

**SCIENTIFIC SERVICES, KRUGER NATIONAL PARK  
RAINFALL SUMMARY  
NOVEMBER 2009**

MONITORING STATION	YRS OF DATA	# OF MISSING RETURNS	RETURN RECEIVED	RAINFALL TOTALS (mm)							ABOVE MTH AVERAGE
				LONG-TERM AVERAGE ANNUAL TOTAL	TOTALS FOR THIS MONTH			CUMULATIVE TOTAL BY END OF THIS			
					LONG-TERM AVERAGE FOR MONTH	THIS MONTH	% OF MONTHLY AVERAGE	AVERAGE CUMULATIVE TOTAL	CUMULATIVE TOTAL BY MONTH END	% OF AVERAGE CUMULATIVE TOTAL	
					a	b	c	d	e	f	
PAFURI WENELA	69	0	1	423.6	56.9	0.0	0.0	95.2	6.9	7.2	FALSE
PUNDA MARIA	72	0	1	530.6	68.2	192.9	282.8	118.8	228.3	192.2	TRUE
VLAKTEPLAAS	18	0	1	515.1	71.2	154.5	217.0	144.6	169.0	116.9	TRUE
SHINGWEDZI	40	0	1	504	63.7	132.9	208.6	129.8	147.8	113.9	TRUE
SHANGONI	43	0	1	458.2	70.6	238.6	338.0	134.8	257.3	190.9	TRUE
WOODLANDS	19	0	1	478.9	79.8	146.8	184.0	138.7	165.2	119.1	TRUE
MOOIPLAAS	28	0	1	496.3	66.3	159.2	240.1	121.9	176.5	144.8	TRUE
MAHLANGENI	42	0	1	462.7	61.3	142.6	232.6	120.8	188.1	155.7	TRUE
LETABA	45	0	1	456.7	67.2	104.4	155.4	125.4	145.6	116.1	TRUE
PHALABORWA	63	0	1	500.3	72	0.0	0.0	131.3	14.0	10.7	FALSE
OLIFANTS RANGER	27	0	1	496.5	79.4	105.3	132.6	141.5	113.8	80.4	FALSE
HOUTBOSCHRAND	19	0	1	438.9	77.1	116.2	150.7	131.3	124.1	94.5	FALSE
SATARA	54	0	1	543.7	74.5	206.5	277.2	142.7	210.5	147.5	TRUE
NWANETSI	33	0	1	541.4	62.5	98.2	157.1	137.8	104.4	75.8	FALSE
KINGFISHERSPRUIT	41	0	1	571.8	77.5	154.9	199.9	152.7	177.0	115.9	TRUE
TSHOKWANE	60	0	1	562.3	72.4	122.1	168.6	147.3	134.6	91.4	FALSE
SKUKUZA	76	0	1	550.4	74.7	136.3	182.5	149.8	167.8	112.0	TRUE
LOWER SABIE	33	0	1	602.6	68.2	205.3	301.0	151.2	286.6	189.6	TRUE
PRETORIUSKOP	60	0	1	737.2	100.4	232.0	231.1	205.8	325.0	157.9	TRUE
STOLZNEK	20	0	1	672.9	90.8	209.2	230.4	178.6	288.4	161.5	TRUE
CROCODILE BRIDGE	55	0	1	620	84.3	135.8	161.1	173.7	194.8	112.1	TRUE
BERG EN DAL	#	0	1	660	*	476.3	*	*	549.2	*	*
MALELANE	85	0	1	639.3	91.3	193.6	212.0	179.7	268.8	149.6	TRUE
<b>TOTALS FOR KNP</b>		<b>0</b>	<b>23</b>	<b>537.2</b>	<b>72.9</b>	<b>159.3</b>	<b>218.5</b>	<b>141.1</b>	<b>193.2</b>	<b>136.9</b>	<b>TRUE</b>

### EXPLANATORY NOTES

<b>#</b>	Station with less than 15 years' of data. Figure in brackets next to the station name is the number of years' data used to calculate averages. At least 15 years' of data required for a reliable average. Average annual total in these cases is therefore an estimate. Monitoring stations are arranged in geographic sequence, north to south. Stations in bold: Long-term or 'senior' stations with over 15 year's data.
<b>Annual</b>	Climatic year, 1 July to 30 June. Annual averages calculated up to and including 2001/02
<b>*</b>	No long-term averages available
<b>Yrs of Data</b>	Number of years' data used to calculate averages
<b># of Missing Returns</b>	Number of cumulative returns missing for this station for the year (including current month)
<b>Return Received</b>	Monthly return received Yes (1) or No (0)
<b>Long Term Average</b>	Long Term Annual Average
<b>Average for Month (a)</b>	The total received for this specific month, averaged over a period of at least 15 years.
<b>This Month's Total (b)</b>	The total rainfall received during the current month.
<b>% of Monthly Average (c)</b>	The current month's total as a percent of the long-term average monthly total (b/a X 100%).
<b>Average Cumulative Total (d)</b>	Starting at the beginning of the climatic year (July), the sum of each month's average monthly total, up to the end of the current month. By the end of the climatic year (end June), this total thus equals the long-term average annual total.
<b>Cumulative Total by Month End (e)</b>	Starting at the beginning of the climatic year (July), the sum of the monthly totals of the current climatic year (1 July to 30 June) up to and including the current month.
<b>% of Average Cumulative Total (f)</b>	The current month's cumulative total as a percent of the long-term average cumulative total by the end of the current month (e/d X 100%).
<b>Above mth Average (g)</b>	Above (TRUE) or Below (FALSE) Long-Term Month Average