



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. The dead storage level is 1,363.5 m and the bottom of the reservoir is at 1,363.5 m.

PURPOSE

Used for irrigation; 0.44 million m³/a of the irrigation is classified as a streamflow reduction activity.

PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m ³)	FSA (km ²)	Owner	DWA code	Wall height (m)	Wall length (m)
Klipdrif	Loopspruit	C23J	13.60	4.70	DWA	C2R005	12	1,721

* Live full supply capacity (ORASECOM, 2007a, WRYM datasets and DWA, 1990)



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



KLIPDRIF DAM

Year of completion	Demands/abstractions (million m ³ /a)			1:50 yield (million m ³ /a)	Maximum spillway capacity (m ³ /s)
	Domestic	Irrigation	Other		
1971	Unknown	2.30 †	Unknown	5 ‡	700

† DWA, Directorate of Hydrological Services correspondence, 2012

‡ DWA 2002a to e

AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m ³)	Surface area (km ²)
1,369.5	19.63	5.86
1,368.4	13.58	4.71
1,367.5	9.94	3.91
1,366.5	6.42	3.19
1,365.5	3.50	2.66
1,364.5	1.01	2.43
1,363.5	0.00	0.00

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 the Vaal or Bloemhof sub-systems.

