

***** "COTTON ON" *****

Welcome to the third Cotton Conference organised by the Australian Cotton Grower's Research Association. Earlier conferences were held at Goondiwindi in 1982 and Toowoomba in 1984.

This conference will be far more than just a research conference. This changed format is the result of grower and researcher response to questionnaires following the Toowoomba conference. A significant part of the agenda will be devoted to discussions on market outlook and other matters of relevance to the industry.

A highlight of the conference will be the presentation of the Researcher of the Year Awards. Past recipients of these awards were Norm Thomson, Peter Twine, Brian Hearn and Greg Constable. These awards demonstrate the great value growers put on research and are a way of saying thanks to all researchers.

The organising Committee is grateful to all those who have contributed papers. In particular, we would like to thank Norm Thomson, Brian Hearn, Greg Constable and Bruce Pyke for their help in preparing the programme.

Finally, may we ask for your assistance in completing a participants' questionnaire at this conference. This will help us organise an even better conference in 1988. In the meantime....

.... "Cotton On"

AUSTRALIAN COTTON GROWERS RESEARCH ASSOCIATION

Organising Committee for Conference.

| | |
|------------------|---------------------|
| Richard Williams | (Chairman) |
| Ralph Schulze | (Vice - Chairman) |
| David Swallow | (Secretary) |
| David Anthony | |

Other Members.

| | |
|----------------|---------------------|
| Rob Armstrong | (Executive Member) |
| Alan Austin | |
| Dick Browne | |
| Peter Glennie | |
| James Mulligan | |
| Rob Pengilley | |
| Terry Phelps | |
| David Revell | |
| Ian Thomas | |

Secretariat:-

David Swallow
P.O.Box 117,
Wee Waa
N S W 2388
Telephone (067) 954208

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Programme for -

AUSTRALIAN COTTON CONFERENCE - RAMADA HOTEL - SURFERS PARADISE

AUGUST 20th and 21st 1986

Sponsored by the Australian Cotton Growers Research Association

Theme "COTTON ON"

TUESDAY 19th August, 1986

7.30pm Registrations
Welcome Cocktails

WEDNESDAY 20th August, 1986

8.00am Late registrations
8.20am Welcome - Richard Williams Chairman ACGRA

WATER - IRRIGATION - NUTRITION Chairman Ron Swansbra
(Vice-Chairman Namoi Cotton Co-op Ltd)

8.30 - 8.45am Brian Hearn (CSIRO - Narrabri)
*An Overview of the economics and efficiency of water
and nitrogen inputs into cotton.

8.45 - 9.00am Greg Constable (NSW Dept of Agriculture - Narrabri)
*Fertilizer inputs - rationalising costs.

9.00 - 9.15am Greg Constable (NSW Dept of Agriculture - Narrabri)
*Can you afford waterlogging on your farm?

9.15 - 9.25am Rob Armstrong (ACGRA Executive member
Cecil Plains QLD.)
*Getting nitrogen and water together on the farm
- a grower's view

9.25 - 9.35am Hugh Holland (Telleraga Station, Moree)
*Moisture probes - a grower's view

9.35 - 9.50 QUESTION TIME

9.50 - 10.30 MORNING TEA

SOILS - TILLAGE - EQUIPMENT Chairman Walt Bickett
(Managing Director - Auscott Ltd.)

10.30 - 10.45 David McKenzie (NSW Dept of Agriculture - Trangie)
*Reduced seed bed costs! The role of minimum tillage.

10.45 - 11.00 Dick Houghton (Iffley Cotton P/L - Rowena)
*Minimum tillage - a grower's experience.

11.00 - 11.15 Ian Daniells (NSW Dept of Agriculture - Narrabri)
*Land preparation - deciding how best to keep costs
down.

11.15 - 11.30 John Pickering (Biloela, QLD)
*Land preparation - a grower's view

11.30 - 11.45 QUESTION TIME

CONSULTANTS VIEWS Co-Ordinators Bruce Pyke (The Cotton Marketing Board) and Neil Forrester (NSW Dept of Agriculture - Narrabri).

