

LA NICOLIERE RESERVOIR				
FEEDERS			SCHEMATIC DIAGRAM	
NATURAL STREAMS :		Riv. Du Rempart (North) 11 Springs		
FEEDER CANALS/ RIVER DIVERSIONS	LENGTH (Km)	RIVER	DESIGN CAPACITY (m <sup>3</sup> /s)	
L.N.F.C	27	G.R.S.E And R. Rempart	4.25	
CHEVRETTES Div *	0.47	CHEVRETTES & GONTRAN	0.67	
VACOAS Div *	0.47	VACOAS	1.68	
FRANCOISE Div *	4.1	FRANCOISE	0.42	
* diverted to La Nicolière Feeder Canal				

### History Notes

La Nicolière Reservoir, constructed in the year 1929 across River du Rempart, near Grande Rosalie, is one of the main sources of water supply to the northern districts of Mauritius and part of Port Louis. Its water is used for domestic, industrial and irrigation.

The reservoir has a storage capacity of 5.26 Mm<sup>3</sup>. The annual average regulated yield from the reservoir of the order of 30 Mm<sup>3</sup> has increased by about 41 Mm<sup>3</sup> after the construction of Midlands Dam in December 2002. It is fed by the La Nicolière Feeder Canal (LNFC), River du Rempart and eleven small streams.

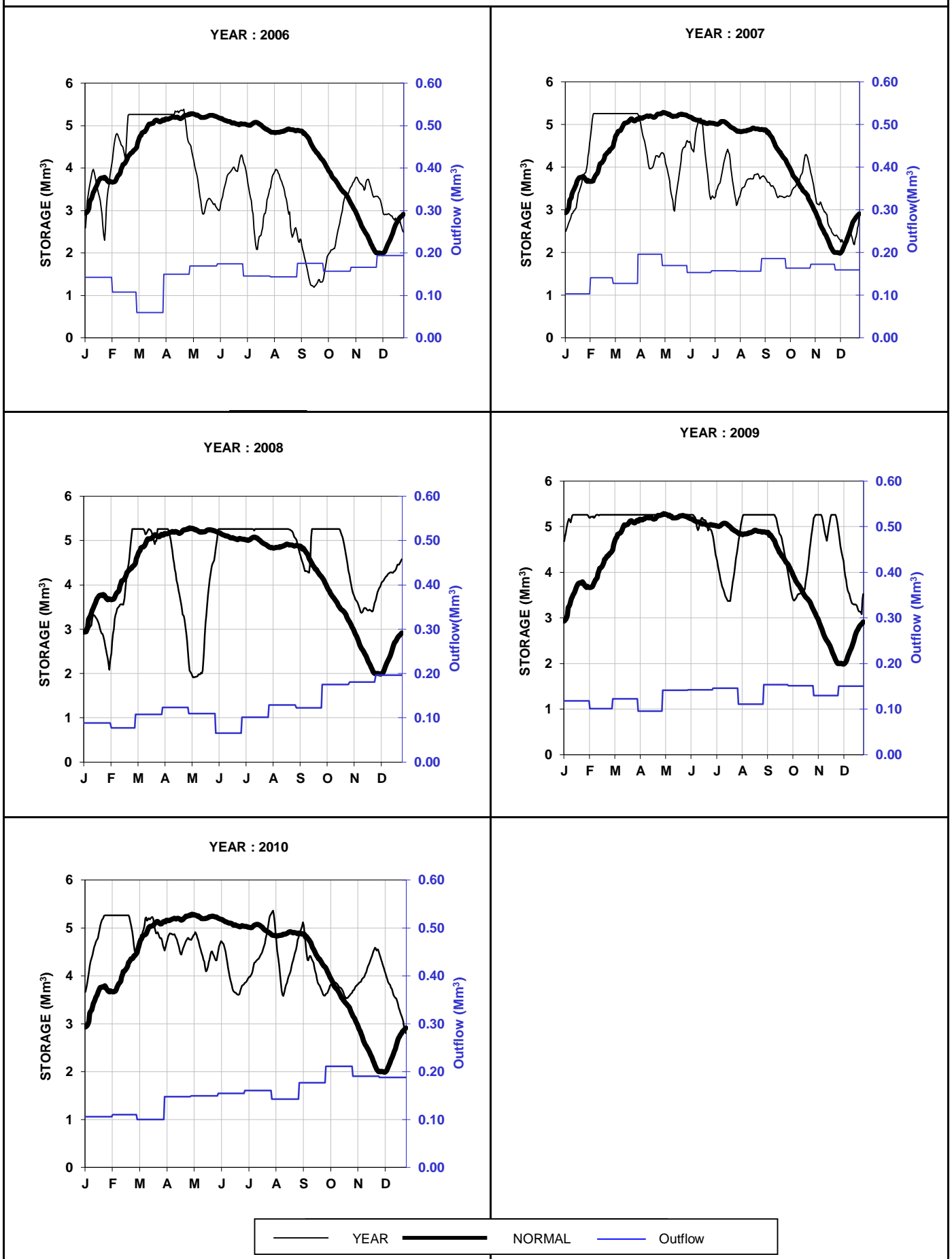
In December 2002, the Midlands Dam was constructed to serve as a buffer reservoir to La Nicolière Reservoir.

### Salient features of La Nicolière Reservoir

<i>Location</i>	:	On River du Rempart (North), in the district of Pamplemousses about 5 kms North East of Port Louis.
<i>Year of Construction</i>	:	1929
<i>Catchment Area</i>	:	7.75 km <sup>2</sup>
<i>Reservoir Capacity</i>	:	5.26 Mm <sup>3</sup> after hydrographic survey of 1996
<i>Maximum water spread area</i>	:	1.08 km <sup>2</sup>
<i>Full Reservoir Level</i>	:	249.02 m (amsl)
<i>Type of Dam</i>	:	Homogenous Earthen Embankment
<i>Maximum height of dam</i>	:	13.5 m above ground level
<i>Length of Dam</i>	:	819.08 m
<i>Type of spillway</i>	:	Ungated ogee shaped concrete spillway
<i>Width of Spillway</i>	:	36.58 m (2 bays of 18.29 m each)
<i>Purpose</i>	:	Potable, industrial and irrigation water supply
<i>Feeders</i>	:	(i) La Nicolière Feeder Canal from GRSE, designed capacity of 4.25 m <sup>3</sup> /s and of length 27 km (ii) River du Rempart (iii) Streams in local catchment
<i>Regulated Annual Yield</i>	:	30 Mm <sup>3</sup> prior to Midlands dam and 71 Mm <sup>3</sup> after Midlands Dam.

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## DAILY STORAGE VARIATION



**Fig. 5.3 Daily and Normal Storage Variation for La Nicoliere**