



# KLIPDRIF DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
26°37'00" S	27°18'04" E

## LOCATION

Klipdrif Dam is located in quaternary catchment C23J near Potchefstroom in the Upper Vaal Water Management Area in South Africa. It is located on the Loopspruit River, which is a tributary of the Mooi River.

## DESCRIPTION

Klipdrif Dam is an earthfill dam with a rock/soil foundation. It has a full supply level of 1 368.4 m, a dead storage level of 1 363.5 m, and the bottom of reservoir is at 1 363.5 m.

## PURPOSE

Used for irrigation.

## PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m <sup>3</sup> )	SA (km <sup>2</sup> )	Owner	DWA code	Wall height (m)	Wall length (m)
Klipdrif	Loopspruit	C23J	13.6	4.7	DWA	C2R005	12	1 721

\* Live full supply capacity (ORASECOM)



Klipdrif Dam Wall (source: SA Dept of Water Affairs)



## KLIPDRIF DAM

Year of completion	Demands/abstractions (million m <sup>3</sup> /a)			1:50 yield (million m <sup>3</sup> /a)	Maximum spillway capacity (m <sup>3</sup> /s)
	Domestic	Irrigation	Other		
1971	Unknown	2.295 †	Unknown	5‡	700

† From Reservoir records for 2009 hydrological year

‡ Water Resource Situation Assessment (SSI Engineers and Environmental Consultants)

0.44 million m<sup>3</sup>/a of the irrigation is classified as a streamflow reduction activity.

## AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m <sup>3</sup> )	Surface area (km <sup>2</sup> )
1 369.5	19.628	5.861
1 368.4	13.576	4.713
1 367.5	9.936	3.910
1 366.5	6.417	3.193
1 365.5	3.499	2.663
1 364.5	1.011	2.425
1 363.47	0.00	0.000

## OPERATING RULE

Klipdrif Dam, along with Klerkskraal, Boskop and Lakeside Dams, is part of the Mooi River sub-system. These dams are operated to allow for supply of their demands, until they reach their respective minimum operating levels. The sub-system does not support Vaal or the Bloemhof sub-system.

