

CASE STUDY: The History of Water Supply on the Central Coast

20. Mangrove Creek Dam storage records

ACTIVITY: Storage levels in Mangrove Creek Dam

Examine this graph which shows the levels of water storage in the dam since 1982 as a percentage of total dam capacity. Then answer the questions below.

Mangrove Dam storage in relation to rainfall received since 1982

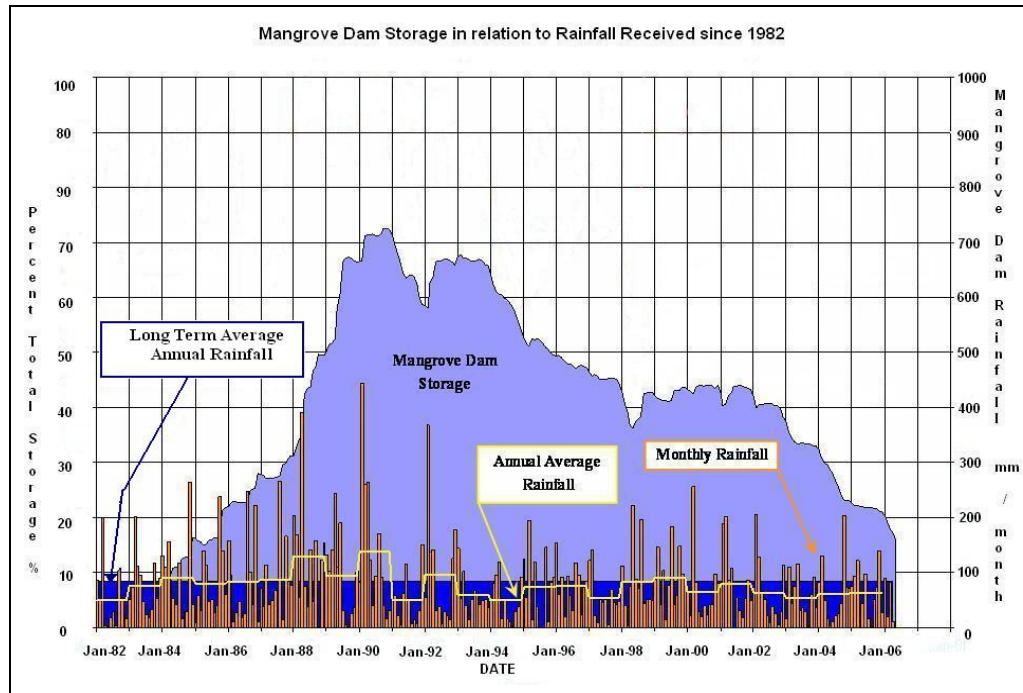


Figure 8: Mangrove Dam Storage in relation to rainfall received since 1982 (Wyong Council)

QUESTIONS:

1. Describe the trend in the amount of rainfall received during the period 1982 to 1992. What impact did this have on the amount of water stored in the dam?
2. The total storage capacity of the dam (i.e. if 100 % full) is 190,000 Megalitres. How many megalitres of water were stored in the dam in January 1990?
1. Describe the trend in the amount of rainfall received during the period 1994 to 2004. What impact did this have on the amount of water stored in the dam?
4. How many megalitres of water were stored in the dam in January 2006? If the daily demand for water on the Central Coast was 95 Megalitres per day, how many days storage were in the dam in January 2006 assuming no topping up.