



SPITSKOP DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
28° 07' 24" S	24° 30' 07" E

LOCATION

Spitskop Dam is located in quaternary catchment C33B in the Lower Vaal Water Management Area in South Africa.

DESCRIPTION

Spitskop Dam is a gravity concrete dam with earthfill. It has a full supply level of 1,042.6 m and a dead storage level of 1,037.1 m. The bottom of the reservoir is at 1,037.0 m.

PURPOSE

Spitskop Dam is used for irrigation along the lower Harts River upstream of the Vaal confluence. The dam is currently underutilised due to large volumes of return flow from the Vaalharts Irrigation Scheme.

PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m ³)	FSA (km ²)	Owner	DWA code	Wall height (m)	Wall length (m)
Spitskop	Harts	C33B	57.90	25.30	DWA	C3R002	18	683

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



Spitskop Dam (source: www.panoramio.com)



SPITSKOP 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		
1975	Unknown	Unknown	Unknown	Unknown	878

AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m ³)	Surface area (km ²)
1,043.0	69.61	28.73
1,043.6	57.89	25.31
1,042.0	44.33	23.17
1,041.0	25.15	16.90
1,040.0	11.73	11.24
1,039.0	4.09	5.77
1,038.0	0.71	2.39
1,037.1	0.06	0.19
1,037.0	0.00	0.00

OPERATING RULE

The operating rule is to be updated as part of a South African Department of Water Affairs study (in conjunction with Taung Dam).

