



# MODDERPOORT DAM

COORDINATES (degrees, minutes, seconds)

| LATITUDE    | LONGITUDE   |
|-------------|-------------|
| 27°10'24" S | 25°20'10" E |

## LOCATION

Modderpoort Dam is situated in D55A on the Rietfontein River near Beaufort West in the Western Cape, South Africa.

## DESCRIPTION

Modderpoort Dam is an earth dam with a free overspill spillway (no capacity available). The full supply level is 1 700 m.

## PURPOSE

The dam was designed to supply irrigation demands.

## 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) |
|-------------|-------------|----------------------|--------------------------------|-----------------------|---------|----------|-----------------|-----------------|
| Modderpoort | Rietfontein | D55A                 | 12.30                          | 2.16                  | Unknown | Unknown  | 15              | 710             |

\* Live full supply capacity (ORASECOM Datasets)



Modderpoort Dam (source: [www.theweatherinsouthafrica.com](http://www.theweatherinsouthafrica.com))



## MODDERPOORT 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   |  |   |
| 1953               | Unknown  | Unknown    | Unknown | Unknown                                | Free overflow                                 |

## AREA-CAPACITY RELATIONSHIP

| Elevation (m) | Storage (million m <sup>3</sup> ) | Surface area (km <sup>2</sup> ) |
|---------------|-----------------------------------|---------------------------------|
| 1 705         | 14.76                             | 2.41                            |
| 1 700         | 12.30                             | 2.16                            |
| 1 696         | 9.84                              | 1.889                           |
| 1 690         | 7.38                              | 1.59                            |
| 1 680         | 4.92                              | 1.25                            |
| 1 675         | 2.46                              | 0.82                            |
| 1 671         | 0.00                              | 0.00                            |

## OPERATING RULE

The Modderpoort, Loxton, Vanwyksvlei and Rooiberg Dams are operated as a sub-system, known as the Hartbees River sub-system. The operating rule for this sub-system allows the dams to supply the demands imposed upon them until the dams reach their respective minimum operating levels.

