



Cotton Catchment Communities CRC
Queensland Government
 Department of Primary Industries and Fisheries

COTTON TALES

Central Queensland

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2007/08

No.3

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Tobacco Streak Virus

Tobacco Streak Virus was identified in 2006 as the cause of the Sunflower disorder in the Central Highlands. It has now also been found in mung beans and chickpeas. TSV is transmitted by infected pollen, which can be spread by wind or carried by insects. Thrips are the only known insect vector and are required for TSV infection to occur. Transmission of TSV to plants relies on virus from infected pollen entering plant cells through the feeding injury caused by thrips

In recent glass house inoculations of cotton, Murray Sharman, QDPI&F pathologist, has seen symptoms similar to a mosaic disease in cotton from Pakistan. There was mostly a chlorotic mottle on the inoculated leaves (some necrotic patches) and some systemic spread but the plants appear to be mostly growing out of the symptoms now. Symptoms in Pakistan were more severe.

Good farm hygiene is important as a number of weeds have been identified as hosts to the virus. Parthenium in particular is an important host in the Central Highlands and produces a lot of pollen, which can then be transmitted by thrips.

(Thank you to Murray for his assistance with this article and the photos.)



Cotton plants inoculated with TSV

Mungbean Grower Updates

- MOURA GOLF CLUB
Tuesday September 4th at 2.00 am
- EMERALD MEMORIAL CLUB
Friday 7th September at 8.30 am

Agenda:

- TSV – Research findings and Management Strategies
- Variety choices for 2007/08
- Disease Management and Varietal Disease resistance.
- Insect Management
- Irrigated Mungbean Production
- Grower Declaration & Code of Practice
- Market prospects.

Representatives and speakers from QDPI&F, the Australian Mungbean Association and Pulse Australia will be present. For further information contact;

Anne Shepherd, DPI&F 0407730476 or Gordon Cumming, Pulse Australia 0408923474

Murray Sharman, DPI&F Pathologist, will be in Central Highlands 5-7th September and is interested in looking at areas which may have cotton 07/08, especially locations where TSV has previously been a problem in other crops (sunflowers, mung beans, chickpeas) and/or where there is parthenium. Please contact Susan Maas.

