

# KLERKSKRAAL DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
26° 15' 09" S	27° 09' 38" E

## LOCATION

Klerkskraal Dam is located on the Mooi River, South Africa, in quaternary catchment C23F.

## DESCRIPTION

Klerkskraal Dam is a gravity concrete dam with earthfill flanks. It has a full supply level of 1,461.1 m and a dead storage level of 1,456.2 m. The bottom of the reservoir is at 1,454.5 m.

## PURPOSE

Klerkskraal Dam is used to supply irrigation demands.

## PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m <sup>3</sup> )	FSA (km <sup>2</sup> )	Owner	DWA code	Wall height (m)	Wall length (m)
Klerkskraal	Mooi	C23F	8.20	3.80	DWA	C2R003	15	605

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



Klerkskraal Dam (source: SA Dept of Water Affairs)



## KLERKSKRAAL 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		
1969	Unknown	29.60	Unknown	24.00	354

## AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m <sup>3</sup> )	Surface area (km <sup>2</sup> )
1,462.5	14.77	5.89
1,461.1	8.25	3.84
1,460.5	6.12	3.20
1,459.5	3.47	2.30
1,458.5	1.65	1.49
1,457.5	0.58	0.78
1,456.2	0.09	0.19
1,454.5	0.00	0.00

## OPERATING RULE

Klerkskraal, Boskop and Lakeside dams are part of the Mooi River Sub-system, as is Klipdrif Dam, which is located on the Loopspruit River, which is a tributary of the Mooi River. 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.