11.45 - 12.35 Hans Woldring (Macquarie Valley) *"The Research Gap"
 Geoff Brown (Namoi Valley)
 Maurie Fay (Gwydir/MacIntyre Valley)
 John Adrians (Darling Downs)
 Mike Stone (Central Queensland)

12.35 - 1.00 QUESTION TIME

1.00 - 2.15 LUNCH

PEST MANAGEMENT Chairman Alan Brimblecombe
 (Chairman The Cotton Marketing Board)

2.15 - 2.30 Neil Forrester (NSW Dept of Agriculture)
 *Chemical use and resistance - the threat and the costs.

2.30 - 2.45 Peter Twine (DPI Queensland)
 *Overview of the alternate means of controlling insects.

2.45 - 3.00 John Watson (Boggabri NSW)
 *Reducing costs in pest management - a grower's view.

3.00 - 3.15 Gary Fitt (CSIRO Narrabri)
 *Why is heliothis a problem?

3.15 - 3.30 Ken Brook (CSIRO Narrabri)
 *Trials with dynamic thresholds

3.30 - 3.45 QUESTION TIME

3.45 - 4.15 AFTERNOON TEA

WORKSHOP SESSIONS - Co-Ordinators: Rob Pengilley
 (Clyde Agriculture Bourke)
 David Swallow (ACGRA)

4.15 - 5.45 WORKSHOP SUBJECT & CONVENOR

A Entomology, Siratac
 Angus Wilson (CSIRO Narrabri)
 -Rapporteur David Larsen (Siratac Ltd)

B Soils, equipment
 Jim Beale (Auscott Ltd)
 -Rapporteur Dave Anthony (Auscott Ltd)

C Water, weeds, nutrition,
 physiology.
 Rod Browne (NSW Dept of Agriculture-Gunnedah)
 -Rapporteur Peter Graham
 (Namoi Cotton Co-operative Ltd)

WEDNESDAY EVENING FREE

THURSDAY 21st August, 1986

8.15 - 8.45 CO-ORDINATOR Rob Pengilley (Clyde Agriculture Bourke)
Rapporteurs on Workshops

DISEASES Chairman David Swallow (Secretary ACGRA)

8.45 - 9.00 Melda Moffett (DPI Queensland)
*Bacterial blight - our past experience

9.00 - 9.15 Stephen Allen (NSW Dept of Agriculture - Narrabri)
*The fight against blight

9.15 - 9.30 QUESTION TIME

BEATING COSTS Chairman David Dowling (The Editor Australian Cotton
Grower Magazine)

9.35 - 10.15 David Anthony, Narrabri *How I will reduce
Alan Austin, Theodore costs by \$100/acre
Gordon Baillie, Emerald
Sam Coulton, Goondiwindi
Dick Estens, Moree
Bill Findley, Wee Waa
John Quigley, Warren
Ian Thomas, St. George

10.15-10.45 QUESTION TIME

10.45-11.00 MORNING TEA

BREEDING Chairman Charles Willcocks (Chairman Raw Cotton Marketing
Advisory Committee)

11.15-11.30 Norm Thomson (CSIRO Narrabri)
*Siokra - it's economic possibilities

11.30-11.45 David Lockett (CSIRO Narrabri)
*The future for better cottons

11.45-12.00 Peter Lawrence (DPI Queensland)
*What variety for each area?

12.00-12.15 QUESTION TIME

12.15- 1.45 LUNCH

FIBRE QUALITY Chairman David Smith (Chairman Cotton Research
Council)

1.45 - 2.00 Gary Robinson (CSIRO Geelong)
*Are our spinning and fibre tests relevant to our
marketing needs?

2.00 - 2.15 Bob Galmes (Bonds Spinning Mills Sydney)
*What does the spinning industry require of our
cotton - at home and overseas?

2.15 - 2.30 QUESTION TIME

MARKET OUTLOOK Chairman John Glenn (Assistant Secretary,
Agricultural Trade Group, Department of Trade
Canberra)

2.30 - 2.45 Tony Beck (Bureau of Agricultural Economics,
Canberra)
*The World Cotton Outlook with particular reference
to the history and effect of US farm bills and the
future price trends.

