

Station no:
 Place: Vaal Water
 Latitude: 24 17 02.4
 Longitude: 28 05 58.9
 Catchment area (sq. km):

Data retrieval: Data are continuously updated and reviewed. To limit server overheads and download time, limits per query are **7000** records for primary data and **40** years of data for daily data. Do multiple queries to retrieve the full record.

Rating Tables: Current DT(GP): Current rating - gauge plate versus flow. Start Date: Rating - head above control versus flow.

Data quality: See [quality codes](#).

Data

Data Set	Start Date	End Date		
<input type="text" value="P01"/>	<input type="text" value="19531019"/>	<input type="text" value="20050501"/>	<input type="text" value="Monthly"/>	<input type="text" value="Daily"/>
<input type="text" value="A01"/>	<input type="text" value="19630903"/>	<input type="text" value="20050501"/>	<input type="text" value="Monthly"/>	<input type="text" value="Daily"/>
<input type="text" value="S01"/>	<input type="text" value="19531002"/>	<input type="text" value="20050501"/>	<input type="text" value="Monthly"/>	<input type="text" value="Daily"/>

Rating Tables

Start Date No



Data are continuously updated and reviewed.

Format of the data is as follows : (I4,X,I2,13(X,A6,A1,A1) where:

I4 = CCYY

X = /

I2 = YY

13(X,A6,A1,A1) = 12 Monthly rainfall in mm from Oct to Sep.

Value 13 is the yearly total.

X = Space

A6 = 999999

A1 = & or space (& = Monthly Reading)

A1 = # or space (# = record incomplete or does not exist)

MONTHLY RAINFALL A4E001P01

I4,X,I4,13(X,A6,A1,A1)

