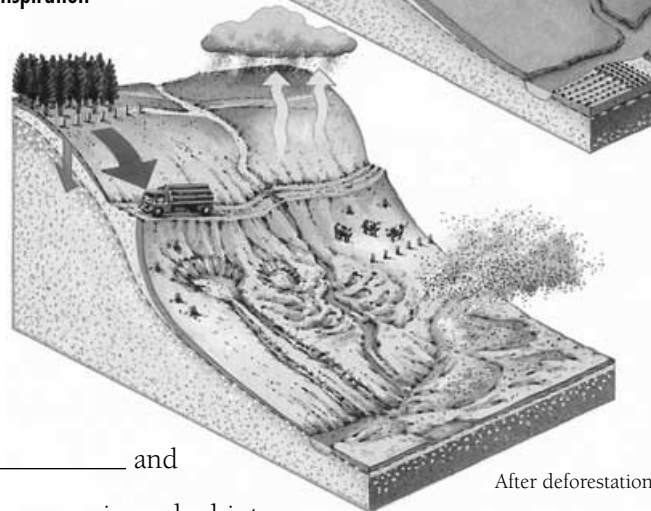
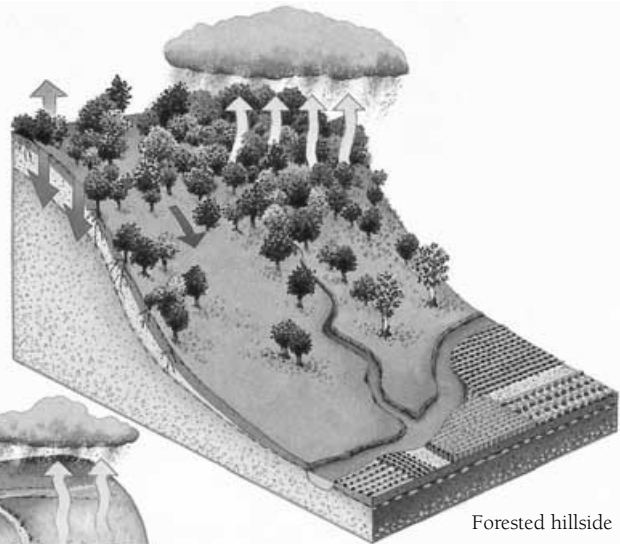


**DATELINE:** 1 Jan 2000 — Since European settlement 40% of Australia's forests have been cleared, and a further 40% have been affected by logging. Only 25% of the original 69 million hectares remain relatively unaffected.

1. Use page 43 of the *Jacaranda Atlas* to complete the two 'before and after' diagrams at right showing the impact of deforestation.

(a) On the forested hillside diagram, mark in the following:  
**evapotranspiration, trees protect soil from heavy rain, cultivated land, water table, tree roots hold soil and maintain stable water table, low runoff, steady river flow**

(b) On the after deforestation diagram, mark in the following:  
**plantation crops, roads destabilise hillsides, water table rises, erosion, gullies, increased runoff, evapotranspiration decreases, grazing, landslippage, dust storm removes topsoil, rapid runoff causes flooding and erosion; cultivated land flooded and silted up, silt blocks river**



2. Read the information on pages 43 to 45 to answer the following:

(a) Rainfall on forested hillsides is absorbed by the \_\_\_\_\_ or held in the \_\_\_\_\_.

(b) On deforested hills, the runoff is \_\_\_\_\_ and \_\_\_\_\_ form. Unprotected \_\_\_\_\_ is washed into the rivers.

(c) Give three reasons for clearing forests. \_\_\_\_\_

(d) Look at the map on page 44 to describe where Australia's deforestation has been worst.

(e) After deforestation, \_\_\_\_\_ can blow away topsoil, \_\_\_\_\_ can wash topsoil into gullies and \_\_\_\_\_ can occur where large amounts of topsoil slip downhill.

3. Study page 210–211 of the *Jacaranda Atlas* to answer the following:

(a) In Brazil, how much rainforest is cleared annually? \_\_\_\_\_

(b) Name 2 activities farmers practise in Brazil after clearing the land. \_\_\_\_\_

(c) Why do you think rainforest destruction shown in the satellite image appears as a set of lines? \_\_\_\_\_

(d) What natural feature has slowed clearance in the top left of the image? \_\_\_\_\_