

# **SAFARI 2000 Daily Rainfall Totals for Mongu, Zambia, 1999-2002**

## **Abstract**

This data set contains daily rainfall totals (mm) from Mongu, in the Western Province of Zambia. The data were collected with a British standard 5 inch diameter rain gauge in a yard outside the Meteorological Department building near the Mongu Airport (north of downtown and approximately 20 km from the Kataba Local Forest tower). These data form the official government rainfall record for Mongu.

## **Background Information**

### **Investigators:**

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**Project:** SAFARI 2000

**Data Set Title:** SAFARI 2000 Daily Rainfall Totals for Mongu, Zambia, 1999-2002

**Site:** Mongu, Zambia

**Westernmost Longitude:** 23° 9.31979'

**Easternmost Longitude:** 23° 9.31979'

**Northernmost Latitude:** -15° 15.2115'

**Southernmost Latitude:** -15° 15.2115'

### **Data Set Citation:**

Mukelabai, M. M. 2005. SAFARI 2000 Daily Rainfall Totals for Mongu, Zambia, 1999-2002. Data set. Available on-line [<http://daac.ornl.gov/>] from Oak Ridge National Laboratory Distributed Active Archive Center, Oak Ridge, Tennessee, U. S.A.

## Data File Information

The data files consist of 3 files, one for each year (July to Jun). Each files contains monthly columns with totals for each day of the month as well as a monthly total. The data files are stored as ASCII text files in comma-separated-value (csv) format. The format and contents of the files in this data set are described below. Zeros indicate no measurable rainfall and blank fields are nonexistent days (e.g., 30-Feb).

| Column Number | Column Name | Definition                | Units   |
|---------------|-------------|---------------------------|---------|
| 1             | Day         | day of month              | numeric |
| 2             | Jul         | July rainfall amount      | mm      |
| 3             | Aug         | August rainfall amount    | mm      |
| 4             | Sep         | September rainfall amount | mm      |
| 5             | Oct         | October rainfall amount   | mm      |
| 6             | Nov         | November rainfall amount  | mm      |
| 7             | Dec         | December rainfall amount  | mm      |
| 8             | Jan         | January rainfall amount   | mm      |
| 9             | Feb         | February rainfall amount  | mm      |
| 10            | Mar         | March rainfall amount     | mm      |
| 11            | Apr         | April rainfall amount     | mm      |
| 12            | May         | May rainfall amount       | mm      |
| 13            | Jun         | June rainfall amount      | mm      |

## Site Description

The Mongu meteorological station is located in the town of Mongu in the Western Province of Zambia, where the Zambia Meteorological Department (ZMD) maintains a local office. The meteorological station rain gauge is approximately 30 m away from the nearest building. This station is located about 20 km north of the Kataba Local Forest where the permanent 30 m Mongu tower site is located.

The Mongu tower site is one of the Earth Observing System (EOS) Land Validation Core sites. The vegetation in the area is described as Kalahari Woodlands.

## **Materials and Methods**

The data were collected with a British standard 5 inch diameter rain gauge in a yard outside the Meteorological Department building near the Mongu Airport (north of downtown and approximately 20 km from the Kataba Local Forest tower). These data form the official government rainfall record for Mongu. Rainfall readings were taken by ZMD staff each morning at 06:00 GMT.

## **Additional Sources of Information**

### **Related Data Sets**

Additional related data sets collected at the Mongu site during SAFARI 2000 are archived by ORNL DAAC. A list of these data sets is available at: <http://www.daac.ornl.gov/S2K/safari.html>.

### **References**

Zambia Meteorological Department. 2003. Rainfall Summaries for Mongu, Zambia, 1999-2002. Zambia Meteorological Department, Mongu, Zambia.

### **Point of Contact:**

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