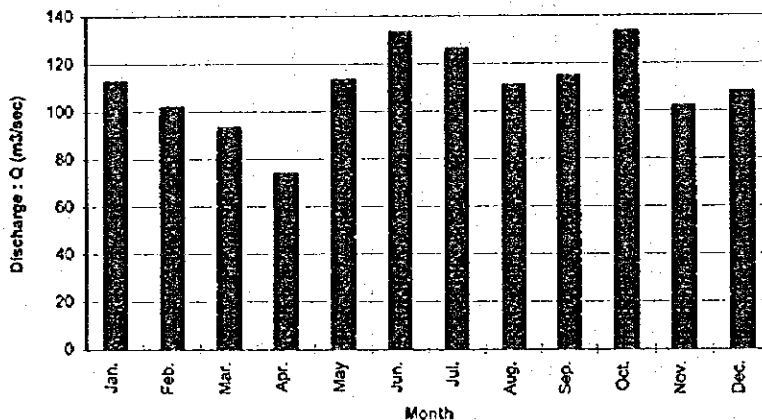
St. No. 65060000

St. Name Sao Mateus do Sul

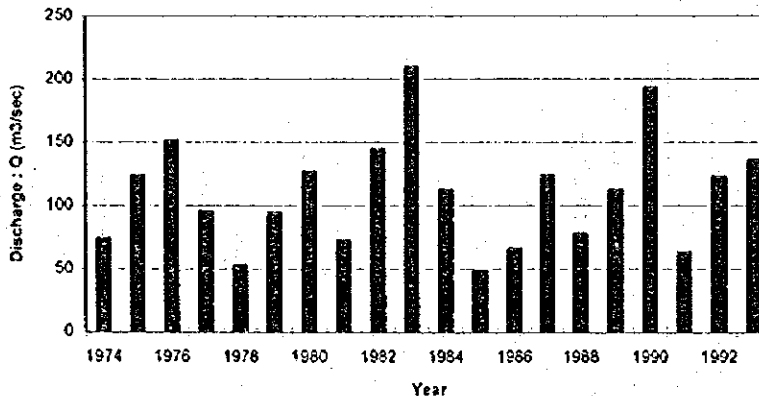
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	96.27	75.89	134.80	86.35	41.49	89.97	90.14	47.06	80.01	46.13	56.52	49.83	74.46
2 1975	92.33	103.49	70.07	54.12	36.94	43.08	80.62	152.63	96.87	321.10	133.09	304.08	124.04
3 1976	205.31	160.11	170.32	115.93	77.26	299.83	102.19	232.03	147.68	93.85	118.72	99.92	151.93
4 1977	145.95	223.01	106.55	148.78	51.34	44.70	42.40	42.82	40.03	125.37	79.26	99.73	95.83
5 1978	45.44	34.91	42.51	24.76	23.97	37.81	66.94	102.50	116.01	45.46	58.19	40.70	53.27
6 1979	28.66	24.68	33.58	22.22	187.27	50.41	44.93	47.38	140.69	196.94	198.25	166.02	95.08
7 1980	91.26	106.58	(135.12)	87.80	41.92	40.26	150.68	160.49	291.61	176.09	101.58	142.30	127.14
8 1981	305.12	102.43	48.82	35.04	35.45	24.30	21.20	22.55	20.39	59.54	77.46	122.55	72.90
9 1982	123.91	75.40	73.22	34.18	28.50	80.12	390.28	87.74	49.65	175.17	346.36	276.34	145.07
10 1983	123.91	115.27	160.09	113.98	263.44	469.26	540.56	172.44	165.93	218.02	80.54	97.57	210.17
11 1984	83.51	77.36	56.34	62.67	117.69	164.17	99.28	192.16	135.21	109.89	138.75	118.02	112.93
12 1985	62.31	78.72	84.80	91.97	48.60	33.09	34.53	22.76	37.55	33.02	37.44	17.88	48.97
13 1986	32.49	62.08	59.72	44.75	56.65	40.82	22.94	41.55	45.11	62.67	85.78	241.68	66.35
14 1987	185.29	114.26	43.96	60.72	398.86	263.45	121.16	65.46	59.44	83.00	54.35	41.64	124.30
15 1988	35.73	78.63	91.79	53.41	208.64	231.91	69.94	32.41	40.81	43.85	31.33	21.81	78.36
16 1989	104.89	160.69	89.49	115.16	191.88	44.83	52.37	169.22	266.49	78.55	42.65	38.34	112.88
17 1990	364.75	187.87	120.16	123.43	126.51	172.95	199.97	276.34	287.45	207.82	199.75	56.58	193.63
18 1991	41.61	71.92	78.03	39.48	32.56	85.21	84.13	47.56	24.41	93.26	78.04	87.50	63.64
19 1992	48.13	64.62	108.16	100.32	149.83	316.42	180.17	242.35	97.19	70.30	60.08	43.62	123.43
20 1993	42.81	125.46	163.03	70.80	152.75	129.41	134.36	64.41	156.93	431.74	65.51	100.67	136.49
Mean	112.98	102.22	93.53	74.29	113.58	133.35	126.44	111.09	114.97	133.59	102.18	108.29	110.54

(Note) (...): correlated value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. 65060000 Sao Mateus do Sul (Iguacu River)  
1974 - 1993 (20 Years)



Annual Mean Discharge  
St. No. 65060000 Sao Mateus do Sul (Iguacu River)  
1974 - 1993 (20 Years)



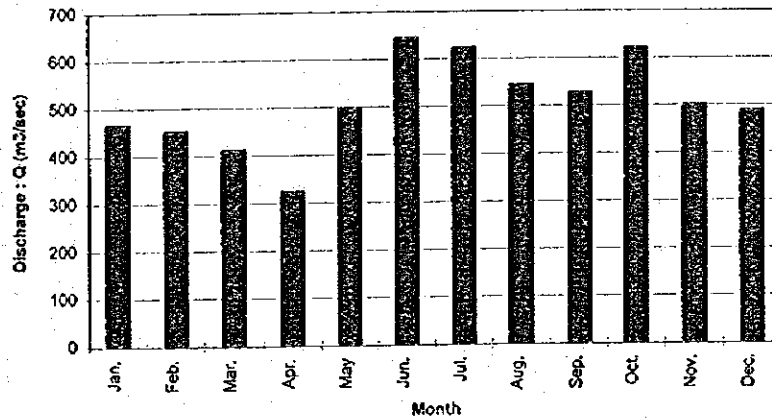
Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

St. No. 65310000

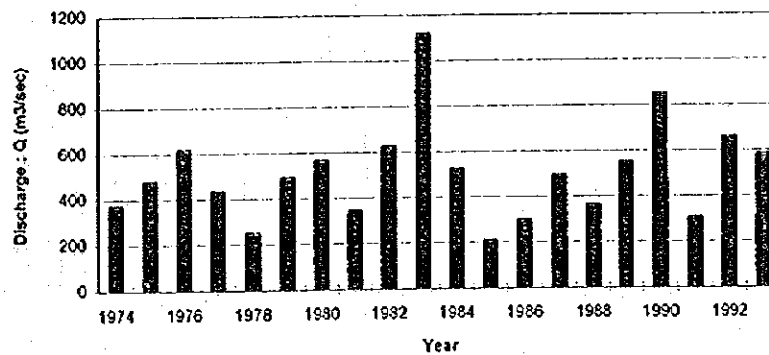
St. Name Uniao da Vitoria

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	615.73	607.17	621.31	331.00	168.01	313.10	482.89	343.09	462.24	181.09	242.10	138.95	375.56
2 1975	300.92	228.09	338.23	187.34	142.74	167.39	226.27	554.85	565.56	1203.60	518.16	1351.45	481.88
3 1976	827.18	555.92	603.92	493.79	382.40	1169.76	435.59	883.30	638.05	384.56	588.03	500.13	620.22
4 1977	619.81	802.39	479.09	564.13	200.21	193.81	214.54	279.50	232.38	707.28	451.05	467.50	435.13
5 1978	189.26	153.80	280.64	128.43	95.54	136.60	300.04	408.57	476.05	249.47	312.55	305.60	253.05
6 1979	201.59	104.44	154.06	140.16	964.67	275.70	251.54	325.82	607.66	1059.87	1022.98	824.66	494.43
7 1980	413.85	409.33	593.33	301.71	245.68	205.17	703.72	707.21	1293.44	684.80	476.46	784.37	568.26
8 1981	1245.55	474.63	208.54	163.07	148.43	118.83	103.81	127.72	171.10	389.71	418.90	592.83	346.93
9 1982	253.54	399.73	328.16	160.87	145.97	437.47	1451.08	541.53	302.01	788.35	1503.21	1228.43	628.45
10 1983	634.95	631.23	922.07	436.35	1275.92	1805.76	3611.91	1403.71	783.72	1026.38	497.50	428.16	1121.47
11 1984	340.42	199.33	232.30	292.33	466.13	738.40	488.10	1267.43	593.12	493.60	710.48	456.75	526.53
12 1985	224.60	378.48	307.04	538.80	230.07	130.21	141.21	79.58	141.64	105.17	187.34	63.82	210.66
13 1986	125.07	276.66	321.54	277.60	237.75	235.13	99.27	185.15	291.58	376.96	426.38	739.63	299.31
14 1987	723.93	571.37	221.68	218.99	1238.19	1113.36	514.02	341.02	253.00	394.51	232.40	148.96	497.64
15 1988	195.65	300.65	314.24	174.24	1104.70	998.44	323.94	132.71	176.74	308.90	255.95	111.08	366.44
549 1989	548.72	959.98	545.47	558.37	723.92	207.05	277.99	703.79	1230.61	521.86	231.23	143.58	554.38
550 1990	1216.96	811.62	393.19	518.51	662.93	1275.79	799.79	1109.92	1173.54	1010.00	881.19	398.71	854.35
551 1991	165.56	253.23	225.90	186.20	152.16	441.63	462.27	359.44	134.21	491.27	411.80	425.27	309.08
552 1992	289.83	261.61	479.47	424.32	751.91	2385.88	1044.15	903.36	455.39	338.15	353.60	258.56	662.19
209 1993	208.87	682.26	693.93	407.77	666.37	577.52	557.44	244.43	570.58	1732.27	311.71	385.19	566.53
Mean	467.10	452.99	413.22	325.20	499.24	646.35	624.43	545.11	527.63	622.39	502.15	459.66	509.62

Monthly Mean Discharge  
St. No. 65310000 Uniao da Vitoria (Iguacu River)  
1974 - 1993 (20 years)



ANNUAL MEAN DISCHARGE  
St. No. 65310000 Uniao da Vitoria (Iguacu)  
1974 - 1993 (20 Years)



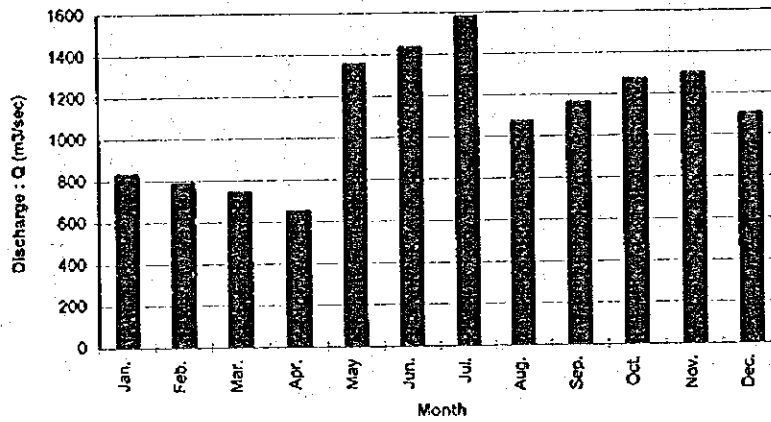
Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

St No 65895002  
St Name Salto Osorio

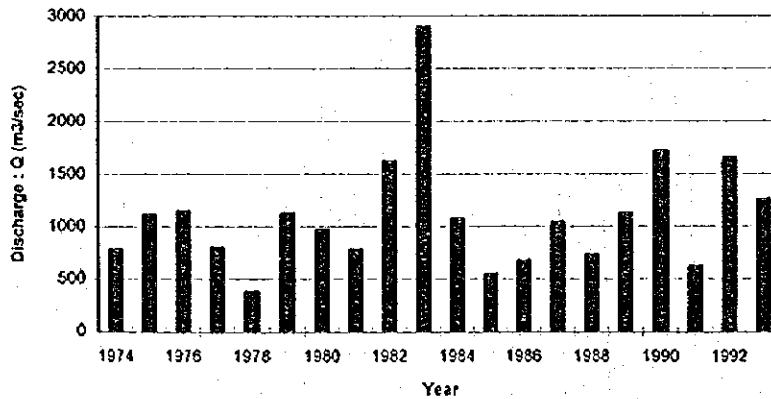
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1 1974	1121.23	1168.44	1089.33	604.07	371.00	742.61	934.43	727.76	1028.24	497.59	643.84	571.49
2 1975	779.37	763.95	751.39	451.09	340.44	(395.65)	(444.36)	(974.73)	(1447.48)	(3026.80)	(1396.75)	(2667.84)
3 1976	(1538.83)	(1083.58)	(741.22)	(859.74)	(493.10)	(1970.11)	(709.16)	(1655.87)	(1354.41)	(974.24)	(1522.14)	(931.10)
4 1977	(1095.67)	(1165.77)	(795.73)	(785.91)	(206.16)	(553.06)	(405.42)	(504.97)	(517.75)	(1200.35)	(1258.39)	(1170.72)
5 1978	(266.05)	(110.55)	(177.28)	(33.29)		(71.74)	(926.20)	(872.46)	(837.74)	(294.64)	(571.31)	(537.14)
6 1979	(275.08)	(47.46)	(294.84)	(325.46)	(2878.12)	(772.21)	(473.42)	(992.95)	(1376.72)	(1611.05)	(2867.63)	(1636.56)
7 1980	(903.94)	(834.27)	(1202.14)	(283.12)	(477.79)	(320.43)	(523.20)	(963.39)	(2241.59)	(1367.60)	(1199.07)	(1409.62)
8 1981	(1670.15)	(1001.00)	(529.87)	(783.26)	(758.57)	(636.09)	(304.03)	(234.06)	(258.72)	(374.25)	(598.90)	(2296.25)
9 1982	(734.75)	(684.24)	(606.45)	(238.17)	(252.14)	(1040.71)	(3923.68)	(1012.50)	(507.76)	(2647.73)	(5188.76)	(2675.15)
10 1983	(980.71)	(957.00)	(2717.47)	(1436.23)	(5606.99)	(3615.76)	(10650.94)	(2095.30)	(2269.45)	(2127.79)	(1589.17)	(838.67)
11 1984	(674.88)	(630.66)	(641.56)	(812.56)	(713.33)	(1939.68)	(884.81)	(2198.07)	(1038.37)	(1006.06)	(1295.31)	(1169.45)
12 1985	(622.58)	(683.00)	(626.37)	(916.41)	(825.29)	(662.54)	885.32	368.29	229.63	246.97	288.17	264.94
13 1986	422.91	306.39	225.65	528.17	848.40	1003.11	994.67	717.36	508.45	678.34	1040.41	887.84
14 1987	878.96	888.18	489.09	514.54	3435.31	2207.80	1400.90	724.07	511.96	447.39	684.53	390.27
15 1988	624.62	385.33	460.97	393.58	1876.11	1884.93	968.76	611.58	319.41	191.32	691.55	480.99
16 1989	203.83	(1937.99)	625.25	758.73	1473.39	965.85	672.87	1077.27	3051.06	1428.00	891.22	523.05
17 1990	1781.60	1331.83	649.94	1118.86	1281.11	2869.15	1820.48	2427.05	2429.58	2284.71	1701.57	1029.48
18 1991	654.42	471.77	464.08	463.69	498.12	630.33	805.81	615.35	608.87	605.90	793.01	914.95
19 1992	809.77	544.62	760.65	938.23	3186.59	5170.32	2613.44	1824.06	1381.90	1027.77	870.57	821.06
20 1993	656.66	777.23	1061.28	802.80	1705.66	1312.27	1305.30	894.12	1366.61	3451.00	945.53	869.35
Mean	834.80	788.66	745.53	652.79	1432.93	1438.19	1582.36	1074.56	1164.28	1274.98	1301.89	1104.30

(Note) (...): correlated value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. 65895002 Salto Osorio (Iguacu River)  
1974 - 1993 ( 20 years )



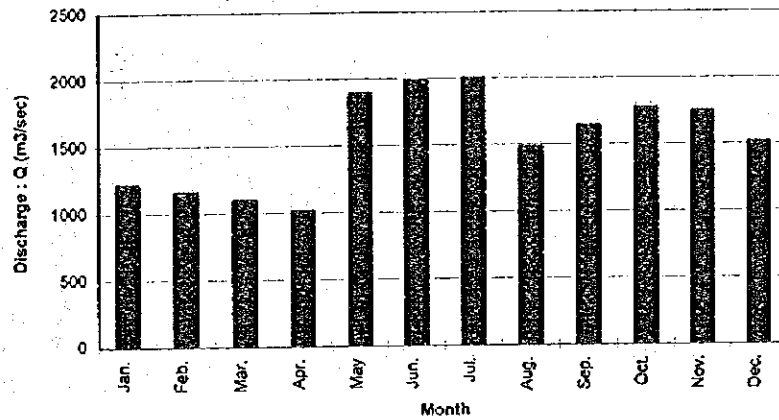
Annual Mean Discharge  
St. No. 65895002 Salto Osorio (Iguacu River)  
1974 - 1993 ( 20 years )



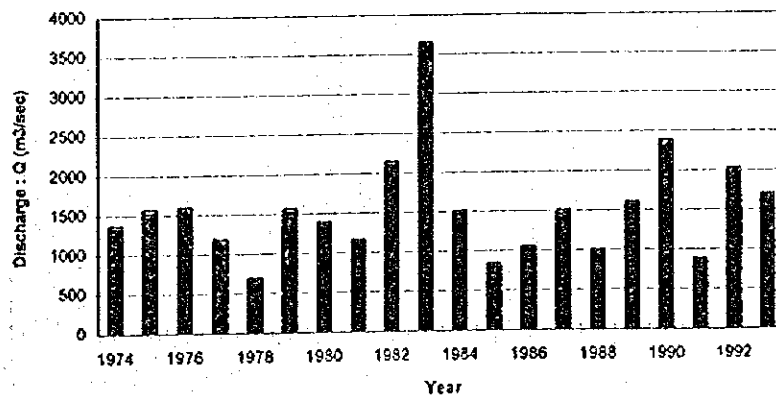
Monthly Mean Discharge Table Period 1974 - 1993 (20 years)  
 St. No. 65993000  
 St. Name Salto Cataratas

	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug	Sep.	Oct	Nov.	Dec.	Mean
1	1974	1552.40	1584.84	1415.27	996.14	1437.30	1784.18	1619.77	1068.26	1849.10	757.55	1144.48	1222.76	1369.3
2	1975	1390.39	1257.37	996.58	786.92	608.74	707.33	764.61	1388.42	1944.45	3801.99	1884.78	3379.80	1575.8
3	1976	2051.89	1516.45	1113.77	1253.17	821.94	2559.15	1076.06	2189.55	1834.98	1387.84	2032.27	1337.10	1597.8
4	1977	1530.66	1613.11	1177.89	1166.33	484.45	892.47	718.82	835.90	850.93	1653.79	1722.05	1618.94	1188.7
5	1978	554.89	372.00	450.48	281.13	152.90	326.35	1334.34	1268.13	1227.30	588.52	913.93	873.74	695.0
6	1979	565.52	297.79	588.76	624.77	3627.12	1150.22	798.80	1409.85	1861.23	2136.84	3614.78	2166.84	1570.2
7	1980	1305.16	1223.21	1655.89	574.97	803.94	618.85	857.35	1375.08	2878.46	1850.50	1652.28	1899.92	1381.3
8	1981	2206.35	1419.32	865.19	1163.22	1134.18	990.12	599.56	517.27	546.27	682.15	946.38	2942.75	1167.7
9	1982	1106.16	1046.75	955.26	522.10	538.53	1466.02	4856.87	1432.84	839.18	3356.15	6344.82	3388.39	2154.4
10	1983	1395.45	1367.57	3438.17	1931.22	6836.73	4494.71	12769.25	2706.40	2911.23	2744.61	2111.10	1228.39	3661.2
11	1984	1035.74	583.76	996.56	1197.68	1080.97	2522.66	1282.66	2827.27	1463.27	1425.27	1765.48	1617.44	1516.5
12	1985	974.23	1045.30	978.69	1319.82	1212.65	1021.23	819.40	766.73	428.70	436.02	690.00	426.87	843.3
13	1986	452.21	698.30	656.00	1016.58	1480.92	1568.88	1117.06	1058.60	1112.48	1143.87	1146.12	1238.11	1057.4
14	1987	928.23	1400.14	904.68	1159.57	4304.11	2667.23	1747.76	1029.48	686.27	949.74	1456.17	897.26	1510.8
15	1988	852.69	664.50	697.77	668.48	2579.77	2321.28	1226.52	799.84	508.95	430.97	762.67	576.42	1007.4
16	1989	1072.58	2521.37	1196.89	1008.20	1687.85	1048.33	1023.11	1529.97	4309.50	1944.65	1212.05	745.68	1608.3
17	1990	2571.12	1544.43	904.42	1591.77	1848.37	4573.57	2338.84	3353.10	3636.05	2976.21	2061.68	1330.56	2394.5
18	1991	803.95	610.61	551.63	669.47	663.94	1438.75	1156.35	841.11	787.93	927.18	967.48	1249.63	889.0
19	1992	1050.11	732.66	1145.73	1361.23	4295.36	5665.82	2443.71	2061.08	1705.43	1522.40	1381.70	1030.74	2033.0
20	1993	1026.56	1289.62	1380.32	1107.88	2337.08	1921.40	1600.97	1245.08	1487.97	4748.45	1160.33	1158.84	1705.3
	Mean	1221.31	1159.46	1103.50	1020.03	1896.84	1986.93	2007.44	1485.45	1643.48	1773.19	1748.53	1516.51	1546.8

Monthly Mean Discharge  
 St. No. Salto Cataratas ( Iguacu )  
 1974 - 1993 ( 20 years )



Annual Mean Discharge  
 St. No. Salto Cataratas ( Iguacu )  
 1973 - 1993 ( 20 years )



Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

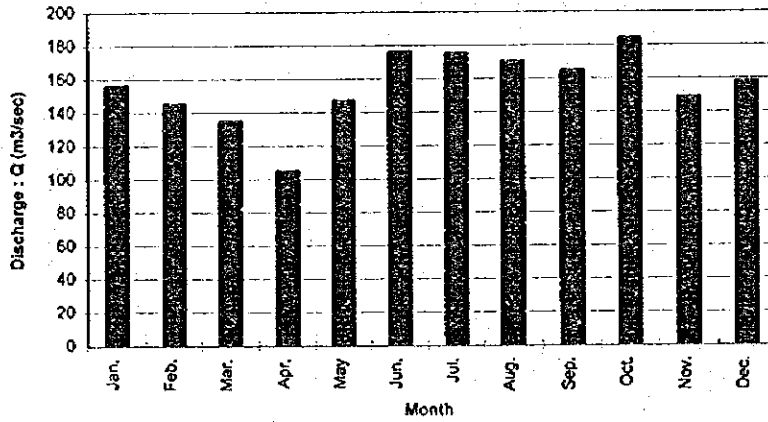
St No. 65175000

St Name Divisa

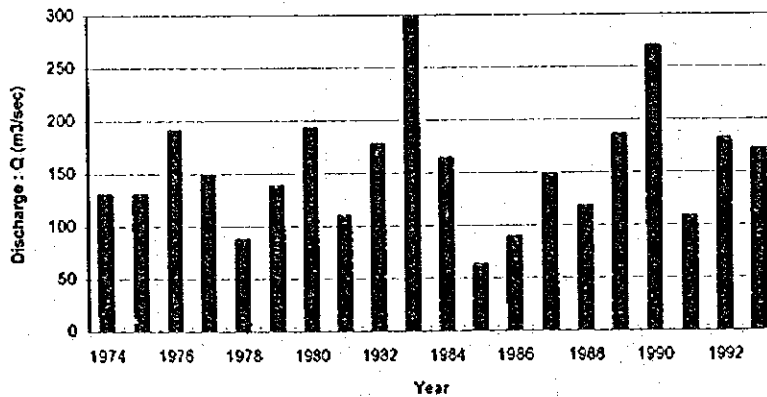
	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1	1974	247.80	199.44	242.58	122.24	68.86	93.74	168.46	120.83	135.30	61.70	66.68	43.83	130.96
2	1975	78.25	49.78	79.59	51.95	45.87	42.82	65.65	156.53	112.63	285.08	168.65	438.45	131.27
3	1976	274.27	155.99	184.47	151.65	120.58	348.37	151.80	278.62	190.15	123.91	155.59	159.22	191.22
4	1977	229.99	281.28	168.76	214.25	84.58	72.61	68.01	78.00	67.81	225.71	150.59	152.38	149.50
5	1978	81.16	68.25	106.60	49.03	43.54	57.88	81.25	123.36	165.25	87.48	105.43	93.44	88.56
6	1979	61.79	40.81	42.30	38.51	262.69	79.03	93.35	93.57	169.11	277.68	238.67	271.96	139.12
7	1980	176.89	160.86	182.41	121.20	74.59	70.80	228.56	249.96	432.87	216.43	150.60	256.55	193.48
8	1981	373.71	163.36	71.20	60.35	47.71	39.52	42.47	46.24	57.38	113.92	133.07	176.77	110.48
9	1982	73.97	142.34	117.67	66.62	50.65	119.17	383.03	126.09	76.07	235.26	402.53	339.45	177.74
10	1983	182.21	130.20	250.41	149.35	334.88	505.69	717.82	381.71	281.16	350.24	136.13	175.72	299.71
11	1984	136.57	69.20	87.79	83.43	125.79	211.09	136.80	413.57	207.18	164.28	217.32	123.01	164.67
12	1985	68.74	103.13	87.65	134.13	73.54	49.87	46.50	31.63	51.08	39.71	53.67	25.64	63.77
13	1986	57.13	87.18	76.72	80.43	53.32	50.62	34.05	56.46	93.60	109.03	120.43	261.00	90.16
14	1987	193.63	199.54	79.34	69.16	363.31	290.83	139.58	116.02	103.50	119.03	61.57	49.15	148.72
15	1988	73.37	86.89	99.31	53.06	349.64	275.40	102.09	53.08	81.86	111.94	88.70	45.08	118.37
16	1989	163.48	322.04	202.56	184.84	231.10	71.88	90.84	263.64	361.00	156.42	(134.62)	56.46	188.57
17	1990	404.80	223.53	148.43	183.41	187.51	359.23	287.99	326.24	341.29	327.68	262.67	192.36	270.45
18	1991	(72.72)	(94.76)	(87.89)	(77.91)	(69.35)	(142.12)	(147.31)	(121.46)	(64.84)	(154.60)	(134.62)	(138.01)	108.80
19	1992	(103.95)	(96.87)	(151.64)	105.63	172.82	505.60	352.34	286.23	137.97	109.35	96.38	70.14	182.41
20	1993	77.30	237.58	240.11	111.60	184.37	147.72	175.60	93.15	176.32	425.65	100.91	95.69	172.17
	Mean	156.59	145.65	135.47	105.44	147.24	176.70	175.68	170.82	165.32	184.76	148.95	158.27	155.91

(Note) (...): correlated value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. 65175000 Divisa ( Negro River )  
1974 - 1993 ( 20 years )



Annual Mean Discharge  
St. No. 65175000 Divisa ( Negro River )  
1974 - 1993 ( 20 years )



Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

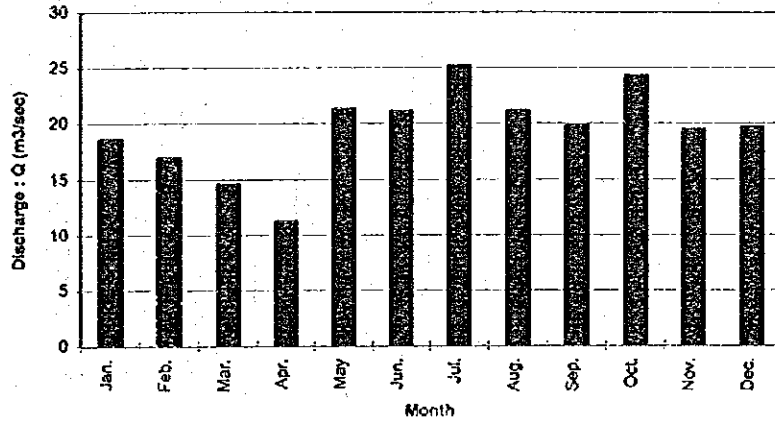
St. No. 65260000

St. Name Foz do Cachdeira

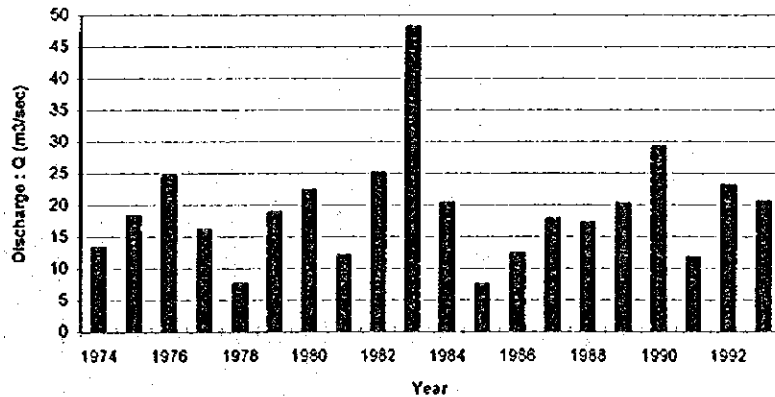
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	(24.66)	(24.26)	(24.92)	(11.36)	(3.76)	(10.53)	(18.45)	(11.93)	(17.49)	(4.37)	(7.21)	(2.40)	13.44
2 1975	(9.96)	(6.47)	(11.70)	(4.66)	(2.58)	(3.73)	(6.48)	(21.81)	(22.31)	(52.10)	(20.10)	(59.00)	18.41
3 1976	(34.53)	(21.86)	(24.10)	(18.96)	(12.83)	(50.52)	(16.25)	(37.15)	(25.70)	(13.66)	(23.36)	(19.26)	24.87
4 1977	(24.85)	(33.36)	(18.28)	(22.25)	(5.26)	(4.96)	(5.93)	(8.96)	(6.76)	(28.93)	(17.44)	(17.74)	16.23
5 1978	(4.75)	(3.09)	(9.01)	(1.91)	(0.37)	(2.29)	(9.92)	(14.99)	(18.14)	(7.56)	(10.50)	(10.18)	7.73
6 1979	(5.32)	(0.79)	(3.10)	(2.46)	(40.94)	(8.78)	(7.66)	(11.12)	(24.28)	(45.39)	(43.67)	(34.41)	18.99
7 1980	(15.29)	(15.02)	(23.61)	(10.00)	(7.38)	(5.49)	(28.76)	(28.93)	(56.29)	(27.88)	(18.15)	(32.53)	22.44
8 1981	(54.06)	(18.07)	(5.65)	(3.53)	(2.84)	(1.46)	(0.76)	(1.88)	(3.90)	(14.11)	(15.47)	(23.59)	12.11
9 1982	(7.75)	(14.57)	(11.23)	(3.42)	(2.77)	(16.33)	(63.65)	(21.19)	(10.01)	(32.71)	(66.08)	(53.26)	25.25
10 1983	(25.55)	(25.38)	(38.96)	(16.28)	(55.47)	(80.21)	(164.52)	(61.44)	(32.50)	(43.82)	(19.14)	(15.90)	43.25
11 1984	(11.80)	(5.22)	(6.76)	(9.56)	(17.67)	(30.38)	(18.70)	(55.08)	(23.60)	(18.95)	(29.08)	(19.10)	20.42
12 1985	(6.40)	(13.58)	(10.25)	(21.06)	(6.65)	(1.99)	(2.51)		(2.53)	(0.82)	12.40	5.40	7.60
13 1986	3.20	11.10	9.30	19.10	11.90	9.80	4.30	7.20	11.50	15.00	18.10	29.50	12.50
14 1987	22.60	22.80	6.30	5.50	54.10	24.00	17.90	13.40	7.00	24.10	7.80	9.40	17.91
15 1988	18.20	18.80	17.90	8.50	61.90	29.30	9.00	4.20	7.60	15.50	7.00	9.70	17.30
16 1989	36.60	35.50	15.00	20.20	20.70	7.00	14.30	13.60	43.40	24.90	8.10	4.60	20.33
17 1990	41.70	15.70	9.10	20.90	24.70	57.80	34.30	31.10	28.50	40.70	31.60	15.90	29.33
18 1991	8.50	7.00	7.50	6.20	6.60	20.80	16.80	22.90	4.99	21.40	7.40	11.50	11.79
19 1992	7.70	14.40	20.80	10.20	62.90	37.70	46.20	27.90	18.20	8.50	14.90	9.80	23.27
20 1993	10.40	34.00	19.70	10.20	25.70	19.90	18.10	(7.32)	33.00	46.20	12.70	11.00	20.69
Mean	18.69	17.05	14.66	11.31	21.35	21.15	25.22	21.16	19.88	24.34	19.51	19.71	19.45

(Note) (...): correlated value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. 65260000 Foz do Cachdeira (Timbo River)  
1974 - 1993 (20 Years)



Annual Mean Discharge  
St. No. 65260000 Foz do Cachdeira (Timbo River)  
1974 - 1993 (20 Years)



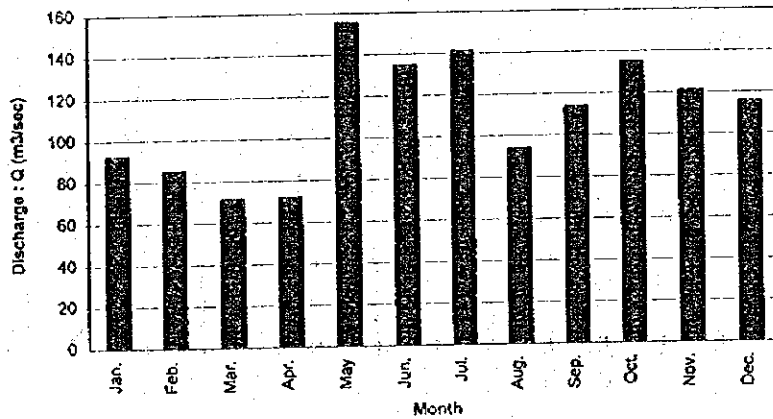


Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

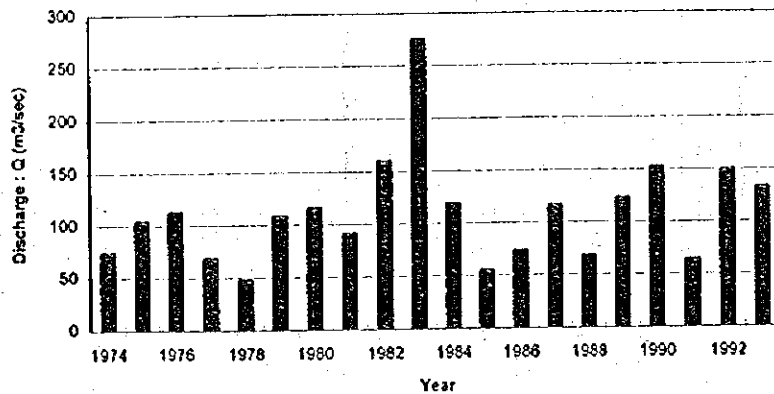
St. No. 65825000  
St. Name Santa Clara

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	101.49	112.26	93.28	50.21	32.58	75.10	77.78	59.12	98.60	63.86	68.59	66.35	74.93
2 1975	63.48	88.72	71.02	46.15	37.45	52.05	43.14	72.56	123.25	290.10	143.47	225.00	104.70
3 1976	128.54	81.65	78.36	66.18	83.15	209.86	82.08	145.65	131.06	85.29	124.47	127.27	113.65
4 1977	108.90	94.13	90.14	71.00	33.85	60.27	48.40	45.21	47.89	76.40	83.96	69.55	69.14
5 1978	30.63	18.24	25.84	14.49	16.09	24.28	128.82	88.01	78.15	41.61	60.23	52.29	48.22
6 1979	56.13	47.77	45.20	28.38	179.26	59.13	45.97	90.11	160.64	235.59	229.58	133.60	109.28
7 1980	131.16	82.89	82.73	47.72	92.25	84.59	134.70	135.23	231.03	140.37	85.94	151.23	116.65
8 1981	157.02	150.25	72.70	75.58	69.96	62.45	48.87	32.93	29.92	99.44	90.07	213.52	91.89
9 1982	86.88	54.50	33.78	17.85	18.40	183.89	381.05	110.06	52.66	220.21	496.02	268.35	160.30
10 1983	194.42	119.20	187.81	181.92	575.10	354.51	849.34	114.72	257.74	244.98	153.89	82.15	275.57
11 1984	57.95	59.77	83.50	68.85	113.13	196.78	91.34	178.90	117.42	82.89	185.89	175.87	119.36
12 1985	60.47	84.91	63.79	158.49	67.71	44.37	60.13	33.44	36.74	20.69	23.22	13.56	55.63
13 1986	30.33	73.60	65.53	67.54	130.61	107.55	37.89	53.94	67.79	64.12	63.63	120.49	73.59
14 1987	59.32	99.60	42.85	67.62	495.63	184.86	109.58	67.38	40.49	74.32	81.59	78.00	116.77
15 1988	53.98	66.29	60.02	66.09	239.37	149.69	69.78	33.92	24.50	23.90	17.88	18.75	68.68
16 1989	109.38	187.70	117.29	81.39	166.92	50.79	76.10	134.32	267.76	150.64	80.12	59.45	123.49
17 1990	222.81	88.83	51.08	102.44	113.93	196.98	183.29	186.88	213.56	258.12	140.28	74.81	152.75
18 1991	35.71	31.15	22.45	45.06	35.42	150.19	93.12	55.77	28.41	78.40	89.95	107.73	64.45
19 1992	79.45	65.93	70.60	74.86	388.50	333.49	149.82	167.13	134.00	140.17	122.55	78.17	150.38
20 1993	65.36	98.13	74.41	70.24	220.26	114.87	124.16	76.73	140.03	313.08	83.91	200.72	133.49
Mean	92.67	85.28	71.61	72.10	155.48	134.79	141.32	94.11	114.08	135.21	121.26	115.84	111.15

Monthly Mean Discharge  
St. No. 65825000 Santa Clara ( Jordao )  
1974 - 1993 ( 20 years )



Annual Mean Discharge  
St. No. 65825000 Santa Clara ( Jordao )  
1973 - 1993 ( 20 years )



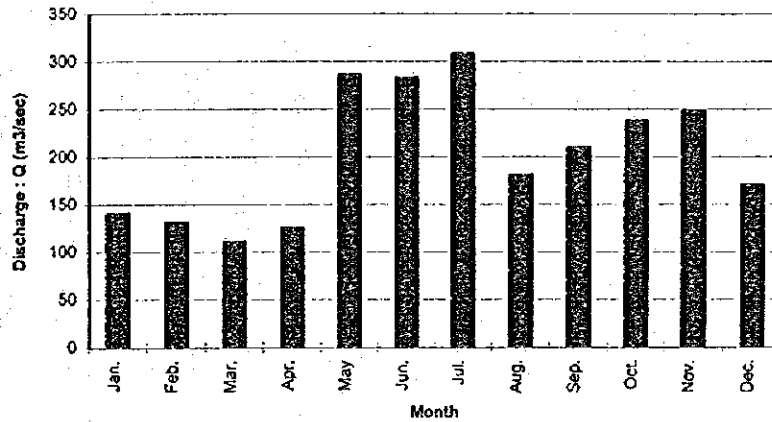
Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

St. No. 65960000  
St. Name Aguas do Vere

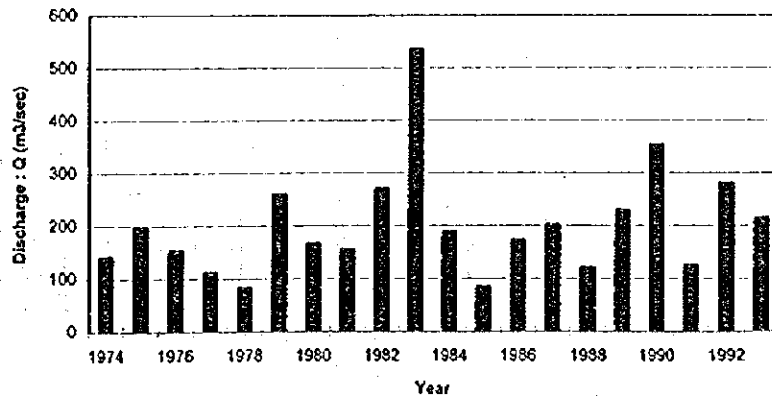
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1 1974	158.23	131.55	90.59	68.21	102.82	241.92	152.62	88.74	225.12	91.45	177.66	181.14	142.50
2 1975	213.08	166.92	85.76	69.33	56.95	112.48	137.56	161.79	283.72	541.39	278.26	282.22	199.12
3 1976	207.74	137.24	70.44	74.98	103.43	267.42	115.32	217.92	179.22	163.43	227.33	97.34	155.15
4 1977	106.25	68.10	86.21	58.43	31.67	107.97	86.52	146.76	120.19	176.05	202.35	156.88	112.28
5 1978	52.53	25.95	19.42	7.78	9.17	27.33	232.23	128.39	159.18	73.55	164.16	112.78	84.37
6 1979	43.38	37.07	45.54	113.65	696.77	160.38	150.03	258.58	236.62	614.38	524.96	238.92	260.88
7 1980	224.49	145.91	145.78	55.50	114.54	70.38	149.77	238.40	222.18	157.45	226.20	269.05	168.30
8 1981	195.30	199.77	90.55	157.26	138.11	124.44	57.89	39.54	47.25	97.85	248.32	481.47	158.31
9 1982	123.14	110.62	60.62	24.77	38.58	367.97	609.66	188.77	100.30	328.89	969.71	331.46	271.21
10 1983	134.44	126.02	633.03	283.13	1111.93	481.90	2390.55	(211.16)	371.85	259.10	306.00	133.05	536.85
11 1984	91.03	100.91	95.64	192.64	158.96	389.04	159.11	373.40	207.53	168.74	225.40	122.57	190.25
12 1985	63.85	107.60	56.77	133.05	90.41	65.70	72.52	78.36	75.25	90.19	144.99	45.99	85.35
13 1986	58.79	184.07	130.41	216.42	324.95	255.81	87.65	156.10	252.06	219.09	119.82	81.88	173.92
14 1987	75.66	181.54	57.99	207.17	725.64	366.38	193.03	115.00	67.88	162.19	188.51	102.89	203.66
15 1988	73.45	48.98	34.24	73.67	466.58	373.71	140.86	53.91	34.21	66.21	62.78	39.02	122.30
16 1989	287.60	377.17	134.54	118.53	238.98	85.49	164.45	209.53	647.51	281.05	147.05	79.26	230.76
17 1990	390.97	172.72	61.78	333.65	299.92	936.74	290.72	412.65	468.72	428.27	253.72	204.03	354.49
18 1991	69.76	51.41	29.91	70.21	44.54	402.92	189.01	114.13	57.42	175.55	132.75	181.05	126.56
19 1992	109.69	106.04	207.98	179.30	647.72	470.77	529.57	265.88	257.10	204.14	247.78	152.88	281.57
20 1993	148.14	161.29	91.26	87.26	345.43	362.55	264.81	175.77	199.04	478.44	139.07	136.51	215.80
Mean	141.38	132.04	111.42	126.25	287.06	283.57	309.19	181.74	210.62	238.87	249.34	171.52	203.58

(Note) (...): correlated value, blank is uncorrelated value

Monthly Mean Discharge  
St. No. 65960000 Aguas do Vere (Chopim)  
1974 - 1993 (20 years)



Annual Mean Discharge  
St. No. 65960000 Aguas do Vere (Chopim)  
1974 - 1993 (20 years)



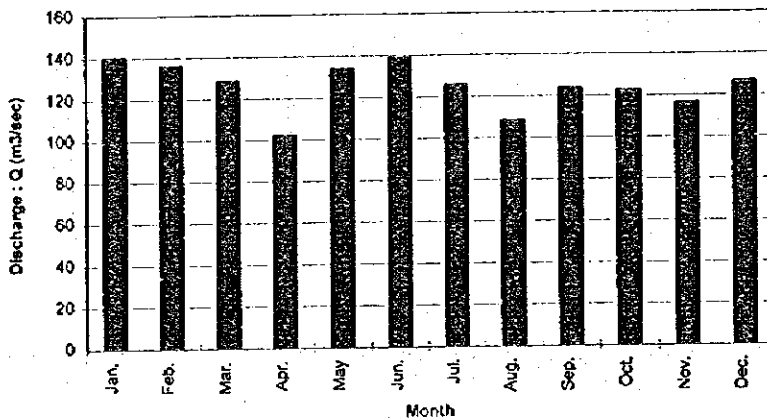
Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

