

# C2H122Q01: SODIUM Vaal Dam on Vaal River: Down Stream Weir... 1998-01-01 to 2007-12-31

Flow data: /hri/db/iwqs/db/flow/c2h122a01	Year	n Obs	Mean m3/d	Method1	Method 4
Chem data: /hri/db/wmrq/wmdata/wq/MACRO080815.dat	1998	49	3488814	25537177	15247126
3570 loads calculated: Log flow range = 5.73 to 8.08	1999	50	1933088	9843757	7638659
Method 1: $\text{Sum}(q^*c)/n = 45344 \text{ kg SODIUM/ day}$	2000	42	13720168	68305315	75738860
Method 2: $(q\_avg^*c\_sum)/n = 46836 \text{ kg SODIUM/ day}$	2001	46	2086524	9588736	8353101
Method 3: $(q\_avg^*\text{Sum}(q^*c))/n = 45294 \text{ kg SODIUM/ day}$	2002	48	2271901	10194411	9228263
Regression: $\log c = (0.171 * \log q) + (-0.009) r^2 = 0.07$	2003	53	1049649	4889586	3737374
Method 4: $(\text{Sum}(q^*c)/n)^{(n^*q\_avg/\text{Sum}(q))^{(\text{slope}+1)}} = 45286 \text{ kg SODIUM/ day}$	2004	51	1513441	7416718	5735867
	2005	51	1737323	5387702	6741172
	2006	49	7650357	21749673	38226551
	2007	43	1493039	6167544	5645459