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1953/54	#	102.5	43.7	248.2	190.6	72.1	31.2	0.0&	0.0&	0.0&	0.0&	5.3	#
1954/55	44.2	192.3	135.4	134.6	334.0	30.0	56.4	3.6	21.8&	0.0&	0.0&	0.0&	952.2&
1955/56	18.8	61.0	108.7	54.4	151.1	163.3	2.3	39.9&	0.0&	0.0&	0.0&	64.8	664.2&
1956/57	38.6	45.7	125.0	103.9	156.0	30.5	29.0	8.9	47.8	58.9	24.9	36.1	705.1
1957/58	50.3	45.2	72.4	90.2	49.3	36.6	42.4	3.8	2.5&	0.0&	2.5	39.1	434.4&
1958/59	91.7	112.0	231.7	32.3	131.8	64.0	27.7	15.5&	0.0&	0.0&	20.6&	0.0&	727.2&
1959/60	36.8	96.0	81.8	27.2	39.6	74.7	62.5	18.0	3.1	1.0	2.0&	0.0&	442.7&
1960/61	6.4	166.1	151.4	61.7	137.1	69.6	75.9	18.0	11.7&	0.0&	0.0&	1.3	699.3&
1961/62	24.6	103.9	64.5	100.6	43.9	25.9	56.4	0.3&	0.0&	0.0&	5.1&	0.0&	425.2&
1962/63	28.7	133.1	105.9	126.5	5.8	30.0	78.2	6.1	43.4	11.9&	0.0&	0.0&	569.7&
1963/64	43.4	62.2	64.0	143.5	8.4	23.6	19.1	0.8	1.0&	0.0&	0.0&	4.6	370.6&
1964/65	119.1	45.0	93.7	70.1	33.0	18.5	65.5&	0.0&	0.0&	0.0&	0.0&	6.4	451.3&
1965/66	0.8	73.9	34.0	77.2	40.6	21.3	22.1	4.6	23.1&	0.0&	0.0&	0.0&	297.7&
1966/67	23.4	79.5	109.7	262.9	196.3	63.3	81.0	4.3	0.0&	0.0&	11.2&	0.0&	831.6&
1967/68	17.0	58.4	125.5	67.8	9.7	65.5	105.7	22.6&	0.0&	0.0&	2.5&	0.0&	474.7&
1968/69	17.5	130.6	117.9	37.1	43.7	87.4	7.6	20.1&	0.0&	0.0&	0.8	8.4	471.0&
1969/70	18.0	79.3	176.3	65.8	39.9	34.3	26.4	4.6	9.9	9.6&	0.0&	4.8	468.9&
1970/71	48.8	73.9	251.2	220.0	183.9	10.2	53.9	17.0&	0.0&	0.0&	0.0&	9.6	868.5&
1971/72	73.2	146.8	50.3	164.3	102.4	71.9	12.7	21.6&	0.0&	0.0&	0.0&	0.0&	643.1&
1972/73	17.3	65.0	111.8	48.0	114.3	3.6	94.0	7.1&	0.0&	0.0&	0.0&	37.6	498.6&
1973/74	45.7	95.8	168.9	249.9	91.2	75.2	111.3	12.2&	0.0&	25.1&	0.0&	23.9	899.2&
1974/75	5.8	153.7	134.1	339.1	246.1	25.4	132.6	10.2	3.8&	0.0&	0.0&	0.0&	1050.8&
1975/76	8.9	29.0	149.9	147.6	209.6	135.1	40.9	25.4&	0.0&	0.0&	0.0&	14.2	760.5&
1976/77	42.9	65.0	134.5	142.0	126.0	131.0	33.0&	0.0&	0.0&	0.0&	10.0	105.0	789.5&
1977/78	20.0	29.0	194.0	233.0	88.0	96.0	13.0&	0.0&	0.0&	0.0&	0.0&	28.2	701.2&
1978/79	48.0	42.3&	155.0	34.0	64.0	106.0	33.0	26.0&	0.0&	0.0&	24.0&	0.0&	532.3&
