InFoinmation sume FORESTS

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F. E. BATINI

Jarrah dieback, a disease caused by the fungus Phythopthora cinnamomi, is a grave threat to the forest and woodland communities in the south-west of Western Australia.

Already some 9 per cent of state forests and timber reserves ( 172000 ha ) has been affected by this disease, which is also known to occur on other Crown land, national parks and private property. The estimated total area affected by dieback at 30 June 1974 was 282000 hectares.

In Western Australia, the fungus may kill a wide variety of native plants. It is also widespread throughout the world, and has caused serious problems in forests, plantations, orchards, domestic gardens and nurseries.


The illustrations shown on this information sheet are examples of the sign-posting used in association with forest quarantine.

If allowed to proceed unchecked, most forest values will be adversely affected. The loss of jarrah trees will reduce the volume of timber suitable for milling, and will threaten the long-term existence of sawmills. Extensive areas of dying forest could increase the salinity of the streams which feed the water supply reservoirs. Forest eco-systems are in peril, and some species (such as Banksia littoralis) are in danger of extinction. Birds and animals will suffer through the loss of vegetation. The recreational and aesthetic appeal of forests will diminish.

One of the major means by which the fungus is spread through the forest area results from the activities of man. New infections are often caused by the movement of diseased soil on vehicles and heavy machinery. Diseased areas are diagnosed primarily from the visible symptoms

in the susceptible vegetation (e.g. Banksia grandis), and the Forests Department's hygiene programme has been based on these visible symptoms. This technique has limitations because of the time lag between infection and the expression of visible symptoms. Because of this, it has become apparent that infected soil can still be spread unwittingly from areas that appear to be disease free.

To overcome this problem, it has become necessary to quarantine apparently healthy areas from sources of infection, so as to allow sufficient time for visible symptoms to develop. It should then be possible to map the diseased areas and their perimeter accurately, and subsequently to limit the artificial spread of diseased soil by appropriate hygiene measures. The quarantine will involve restriction of vehicles moving between diseased and healthy areas. Washing down facilities will be provided to clean vehicles carrying mud and soil from infected areas. A quarantine period of three years has been nominated as a safe interval on which to base future planning.


Following Cabinet approval, detailed quarantine proposals were prepared, and the Forest Act Amendment Act (No. 77 of 1974) was passed and proclaimed. A large portion of state forest has been quarantined. Within the quarantined area, unrestricted vehicular access is limited to the main public highways and entry to private property. Very limited vehicle access, under permit and along specified routes, will be available for essential services. Access on foot will not be restricted. All forest operations (sawmilling, pole and pile, firewood, etc.) have been relocated outside the quarantine areas for the period of three years.


These proposals have been considered and accepted by the timber industry, established mining companies, other government departments and instrumentalities and the Department of Environment and Conservation.
The impact of quarantine on the recreating public should not be too severe. The areas of forest which will not be quarantined will remain accessible to the public. Vehicular access along the main highways will be available and access on foot is permitted within the quarantined zone. Access to the established picnic areas (such as Mt. Dale, Lesley, Sullivan Rock, etc.) will be maintained. However, vehicular access (motor car, trail-bike, horse, etc.) into the quarantine area is prohibited. The area will be signposted and patrolled to ensure an understanding and compliance with the regulations, which carry severe penalties for deliberate breaches.

## AUTHORISED WASH DOW STATIDN

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## FURTHER READING

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