St. No. 81200000

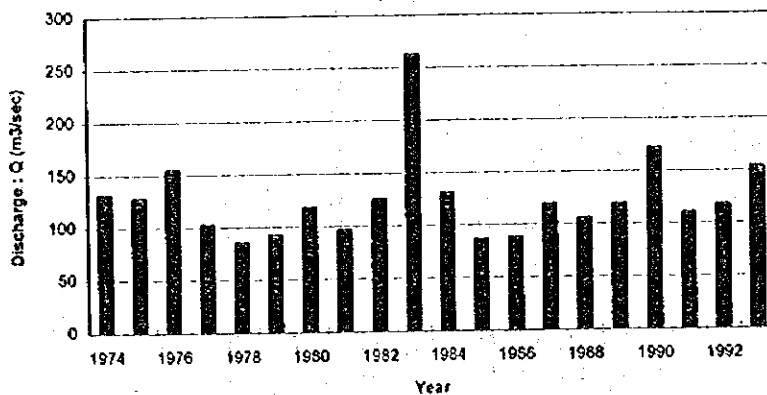
St. Name Capela do Ribeira

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1974	234.71	133.85	189.93	127.31	107.68	141.86	99.02	110.58	115.30	118.44	103.23	98.92	131.74
1975	124.94	179.35	172.11	95.64	85.78	88.28	129.51	107.64	89.06	155.65	138.21	179.39	128.80
1976	187.23	152.24	187.78	115.97	157.35	171.53	147.89	172.64	159.52	144.01	145.76	123.80	155.48
1977	133.30	146.41	116.24	141.75	94.87	89.09	83.91	76.78	74.31	93.78	81.58	103.43	102.95
1978	78.34	71.63	91.90	60.38	74.16	67.14	95.56	80.66	136.45	64.83	130.86	78.51	85.95
1979	78.50	61.85	74.16	57.49	111.06	59.69	59.76	67.20	133.92	143.71	111.28	156.26	92.91
1980	143.96	123.67	118.49	107.64	82.51	82.43	122.38	112.84	138.33	105.76	88.17	195.54	118.66
1981	211.50	125.30	98.99	89.48	82.59	75.03	69.89	65.08	62.20	93.02	84.03	107.99	97.09
1982	67.75	124.90	78.66	63.05	62.16	152.13	181.49	97.83	75.96	153.52	233.86	221.52	126.07
1983	198.34	163.07	188.62	185.72	371.17	566.07	380.27	208.41	331.52	213.42	182.79	169.68	253.26
1984	149.47	136.64	122.22	118.09	135.27	124.94	104.91	139.30	142.66	100.27	150.42	150.64	131.24
1985	111.17	133.91	110.30	104.25	91.23	82.90	75.33	68.01	75.76	65.04	69.16	54.19	86.77
1986	68.90	117.54	99.61	71.64	95.43	67.39	59.65	85.82	63.66	71.05	85.99	177.90	88.72
1987	123.91	165.08	83.57	80.33	217.25	204.56	113.57	93.46	99.16	95.68	86.90	71.59	119.59
1988	80.15	111.38	108.52	84.55	237.74	154.57	99.75	82.30	81.50	83.67	69.08	76.51	105.81
1989	133.84	145.74	104.81	104.69	150.12	97.93	134.92	113.44	130.06	92.85	86.37	137.79	119.38
1990	364.62	169.14	139.48	115.52	116.47	114.72	203.80	169.83	195.73	178.40	179.46	120.76	172.33
1991	115.11	132.68	177.43	112.66	106.14	120.23	95.32	88.83	76.83	113.44	86.43	105.90	110.94
1992	77.98	96.87	163.81	99.92	180.52	155.14	121.14	128.08	111.91	109.65	94.24	82.70	118.50
1993	125.70	229.27	149.58	112.88	123.87	167.46	140.41	103.63	187.47	258.55	124.10	125.40	154.03
Mean	140.47	136.04	128.81	102.45	134.17	139.15	125.97	108.62	124.07	122.74	116.60	126.97	125.50

Monthly Mean Discharge  
St. No. 81200000 Capela da Ribeira (Ribeira River)  
1974 - 1993 (20 years)



Annual Mean Discharge  
St. No. 81200000 Capela da Ribeira (Ribeira River)  
1974 - 1993 (20 years)



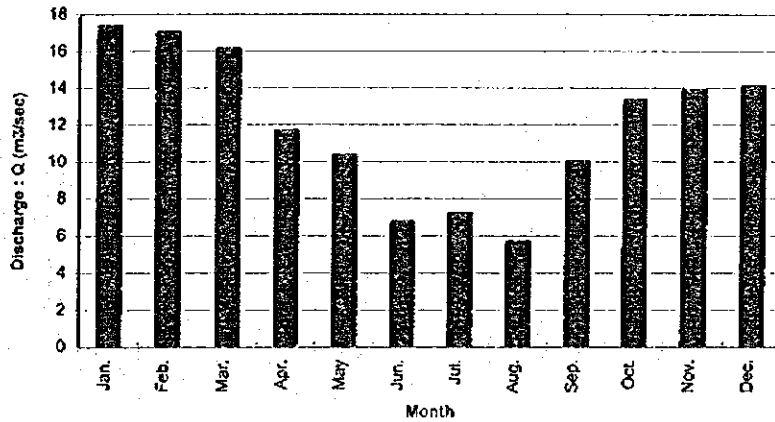
Monthly Mean Discharge Table Period 1974 - 1993 (20 years)

St. No. 82170000

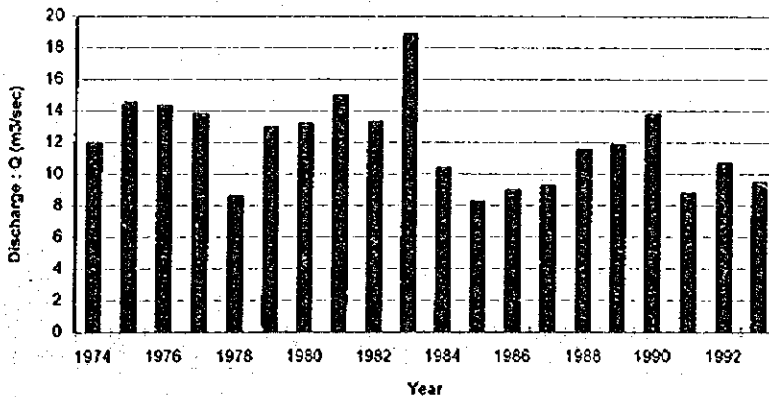
St. Name Morretes

	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Mean
1	1974	21.70	15.84	31.07	12.29	4.97	5.82	4.43	2.78	7.89	8.71	6.81	21.73	12.00
2	1975	20.38	21.25	14.45	11.20	11.64	8.29	8.57	8.30	8.33	17.98	23.06	21.39	14.57
3	1976	27.12	22.04	20.48	11.07	24.26	9.37	9.61	10.23	9.64	8.99	11.41	8.38	14.38
4	1977	18.35	16.64	13.12	16.38	10.22	5.90	4.08	4.37	9.09	25.32	19.13	23.54	13.85
5	1978	12.40	12.17	12.37	7.86	3.61	3.14	3.00	5.49	9.49	6.43	14.99	12.77	8.64
6	1979	17.27	19.34	19.50	10.46	11.10	5.50	6.97	3.71	14.68	15.04	17.27	15.34	13.02
7	1980	23.05	21.84	14.48	8.68	4.65	4.55	11.52	9.48	9.62	17.69	10.47	22.70	13.23
8	1981	36.89	18.53	20.07	14.25	11.47	7.14	8.45	5.14	4.19	19.54	18.45	16.23	15.03
9	1982	14.31	18.98	23.22	13.77	10.76	9.78	8.25	5.20	6.31	16.86	20.48	11.96	13.32
10	1983	27.24	31.84	17.82	19.36	26.23	18.55	24.71	7.16	14.10	19.92	10.13	9.70	18.90
11	1984	8.08	8.34	15.03	9.86	6.53	6.65	3.33	12.42	7.92	6.98	24.90	14.79	10.40
12	1985	16.37	16.89	15.17	13.00	3.63	2.34	0.96	0.67	6.17	5.86	12.27	5.98	8.28
13	1986	6.27	15.93	9.03	5.86	3.24	1.53	5.93	3.83	11.24	9.91	11.14	24.10	9.00
14	1987	13.25	14.06	5.36	12.69	14.03	8.47	3.11	2.30	8.26	13.84	7.14	9.03	9.28
15	1988	10.51	18.59	16.23	15.98	20.39	8.35	4.82	2.73	14.11	13.93	6.91	6.45	11.58
16	1989	31.22	16.27	12.82	9.78	9.99	5.78	5.67	4.85	12.01	9.50	5.33	19.54	11.60
17	1990	24.71	7.45	21.13	19.86	8.09	5.88	11.97	11.33	10.72	14.18	20.84	9.64	13.82
18	1991	9.01	11.27	14.59	9.49	4.36	6.52	2.34	2.19	5.83	12.42	20.08	7.48	8.80
19	1992	4.46	17.61	13.89	4.09	11.06	5.55	12.32	10.24	13.35	11.52	13.42	11.18	10.72
20	1993	5.68	16.61	13.92	8.67	7.62	7.18	4.80	2.35	18.36	13.47	4.37	11.00	9.50
	Mean	17.41	17.07	16.19	11.73	10.39	6.81	7.24	5.74	10.07	13.39	13.93	14.15	12.01

Monthly Mean Discharge  
St. No. 82170000 Morretes ( Litoranea )  
1974 - 1993 ( 20 years )



Annual Mean Discharge  
St. No. 82170000 Morretes ( Litoranea )  
1974 - 1993 ( 20 years )

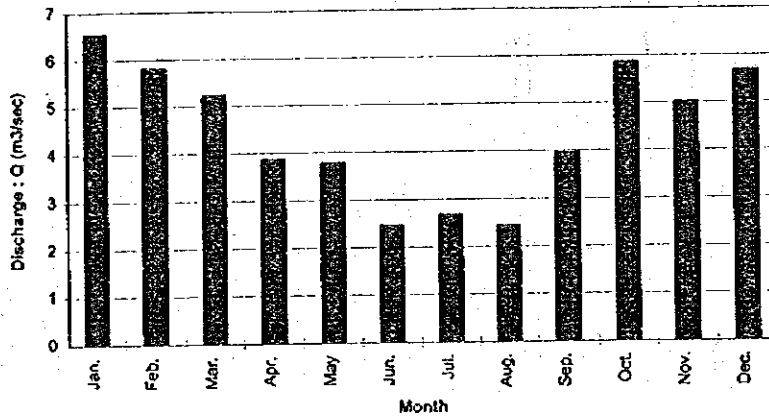


Monthly Mean Discharge Table Period 1974 - 1993 (20 years)  
 St. No. 82195002  
 St. Name Morretes

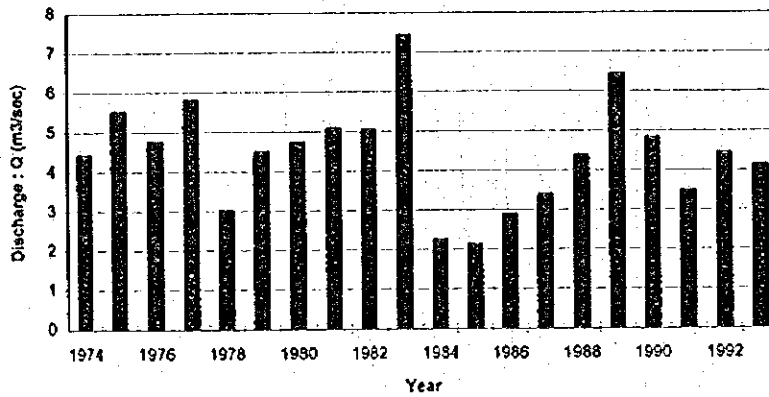
Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep	Oct	Nov.	Dec.	Mean
1 1974	(8.11)	(5.89)	(11.67)	(4.55)	(1.77)	(2.10)	(1.57)	(0.94)	(2.88)	(3.19)	(2.47)	(8.13)	4.44
2 1975	(7.61)	(7.94)	(5.37)	(4.14)	(4.30)	(3.03)	(3.14)	(3.04)	(3.05)	10.46	8.48	5.74	5.53
3 1976	8.57	5.99	6.13	2.96	8.23	3.04	2.99	4.05	3.39	4.89	3.97	3.01	4.77
4 1977	9.24	8.32	6.35	4.81	2.93	1.65	1.22	1.69	4.07	12.21	7.60	9.63	5.83
5 1978	3.56	3.11	4.09	1.75	1.05	1.38	1.18	1.72	4.00	2.47	5.61	6.43	3.03
6 1979	7.10	7.68	6.12	2.95	6.65	1.79	1.77	1.29	4.03	5.02	4.68	5.11	4.52
7 1980	7.71	6.13	5.04	3.14	1.26	1.30	3.46	2.84	4.09	7.43	2.78	11.76	4.75
8 1981	10.55	6.45	5.06	3.88	2.82	1.42	2.74	1.85	1.37	12.37	6.99	5.72	5.10
9 1982	4.16	6.50	6.82	5.64	4.53	5.13	3.15	1.94	1.89	5.31	9.01	6.75	5.07
10 1983	11.45	8.86	5.93	8.99	10.47	7.09	10.85	1.72	7.08	10.44	3.82	2.64	7.45
11 1984	1.51	1.53	2.24	2.34	1.34	1.77	0.63	1.53	0.73	0.71	7.69	5.08	2.26
12 1985	5.63	3.64	2.41	2.70	0.59	0.68	0.39	0.22	1.66	1.83	3.69	2.22	2.14
13 1986	0.76	4.12	2.33	1.58	(1.12)	(0.47)	(2.14)	(1.34)	(4.15)	(3.65)	(4.11)	(9.02)	2.90
14 1987	(4.91)	(5.22)	(1.92)	(4.70)	(5.21)	(3.10)	(1.07)	(0.76)	(3.02)	(5.06)	(2.60)	(3.31)	3.41
15 1988	(3.87)	(6.94)	(6.04)	(5.95)	(7.62)	(3.06)	(1.72)	(0.93)	6.13	5.91	2.34	2.33	4.40
17 1989	17.47	5.17	5.47	4.73	4.75	1.45	2.56	11.14	5.72	3.57	2.17	13.26	6.46
18 1990	9.93	2.48	5.54	4.79	2.65	2.08	4.79	5.18	4.76	7.62	5.36	2.96	4.85
19 1991	3.38	4.38	6.25	3.01	1.78	3.16	0.83	0.94	2.17	4.69	9.15	2.01	3.50
20 1992	1.13	7.01	5.17	1.59	4.28	2.62	5.32	4.81	6.66	4.99	5.56	4.33	4.46
20 1993	4.34	9.09	4.90	3.33	2.43	3.00	2.17	0.90	8.30	5.20	2.05	4.08	4.15
Mean	6.55	5.82	5.24	3.89	3.79	2.46	2.68	2.44	3.95	5.86	5.02	5.68	4.45

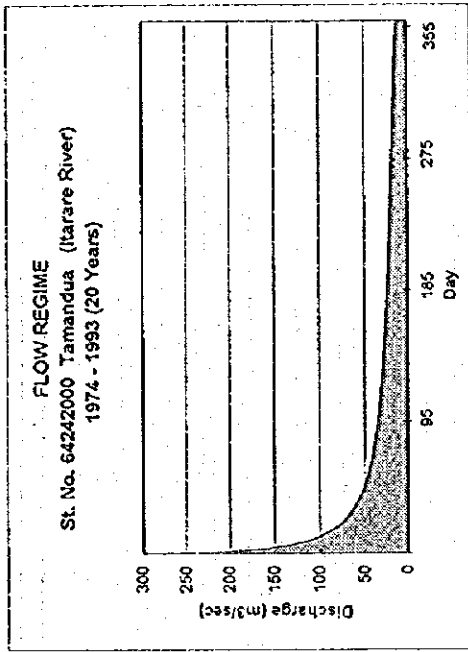
(Note) (...): correlated value, blank is uncorrelated value

Monthly Mean Discharge  
 St. No. 82195002 Morretes (Litoranes)  
 1974 - 1993 (20 Years)



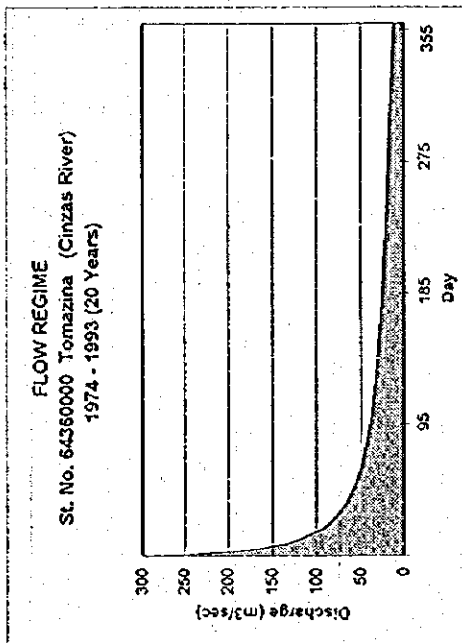
Annual Mean Discharge  
 St. No. 82195002 Morretes (Litoranea)  
 1974 - 1993 (20 Years)





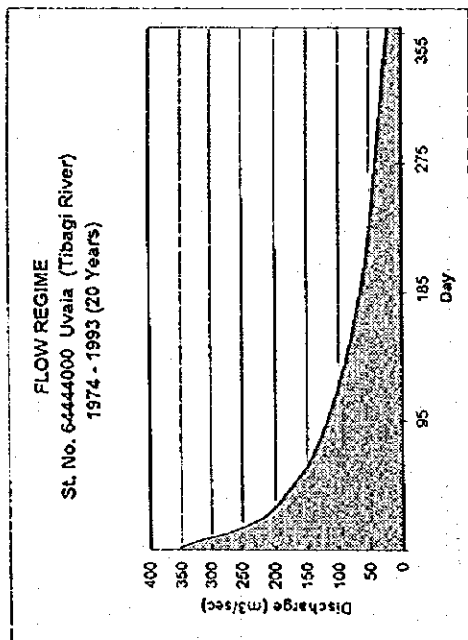
A = 1622 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)				
	95 day	165 day	275 day	355 day	365 day
1 1974	34.58	21.25	14.09	14.09	8.12
2 1975	39.74	24.89	15.68	15.68	11.27
3 1976	48.98	36.60	28.10	28.10	19.56
4 1977	28.60	20.39	16.39	16.39	12.39
5 1978	21.59	15.60	12.00	12.00	9.19
6 1979	28.10	19.59	15.60	15.60	11.30
7 1980	34.10	24.39	19.59	19.59	14.80
8 1981	25.19	16.39	13.19	13.19	9.80
9 1982	40.10	21.59	11.60	11.60	8.89
10 1983	66.00	50.22	38.60	38.60	27.60
11 1984	22.79	16.39	14.00	14.00	11.60
12 1985	16.79	15.60	9.50	9.50	6.50
13 1986	25.59	15.60	14.00	14.00	7.69
14 1987	33.60	24.39	19.99	19.99	15.60
15 1988	24.39	18.39	15.19	15.19	8.89
16 1989	36.60	23.59	17.99	17.99	13.19
17 1990	40.10	31.10	25.59	25.59	19.59
18 1991	31.60	23.19	18.39	18.39	13.19
19 1992	33.60	25.19	21.19	21.19	15.99
20 1993	41.10	26.80	21.99	21.99	15.60
Mean	33.66	23.56	18.13	18.13	13.04



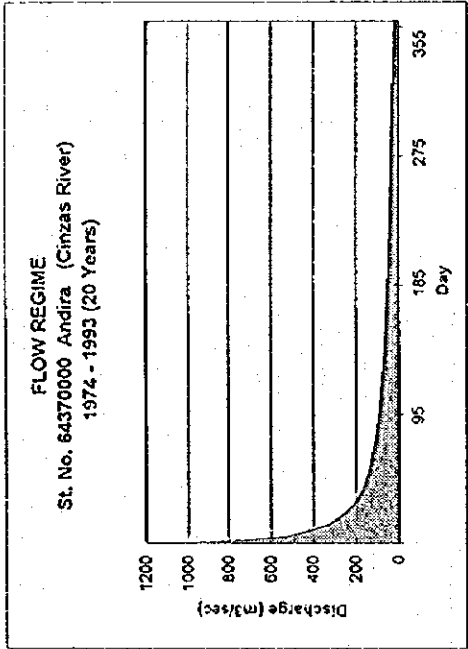
A = 2015 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)				
	95 day	165 day	275 day	355 day	365 day
1 1974	38.39	23.88	16.09	16.09	9.59
2 1975	44.00	27.84	17.79	17.79	13.02
3 1976	57.74	42.87	31.80	31.80	22.04
4 1977	32.80	22.04	16.09	16.09	11.65
5 1978	22.04	16.09	10.27	10.27	7.52
6 1979	33.91	21.19	14.39	14.39	8.90
7 1980	46.47	30.81	24.87	24.87	17.79
8 1981	31.80	17.79	13.02	13.02	7.02
9 1982	55.16	30.81	19.49	19.49	10.86
10 1983	69.89	46.47	35.03	35.03	22.04
11 1984	21.79	16.09	12.33	12.33	9.39
12 1985	19.49	14.39	8.21	8.21	5.50
13 1986	30.81	19.49	14.39	14.39	7.52
14 1987	37.27	24.87	19.49	19.49	14.39
15 1988	26.85	18.04	13.71	13.71	7.52
16 1989	45.23	26.85	18.49	18.49	14.39
17 1990	40.63	29.82	21.19	21.19	14.39
18 1991	27.84	19.49	14.39	14.39	10.27
19 1992	40.63	26.85	20.34	20.34	16.09
20 1993	41.75	25.86	19.49	19.49	13.71
Mean	38.19	25.11	18.09	18.09	12.20



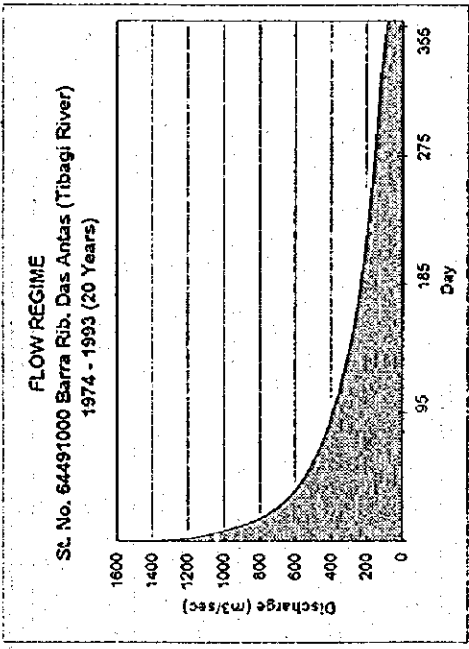
A = 4450 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)				
	95 day	185 day	275 day	355 day	355 day
1 1974	86.00	50.59	34.39	25.47	25.47
2 1975	122.50	53.75	34.39	23.50	23.50
3 1976	126.50	102.00	78.50	39.20	39.20
4 1977	86.00	54.64	35.63	24.81	24.81
5 1978	59.00	34.39	21.75	13.59	13.59
6 1979	131.13	36.86	23.14	13.59	13.59
7 1980	126.00	80.50	47.00	27.87	27.87
8 1981	57.00	27.87	19.36	12.55	12.55
9 1982	171.61	53.75	25.47	13.92	13.92
10 1983	253.50	138.34	82.50	50.59	50.59
11 1984	127.00	84.00	49.69	25.80	25.80
12 1985	47.00	31.83	20.34	14.24	14.24
13 1986	64.14	37.19	26.80	16.47	16.47
14 1987	115.50	61.00	41.00	25.80	25.80
15 1988	47.89	29.31	22.44	14.88	14.88
16 1989	116.00	66.84	41.86	26.13	26.13
17 1990	227.76	132.84	70.00	47.00	47.00
18 1991	61.00	38.42	20.87	22.79	22.79
19 1992	141.00	83.00	52.84	26.80	26.80
20 1993	153.69	93.00	56.50	31.47	31.47
Mean	116.02	64.61	40.58	24.83	24.83