1979/80	68.0	113.0	39.0	164.0	190.0	78.0	20.0&	0.0&	0.0&	0.0&	0.0&	33.0	705.0&
1980/81	13.0	151.0	140.3	215.0	129.0	45.0	30.0&	0.0&	0.0&	0.0&	22.0	51.0	796.3&
1981/82	14.0	79.0	34.0	128.0	24.0	150.0	38.0	14.0&	0.0&	0.0&	0.0&	0.0&	481.0&
1982/83	61.0	66.0	33.0	74.0	50.0	111.0	20.0	4.0	10.0&	0.0&	13.0&	0.0&	442.0&
1983/84	20.0	112.0	101.0	107.0	44.0	41.0	13.0&	0.0&	36.0	10.3&	0.0&	3.0	487.3&
1984/85	105.4	79.2	75.0	135.0	162.0	80.4&	0.0&	11.0&	0.0&	0.0&	38.0&	3.0	689.0&
1985/86	78.8	7.0	85.2	65.2	115.8	80.6	80.0&	0.0&	0.0&	0.0&	0.0&	7.0	519.6&
1986/87	54.8	130.5	93.0	175.0	18.0	70.6	52.0&	0.0&	0.0&	0.0&	7.0	72.0	672.9&
1987/88	68.0	89.6	146.6	55.0	60.4	148.4	44.6&	0.0&	6.0	0.0&	0.0&	29.0	647.6&
1988/89	108.8	56.2	72.8	88.2	172.7	73.2	50.5	0.0	23.6&	0.0&	0.0&	0.0&	646.0&
1989/90	46.2	106.3	85.8	44.4	85.6	73.6	83.4	3.0&	0.0&	7.4&	0.0&	6.0&	541.7&
1990/91	0.0&	104.6	61.8	88.2	131.0	83.2	0.0&	0.0&	0.0&	0.0&	0.0&	0.0&	468.8&
1991/92	6.2	50.4	147.0	39.8	86.0	33.0	18.4&	0.0&	6.0&	0.0&	0.0&	4.4	391.2&
1992/93	22.2	76.0	148.0	34.2	70.4	58.4	15.8	2.4&	0.0&	0.0&	0.0&	0.0&	427.4&
1993/94	96.0	107.4	158.0	214.2	79.2	60.0	10.5&	0.0&	0.0&	0.0&	0.0&	0.0&	725.3&
1994/95	35.9	34.9	85.9	126.0	51.4	103.5	78.6	29.4&	0.0&	0.0&	1.8	0.5	547.9&
1995/96	28.4	141.2	288.6	140.8	46.8	47.2	65.4	19.5&	0.0&	4.8&	0.0&	0.0&	782.7&
1996/97	60.8	87.0	96.4	70.6	56.1	173.9	16.0	51.6	0.6	0.0	0.0	40.6	653.6
1997/98	61.8	70.5	89.1	87.0	51.2	25.9	37.6&	0.0&	0.0&	0.0&	0.0&	2.9	426.0&
1998/99	34.4	228.3	153.6	42.3	11.6	95.6&	0.0&	36.2	4.2	11.8&	0.0&	4.2	622.2&
1999/00	45.0	94.4	104.5	245.5	177.0	51.0	112.3	35.4	22.4	1.0&	0.0&	0.0&	888.5&
2000/01	45.2	47.8	62.4	56.2	90.0	18.0	14.0	11.2&	0.0&	0.0&	0.0&	0.0&	344.8&
2001/02	32.4	177.0	30.2	9.4	39.0	0.0	0.0	0.0	0.0	0.0	6.5	6.2	300.7
2002/03	72.9	40.2	186.3	#	#	#	#	#	#	#	#	#	#
2003/04	#	#	#	#	#	#	#	#	#	#	#	#	#
2004/05	0.0	13.2	0.0	0.0	97.7	15.8	107.2	#	#	0.0	0.0	0.0	#
Avg:	41.4	89.2	111.9	113.7	97.5	65.6	44.4	10.4	5.7	2.9	3.8	13.0	602.8
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I4 = CCYY

