

**SCIENTIFIC SERVICES, KRUGER NATIONAL PARK
RAINFALL SUMMARY
SEPTEMBER 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 | 11.6 | 0.1 | 0.9 | 18 | 5.6 | 31.1 | FALSE |
| PUNDA MARIA | 72 | 0 | 1 | 530.6 | 12.9 | 0.0 | 0.0 | 22 | 4.1 | 18.6 | FALSE |
| VLAKTEPLAAS | 18 | 0 | 1 | 515.1 | 19.2 | 1.0 | 5.2 | 32.7 | 9.5 | 29.1 | FALSE |
| SHINGWEDZI | 40 | 0 | 1 | 504 | 20.1 | 1.5 | 7.5 | 30.1 | 11.5 | 38.2 | FALSE |
| SHANGONI | 43 | 0 | 1 | 458.2 | 16.5 | 1.5 | 9.1 | 27.6 | 7.3 | 26.4 | FALSE |
| WOODLANDS | 19 | 0 | 1 | 478.9 | 15 | 2.0 | 13.3 | 28 | 10.9 | 38.9 | FALSE |
| MOOIPLAAS | 28 | 0 | 1 | 496.3 | 13.4 | 0.8 | 6.0 | 24.3 | 2.3 | 9.5 | FALSE |
| MAHLANGENI | 42 | 0 | 1 | 462.7 | 14 | 20.3 | 145.0 | 25.6 | 23.4 | 91.4 | FALSE |
| LETABA | 45 | 0 | 1 | 456.7 | 14.8 | 0.1 | 0.7 | 27.2 | 8.7 | 32.0 | FALSE |
| PHALABORWA | 63 | 0 | 1 | 500.3 | 14.2 | 1.6 | 11.3 | 27.8 | 9.3 | 33.5 | FALSE |
| OLIFANTS RANGER | 27 | 0 | 1 | 496.5 | 13.2 | 1.8 | 13.6 | 27.4 | 3.2 | 11.7 | FALSE |
| HOUTBOSCHRAND | 19 | 0 | 1 | 438.9 | 8.2 | 2.0 | 24.4 | 23.1 | 3.0 | 13.0 | FALSE |
| SATARA | 54 | 0 | 1 | 543.7 | 17.8 | 0.0 | 0.0 | 31.7 | 0.0 | 0.0 | FALSE |
| NWANETSI | 33 | 0 | 1 | 541.4 | 21.5 | 0.0 | 0.0 | 37.4 | 2.5 | 6.7 | FALSE |
| KINGFISHERSPRUIT | 41 | 0 | 1 | 571.8 | 20.1 | 1.9 | 9.5 | 35.8 | 12.2 | 34.1 | FALSE |
| TSHOKWANE | 60 | 0 | 1 | 562.3 | 19.7 | 0.0 | 0.0 | 35.4 | 0.0 | 0.0 | FALSE |
| SKUKUZA | 76 | 0 | 1 | 550.4 | 23.9 | 0.2 | 0.8 | 40 | 13.6 | 34.0 | FALSE |
| LOWER SABIE | 33 | 0 | 1 | 602.6 | 21.4 | 0.0 | 0.0 | 39.6 | 33.0 | 83.3 | FALSE |
| PRETORIUSKOP | 60 | 0 | 1 | 737.2 | 28.3 | 2.5 | 8.8 | 50.4 | 44.5 | 88.3 | FALSE |
| STOLZNEK | 20 | 0 | 1 | 672.9 | 19.2 | 1.5 | 7.8 | 37.8 | 33.7 | 89.2 | FALSE |
| CROCODILE BRIDGE | 55 | 0 | 1 | 620 | 24.4 | 0.0 | 0.0 | 43.2 | 34.8 | 80.6 | FALSE |
| BERG EN DAL | # | 0 | 1 | 660 | * | 4.5 | * | * | 37.7 | * | * |
| MALELANE | 85 | 0 | 1 | 639.3 | 21.8 | 0.7 | 3.2 | 37.7 | 29.5 | 78.2 | FALSE |
| TOTALS FOR KNP | | 0 | 23 | 537.2 | 17.3 | 1.9 | 11.1 | 31.3 | 14.8 | 47.3 | FALSE |

EXPLANATORY NOTES

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| # | 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. |
| Annual | Climatic year, 1 July to 30 June. Annual averages calculated up to and including 2001/02 |
| * | No long-term averages available |
| Yrs of Data | Number of years' data used to calculate averages |
| # of Missing Returns | Number of cumulative returns missing for this station for the year (including current month) |
| Return Received | Monthly return received Yes (1) or No (0) |
| Long Term Average | Long Term Annual Average |
| Average for Month (a) | The total received for this specific month, averaged over a period of at least 15 years. |
| This Month's Total (b) | The total rainfall received during the current month. |
| % of Monthly Average (c) | The current month's total as a percent of the long-term average monthly total (b/a X 100%). |
| Average Cumulative Total (d) | 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. |
| Cumulative Total by Month End (e) | 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. |
| % of Average Cumulative Total (f) | 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%). |
| Above mth Average (g) | Above (TRUE) or Below (FALSE) Long-Term Month Average |