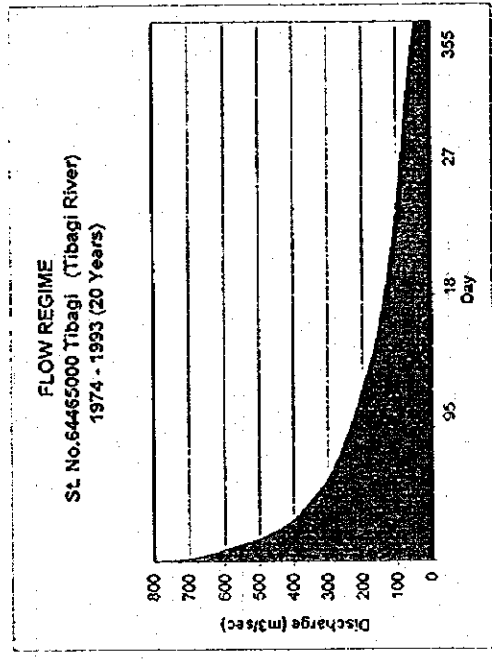
A = 5622 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)				
	95 day	185 day	275 day	355 day	355 day
1 1974	104.00	56.89	38.34	22.16	22.16
2 1975	90.73	47.93	27.52	19.58	19.58
3 1976	147.00	93.37	71.41	39.39	39.39
4 1977	59.29	36.24	26.55	18.72	18.72
5 1978	38.34	24.74	16.25	11.75	11.75
6 1979	59.29	32.31	21.30	14.00	14.00
7 1980	88.09	53.53	38.34	28.47	28.47
8 1981	66.49	32.31	22.16	12.50	12.50
9 1982	133.50	59.29	36.24	19.58	19.58
10 1983	168.00	94.69	64.09	41.49	41.49
11 1984	37.29	26.55	20.44	16.25	16.25
12 1985	44.64	27.52	15.50	8.90	8.90
13 1986	68.89	37.29	25.60	14.00	14.00
14 1987	76.45	47.93	35.19	25.60	25.60
15 1988	52.41	31.36	23.02	14.00	14.00
16 1989	106.66	55.77	36.24	24.74	24.74
17 1990	106.66	67.69	47.93	32.31	32.31
18 1991	77.71	45.69	31.36	21.30	21.30
19 1992	133.50	70.15	45.69	32.31	32.31
20 1993	105.33	59.29	40.44	28.44	28.44
Mean	88.26	50.03	34.18	22.32	22.32



A = 15600 km<sup>2</sup>

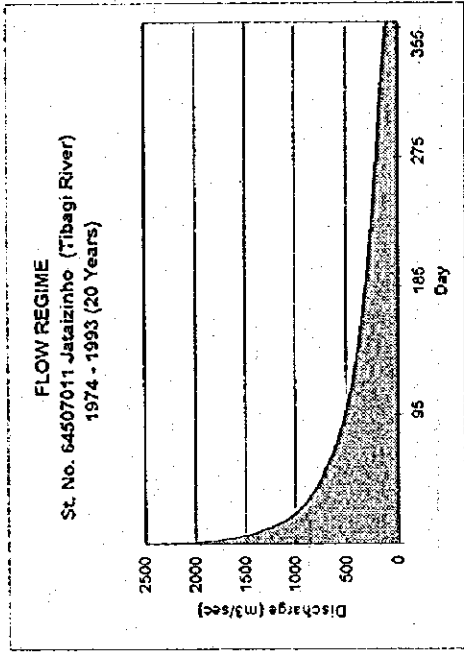
Year	Discharge (m <sup>3</sup> /sec)				
	95 day	185 day	275 day	355 day	365 day
1974	331.30	204.59	166.39	105.00	105.00
1975	363.00	200.39	144.54	105.00	105.00
1976	484.69	345.84	280.59	148.75	148.75
1977	305.29	193.39	128.79	98.00	98.00
1978	190.09	133.00	82.00	36.50	36.50
1979	405.19	137.24	92.00	42.07	42.07
1980	358.59	266.79	177.89	104.00	104.00
1981	248.19	124.59	72.00	43.50	43.50
1982	592.79	249.89	125.64	55.79	55.79
1983	805.59	510.79	313.04	207.50	207.50
1984	369.59	248.19	175.08	117.25	117.25
1985	190.09	134.04	66.59	46.29	46.29
1986	284.39	177.69	119.34	53.39	53.39
1987	387.19	210.50	158.70	118.20	118.20
1988	188.09	123.50	82.00	42.09	42.09
1989	430.00	243.09	155.19	103.00	103.00
1990	630.28	369.59	219.50	155.19	155.19
1991	231.19	146.64	114.09	78.00	78.00
1992	427.79	303.39	203.19	110.00	110.00
1993	414.39	297.69	200.39	137.19	137.19
Mean	381.96	230.94	153.34	95.24	95.24



A = 8948 km<sup>2</sup>

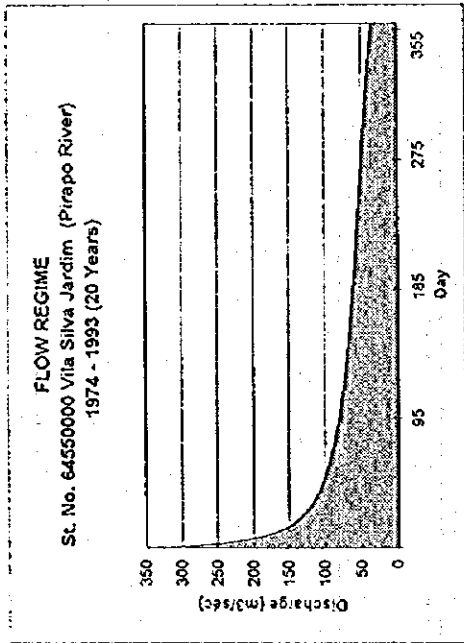
Year	Discharge (m <sup>3</sup> /sec)				
	95 day	185 day	275 day	355 day	365 day
1974	174.00	112.40	88.00	62.10	62.10
1975	220.70	108.20	76.00	52.60	52.60
1976	287.00	204.00	154.00	82.00	82.00
1977	176.00	110.30	72.00	54.50	54.50
1978	108.10	74.00	46.80	17.80	17.80
1979	243.00	76.00	48.80	17.80	17.80
1980	231.00	154.00	96.00	62.10	62.10
1981	122.90	64.00	41.00	16.00	16.00
1982	369.00	125.00	64.00	23.20	23.20
1983	475.60	287.00	172.00	112.40	112.40
1984	239.00	160.00	108.20	68.00	68.00
1985	100.00	72.00	41.00	21.40	21.40
1986	133.40	94.00	64.00	25.00	25.00
1987	231.00	120.80	92.00	60.20	60.20
1988	96.00	66.00	48.80	21.40	21.40
1989	249.00	137.60	92.00	60.20	60.20
1990	420.00	237.00	127.10	88.00	88.00
1991	125.00	84.00	64.00	46.90	46.90
1992	293.00	182.00	116.60	60.20	60.20
1993	295.00	190.00	129.20	86.00	86.00
Mean	220.39	132.92	87.08	51.89	51.89





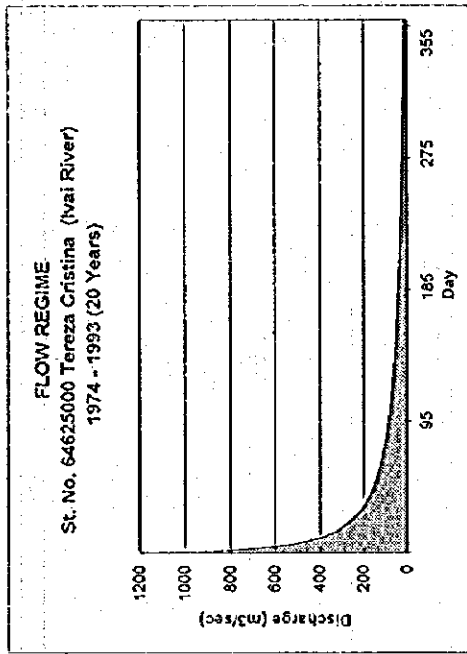
$A = 21985 \text{ km}^2$

Year	Discharge (m <sup>3</sup> /sec)			
	95 day	185 day	275 day	355 day
1	460.69	306.19	216.39	145.00
2	497.59	310.89	185.50	136.00
3	640.00	476.00	385.00	198.79
4	425.00	264.79	185.50	145.00
5	242.40	174.73	104.03	50.50
6	489.34	178.77	125.24	63.12
7	519.13	363.59	277.75	162.81
8	368.64	178.77	104.03	50.50
9	747.40	346.44	191.39	89.89
10	1040.30	668.62	439.35	292.89
11	411.37	303.00	216.66	154.53
12	262.59	186.85	93.42	55.55
13	378.75	227.75	162.61	58.07
14	525.19	292.89	218.66	170.69
15	257.55	174.73	118.17	46.46
16	543.37	338.34	214.12	139.38
17	811.03	456.01	287.84	200.48
18	297.94	186.86	146.45	93.42
19	567.62	400.46	262.59	150.49
20	555.50	411.57	297.94	170.69
Mean	502.08	312.46	211.73	128.70



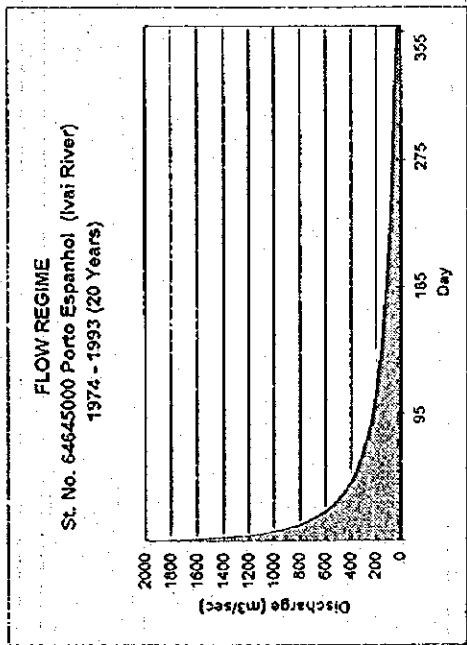
$A = 4627 \text{ km}^2$

Year	Discharge (m <sup>3</sup> /sec)			
	95 day	185 day	275 day	355 day
1	108.39	79.05	60.63	45.80
2	83.00	64.39	51.31	40.45
3	113.89	93.00	80.03	64.39
4	93.00	71.19	55.00	43.12
5	53.15	44.01	39.56	34.31
6	55.00	40.45	36.03	30.87
7	101.00	81.02	66.48	53.15
8	84.00	66.33	55.00	37.78
9	100.00	77.06	60.63	46.72
10	153.74	109.50	97.00	82.40
11	66.33	53.15	40.45	33.45
12	56.87	45.80	33.45	18.55
13	43.12	36.17	30.01	20.09
14	76.06	66.87	43.12	33.45
15	51.31	40.45	28.30	18.55
16	62.51	45.80	37.78	30.87
17	85.00	67.30	55.00	44.01
18	51.31	40.45	30.01	19.33
19	82.01	59.69	44.01	25.02
20	71.19	56.87	44.90	32.59
Mean	79.54	61.38	49.43	37.74



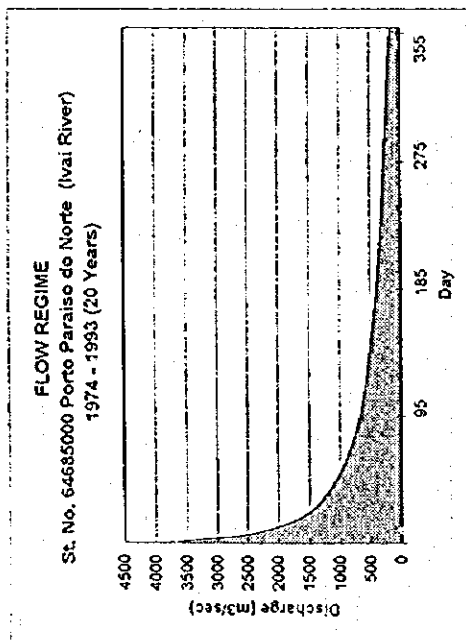
A = 3572 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)			
	95 day	165 day	275 day	355 day
1 1974	48.59	25.04	16.17	9.86
2 1975	66.36	35.11	20.41	12.55
3 1976	86.55	48.59	32.55	18.47
4 1977	48.59	26.14	14.80	10.29
5 1978	33.10	18.01	9.43	1.20
6 1979	72.41	28.59	13.00	7.71
7 1980	83.00	43.69	24.50	15.71
8 1981	51.50	22.45	11.64	6.42
9 1982	120.00	30.63	13.00	4.94
10 1983	229.19	94.31	46.50	24.50
11 1984	88.56	45.79	27.25	15.71
12 1985	33.83	17.55	11.64	6.85
13 1986	49.29	26.14	14.34	6.00
14 1987	62.29	31.27	21.43	13.89
15 1988	41.67	19.39	9.43	4.59
16 1989	89.51	43.69	24.50	12.55
17 1990	146.19	56.75	30.00	18.93
18 1991	33.19	18.47	12.09	8.14
19 1992	113.49	73.55	42.49	6.60
20 1993	105.72	62.46	36.21	14.71
Mean	80.26	38.23	21.57	10.98



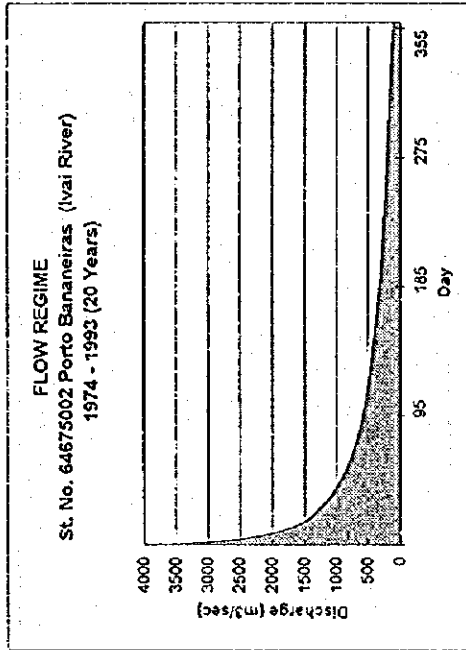
A = 8600 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)			
	95 day	165 day	275 day	355 day
1 1974	140.29	84.39	62.00	34.00
2 1975	200.08	110.79	82.00	36.78
3 1976	262.19	147.19	96.09	45.19
4 1977	140.29	82.79	48.00	34.00
5 1978	100.29	59.19	28.00	16.00
6 1979	218.50	79.59	42.39	22.39
7 1980	232.29	131.09	84.39	57.79
8 1981	170.19	68.30	34.00	18.39
9 1982	308.19	106.59	45.19	16.79
10 1983	556.59	290.39	151.79	79.59
11 1984	225.38	117.29	78.00	48.00
12 1985	117.29	68.39	31.00	16.00
13 1986	149.50	76.39	53.59	16.00
14 1987	186.29	96.09	70.00	53.59
15 1988	124.19	63.59	32.00	12.79
16 1989	289.79	151.79	84.39	45.19
17 1990	368.00	184.00	89.19	59.19
18 1991	94.00	56.39	39.59	26.00
19 1992	266.79	184.00	119.59	45.19
20 1993	250.69	161.00	106.59	62.00
Mean	220.04	115.48	67.89	37.24



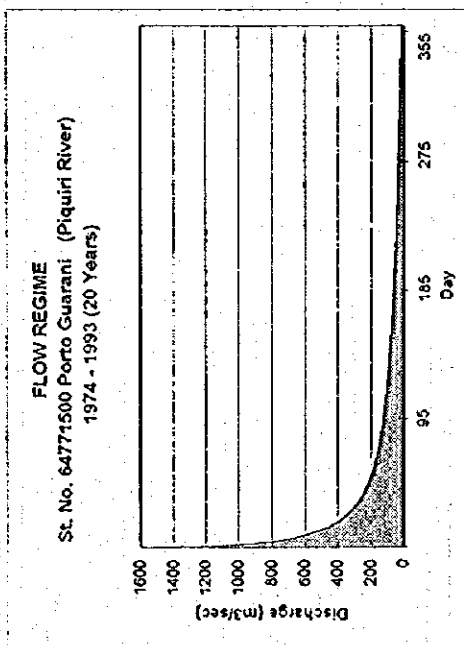
A = 28427 km<sup>2</sup>  
Discharge (m<sup>3</sup>/sec)

Year	95 day	185 day	275 day	355 day
1	576.79	376.79	247.79	182.00
2	660.39	420.29	244.00	185.04
3	787.19	493.19	366.89	228.25
4	500.79	324.25	218.79	143.29
5	276.00	203.34	137.50	67.75
6	683.19	285.59	179.00	98.02
7	687.00	441.00	357.00	276.00
8	588.19	298.38	185.04	120.19
9	896.00	406.50	228.00	131.39
10	1382.89	801.00	531.19	376.79
11	516.00	350.39	260.00	197.00
12	437.39	253.59	155.00	76.00
13	512.19	276.00	215.59	100.75
14	561.59	327.29	260.00	197.00
15	390.00	253.59	167.00	81.50
16	785.79	423.00	298.39	200.09
17	975.79	500.79	340.00	263.19
18	317.59	224.89	176.00	131.39
19	774.39	527.39	363.59	185.00
20	684.58	451.79	324.00	231.19
Mean	650.69	381.95	262.71	173.59



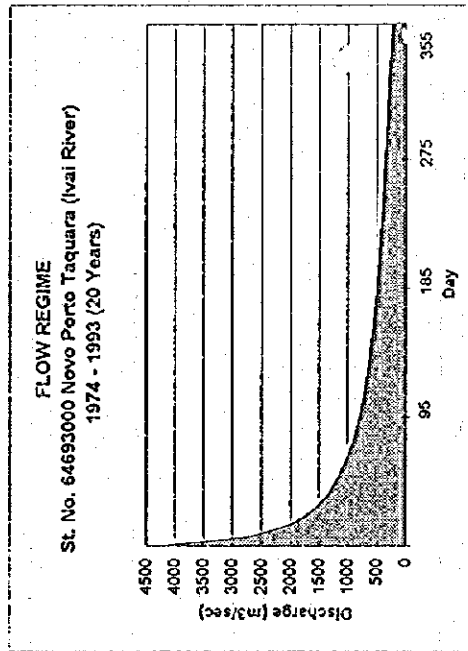
A = 24200 km<sup>2</sup>  
Discharge (m<sup>3</sup>/sec)

Year	95 day	185 day	275 day	355 day
1	406.79	253.50	160.00	108.39
2	541.19	314.79	169.00	112.00
3	650.59	368.39	264.50	151.00
4	381.19	237.59	147.09	97.59
5	216.79	155.50	83.19	43.19
6	592.39	237.59	143.19	70.19
7	573.19	356.09	270.00	196.00
8	477.19	222.00	135.39	70.19
9	804.39	326.59	169.00	73.09
10	1223.00	662.79	419.59	270.00
11	464.39	292.00	196.00	139.29
12	362.00	216.79	112.00	47.00
13	451.59	237.59	155.50	45.08
14	490.00	264.50	201.19	151.00
15	350.19	191.50	112.00	39.39
16	695.59	350.19	232.39	139.29
17	913.19	451.59	264.50	182.50
18	286.50	182.50	135.39	104.78
19	709.19	483.59	320.69	160.00
20	643.59	426.00	292.00	216.79
Mean	561.65	311.55	199.13	120.84



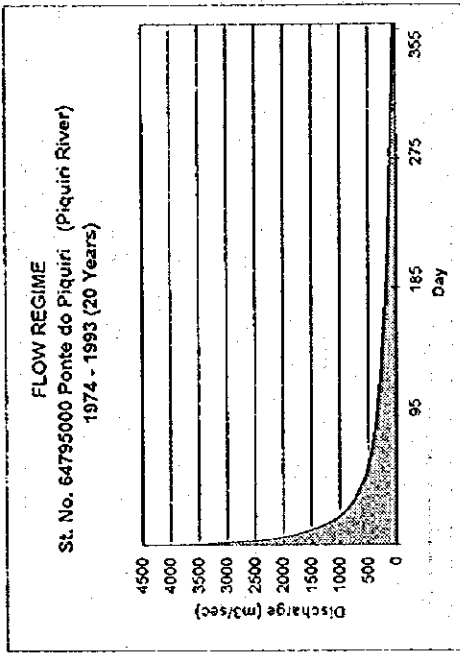
A = 4223 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)				
	95 day	185 day	275 day	355 day	
1	63.23	37.55	22.29	13.95	
2	103.10	57.85	37.59	24.44	
3	132.00	71.56	44.00	28.04	
4	60.29	33.44	21.09	12.50	
5	40.00	21.09	6.29	2.00	
6	118.00	51.50	25.09	11.00	
7	125.00	68.00	42.00	15.29	
8	119.39	46.00	22.69	10.50	
9	178.00	63.59	25.09	9.50	
10	271.00	141.79	75.19	38.00	
11	119.39	62.50	39.00	21.09	
12	68.00	35.14	16.69	6.69	
13	101.25	46.00	29.19	7.09	
14	127.79	63.59	38.00	19.50	
15	69.19	29.19	12.50	5.69	
16	140.39	70.39	42.00	21.09	
17	208.00	105.00	57.00	23.50	
18	53.69	25.69	13.69	9.50	
19	184.00	105.00	57.00	28.34	
20	134.79	72.79	45.00	24.29	
Mean	120.83	60.39	33.58	16.61	



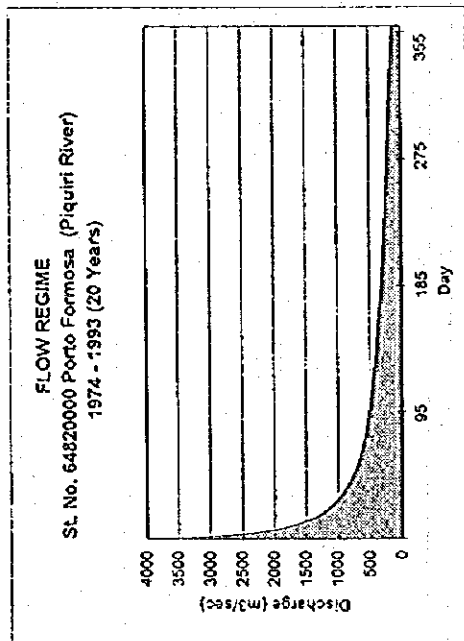
A = 34432 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)				
	95 day	185 day	275 day	355 day	
1	680.06	458.19	328.81	228.00	
2	738.19	474.00	291.79	241.19	
3	914.59	589.00	451.00	298.39	
4	637.29	402.69	278.59	214.79	
5	346.79	256.59	203.79	140.00	
6	756.39	327.00	228.00	166.39	
7	777.89	517.69	428.00	342.39	
8	681.00	373.19	241.19	177.39	
9	1051.00	554.50	307.19	190.59	
10	1724.00	1112.79	829.19	493.97	
11	661.00	494.69	386.59	285.19	
12	647.59	388.69	290.00	159.79	
13	572.69	360.00	267.39	155.39	
14	691.39	437.19	362.19	296.19	
15	510.79	351.19	236.79	162.00	
16	911.79	538.39	391.19	278.59	
17	1164.87	667.19	479.65	360.00	
18	432.59	318.19	254.39	197.19	
19	953.89	658.00	474.00	245.69	
20	761.69	554.50	409.59	294.00	
Mean	777.76	491.69	355.97	246.55	