X = /

I2 = YY

13(X,A6,A1,A1) = 12 Monthly evaporation in mm from Oct to Sep.

Value 13 is the yearly total.

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A6 = 999999

A1 = &/E/* or space (& = Monthly Reading)

(E = Estimated Data

(* = Calculated estimate)

A1 = # or space (# = record incomplete or does not exist)

MONTHLY EVAPORATION A4E001A01

I4,X,I4,13(X,A6,A1,A1)

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1963/64	242.1	212.1	270.3	216.2E	219.0	209.0	158.7	128.7	101.7	116.4	175.8E	226.1	2276.0E
1964/65	222.2	249.2	193.5	223.5	202.2	199.4	137.4	130.0	103.2	124.0	158.5	208.6	2151.7
1965/66	282.7	190.7	283.0	272.8	171.7	202.7	151.7	131.0	96.8	117.9	162.6	210.3	2273.8
1966/67	253.0	271.5	204.2E	193.3E	141.7E	164.3	110.7E	104.6E	98.6	108.3	125.4E	198.1	1973.8E
1967/68	238.5	211.6E	240.3	258.0E	210.8	156.0E	126.0E	91.2	84.8	117.9	143.5	211.3	2089.9E
1968/69	247.9	212.3E	236.5E	248.9	173.7E	143.3E	124.2	103.9	98.6	116.9	142.5	209.6	2058.3E
1969/70	208.3	233.7E	199.4E	251.2	176.5	173.0E	66.5 #	136.6	108.0E	117.9	158.5	202.9	2032.5E#
1970/71	238.0E	216.9	254.5E	197.9E	43.9E	201.7	141.4E	106.4	101.6	119.9	166.6	190.7E	1979.7E
1971/72	224.6	204.5	226.1	181.1E	237.2E	150.1E	120.4	113.8E	100.6	135.6	154.9	235.7	2084.6E
1972/73	242.1E	239.8E	285.5E	250.2	179.9	199.1	138.9E	121.4	103.7	115.4	183.9	192.1	2251.8E
1973/74	198.6	244.1E	183.4E	161.8E	144.5	158.0E	137.7E	95.6	89.4	89.2	142.3	190.5E	1835.1E
1974/75	228.1E	144.0E	178.8	230.9E	122.3E	139.7	112.5E	95.0E	68.3	103.2	139.7	189.5	1752.1E
1975/76	210.6	228.4E	209.4E	166.2E	159.5E	129.6E	112.3E	87.4	92.5	111.8	148.3	187.0	1842.7E
1976/77	185.9E	181.9E	198.9E	230.2E	153.2E	120.2E	127.5E	108.8	96.6	110.7	149.3	178.6E	1841.7E
1977/78	231.9	218.7E	193.0E	188.9E	124.8E	155.5E	125.0	111.2	99.1	107.2	156.0	182.1E	1893.4E
1978/79	203.7E	#	226.4E	225.0	181.5	196.0E	137.5	132.5E	103.0	123.5	134.3E	193.5	#
1979/80	221.3E	168.8E	203.5	187.9E	126.3E	155.0E	134.3E	127.0	89.5	99.0	160.0	162.0	1834.4E
1980/81	247.6E	181.0E	180.6E	176.4E	173.1E	126.2E	114.5E	96.5	86.0	100.5	121.5	173.8E	1777.6E
1981/82	182.5E	228.7E	215.3E	204.0E	179.0	166.5E	116.5	101.0	91.5	110.0	159.0	203.5E	1957.4E
1982/83	200.0E	191.5E	211.8E	216.3E	216.0	179.6E	96.8E	76.0	75.0	122.5E	141.5	219.0	1945.8E
1983/84	220.5	232.0	196.3E	225.5E	185.0	163.5E	132.5	66.5 #	86.5	80.3	127.0	185.0	1900.6E#
1984/85	205.9E	169.2E	231.1E	194.5E	159.0E	167.4E	138.0	96.0E	88.5	97.5	140.5	163.5E	1851.1E
1985/86	226.8E	208.8E	128.7E	185.2	151.7E	147.8E	98.5E	83.0	67.0	81.0	121.5	133.5	1633.5E
1986/87	132.4E	162.9E	139.8E	168.5E	155.0E	131.9E	114.5E	115.0	99.0	104.0	127.0	157.0	1606.9E
1987/88	184.0	160.6E	175.1E	184.5E	154.9	120.9E	74.0 #	96.0	77.0	88.0	83.0	83.5E	1481.5E#
1988/89	115.6E	158.2E	115.1E	149.3E	118.0E	126.2E	91.9E	100.3E	78.3E	83.0	84.0	83.0	1302.9E
1989/90	125.2E	104.8E	92.7E	165.3E	142.1	130.9E	110.1E	80.8E	78.0	84.5E	116.0	167.0	1397.5E
1990/91	180.0	167.2E	178.8	141.3E	131.2E	143.4E	88.0	53.0 #	78.0	81.0	106.0	103.0	1450.9E#
1991/92	132.6E	180.4	169.0E	183.3E	183.8E	169.0	142.5E	122.0	118.0	103.0	137.0	146.4	1787.0E
1992/93	163.7E	147.5E	138.3E	162.2	156.0E	145.5E	122.8	118.4	101.0	112.0	138.0	200.0	1705.4E
1993/94	182.6E	173.9	179.0	139.8E	127.7E	146.0	104.5	98.5	92.5	106.5	128.0	190.0	1669.0E
1994/95	204.4	166.9	209.5E	212.3E	171.3E	152.8E	138.6E	90.0E	93.5	105.5	149.3	192.5	1886.6E
1995/96	248.9	219.6E	185.5E	130.2E	100.1E	151.2	114.2E	82.0	84.0	93.8	123.0	180.5	1712.9E
1996/97	224.4E	184.4E	201.9	163.1	159.6	128.9E	113.3E	56.6E#	94.1	#	#	147.7E	#
1997/98	163.8	189.5E	199.6	173.9E	181.2	194.4	150.6	143.3E	117.0	114.5	139.5	164.9	1932.2E
1998/99	179.3E	149.0E	138.9E	135.0E	187.8E	179.0E	151.8E	115.2	105.2	106.4E	153.5	196.2	1797.2E
1999/00	231.0	203.1E	189.5E	178.4E	154.1E	118.2E	113.7E	88.4	76.5E	91.0	122.0E	163.0	1728.9E
2000/01	180.3E	192.4E	195.9E	216.7E	124.0E	162.3E	139.5E	103.7E	81.5	135.3E	101.2E	107.5	1740.2E
2001/02	154.9	160.2E	165.0E	194.9E	154.3E	#	#	70.0E	96.3E	106.0E	115.0E	152.7E	#
2002/03	146.1E	121.0E	118.0E	#	#	#	#	#	#	#	#	#	#
2003/04	#	#	#	#	#	#	#	#	#	#	#	#	#
2004/05	139.8E#	154.7E#	#	#	129.0E#	58.3E#	82.5E#	#	#	#	58.5E#	111.8E#	#
Avg:	202.8	191.8	193.5	194.5	159.8	158.0	124.7	105.6	92.3	106.3	137.8	176.5	1861.6
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A1 = &/E/* or space(& = Monthly Reading)

