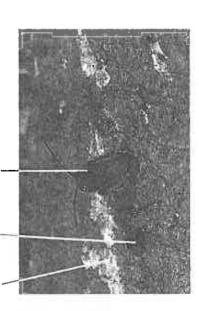
Sirex Woodwasp in South Australia

A Sirex woodwasp emerging from a pine tree.

Exit hole made by another Sirex woodwasp.

Resin dribbles.



SIREX INTRODUCING

causing serious damage to softwood forests. Sirex woodwasp attacks and kills pine trees and is capable of

South Australia's forest-based industries. Victoria in 1987. Such numbers can pose a serious threat to South-East of South Australia and in south western Large numbers of Sirex were detected in pine forests in the

South Australia. plantations, woodlots and windbreaks in other areas of South-East and prevented from spreading into pine generate it is important for Sirex to be controlled in the To protect these industries and the employment they

generally, pine trees are the only trees liable to attack. Note: Sirex woodwasp is not harmful to human beings and

SIREX DENTIFYING



Female Sirex woodwasp

blue in colour with a pointed The adult female Sirex is steelsheath that covers her egg body. This projection is the projection at the rear of her



Male Sirex woodwasp

The adult male Sirex is steelcan range from 10mm to orange band on his abdomen. blue in colour with a wide The body length of adult wasps



Sirex woodwasp larvae

The Sirex larva (grub) is a a maximum length of 40mm. Mature larvae vary in size with dark point at the rear end creamy white colour with a

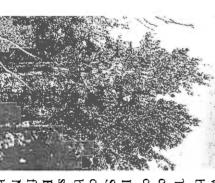
SIREX LIFE CYCLE

outer layers of the sapwood. This tunnelling can continue for a period of up to a year, sometimes two years. the tree, first towards the heartwood and then back to the larva hatches and immediately begins tunnelling through their eggs. After a two week incubation period the Sirex During summer female Sirex drill into the living tree to lay

millimetres in diameter adult wasp. The adult wasp bores its way out of the tree the size of the insect, usually between three and seven leaving behind a round exit hole. The size of the hole reflects In the sapwood the larva changes into a pupa and then ar

It is during the flight season that Sirex mate and lay their January to May with a peak period in February and March. Adult wasps emerge and go into flight anytime from

SIGNS TO LOOK FOR



needles of a Sirex attacked

A number of tell tale signs show when a tree has been attacked

can be yellow or red or brown colour of the pine needles. They have resin dribbles.) seen just below the crown beads of resin can usually be drought or poor soils) small Sirex (it could also be related to Not all Sirex attacked trees flowing down the trunk. (Note If this change in colour is due to Resin dribbles may also be The first sign of a sick tree is the

YOURSELF INVESTIGATE FOR

necessary to cut down the dead or dying tree To seriously check for the presence of Sirex in pine trees it is Once the tree is on the ground:

remove a piece of bark brown streaks caused by a wood will have yellow, by Sirex the surface of the stem, below the crown. I: fungus which Sirex deposit the tree has been attacked from the middle of the



Streaked vellow/brown surface



(numbers are in cm.)

shown in photo at right.



check the stem for Sirex exit holes. If the wood current year's exit holes. If holes are from previous cobwebs are inside, the the wood is greyish or if yellow in colour they are inside exit holes is creamy-

Sirex exit holes

AELP STOP THE SPREAD

The more people who recognise Sirex woodwasps and pine trees under Sirex attack, the less chance this forest enemy has of developing into a serious threat to the softwood industry.

Because Sirex can complete its life cycle in sawn timber quarantine regulations are in force which prohibit the transport of pine timber from a Sirex infested area to a Sirex free area.

The quarantine regulations require pine timber to be kiln dried or fumigated with methyl bromide or treated with a recognised preservative under pressure, and checked by a Forestry Quarantine Inspector, before the pine timber can be transported out of the South-East, or from interstate, into other areas of South Australia.

If you suspect pines have been attacked by Sirex or need to transport pine timber contact:

SA Woods and Forests Department

135 Waymouth Street

Adelaide SA 5000

or your local Woods and Forests office.

SA Woods and Head Office:

EPRESTRY I

Regional Office: Jubilee Highway East,

Nince: Jubilee Highway East, Mount Gambier SA 5290 Telephone: (087) メロコル スゖュ888

Fax (087) 242870