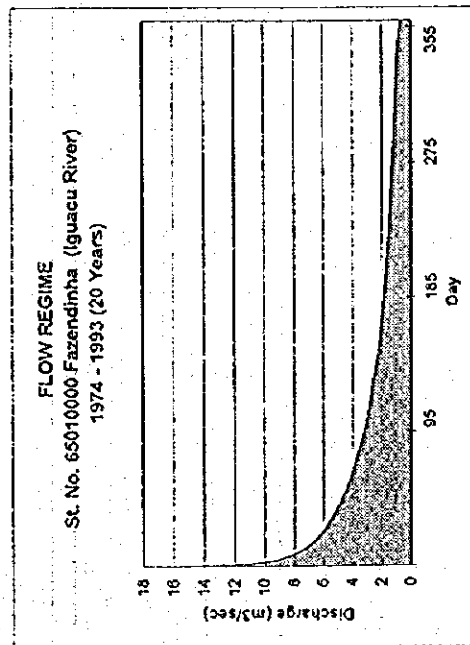
A = 11303 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)				
	95 day	185 day	275 day	355 day	
1	189.00	117.50	75.00	51.79	
2	300.00	174.00	117.59	81.00	
3	356.00	199.10	128.59	91.00	
4	199.19	114.89	61.00	42.59	
5	109.50	68.50	35.79	19.19	
6	356.00	159.00	96.00	46.00	
7	329.39	198.00	133.79	71.00	
8	333.19	147.29	81.00	44.29	
9	551.50	233.00	96.00	35.79	
10	778.79	428.00	238.50	150.00	
11	285.59	150.00	104.09	71.00	
12	222.50	123.00	56.00	29.00	
13	289.19	150.00	101.39	29.00	
14	337.00	180.00	123.00	71.00	
15	199.19	101.39	48.00	22.00	
16	404.00	208.79	144.59	91.00	
17	592.00	318.00	186.39	96.00	
18	165.00	96.00	66.00	46.00	
19	520.00	337.00	192.79	117.59	
20	396.00	233.00	156.00	98.69	
Mean	345.63	186.73	111.87	65.20	



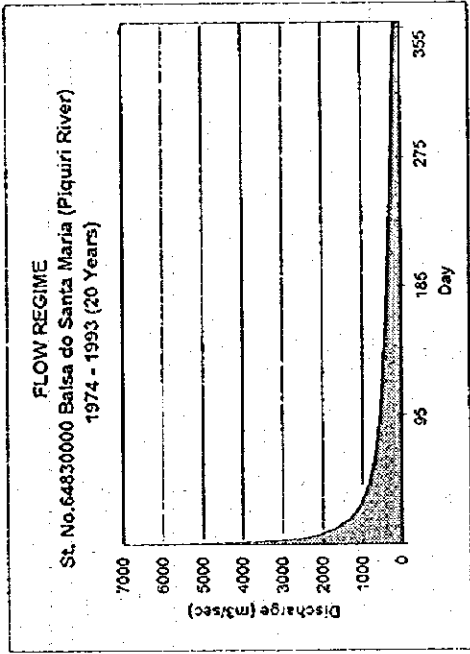
A = 17500 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)				
	95 day	185 day	275 day	355 day	
1	362.50	248.19	178.67	128.78	
2	436.34	316.00	235.19	167.08	
3	501.14	334.59	237.79	181.00	
4	325.29	227.50	137.27	106.58	
5	230.00	138.64	110.44	66.03	
6	523.61	256.00	176.36	95.00	
7	482.50	347.00	264.69	153.23	
8	447.00	240.39	181.00	116.36	
9	774.79	374.89	212.50	102.72	
10	1082.39	688.89	443.44	334.59	
11	376.00	261.79	207.50	144.11	
12	362.50	240.39	144.11	81.23	
13	381.34	235.19	185.79	79.51	
14	501.14	300.50	222.50	155.51	
15	298.66	195.39	118.44	64.36	
16	588.79	347.00	245.50	178.67	
17	789.19	489.85	340.79	206.00	
18	287.59	195.39	144.11	106.58	
19	724.50	512.33	331.50	195.39	
20	519.80	365.50	270.50	202.59	
Mean	496.85	315.79	219.41	143.22	



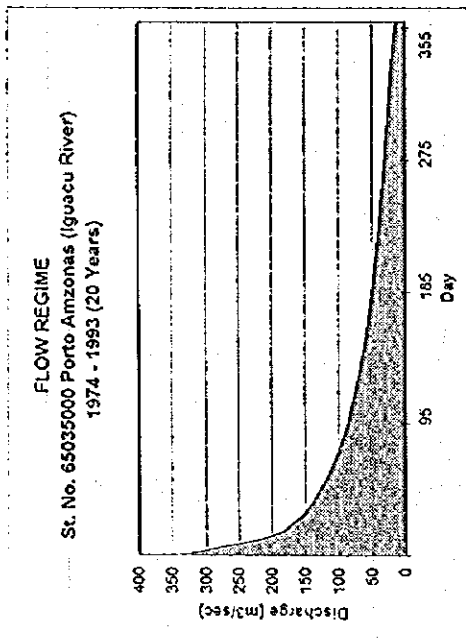
A = 110 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)				
	95 day	165 day	275 day	355 day	0.85
1974	2.93	1.77	1.19	0.86	
1975	4.69	2.37	1.48	1.07	
1976	4.47	2.85	2.04	1.45	
1977	3.13	1.85	1.19	0.76	
1978	1.88	1.25	0.90	0.49	
1979	2.81	1.59	1.16	0.76	
1980	4.04	2.12	1.42	0.83	
1981	2.69	1.55	1.07	0.63	
1982	3.47	1.77	1.22	0.63	
1983	5.25	3.17	2.24	1.38	
1984	2.97	1.66	1.45	1.03	
1985	1.55	1.00	0.69	0.45	
1986	2.24	1.22	0.86	0.54	
1987	2.77	1.69	1.22	0.90	
1988	2.33	1.42	0.93	0.57	
1989	2.77	1.62	1.28	0.83	
1990	4.29	2.61	1.73	1.10	
1991	1.73	1.19	0.90	0.54	
1992	3.52	2.00	1.36	0.83	
1993	3.17	2.20	1.55	1.07	
Mean	3.13	1.86	1.29	0.85	



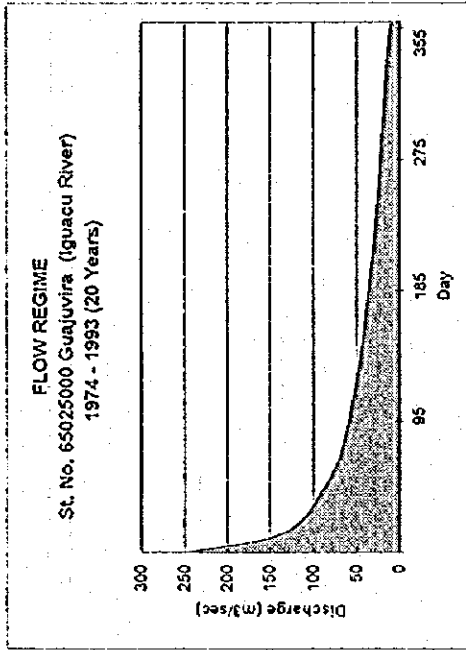
A = 20982 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)				
	95 day	185 day	275 day	355 day	0.85
1974	428.89	303.00	221.79	160.09	
1975	508.00	386.79	303.00	206.39	
1976	557.19	359.59	271.39	204.19	
1977	392.39	246.00	160.09	118.19	
1978	237.19	166.00	116.50	80.50	
1979	593.50	308.00	217.39	118.19	
1980	532.00	403.59	310.50	210.79	
1981	484.00	310.50	215.19	143.00	
1982	803.00	440.50	276.19	130.39	
1983	1190.00	785.00	535.00	364.00	
1984	426.00	308.00	248.29	176.00	
1985	395.19	271.39	184.00	88.00	
1986	449.19	283.39	232.79	86.00	
1987	560.50	357.00	269.00	190.00	
1988	344.00	224.00	139.39	79.00	
1989	606.69	406.39	305.50	228.39	
1990	836.59	544.00	400.79	248.29	
1991	318.00	237.19	176.00	121.59	
1992	803.00	593.50	381.19	235.00	
1993	567.09	426.00	315.50	235.00	
Mean	551.77	368.49	262.97	172.25	



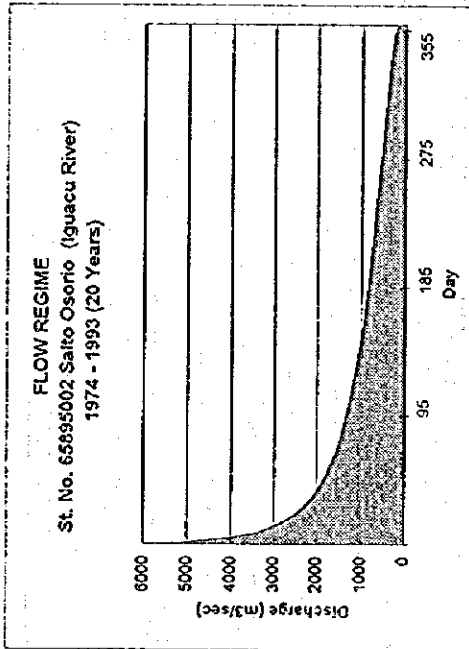
A = 3662 km<sup>2</sup>  
Discharge (m<sup>3</sup>/sec)

Year	95 day	185 day	275 day	355 day
1974	62.91	37.09	22.83	15.25
1975	114.56	54.82	31.04	19.86
1976	119.25	81.68	51.40	29.15
1977	80.67	42.42	25.36	15.25
1978	37.06	20.45	12.77	5.86
1979	76.43	30.10	16.49	8.52
1980	102.47	69.76	34.95	16.49
1981	47.96	29.15	15.87	8.52
1982	103.90	46.84	19.66	11.53
1983	154.74	88.75	75.32	42.42
1984	101.03	74.21	49.12	31.99
1985	42.42	21.26	14.01	7.19
1986	51.40	28.20	18.08	9.41
1987	76.43	46.84	29.15	15.25
1988	62.91	32.94	16.49	8.97
1989	81.68	44.55	31.04	16.49
1990	142.69	95.72	60.59	31.04
1991	57.12	28.20	17.29	12.15
1992	88.75	52.54	32.94	14.03
1993	94.84	64.06	40.29	23.62
Mean	84.90	49.48	30.73	17.17



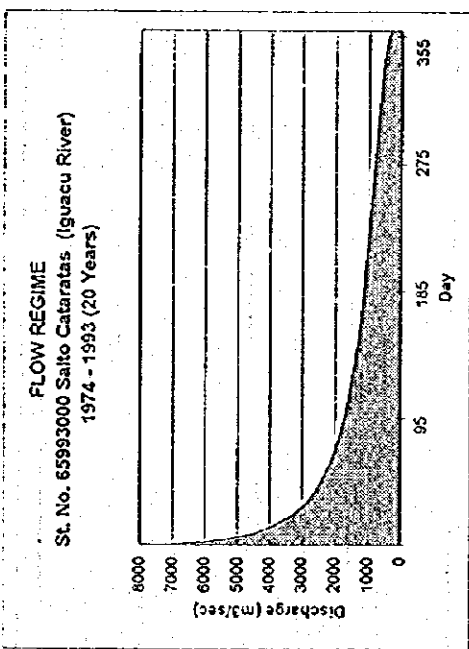
A = 2304 km<sup>2</sup>  
Discharge (m<sup>3</sup>/sec)

Year	95 day	185 day	275 day	355 day
1974	42.48	25.15	15.69	10.50
1975	77.14	37.05	21.10	13.46
1976	80.27	54.39	34.75	19.83
1977	54.69	32.43	19.30	12.46
1978	29.30	17.84	11.22	6.78
1979	52.83	24.07	15.79	9.11
1980	75.51	49.47	24.63	13.08
1981	37.60	24.07	14.59	8.82
1982	74.03	33.36	16.39	10.29
1983	104.00	64.19	48.23	26.39
1984	67.00	48.23	29.39	20.53
1985	29.89	16.87	11.53	6.22
1986	38.83	22.39	13.99	7.64
1987	51.66	31.19	20.53	12.15
1988	44.75	25.19	14.59	6.78
1989	54.00	30.29	20.84	8.23
1990	84.50	63.79	39.45	26.39
1991	44.11	36.94	18.13	6.78
1992	66.79	36.94	23.23	10.60
1993	66.19	42.55	27.29	14.59
Mean	58.29	35.78	22.03	12.53



A = 45824 km<sup>2</sup>

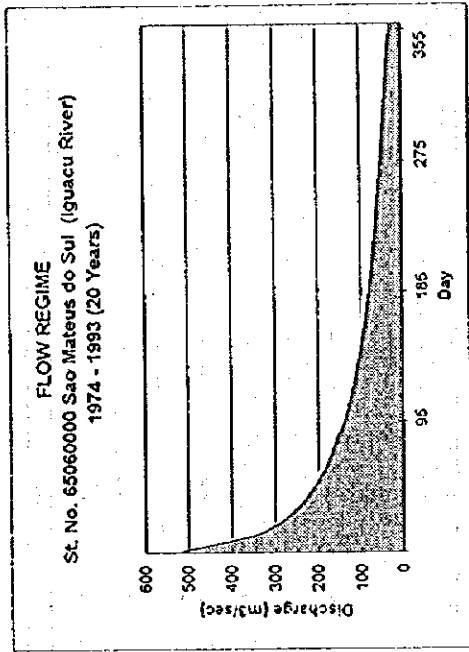
Year	Discharge (m <sup>3</sup> /sec)				
	95 day	185 day	275 day	355 day	
1 1974	1072.19	664.89	462.00	310.00	
2 1975	1429.78	699.99	490.67	310.00	
3 1976	1498.79	1068.09	771.65	440.89	
4 1977	1140.50	814.64	528.01	226.29	
5 1978	685.66	373.00	226.29	75.81	
6 1979	1452.78	714.33	440.89	160.67	
7 1980	1245.73	850.85	571.01	264.01	
8 1981	941.37	642.66	440.89	286.63	
9 1982	1590.82	905.16	465.78	271.55	
10 1983	2767.53	1498.79	941.37	614.00	
11 1984	1222.72	905.16	757.52	503.12	
12 1985	814.64	628.33	300.50	129.50	
13 1986	1023.59	601.69	347.59	126.69	
14 1987	1207.19	677.79	366.39	127.39	
15 1988	890.03	538.00	291.00	126.00	
16 1989	1424.19	1029.00	598.59	219.79	
17 1990	2289.19	1424.19	887.06	267.19	
18 1991	767.31	592.39	440.89	177.00	
19 1992	1405.86	1007.39	656.29	322.00	
20 1993	1334.59	960.83	609.19	294.79	
Mean	1310.22	829.88	532.17	282.67	



A = 65317 km<sup>2</sup>

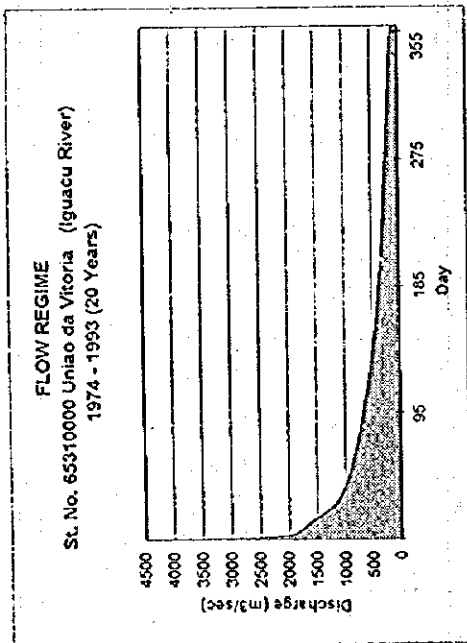
Year	Discharge (m <sup>3</sup> /sec)				
	95 day	185 day	275 day	355 day	
1 1974	1512.00	1004.00	776.00	481.00	
2 1975	1987.00	1004.00	719.00	481.00	
3 1976	1987.00	1416.00	1023.00	584.50	
4 1977	1512.00	1080.00	700.00	300.00	
5 1978	909.00	494.50	300.00	100.50	
6 1979	1986.50	947.00	584.50	213.00	
7 1980	1651.50	1128.00	757.00	350.00	
8 1981	1248.00	852.00	584.50	380.00	
9 1982	2109.00	1200.00	617.50	360.00	
10 1983	3689.00	1987.00	1248.00	814.00	
11 1984	1621.00	1200.00	1004.00	667.00	
12 1985	1080.00	852.00	551.50	229.50	
13 1986	1344.00	1042.00	700.00	287.00	
14 1987	1464.00	1104.00	914.00	481.00	
15 1988	1042.00	738.00	535.00	248.00	
16 1989	1773.50	1224.00	947.00	400.00	
17 1990	2620.00	1773.50	1224.00	617.50	
18 1991	985.00	814.00	634.00	440.50	
19 1992	1743.00	1392.00	1061.00	650.50	
20 1993	1590.50	1272.00	1061.00	650.50	
Mean	1690.20	1126.20	792.05	436.78	





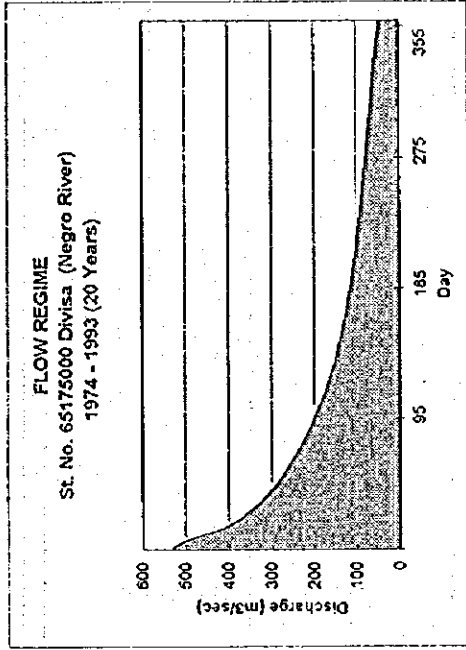
A = 6065 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)			
	95 day	165 day	275 day	355 day
1	103.39	62.14	43.52	30.34
2	131.19	87.39	53.25	31.32
3	181.19	130.59	90.42	59.86
4	127.00	74.23	41.95	29.85
5	89.00	41.43	28.87	16.11
6	167.00	46.17	27.89	17.83
7	164.89	112.59	65.00	28.38
8	71.87	40.39	24.13	16.11
9	201.25	87.39	43.00	20.04
10	241.07	140.00	98.47	65.96
11	154.39	89.20	67.27	39.87
12	62.14	36.80	26.01	16.87
13	69.55	46.70	30.83	18.69
14	129.39	74.23	48.30	29.85
15	85.60	46.17	28.87	18.69
16	143.00	77.80	45.64	27.89
17	249.63	154.39	111.89	47.23
18	80.19	41.95	30.83	22.29
19	159.29	80.19	53.25	28.38
20	147.39	99.73	57.64	39.36
Mean	136.44	78.47	50.85	30.30



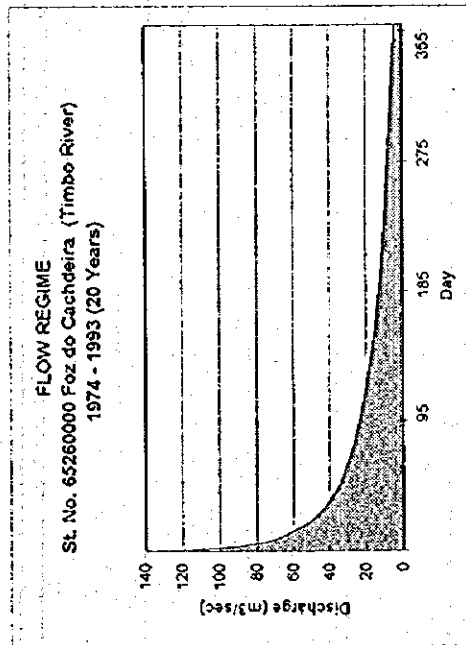
A = 24211 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)			
	95 day	165 day	275 day	355 day
1	640.59	283.19	174.09	113.99
2	561.00	299.09	189.59	119.59
3	756.69	540.59	394.00	251.59
4	596.00	387.00	223.69	125.19
5	320.79	214.39	133.59	70.30
6	836.29	283.19	159.39	86.05
7	674.75	451.27	320.79	142.00
8	444.00	205.09	119.59	88.30
9	921.58	411.00	208.16	90.86
10	1374.38	686.26	486.56	280.00
11	678.26	387.00	270.39	142.00
12	248.50	144.89	98.57	61.94
13	390.50	239.19	142.00	88.05
14	595.37	339.79	208.19	125.19
15	366.00	211.29	128.00	83.80
16	800.00	437.69	226.79	119.59
17	1182.00	714.59	463.29	273.59
18	380.00	217.50	150.68	96.57
19	767.50	394.00	276.79	149.76
20	679.16	461.45	286.47	136.39
Mean	656.67	365.42	232.03	131.34



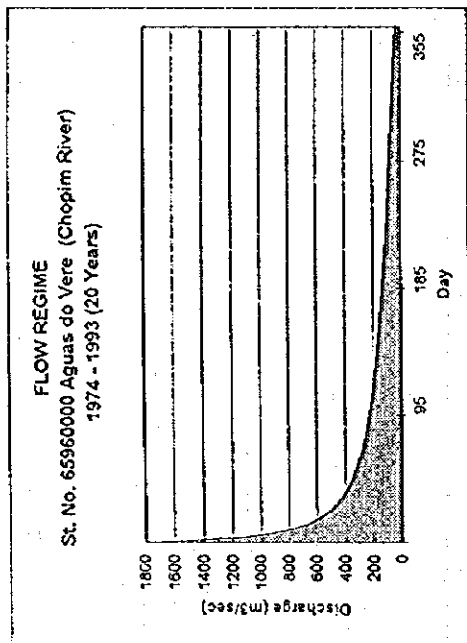
A = 7970 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)				
	95 day	185 day	275 day	355 day	
1	185.00	91.00	64.19	39.43	
2	118.02	75.25	49.97	35.45	
3	231.57	160.25	124.01	90.36	
4	188.81	120.68	73.36	49.97	
5	101.87	76.50	53.75	33.50	
6	210.95	65.32	49.43	29.89	
7	224.89	108.50	112.79	53.22	
8	134.19	69.05	43.08	34.47	
9	274.69	114.74	63.59	37.41	
10	451.75	204.39	141.89	92.27	
11	201.93	122.68	86.58	56.58	
12	72.72	48.89	37.41	24.85	
13	108.91	64.79	44.13	27.85	
14	173.75	108.91	68.44	43.60	
15	120.68	73.98	38.43	36.43	
16	237.59	133.50	76.89	48.89	
17	332.97	215.05	147.50	85.20	
18	122.91	79.26	66.57	56.82	
19	216.69	120.02	85.32	54.86	
20	203.57	120.02	85.32	58.86	
Mean	195.67	112.64	76.21	49.50	