(E = Estimated Data

(* = Calculated estimate)

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MONTHLY EVAPORATION A4E001S01

I4,X,I4,13(X,A6,A1,A1)

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1953/54	#	175.6	180.6E	139.2E	129.5	117.6E	111.8E	102.1	81.8	92.9	117.9	150.9	#		
1954/55		204.6E	161.3E	158.1E	130.8E	105.2E	125.0E	103.1	78.5	74.2	90.1	122.3	162.6	1515.7E	
1955/56		146.8	180.6	148.1	173.5	132.7E	123.7	107.2	83.3	76.2	79.8	120.4	52.1	# 1424.3E#	
1956/57	45.2	#	154.3E	166.4E	157.2	153.7E	73.9E#	97.6	91.9	63.2E	89.7	110.0	122.9	1326.1E#	
1957/58	143.8		197.6	184.2	151.4	132.3E	148.6	113.6	117.1E	85.3	89.7	119.2	123.2	1606.0E	
1958/59	190.6E		211.6	121.7E	159.3E	132.1	123.4E	117.9E	91.5	73.9	74.2	110.2E	141.7E	1548.1E	
1959/60	177.2E		168.4E	162.8E	203.2E	155.7	145.5	111.3E	84.8	71.6	88.4	103.4E	155.0E	1627.3E	
1960/61	184.2		159.9E	160.7E	162.1	134.2E	112.8	100.6E	85.3	60.0	77.0	111.5	174.0E	1522.1E	
1961/62	243.1		173.5	197.4	211.1	190.5	181.9	126.8	101.9	97.1	103.4	138.2	195.3	1960.0	
1962/63	259.1		171.7E	201.9	170.9E	201.4	184.7	104.7	90.5	64.2E	78.8	114.8	169.2	1811.8E	
1963/64	187.2		176.5	220.2	184.2E	194.6	184.2	134.9	108.2	86.6	93.7	129.1	180.6	1879.9E	
1964/65	182.4E		212.9	170.0	195.1	189.5	182.6	127.3E	112.5	88.9	98.6	135.9	170.7	1866.2E	
1965/66	234.7		168.4	246.9	224.0	156.5	183.7	132.3	116.6	77.7	102.9	137.9	187.7	1969.2	
1966/67	229.4		235.3E	171.1E	143.5E	115.1E	133.1	93.5	85.8	78.8	89.9	103.1	157.8	1636.3E	
1967/68	182.6		165.6	190.8	205.3E	172.2	132.3E	104.3E	76.2	73.4	79.5	100.1	155.2	1637.4E	
1968/69	198.4		163.3E	175.7E	197.1	140.0E	111.8E	101.9	83.8	76.2	86.4	112.3	159.5	1606.3E	
1969/70	166.4		186.2E	166.1E	202.7	157.5	159.5E	96.7E#	106.7	77.7	96.0E	122.7	163.1	1701.3E#	
1970/71	208.5E		163.6	202.4E	152.7E	38.6	#	171.0	119.2E	94.0	83.1	92.7	131.6	167.7	1625.0E#
1971/72	180.1		176.8	189.8	162.6E	166.7E	120.9E	112.3	95.5	88.1	95.8	118.4	189.0	1695.9E	
1972/73	202.4E		198.5E	247.4	219.9	156.5	169.2	104.7E	102.1	90.4	91.9	133.6	176.8	1893.4E	
1973/74	166.9E		191.5E	144.8E	139.7E	122.4	126.5E	96.4E	85.1	74.7	76.2	119.7	169.7E	1513.6E	
1974/75	189.0E		131.1E	165.6	214.9E	120.3E	121.2	96.3E	81.0E	61.7	82.8E	106.7	154.9	1525.5E	
1975/76	184.9E		190.5	159.0E	156.3E	133.6E	113.8E	96.0	81.3	79.5	93.5	119.6	157.8	1636.3E	
1976/77	172.7		151.1	191.8E	211.9E	135.1E	85.9E	103.4	98.0	78.8	90.2	114.6	142.0E	1575.4E	
1977/78	197.9		221.0E	180.9E	154.5E	108.2	136.7	116.1	109.7	82.3	82.8	123.0	138.4	1651.3E	
