

TIERPOORT DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
26°08'11" S	29°25'18" E

LOCATION

Tierpoort Dam is located near Bloemfontein in the Free State, South Africa, in quaternary catchment C51D in the Upper Orange Water Management Area in South Africa.

DESCRIPTION

Tierpoort Dam is an earthfill dam. The dam has a full supply level of 1 382.8 m, with a dead storage level and bottom of reservoir at 1 374.5 m. The dam was commissioned in 1923 but was reconstructed in 1990 after the 1988 floods washed the dam away.

PURPOSE

The Tierpoort Dam Scheme is used to supply irrigation demands downstream of the dams, through a canal system. The right and left bank canals supply an average of 3.9 million m³/a and 3.7 million m³/a, respectively, with an additional 3.77 million m³/a directly off the dam.

PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m ³)	SA (km ²)	Owner	DWA code	Wall height (m)	Wall length (m)
Tierpoort	Tierpoort	C51D	34.5	9.10	Tierpoort Irrigation Board	C5R001	20	180

* Live full supply capacity (ORASECOM)



Tierpoort Dam (source: SA Dept of Water Affairs)



TIERPOORT 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		
1990	Unknown	11.37†	Unknown	Unknown	4 700

† WR2005, WRC

AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m ³)	Surface area (km ²)
1 383.5	41.64	10.17
1 382.8	34.50	9.10
1 382.4	31.32	8.55
1 382.0	28.02	7.93
1 380.5	17.67	6.00
1 379.1	10.37	4.34
1 377.2	3.67	2.70
1 376.4	1.82	1.92
1 374.7	0.05	0.25
1 374.4	0.00	0.00