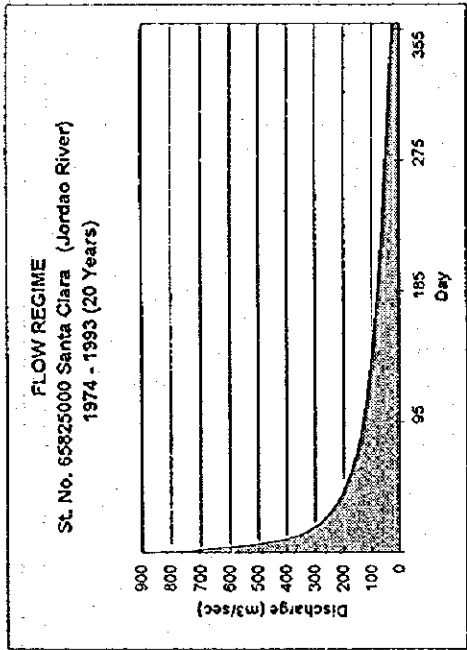
A = 683 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)				
	95 day	185 day	275 day	355 day	
1	19.89	10.42	6.41	4.19	
2	20.64	11.01	6.88	4.40	
3	27.85	19.88	14.50	9.26	
4	21.90	14.24	8.23	4.91	
5	11.81	7.89	4.92	2.58	
6	30.78	10.42	5.87	3.17	
7	24.90	17.02	11.81	5.23	
8	16.34	7.55	4.40	3.25	
9	33.91	15.12	7.65	3.34	
10	50.58	25.25	17.91	10.30	
11	24.96	14.24	9.95	5.23	
12	9.83	5.65	3.88	2.59	
13	13.00	8.19	4.62	2.03	
14	18.87	10.59	6.59	3.88	
15	18.87	8.19	4.99	3.14	
16	22.80	12.19	7.39	3.51	
17	35.00	18.87	11.39	6.59	
18	11.39	6.59	4.62	3.88	
19	22.80	13.00	8.19	4.62	
20	21.81	13.00	8.19	4.62	
Mean	22.90	12.47	7.92	4.52	



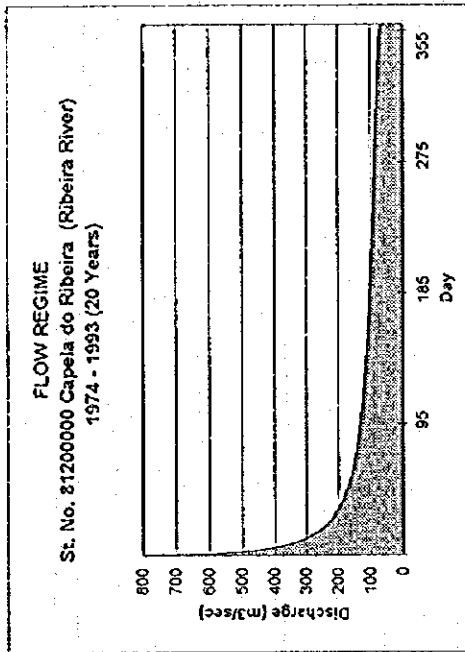
A = 6596 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)			
	95 day	185 day	275 day	355 day
1	164.75	106.99	71.77	41.39
2	245.50	133.94	79.63	46.94
3	186.09	118.54	76.60	41.39
4	133.94	88.75	57.31	24.39
5	97.87	52.50	18.00	4.50
6	297.79	164.75	71.77	24.39
7	212.69	133.94	88.75	41.39
8	186.09	97.87	48.79	30.79
9	377.59	189.34	52.50	21.19
10	498.39	286.32	147.84	68.36
11	212.69	141.64	94.83	57.31
12	97.87	66.95	52.50	27.69
13	200.39	126.25	82.67	20.19
14	200.39	118.54	76.60	45.09
15	130.09	48.70	34.00	21.19
16	267.69	153.19	97.87	59.72
17	374.50	225.00	133.94	57.31
18	141.64	79.63	46.94	22.79
19	283.19	182.19	141.64	64.55
20	253.69	157.04	94.83	62.13
Mean	224.80	131.11	78.13	40.14



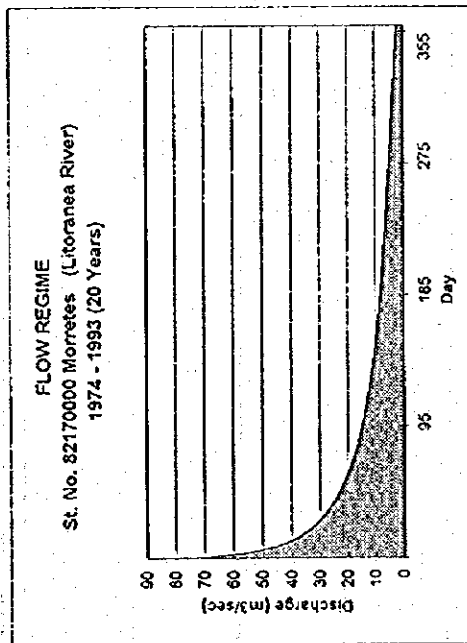
A = 3913 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)			
	95 day	185 day	275 day	355 day
1	87.55	59.86	44.50	26.44
2	124.29	64.60	44.50	29.89
3	135.79	91.39	64.60	40.22
4	85.03	58.27	43.08	23.00
5	55.11	32.19	15.79	9.94
6	142.69	64.60	35.92	18.50
7	140.39	91.39	63.02	28.75
8	109.39	60.03	40.22	20.29
9	187.00	81.80	32.19	14.00
10	299.59	178.09	107.29	58.27
11	140.39	93.31	63.02	35.92
12	68.03	43.08	24.14	13.09
13	87.55	58.27	45.94	13.09
14	105.19	68.03	48.80	33.34
15	78.36	45.94	23.00	13.09
16	152.50	89.47	58.27	34.56
17	191.59	111.50	69.75	45.94
18	71.47	43.08	29.89	19.39
19	155.00	109.39	74.91	45.94
20	135.79	91.39	64.60	40.22
Mean	128.17	77.18	49.67	28.19



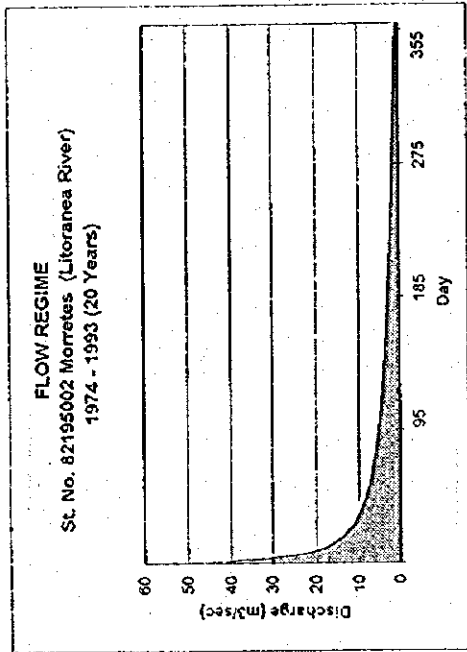
A = 7252 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)			
	95 day	185 day	275 day	355 day
1	134.19	106.67	90.07	78.72
2	135.79	102.35	82.67	73.44
3	161.39	135.79	116.59	97.67
4	110.25	90.07	76.72	66.98
5	88.55	68.25	60.63	53.97
6	102.35	68.25	57.06	51.91
7	121.39	99.19	84.00	73.44
8	102.35	80.03	68.52	56.03
9	140.89	90.07	68.25	53.97
10	265.59	195.19	163.00	133.59
11	142.19	115.00	105.51	82.67
12	100.77	78.72	66.72	52.84
13	90.07	68.25	60.63	53.97
14	115.00	96.15	81.36	68.25
15	110.25	84.00	73.44	59.36
16	119.79	94.63	84.00	70.80
17	169.50	139.00	116.59	97.67
18	116.59	99.19	85.51	70.80
19	123.00	103.93	88.55	70.80
20	163.00	116.19	105.51	90.07
Mean	130.63	101.75	86.87	72.80

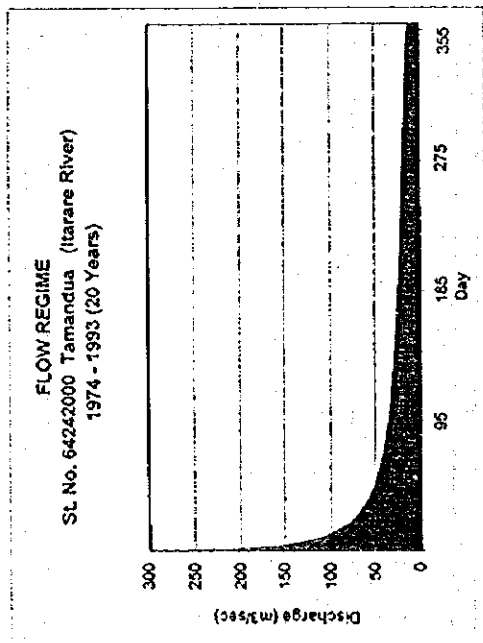


A = 217 km<sup>2</sup>

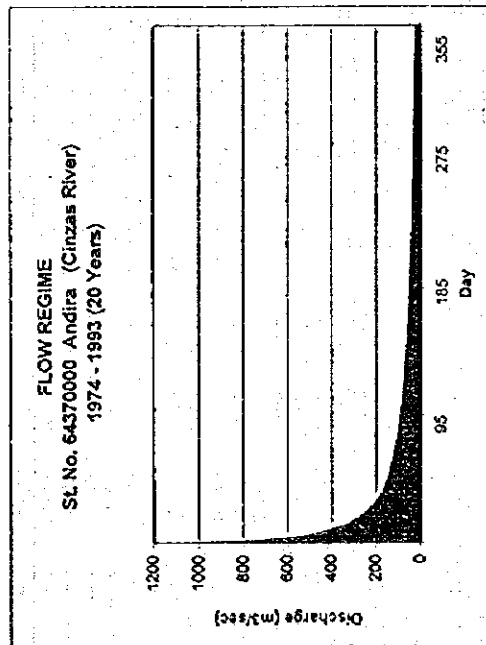
Year	Discharge (m <sup>3</sup> /sec)			
	95 day	185 day	275 day	355 day
1	15.47	7.19	4.30	1.98
2	17.63	11.04	7.19	4.30
3	17.00	10.56	6.85	5.44
4	17.61	9.63	5.44	2.85
5	10.10	6.50	3.34	2.36
6	16.44	9.63	6.14	2.85
7	17.61	9.17	5.44	2.85
8	17.00	10.56	5.80	2.85
9	15.89	9.63	6.85	3.34
10	21.95	14.25	9.63	4.75
11	13.14	6.85	4.05	2.11
12	10.56	4.59	1.37	0.62
13	10.56	4.75	2.61	0.88
14	10.56	6.14	3.34	1.37
15	14.23	7.77	4.39	2.11
16	13.69	7.31	3.69	2.36
17	15.89	7.77	6.14	3.10
18	10.56	5.44	2.85	0.88
19	12.04	6.50	4.39	2.36
20	10.56	5.80	3.34	1.67
Mean	14.43	8.04	4.86	2.56



Year	Discharge (m <sup>3</sup> /sec)			
	95 day	185 day	275 day	355 day
1 1974	5.75	2.62	1.52	0.54
2 1975	6.37	4.07	2.62	1.52
3 1976	4.74	3.06	2.44	1.74
4 1977	5.97	2.78	1.74	0.96
5 1978	3.06	2.09	0.96	0.70
6 1979	4.46	2.78	1.91	1.04
7 1980	5.30	2.78	1.74	0.87
8 1981	5.30	2.78	1.74	0.53
9 1982	5.57	3.34	2.09	1.22
10 1983	7.97	5.02	2.78	1.04
11 1984	4.87	2.49	1.43	0.69
12 1985	3.89	1.55	0.41	0.13
13 1986	3.89	1.69	0.88	0.22
14 1987	3.89	2.22	1.16	0.41
15 1988	5.20	2.84	1.47	0.69
16 1989	5.16	2.78	1.36	0.35
17 1990	5.42	2.97	1.66	0.80
18 1991	3.86	1.85	1.02	0.28
19 1992	5.16	3.16	1.85	0.91
20 1993	4.38	2.60	1.47	0.60
Mean	5.02	2.77	1.61	0.77

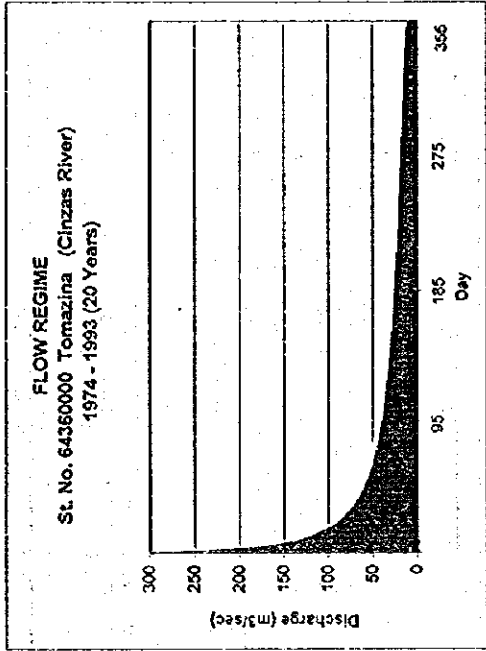


Year	Discharge (m <sup>3</sup> /sec)				Max.	Min.	
	95 day	185 day	275 day	355 day			
1 1974	34.58	21.25	14.09	8.12	30.26	207.14	6.85
2 1975	39.74	24.89	15.66	11.27	34.34	252.34	11.27
3 1976	49.98	36.60	28.10	19.56	45.87	250.23	17.22
4 1977	28.60	20.39	16.39	12.39	25.07	102.39	10.39
5 1978	21.59	15.60	12.00	9.19	20.38	118.39	6.50
6 1979	29.10	19.59	15.60	11.30	25.46	168.00	9.50
7 1980	34.10	24.39	19.59	14.80	33.03	400.09	11.60
8 1981	25.19	16.39	13.19	9.80	22.63	156.00	8.89
9 1982	40.10	21.59	11.60	8.89	37.60	249.19	8.00
10 1983	66.00	50.22	38.60	27.60	69.30	487.00	19.19
11 1984	22.79	16.39	14.00	11.60	21.41	170.00	9.50
12 1985	18.79	15.60	9.50	6.50	15.75	54.00	5.59
13 1986	25.59	15.60	14.00	7.69	22.87	166.00	6.19
14 1987	33.60	24.39	19.09	15.60	36.52	383.19	12.80
15 1988	24.39	18.39	15.19	8.89	23.29	126.39	6.50
16 1989	36.60	23.59	17.99	13.19	36.97	696.23	11.60
17 1990	40.10	31.10	25.59	19.59	49.34	724.59	16.39
18 1991	31.60	23.19	18.39	13.19	29.21	168.00	11.60
19 1992	33.60	25.19	21.19	15.99	33.61	226.00	13.19
20 1993	41.10	26.80	21.99	15.60	36.90	194.00	13.19
Mean	33.86	23.56	18.13	13.04	32.49	265.41	10.60



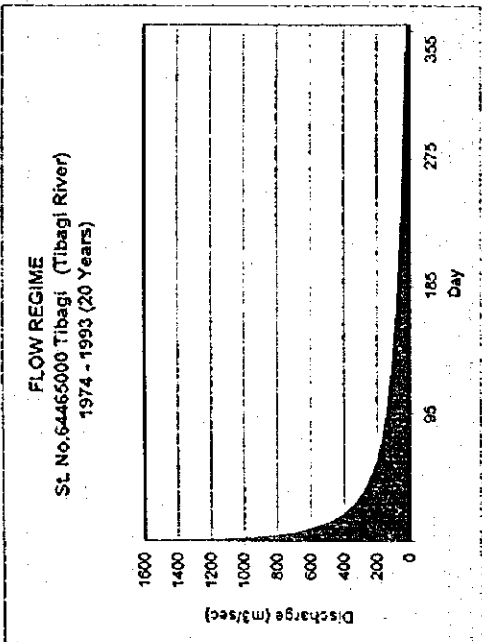
A = 5622 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)										Mean	Max.	Min.	
	95 day	185 day	275 day	355 day	355 day	275 day	185 day	95 day	95 day	185 day				
1 1974	104.00	56.89	36.34	22.16	92.24	787.00	20.44							
2 1975	90.73	47.93	27.52	19.58	83.43	918.00	17.96							
3 1976	147.00	93.37	71.41	39.39	134.07	961.19	35.19							
4 1977	59.29	36.24	26.55	16.72	56.00	436.09	17.00							
5 1978	38.34	24.74	16.25	11.75	36.68	399.89	11.00							
6 1979	59.29	32.31	21.30	14.00	50.03	387.79	11.75							
7 1980	86.09	53.53	36.34	26.47	91.77	813.00	26.55							
8 1981	66.49	32.31	22.16	12.50	67.80	722.00	11.75							
9 1982	133.50	69.29	36.24	19.58	125.42	831.19	19.58							
10 1983	169.00	94.69	64.09	41.49	203.63	621.91	37.29							
11 1984	37.29	26.55	20.44	16.25	37.47	345.00	14.75							
12 1985	44.64	27.52	15.50	8.90	43.98	878.00	7.11							
13 1986	66.89	37.29	25.60	14.00	64.33	604.79	9.49							
14 1987	76.45	47.93	35.19	25.60	84.52	797.39	22.16							
15 1988	52.41	31.36	23.02	14.00	51.42	595.59	11.75							
16 1989	106.66	55.77	36.24	24.74	107.44	969.29	22.16							
17 1990	106.66	67.69	47.93	32.31	126.36	1559.00	26.47							
18 1991	77.71	45.69	31.36	21.30	75.92	632.39	20.44							
19 1992	133.50	70.15	45.69	32.31	110.07	982.79	25.60							
20 1993	105.33	59.29	40.44	29.44	100.17	980.09	25.60							
Mean	86.26	50.03	34.16	22.32	87.33	1041.12	19.60							



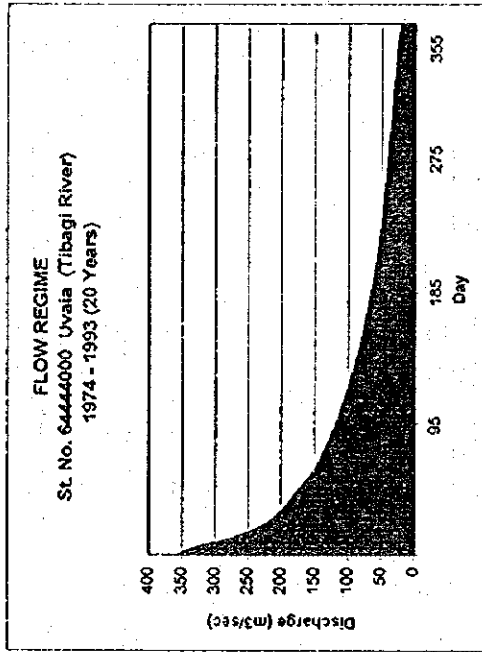
A = 2015 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)										Mean	Max.	Min.	
	95 day	185 day	275 day	355 day	355 day	275 day	185 day	95 day	95 day	185 day				
1 1974	38.39	23.88	16.09	9.59	33.69	226.19	8.21							
2 1975	44.00	27.84	17.79	13.02	36.13	275.39	13.02							
3 1976	57.74	42.67	31.60	22.04	52.96	273.09	19.49							
4 1977	32.80	22.04	10.09	11.65	28.40	154.00	11.65							
5 1978	22.04	16.09	10.27	7.52	22.18	196.29	7.02							
6 1979	33.91	21.19	14.39	8.90	29.42	178.00	7.52							
7 1980	46.47	30.81	24.87	17.79	44.04	334.19	15.24							
8 1981	31.60	17.79	13.02	7.02	27.91	216.19	0.30							
9 1982	55.15	30.81	19.49	10.96	52.75	391.79	10.27							
10 1983	69.89	46.47	35.03	22.04	66.32	456.59	19.49							
11 1984	21.19	16.09	12.33	9.59	20.61	144.79	8.90							
12 1985	19.49	14.39	8.21	5.50	15.90	96.87	4.49							
13 1986	30.81	19.49	14.39	7.52	27.38	266.19	4.49							
14 1987	37.27	24.87	18.49	14.39	38.04	396.39	13.02							
15 1988	26.85	18.64	13.71	7.52	25.64	257.00	6.51							
16 1989	45.23	26.85	19.49	14.39	44.81	758.50	12.33							
17 1990	40.63	29.82	21.19	14.39	47.95	541.00	11.69							
18 1991	27.84	19.49	14.39	10.27	26.46	176.00	6.01							
19 1992	40.63	26.85	20.34	16.09	37.25	290.00	13.71							
20 1993	41.75	25.86	19.49	13.71	37.05	246.00	13.02							
Mean	38.19	25.11	16.09	12.20	35.94	293.27	10.32							



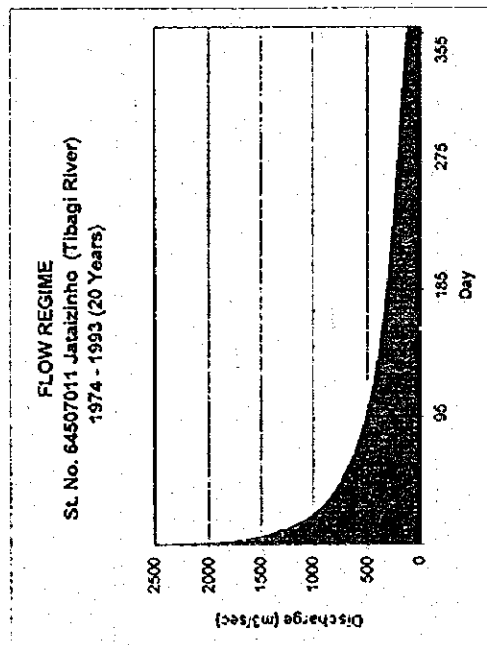
A = 8948 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)					Min.	
	95 day	165 day	275 day	355 day	Mean		
1 1974	196.64	116.42	85.95	52.20	161.27	583.44	43.98
2 1975	216.55	113.76	78.46	53.46	163.34	579.75	44.61
3 1976	253.33	180.85	81.12	36.00	198.66	1464.00	29.19
4 1977	60.28	33.44	21.09	12.50	62.36	821.79	10.00
5 1978	40.00	21.06	6.29	2.00	48.84	1626.00	1.69
6 1979	118.00	51.50	25.09	11.00	117.00	1840.00	8.00
7 1980	125.00	68.00	42.00	15.29	119.89	1732.00	12.50
8 1981	119.39	46.00	22.69	10.50	114.79	1267.39	9.50
9 1982	178.00	63.59	25.09	9.50	163.22	2076.00	7.50
10 1983	271.00	141.79	75.19	38.00	241.60	1607.50	34.29
11 1984	120.79	62.50	39.00	21.09	114.23	1920.00	18.09
12 1985	69.00	35.14	16.69	6.69	64.00	803.03	5.69
13 1986	101.25	46.00	29.19	7.09	92.00	1002.39	4.69
14 1987	126.39	62.50	38.00	19.50	133.43	2112.00	16.69
15 1988	69.19	29.18	12.50	5.69	74.97	2340.00	4.29
16 1989	140.39	70.39	42.00	21.09	137.03	1175.00	16.09
17 1990	208.00	105.00	57.00	23.50	184.22	1906.00	19.50
18 1991	53.69	25.89	13.89	9.50	66.86	1087.07	7.09
19 1992	184.00	105.00	59.09	29.19	154.29	1633.39	22.89
20 1993	134.79	74.00	45.00	24.29	127.29	1880.00	21.09
Mean	139.23	71.60	40.72	20.41	126.97	1478.84	16.86