1978/79	167.1		217.3&	204.8E	189.0	149.0	165.5	122.0	92.5	89.5	80.0	104.5	153.0	1734.2E	
1979/80	178.5		155.5	179.5	163.3E	133.9E	140.0E	142.5E	91.0	73.5	85.5	122.0	135.0E	1600.2E	
1980/81	244.6E		155.5E	188.1E	179.2E	152.8E	139.3E	127.5	88.0	72.5	83.5	99.5E	153.5E	1683.9E	
1981/82	161.8E		209.2E	180.9E	183.5	158.6E	148.5	99.5	82.5	75.0	84.0	121.0	167.7E	1672.2E	
1982/83	172.1E		178.0E	189.2E	202.5E	192.5	162.5E	102.1E	91.0E	74.0	93.5E	114.5	191.5	1763.4E	
1983/84	198.0		198.5	174.5	203.5E	179.0	152.0E	126.0	111.2E	65.0	68.1E	108.5	151.5	1735.8E	
1984/85	180.4		154.2E	206.0E	185.0	144.0	147.5E	124.0	86.3E	69.5	88.0	129.0	152.5E	1666.4E	
1985/86	206.3		203.0E	139.7E	183.2E	156.0E	148.1	102.0E	91.0	69.5	79.5	116.5	129.5	1624.3E	
1986/87	141.2E		149.0E	172.0E	164.5E	158.0E	119.9E	119.0	106.5	81.0	92.0	112.0	133.0	1548.1E	
1987/88	166.0		151.6	164.6E	170.5E	153.4E	118.5E	103.0E	91.0	72.0	79.0	85.0	84.6E	1439.2E	
1988/89	#	154.2E	111.8	142.2E	120.0E	116.3E	92.4E	131.0	78.8E	90.0	84.0	89.0	#	#	
1989/90	128.0E		99.9E	92.7E	147.1E	129.6	126.4E	99.9	72.1E	69.0	76.4	106.0	145.0	1292.1E	
1990/91	177.5E		#	#	#	#	114.1E	89.0	90.8E	76.0	76.0	100.0	104.0	#	
1991/92	129.6E		153.4E	131.0E	173.8	175.2E	156.0	154.4	114.0	94.0E	91.0	123.0	151.4	1646.8E	
1992/93	160.7E		132.5E	153.9E	145.2	154.1	122.4	119.8	108.4	93.0	98.0	119.5	171.5	1579.0E	
1993/94	159.0		140.4	137.6E	118.2	122.2	133.0	93.5	94.0	88.0	91.5	115.0	166.0	1458.4E	
1994/95	179.4		143.4	175.4	198.0	174.4	138.5	121.6E	83.4	80.5	88.5	121.3	158.1E	1662.5E	
1995/96	192.4		186.8E	173.1E	109.3E	91.3E	138.8E	101.9E	70.0	71.0	70.3	101.5	160.5	1466.9E	
1996/97	201.3		155.0	174.9	153.3E	148.6	113.0E	102.0	85.5E	75.6	#	#	95.0E	#	
1997/98	147.8		175.0	204.4E	148.5	151.2	167.4	133.8E	109.0	83.5	87.0	113.5	147.4	1668.5E	
1998/99	139.0E		141.3E	127.6	129.0E	167.1E	159.1	138.4E	97.3E	80.2	83.1E	122.0	152.2	1536.3E	
1999/00	184.0		157.4	160.1E	131.5E	132.1E	91.5	97.8E	68.4	58.0E	63.5	95.0E	115.0	1354.4E	
2000/01	144.2		154.8	166.4E	189.7	102.5E	157.5E	120.0E	90.2E	76.5	104.9E	84.0E	79.0	1469.6E	
2001/02	132.4E		128.3E	140.5E	158.4	150.0E	151.5E	#	87.3E	56.0E	93.0	102.5E	128.7E	#	
2002/03	153.5E		136.0E	83.5E	#	#	#	#	#	#	#	#	#	#	
2003/04	#		#	#	#	#	#	#	#	#	#	#	#	#	
2004/05	130.0E#		129.3E#	#	#	127.6E#	64.0E#	65.9E#	#	#	#	#	#	#	
Avg:	180.4		169.7	170.1	170.7	147.5	140.1	112.0	93.8	76.9	86.7	114.1	149.5	1630.2	
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