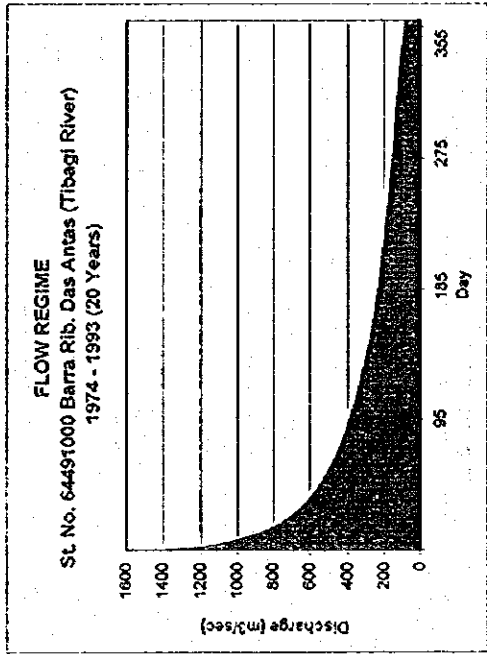
A = 4450 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)					Min.	
	95 day	165 day	275 day	355 day	Mean		
1 1974	86.00	50.59	34.39	25.47	68.39	273.26	22.79
2 1975	122.50	83.75	34.39	23.50	85.73	341.03	21.39
3 1976	126.50	102.00	78.50	39.28	113.58	287.67	34.39
4 1977	86.00	54.64	33.63	24.81	67.82	297.91	21.04
5 1978	59.00	34.39	21.75	13.59	49.87	172.75	12.03
6 1979	131.13	38.86	23.14	13.59	82.53	288.95	13.07
7 1980	120.00	80.50	47.00	27.87	92.27	208.07	25.47
8 1981	57.00	27.87	19.36	12.55	45.98	198.31	11.51
9 1982	171.61	53.75	25.47	13.92	115.31	457.59	13.07
10 1983	253.59	138.34	82.50	50.59	202.04	710.83	44.17
11 1984	127.00	84.00	49.69	25.80	91.78	235.74	22.79
12 1985	47.00	31.83	20.34	14.24	39.79	136.22	13.07
13 1986	64.14	37.19	26.80	16.47	57.54	370.19	13.07
14 1987	115.50	61.00	41.00	26.80	101.09	550.87	24.81
15 1988	47.89	28.31	22.44	14.88	52.57	361.19	12.55
16 1989	118.00	66.84	41.88	26.13	90.73	345.00	23.82
17 1990	227.76	132.84	70.00	47.00	162.23	467.67	36.39
18 1991	61.00	38.42	29.67	22.79	52.16	214.17	20.89
19 1992	141.00	83.00	52.84	26.00	112.92	642.50	23.50
20 1993	153.69	93.00	66.50	31.47	127.78	573.65	22.44
Mean	116.02	64.61	40.56	24.83	90.60	356.68	21.60



A = 21955 km<sup>2</sup>

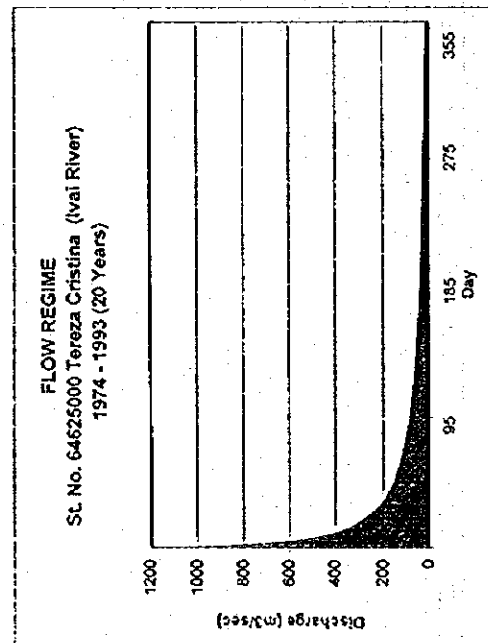
Year	Discharge (m <sup>3</sup> /sec)					Max.	Min.
	95 day	185 day	275 day	355 day	Mean		
1 1974	460.69	308.19	219.39	145.00	398.45	1572.50	151.50
2 1975	497.59	310.89	185.50	136.00	411.26	2370.00	122.50
3 1976	640.00	476.00	385.00	196.79	544.35	2064.00	190.00
4 1977	428.00	264.79	185.50	145.00	354.65	1566.00	127.00
5 1978	242.40	174.73	104.03	50.50	233.46	1898.70	42.41
6 1979	489.34	178.77	125.24	63.12	320.26	1450.36	53.02
7 1980	519.13	363.59	277.75	162.61	451.08	2340.17	83.00
8 1981	369.64	178.77	104.03	50.50	283.70	1466.52	44.44
9 1982	747.40	348.44	191.39	89.89	572.17	2647.71	86.35
10 1983	1040.30	688.62	436.35	292.89	948.08	5517.83	267.64
11 1984	411.57	303.00	219.66	154.53	340.99	1240.28	139.38
12 1985	262.59	186.85	93.42	55.55	205.21	1401.88	48.48
13 1986	378.75	227.75	162.61	58.07	303.57	1542.27	46.46
14 1987	525.19	292.89	216.66	170.69	458.65	3317.24	150.49
15 1988	257.55	174.73	118.17	46.46	258.14	2799.72	38.38
16 1989	543.37	336.34	214.32	139.38	441.85	5161.50	111.10
17 1990	811.03	456.01	287.84	200.46	654.40	4730.03	178.77
18 1991	297.94	186.85	146.45	93.42	237.49	761.54	75.75
19 1992	567.62	400.46	262.59	150.49	507.88	2100.80	75.75
20 1993	555.50	411.57	297.94	170.69	507.02	2690.13	128.77
Mean	502.08	312.46	211.73	128.70	421.55	2431.41	107.06



A = 15690 km<sup>2</sup>

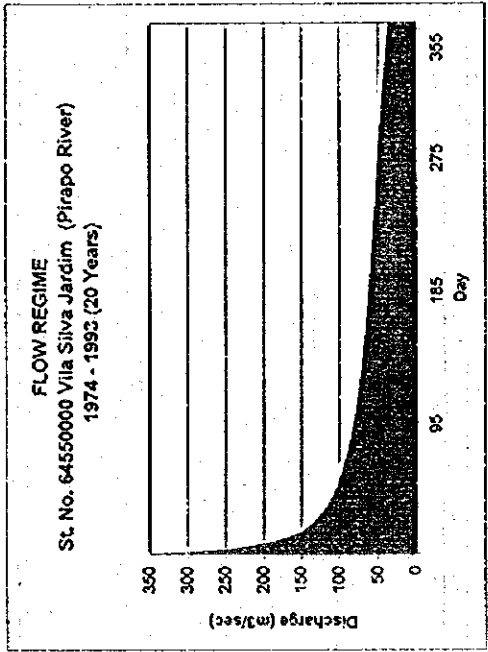
Year	Discharge (m <sup>3</sup> /sec)					Max.	Min.
	95 day	185 day	275 day	355 day	Mean		
1 1974	331.50	204.59	160.39	103.00	275.56	943.42	90.00
2 1975	363.00	200.39	144.54	105.00	278.83	937.59	91.00
3 1976	464.69	345.84	280.59	148.75	398.97	1301.59	133.00
4 1977	305.29	193.39	128.79	98.00	243.83	895.00	87.00
5 1978	190.69	133.00	82.00	36.50	181.67	1339.00	33.00
6 1979	405.19	137.24	92.00	42.07	250.48	1192.79	33.00
7 1980	368.59	265.79	177.69	104.00	305.52	1552.00	83.00
8 1981	248.19	124.59	72.00	43.50	188.47	822.39	37.19
9 1982	592.79	249.89	125.64	55.79	425.03	2134.00	53.39
10 1983	805.69	610.79	313.04	207.50	701.75	3235.00	185.50
11 1984	369.59	246.19	175.08	117.25	287.05	1118.00	103.89
12 1985	190.69	134.04	66.59	46.29	145.89	530.69	38.59
13 1986	284.39	177.69	119.34	83.39	227.66	1069.19	42.79
14 1987	307.19	210.50	159.79	118.29	330.16	2319.00	97.00
15 1988	188.06	122.50	82.00	42.09	186.09	1678.00	35.06
16 1989	430.00	243.09	155.19	103.00	309.44	1152.00	91.00
17 1990	630.26	369.59	219.50	155.19	494.57	2337.00	131.94
18 1991	231.19	146.64	114.09	78.00	185.49	565.19	68.39
19 1992	427.79	303.39	203.19	110.00	369.97	1463.59	87.00
20 1993	414.39	297.69	200.39	137.19	370.76	1770.00	94.00
Mean	381.96	230.94	153.34	95.24	307.86	1415.71	80.79





A = 3573 km<sup>2</sup>

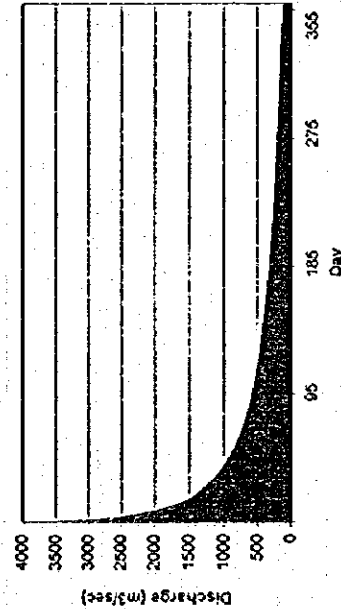
Year	Discharge (m <sup>3</sup> /sec)					Min.
	95 day	185 day	275 day	355 day	Mean	
1 1974	48.59	25.04	16.17	9.66	49.31	9.00
2 1975	66.36	35.11	20.41	12.56	71.73	10.75
3 1976	88.55	48.59	32.55	18.47	89.27	13.00
4 1977	48.59	28.14	14.80	10.29	45.47	8.57
5 1978	33.19	19.01	9.43	4.60	849.79	0.24
6 1979	72.41	25.59	15.00	7.71	76.18	6.42
7 1980	83.00	43.69	24.50	15.71	79.24	13.89
8 1981	51.50	22.45	11.64	6.42	44.03	4.59
9 1982	120.00	30.63	13.00	4.94	112.27	3.89
10 1983	229.19	94.31	46.50	24.50	198.84	22.45
11 1984	88.55	46.79	27.28	15.71	79.75	12.09
12 1985	33.83	17.55	11.64	6.85	33.25	6.00
13 1986	49.29	28.14	14.34	6.00	51.62	4.59
14 1987	62.29	31.27	21.43	13.89	86.13	12.09
15 1988	41.07	19.39	9.43	4.59	47.36	2.50
16 1989	80.51	43.69	24.50	12.55	98.43	8.57
17 1990	146.19	56.75	30.00	16.93	149.81	9.00
18 1991	33.19	18.47	12.09	6.14	39.08	6.00
19 1992	113.49	73.55	42.49	6.60	118.69	3.22
20 1993	103.72	62.46	36.21	14.71	109.96	10.85
Mean	80.26	36.23	21.57	10.98	81.23	8.38



A = 4627 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)					Min.
	95 day	185 day	275 day	355 day	Mean	
1 1974	108.39	78.03	60.63	45.80	94.39	338.78
2 1975	83.00	64.39	51.31	40.45	74.29	250.19
3 1976	113.89	93.00	80.03	64.39	106.03	366.19
4 1977	93.00	71.19	55.00	43.12	92.89	352.50
5 1978	53.15	44.01	39.56	34.31	50.96	283.79
6 1979	55.00	40.45	36.03	30.87	50.66	310.19
7 1980	101.00	81.02	66.48	53.15	94.58	362.69
8 1981	84.00	66.33	55.00	37.78	78.01	514.29
9 1982	100.00	77.06	60.63	46.72	94.76	506.50
10 1983	153.71	109.50	97.00	82.40	138.98	618.00
11 1984	66.33	53.15	40.45	33.45	67.35	255.00
12 1985	56.87	45.80	33.45	18.55	50.23	287.00
13 1986	43.12	35.17	30.01	20.09	40.01	158.00
14 1987	76.08	56.87	43.12	33.45	67.94	347.29
15 1988	51.31	40.45	28.30	18.55	43.99	222.39
16 1989	62.51	46.80	37.76	30.87	56.30	244.19
17 1990	85.00	67.30	55.00	44.01	79.66	344.79
18 1991	51.31	40.45	30.01	19.33	45.23	279.00
19 1992	82.01	59.68	44.01	25.02	73.13	384.00
20 1993	71.19	56.87	44.90	32.59	65.50	367.39
Mean	79.94	61.38	49.43	37.74	72.24	343.61

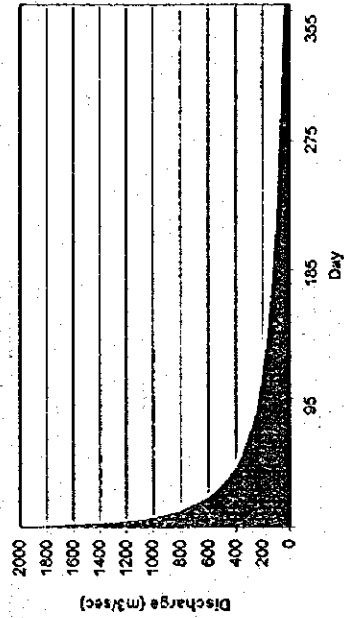
**FLOW REGIME**  
St. No. 64675002 Porto Bananeiras (Ivai River)  
1974 - 1993 (20 Years)



A = 24200 km<sup>2</sup>  
Discharge (m<sup>3</sup>/sec)

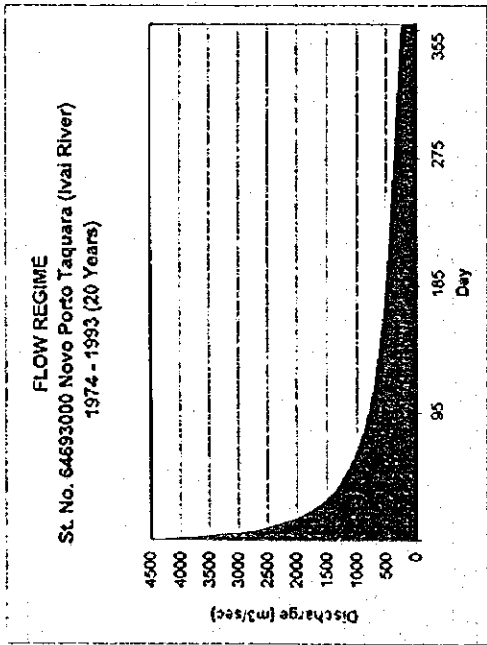
Year	95 day	185 day	275 day	355 day	Mean	Max.	Min.
1 1974	406.79	253.50	160.00	108.39	364.44	2909.39	101.19
2 1975	541.19	314.76	169.00	112.00	449.76	2486.60	101.19
3 1976	650.59	368.39	264.50	151.00	556.33	6887.91	135.39
4 1977	381.19	237.59	147.09	97.59	346.21	3224.00	83.19
5 1978	216.79	155.50	83.19	43.19	243.93	3338.39	39.39
6 1979	592.39	237.59	143.19	70.19	461.13	3931.50	59.59
7 1980	573.19	356.09	270.00	196.00	515.50	3180.00	83.00
8 1981	477.19	222.00	135.39	70.19	379.77	2496.59	58.59
9 1982	804.39	326.59	169.00	73.09	642.44	4119.00	64.39
10 1983	1223.00	662.79	419.59	270.00	1036.43	6323.79	227.19
11 1984	464.39	292.00	196.00	139.29	415.85	3276.79	127.59
12 1985	362.00	216.79	112.00	47.00	309.05	3833.59	43.19
13 1986	451.59	237.59	155.50	45.09	398.87	3338.39	43.19
14 1987	490.00	264.50	201.19	151.00	516.06	4824.00	127.59
15 1988	300.19	191.50	112.00	39.39	303.53	4353.00	39.59
16 1989	595.59	350.19	232.39	139.29	500.94	3250.39	127.59
17 1990	913.19	451.59	264.50	182.50	755.99	4668.00	164.50
18 1991	286.50	162.50	135.39	104.79	274.89	1542.79	94.00
19 1992	709.19	483.59	320.69	160.00	689.84	4858.59	139.29
20 1993	643.59	426.00	292.00	216.79	596.15	5238.50	160.00
Mean	561.65	311.56	199.13	120.84	492.85	3889.06	100.73

**FLOW REGIME**  
St. No. 64645000 Porto Espanhol (Ivai River)  
1974 - 1993 (20 Years)



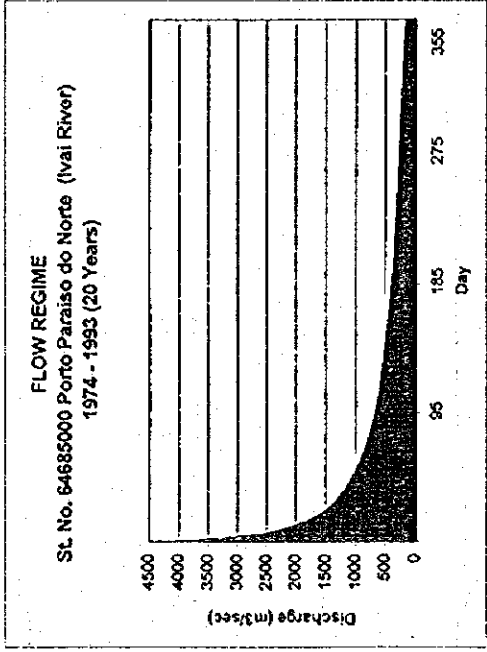
A = 8600 km<sup>2</sup>  
Discharge (m<sup>3</sup>/sec)

Year	95 day	185 day	275 day	355 day	Mean	Max.	Min.
1 1974	140.29	84.39	62.00	34.00	134.85	1283.00	32.00
2 1975	200.09	110.79	62.00	36.79	181.19	1167.50	30.00
3 1976	262.19	147.19	96.09	45.19	223.35	1470.50	34.00
4 1977	140.29	82.79	48.00	34.00	122.58	901.50	32.00
5 1978	100.29	59.19	28.00	16.00	107.25	1720.19	12.79
6 1979	218.50	79.59	42.39	22.39	179.17	1973.50	20.79
7 1980	232.29	131.09	84.39	57.79	200.86	1493.79	43.79
8 1981	170.19	68.39	34.00	18.39	132.16	1079.00	13.59
9 1982	308.19	106.59	45.19	16.79	270.00	2188.00	13.59
10 1983	556.59	280.59	151.79	79.59	456.43	3122.19	70.00
11 1984	225.39	117.29	78.00	48.00	185.96	1874.19	39.59
12 1985	117.29	68.39	31.00	16.00	103.93	1046.50	12.79
13 1986	149.50	76.39	53.59	16.00	128.89	1538.00	11.19
14 1987	186.29	96.09	70.00	53.59	216.77	3327.39	45.19
15 1988	124.19	63.59	32.00	12.79	122.80	2704.79	11.19
16 1989	289.79	151.79	84.39	45.19	254.55	2156.79	34.00
17 1990	368.00	184.00	89.19	59.19	355.71	2652.00	48.00
18 1991	94.00	56.39	39.59	26.00	96.14	1001.50	24.00
19 1992	266.79	184.00	119.59	45.19	277.57	3611.39	38.19
20 1993	250.69	161.00	106.59	62.00	259.52	3952.00	53.59
Mean	220.04	115.48	67.89	37.24	199.48	1968.19	31.01



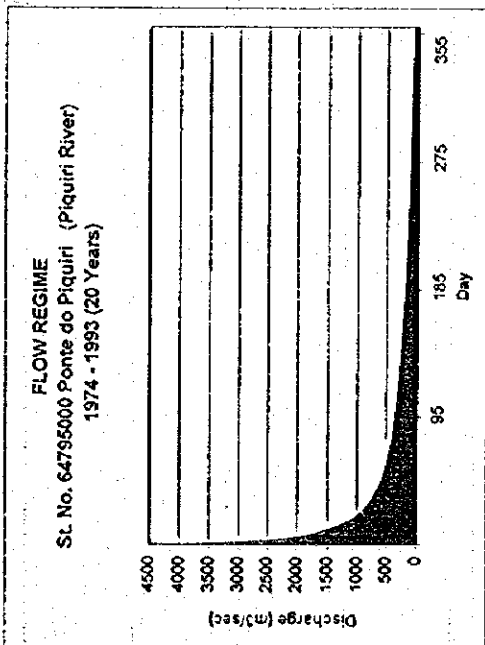
A = 34432 km<sup>2</sup>  
Discharge (m<sup>3</sup>/sec)

Year	95 day	185 day	275 day	355 day	Mean	Max.	Min.
1 1974	630.05	458.19	328.81	228.00	627.78	3803.15	214.79
2 1975	738.19	474.00	291.79	241.19	640.25	3010.00	217.00
3 1976	914.59	589.00	451.00	298.39	773.86	4481.69	263.19
4 1977	637.29	402.69	278.59	214.79	566.70	4351.50	180.59
5 1978	348.79	256.69	203.79	140.00	360.40	3402.39	136.00
6 1979	758.39	327.00	228.00	166.39	600.29	4341.00	151.00
7 1980	777.89	517.69	428.00	342.39	693.64	3164.79	83.00
8 1981	681.00	373.19	241.19	177.39	547.97	3267.19	170.79
9 1982	1051.00	554.50	307.19	190.59	905.87	4572.50	184.00
10 1983	1724.00	1112.79	629.19	493.97	1548.35	6836.86	422.40
11 1984	681.00	404.69	308.69	205.19	631.56	3787.50	265.39
12 1985	547.59	388.69	250.00	159.79	492.67	4095.59	144.39
13 1986	572.89	360.00	287.39	155.39	528.99	3662.39	132.00
14 1987	697.39	437.19	362.19	296.19	760.53	5880.59	261.00
15 1988	510.79	351.19	236.79	162.00	472.44	4503.89	153.19
16 1989	911.79	538.39	391.19	278.59	793.47	3548.79	254.39
17 1990	1184.87	667.19	479.65	360.00	1034.48	5863.39	340.19
18 1991	432.59	318.19	254.39	197.19	403.21	1792.39	186.19
19 1992	953.89	658.00	474.00	245.59	939.00	6077.81	212.59
20 1993	761.69	554.50	409.59	284.00	754.72	6322.19	276.39
Mean	777.78	497.69	355.97	246.35	703.32	4343.68	212.92



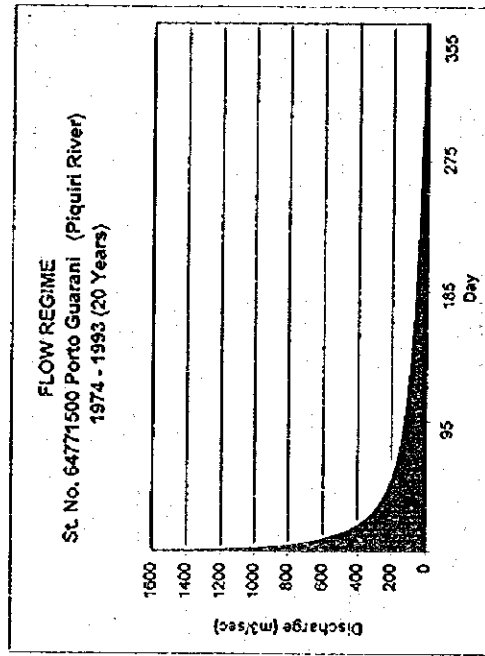
A = 28427 km<sup>2</sup>  
Discharge (m<sup>3</sup>/sec)

Year	95 day	185 day	275 day	355 day	Mean	Max.	Min.
1 1974	576.79	376.79	247.19	182.00	531.23	3478.00	155.00
2 1975	660.39	420.29	244.00	185.04	568.88	2770.00	161.00
3 1976	797.19	493.19	368.89	228.25	676.68	4043.79	218.79
4 1977	500.79	324.25	218.79	143.29	459.67	4276.00	125.89
5 1978	276.00	203.34	137.50	67.75	299.00	3558.00	65.17
6 1979	683.19	285.59	179.00	98.02	535.46	4357.00	89.75
7 1980	687.00	441.00	357.00	276.00	612.29	3118.19	83.00
8 1981	588.19	298.39	185.04	120.19	464.66	2835.00	109.00
9 1982	896.00	406.50	228.00	131.39	746.20	4661.59	120.19
10 1983	1382.89	801.19	376.79	1285.46	1285.46	6676.00	324.00
11 1984	516.00	350.39	260.00	197.00	486.93	3727.59	168.00
12 1985	437.39	283.59	195.00	76.00	362.08	3793.59	17.79
13 1986	512.19	276.00	215.59	100.75	440.96	3686.00	81.50
14 1987	561.59	327.29	280.00	197.00	610.98	5324.59	182.00
15 1988	390.00	253.59	167.00	81.50	373.16	4513.59	75.04
16 1989	785.79	423.00	294.39	200.09	667.62	3519.59	182.00
17 1990	975.79	500.79	340.00	263.19	870.79	5295.59	253.59
18 1991	317.59	224.89	176.00	131.39	311.28	1695.39	123.00
19 1992	774.39	527.39	363.59	185.00	765.96	5539.19	161.00
20 1993	694.59	451.79	324.00	231.19	641.35	5991.59	209.34
Mean	650.69	381.96	262.71	173.59	583.73	4140.96	146.25



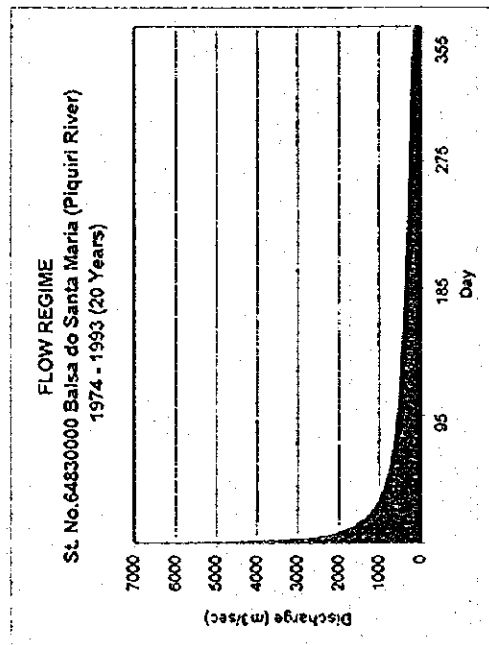
A = 11303 km<sup>2</sup>  
Discharge (m<sup>3</sup>/sec)

Year	95 day	185 day	275 day	355 day	Mean	Max.	Min.
1 1974	189.00	117.50	75.00	51.79	185.23	2536.00	43.19
2 1975	300.00	174.00	117.59	81.00	270.18	1822.50	76.00
3 1976	356.00	199.19	128.39	91.00	318.48	2878.00	83.50
4 1977	199.19	114.89	61.00	42.59	194.03	1647.00	35.79
5 1978	109.50	68.50	35.79	19.19	130.61	2794.00	17.79
6 1979	366.00	159.00	96.00	46.00	353.16	4549.00	39.19
7 1980	329.39	196.00	133.79	71.00	314.81	3188.79	51.00
8 1981	333.19	147.29	81.00	44.29	300.15	4481.00	39.19
9 1982	531.50	233.00	96.00	35.79	484.10	5258.00	29.00
10 1983	778.79	428.00	236.50	150.00	701.05	8136.00	133.79
11 1984	285.59	150.00	104.09	71.00	279.17	4901.00	56.00
12 1985	222.50	123.00	66.00	29.00	195.29	2124.00	26.19
13 1986	289.19	150.00	101.39	29.00	273.94	3214.00	26.19
14 1987	337.00	180.00	123.00	71.00	414.55	9898.00	56.00
15 1988	199.19	101.39	46.00	22.00	216.79	4827.50	19.19
16 1989	404.00	208.79	144.59	91.00	306.03	2953.59	46.00
17 1990	592.00	318.00	156.39	96.00	513.77	3940.99	88.50
18 1991	165.00	96.00	66.00	46.00	196.06	2567.19	39.19
19 1992	520.00	337.00	192.79	117.59	505.63	6415.55	104.09
20 1993	396.00	233.00	156.00	98.69	366.83	5641.00	86.00
Mean	345.63	186.73	111.87	65.20	332.48	4098.69	54.79



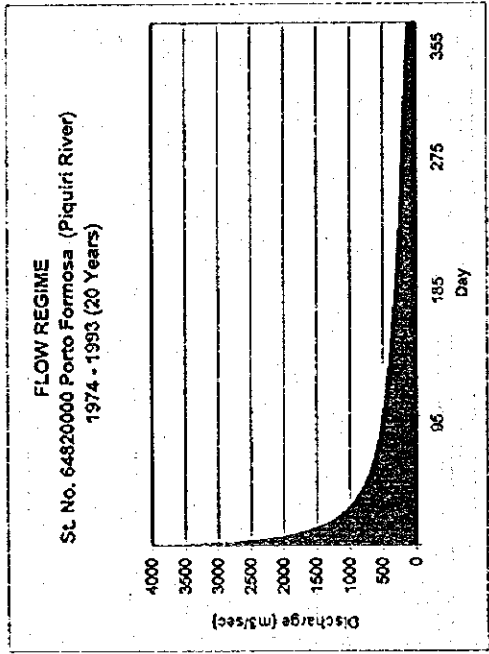
A = 4223 km<sup>2</sup>  
Discharge (m<sup>3</sup>/sec)

Year	95 day	185 day	275 day	355 day	Mean	Max.	Min.
1 1974	63.23	37.35	22.29	13.96	61.86	906.18	10.86
2 1975	103.10	57.85	37.59	24.44	92.39	649.92	22.65
3 1976	132.00	71.59	44.00	28.04	119.98	1464.00	25.34
4 1977	60.29	33.44	21.09	12.50	62.36	821.79	10.00
5 1978	40.00	21.09	6.29	2.00	48.84	1626.00	1.69
6 1979	118.00	51.50	25.09	11.00	116.87	1940.00	8.00
7 1980	123.00	68.00	42.00	15.29	119.89	1732.00	12.50
8 1981	119.39	46.00	22.69	10.50	114.79	1297.39	9.50
9 1982	178.00	63.69	25.09	9.50	163.22	2076.00	7.50
10 1983	271.00	141.79	75.19	38.00	241.69	1697.50	34.29
11 1984	119.39	62.50	39.00	21.09	113.80	1920.00	18.09
12 1985	66.00	35.14	16.69	6.69	64.00	803.03	5.09
13 1986	101.25	46.00	23.19	7.09	92.00	1002.39	4.69
14 1987	127.79	63.69	38.00	19.50	149.48	3595.59	16.69
15 1988	66.19	29.19	12.50	5.69	74.97	2340.00	4.20
16 1989	140.39	70.39	42.00	21.09	137.03	1175.00	16.69
17 1990	208.00	105.00	57.00	23.50	184.22	1996.00	19.50
18 1991	53.69	23.89	13.69	9.50	66.86	1087.07	7.09
19 1992	184.00	106.00	57.00	28.34	158.12	2041.13	22.69
20 1993	134.79	72.79	45.00	24.29	127.41	1880.00	21.09
Mean	120.83	60.39	33.58	16.61	115.49	1592.60	13.91



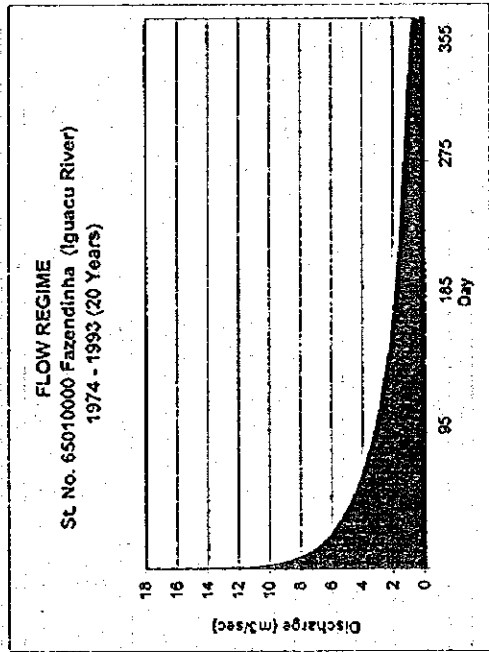
A = 20982 km<sup>2</sup>  
Discharge (m<sup>3</sup>/sec)

Year	95 day	185 day	275 day	355 day	Mean	Max.	Min.
1 1974	428.89	303.00	221.79	160.09	397.11	6280.01	143.00
2 1975	588.00	366.79	303.00	206.39	479.81	5901.91	117.19
3 1976	557.19	359.59	271.39	204.19	525.14	9041.91	194.00
4 1977	392.39	246.00	160.00	118.19	350.00	2133.00	106.29
5 1978	237.19	166.00	116.50	80.50	222.92	2685.00	77.50
6 1979	593.50	308.00	217.39	118.19	525.35	7650.02	108.00
7 1980	532.00	403.59	310.50	210.79	530.70	8070.01	83.00
8 1981	484.00	310.50	215.19	143.00	491.95	7305.01	128.39
9 1982	803.00	440.50	276.19	130.39	743.44	8470.01	35.50
10 1983	1190.00	795.00	535.00	394.00	1129.84	9925.02	81.39
11 1984	426.00	308.00	246.29	176.00	407.30	4071.00	158.19
12 1985	395.19	271.39	164.00	98.00	347.74	5085.01	77.50
13 1986	448.19	283.39	232.79	88.00	406.00	2835.00	77.50
14 1987	560.50	357.00	269.00	190.00	572.76	5685.71	166.00
15 1988	344.00	224.00	139.39	79.00	329.62	4042.50	70.00
16 1989	606.89	406.39	305.50	228.39	604.74	8650.01	20.19
17 1990	839.59	544.00	400.79	240.29	802.13	9850.01	30.39
18 1991	318.00	237.19	176.00	121.59	318.25	2775.00	113.09
19 1992	803.00	593.50	381.19	235.00	727.40	6381.15	206.39
20 1993	567.09	426.00	315.50	235.00	550.72	7450.05	198.00
Mean	551.77	369.49	262.97	172.25	523.00	6190.87	109.59



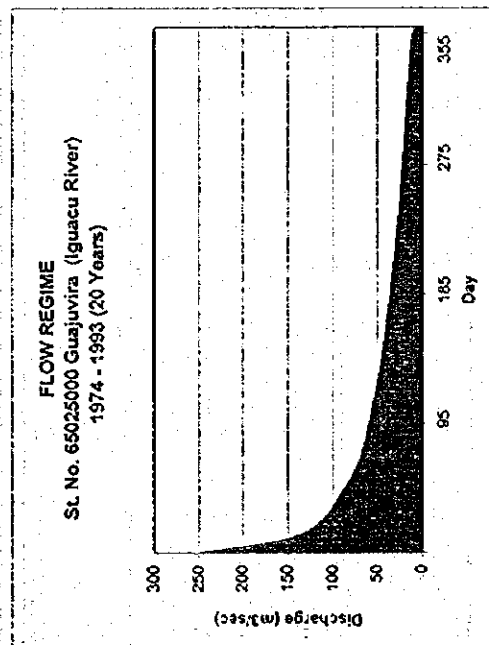
A = 17500 km<sup>2</sup>  
Discharge (m<sup>3</sup>/sec)

Year	95 day	185 day	275 day	355 day	Mean	Max.	Min.
1 1974	362.50	248.19	176.67	128.78	333.17	2990.00	112.39
2 1975	436.34	316.00	235.19	167.08	402.08	1994.00	153.23
3 1976	501.14	334.39	237.79	181.00	446.31	3176.00	146.39
4 1977	325.29	227.50	137.27	106.58	324.51	1904.39	95.00
5 1978	230.00	138.64	110.44	68.03	219.44	2640.00	58.39
6 1979	523.61	256.00	176.36	95.00	444.80	4241.59	91.35
7 1980	482.50	347.00	264.69	153.23	463.78	2840.00	83.00
8 1981	447.00	240.39	181.00	116.36	441.65	3900.00	106.58
9 1982	774.79	374.89	212.50	102.72	612.68	4648.00	95.00
10 1983	1082.39	698.89	443.44	334.59	926.13	5117.19	193.00
11 1984	378.00	261.79	207.50	144.11	374.17	3400.00	135.00
12 1985	362.50	240.39	144.11	81.23	313.18	2243.59	71.08
13 1986	301.34	235.19	185.79	79.51	357.03	2856.00	69.39
14 1987	501.14	300.50	222.50	155.51	518.54	5410.00	132.92
15 1988	288.68	196.39	118.44	64.39	298.08	4194.00	64.36
16 1989	583.79	347.00	245.59	178.67	517.78	2776.00	176.36
17 1990	789.19	489.95	340.79	205.00	690.63	3800.00	197.79
18 1991	267.59	196.39	144.11	106.58	284.39	2896.00	96.92
19 1992	724.50	512.33	331.50	195.39	666.17	7070.00	167.08
20 1993	519.80	365.59	270.50	202.59	507.42	5630.00	157.80
Mean	498.85	315.78	219.41	143.22	457.70	3649.34	120.16



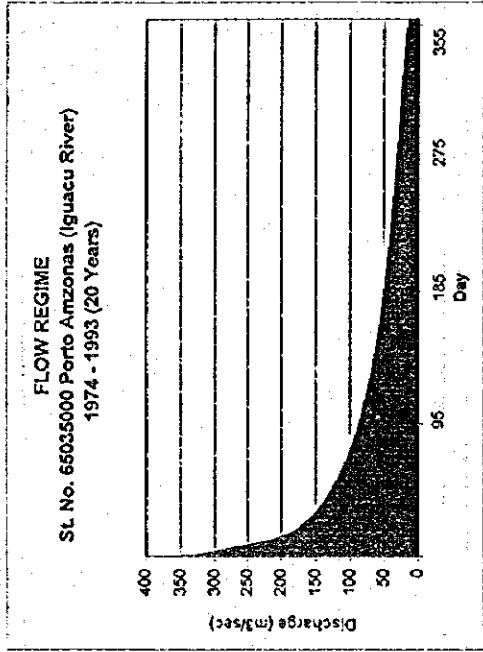
A = 110 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)				
	95 day	185 day	275 day	355 day	Mean
1 1974	2.93	1.77	1.19	0.86	2.41
2 1975	4.69	2.37	1.48	1.07	3.34
3 1976	4.47	2.85	2.04	1.45	3.66
4 1977	3.13	1.85	1.19	0.76	2.56
5 1978	1.88	1.22	0.90	0.49	1.68
6 1979	2.61	1.59	1.16	0.76	2.16
7 1980	4.04	2.12	1.42	0.83	3.16
8 1981	2.69	1.55	1.07	0.63	2.30
9 1982	3.47	1.77	1.22	0.83	2.72
10 1983	5.25	3.17	2.24	1.38	4.24
11 1984	2.97	1.96	1.45	1.03	2.53
12 1985	1.55	1.00	0.69	0.45	1.38
13 1986	2.24	1.22	0.86	0.54	1.63
14 1987	2.77	1.69	1.22	0.90	2.51
15 1988	2.33	1.42	0.93	0.57	1.96
16 1989	2.77	1.62	1.28	0.83	2.64
17 1990	4.29	2.61	1.73	1.10	3.40
18 1991	1.73	1.19	0.90	0.54	1.65
19 1992	3.52	2.00	1.35	0.83	2.75
20 1993	3.17	2.20	1.55	1.07	2.89
Mean	3.13	1.86	1.29	0.85	2.59



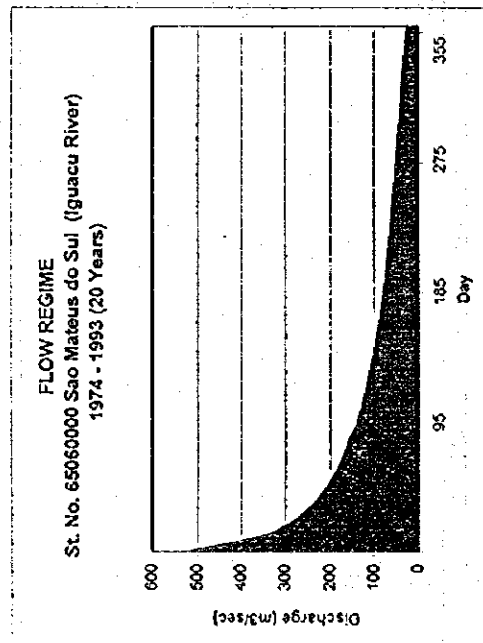
A = 2304 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)				
	95 day	185 day	275 day	355 day	Mean
1 1974	42.48	25.15	15.59	10.50	33.92
2 1975	77.14	37.05	21.10	13.48	56.00
3 1976	80.27	54.39	34.75	19.83	62.04
4 1977	54.68	32.43	19.30	12.46	43.21
5 1978	29.39	17.84	11.22	6.78	24.32
6 1979	52.83	24.07	15.79	9.11	38.13
7 1980	75.51	49.47	24.63	13.08	54.87
8 1981	37.50	24.07	14.59	8.82	31.95
9 1982	74.03	33.36	16.39	10.29	52.07
10 1983	104.00	64.19	48.23	26.39	97.52
11 1984	67.00	48.23	29.39	20.53	52.64
12 1985	29.99	16.97	11.53	6.22	22.92
13 1986	38.83	22.39	13.99	7.84	29.89
14 1987	31.19	20.53	12.15	44.87	315.00
15 1988	44.75	25.19	14.59	6.76	34.94
16 1989	54.00	30.29	20.64	8.23	43.76
17 1990	84.50	63.79	39.45	26.39	100.94
18 1991	44.11	36.94	18.13	6.76	33.44
19 1992	56.79	35.94	23.23	10.60	44.73
20 1993	66.19	42.55	27.29	14.59	54.31
Mean	58.29	35.78	22.03	12.53	47.77



A = 3062 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)										Mean	Max.	Min.	
	95 day	185 day	275 day	355 day	355 day	275 day	185 day	95 day	95 day	185 day				
1 1974	62.91	37.09	22.03	15.25	50.16	169.50	12.15							
2 1975	114.58	54.82	31.04	19.66	81.58	399.01	17.29							
3 1976	119.25	81.68	51.40	29.15	92.85	300.71	23.62							
4 1977	80.67	42.42	25.36	15.25	60.49	215.86	14.01							
5 1978	37.09	20.45	12.77	5.86	30.28	138.13	4.80							
6 1979	76.43	30.10	16.49	8.52	52.06	216.73	6.31							
7 1980	102.47	69.76	34.95	16.49	78.46	369.15	14.63							
8 1981	47.98	29.15	15.87	8.52	42.84	227.40	7.19							
9 1982	103.90	46.84	18.66	11.53	77.26	405.68	8.52							
10 1983	154.74	88.75	75.32	42.42	145.63	1045.46	36.02							
11 1984	101.03	74.21	49.12	31.89	82.93	233.84	24.41							
12 1985	42.42	21.25	14.01	7.19	31.86	123.18	5.55							
13 1986	51.40	28.20	18.08	9.41	42.78	259.05	7.64							
14 1987	76.43	46.84	29.15	15.25	71.32	533.60	12.77							
15 1988	62.91	32.94	16.49	8.97	51.72	301.83	6.31							
16 1989	81.68	44.55	31.04	16.49	60.28	403.00	14.01							
17 1990	142.68	95.72	60.59	31.04	115.30	409.69	20.45							
18 1991	57.12	28.20	17.29	12.15	39.92	154.13	10.30							
19 1992	88.75	52.54	32.94	14.63	74.47	725.06	12.15							
20 1993	94.84	64.06	40.29	23.62	86.08	508.37	9.41							
Mean	84.96	49.49	30.73	17.17	68.84	356.97	13.37							



A = 6065 km<sup>2</sup>

Year	Discharge (m <sup>3</sup> /sec)										Mean	Max.	Min.	
	95 day	185 day	275 day	355 day	355 day	275 day	185 day	95 day	95 day	185 day				
1 1974	103.39	62.14	43.52	30.34	74.39	169.79	28.01							
2 1975	131.19	87.39	53.25	31.32	124.66	539.89	28.38							
3 1976	181.19	130.59	90.42	59.86	151.35	406.39	46.30							
4 1977	127.00	74.23	41.95	29.85	94.96	335.65	23.19							
5 1978	59.30	41.43	26.87	16.11	53.34	169.79	13.57							
6 1979	167.00	46.17	27.89	17.83	95.42	373.69	15.25							
7 1980	164.89	112.59	65.00	26.38	127.59	415.11	28.95							
8 1981	71.87	40.39	24.13	16.11	73.01	419.47	14.39							
9 1982	201.25	87.39	43.00	20.04	146.10	605.00	18.68							
10 1983	241.07	140.00	98.47	65.96	231.05	1644.71	59.26							
11 1984	154.39	89.20	87.27	39.87	113.54	337.43	33.80							
12 1985	62.14	36.80	26.01	16.97	46.70	144.19	15.68							
13 1986	69.55	46.70	30.83	18.09	66.51	474.79	16.97							
14 1987	129.39	74.23	46.30	29.85	124.94	823.69	28.87							
15 1988	85.60	46.17	26.87	16.69	76.23	402.03	16.11							
16 1989	143.00	77.80	45.64	27.89	112.43	570.89	24.13							
17 1990	249.63	154.39	111.89	47.23	193.70	612.19	35.80							
18 1991	90.19	41.95	30.83	22.29	63.64	237.33	20.49							
19 1992	159.20	80.19	53.25	28.36	132.55	1141.48	24.60							
20 1993	147.39	99.73	57.64	39.36	137.01	802.19	22.29							
Mean	136.44	76.47	50.85	30.30	112.14	632.29	25.94							