2.45 - 3.00 Dennis Hughes (Auscott Ltd)
*World and Australian Cotton Production

3.00 - 3.15 Peter Harris (The Cotton Marketing Board)
*World and Australian Cotton Consumption

3.15 - 3.30 John Howes (Namoi Cotton Co-op Ltd)
*World and Australian Cotton Production vs
Consumption

3.30 - 4.00 AFTERNOON TEA

4.00 - 4.15 Comments from traders, processors

4.15 - 4.45 QUESTION TIME

INDUSTRY AFFAIRS Richard Williams (Chairman ACGRA)

4.45 - 5.00 Ralph Schulze (Vice-Chairman ACGRA)
*Industry Organisations

5.00 - 5.30 Richard Williams
*Urgent Industry business.
*Update from Price Support Task Force.
Closing remarks.

7.30pm for 8.00pm CONFERENCE DINNER AT RAMADA HOTEL

Guest Speaker - Peter Lazar
The Australian Cotton Foundation -
"The Industry's Image"

PRESENTATION OF THE RESEARCHER OF THE YEAR AWARDS
FOR 1985 AND 1986

AUSTRALIAN COTTON CONFERENCE BOOKLET, 1986

CONTENTS:

WATER - IRRIGATION - NUTRITIONPAGES

| | | |
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| 1 - 14 | A.B.Hearn | The effect of a limited supply of irrigation water on 3 varieties of cotton. |
| 15-22 | G.A.Constable | Fertilizer inputs - Rationalising Costs. |
| 23-29 | G.A.Constable & A.S.Hodgson | An Evaluation of Drip Irrigation for Cotton. |
| 31-35 | G.A.Constable, I.J.Rochester & J.B.Cook | A Survey of Soil & Plant levels of trace elements in NSW cotton areas. |
| 37-43 | A.S.Hodgson | Can you afford waterlogging on your farm? |
| 45-57 | H.Holland | Moisture probes - a grower's view. |
| 59-64 | G.D.Keefer | Irrigation Management of Cotton at Emerald. |

SOILS - TILLAGE - EQUIPMENT

| | | |
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| 65-72 | D.McKenzie & P.Hulme. | Reduced seed bed costs ; the role of minimum tillage. |
| 73-85 | R.C.Houghton | Minimum tillage - a grower's experience. |
| 87-92 | I.Daniells | Land preparation : deciding how best to keep costs down. |
| 93-96 | J.Pickering | Land preparation - a grower's view. |

CONSULTANTS' VIEWS

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|--------|---------|---|
| 97-100 | G.Brown | Research needs as identified by Namoi Valley Consultants. |
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| 101-112 | M.F.Fay | Research Gaps in the McIntyre & Gwydir Valleys. |
| 113-117 | J.Adrians | The Research Gap - Darling Downs & St.George |
| 119-123 | M.Stone | The Research Gap -- Central Queensland. |

PEST MANAGEMENT

- | | | |
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| 125-132 | N.W.Forrester | Chemical use and resistance - the threat and the costs. |
| 133-140 | P.H.Twine | An overview of the alternate means of controlling insects. |
| 141-148 | R.E.Teakle | <u>Heliothis</u> Nuclear polyhedrosis virus for Bollworm control. |
| 149-154 | B.C.Scholz | The potential of two species of parasites for controlling <u>Heliothis</u> . |
| 155-159 | M.J.Rice | Sensory manipulation: an opening door to future economic management of <u>Heliothis</u> . |
| 161-173 | B.A.Pyke, M.J.Rice B.N.E.Sabine M.P.Zalucki | A preliminary report on the push-pull strategy against <u>Heliothis spp.</u> in cotton in Queensland. |
| 175-181 | P.W.Walker V.E.Harris | Monitoring pink spotted Bollworm, <u>Pectinophora</u> <u>scutigera</u> , populations with sex attractants. |
| 183-188 | A.Chinajariyawong V.E.Harris | Clarification of pest status of the Rutherglen bug and the grey cluster bug on cotton. |

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| 189-194 | W.J.Watson | Reducing costs in pest management - a grower's view. |
| 195-205 | G.P.Fitt | Why is <u>heliiothis</u> a problem? |
| 207-213 | G.P.Fitt | The use of elemental analysis as a tool in the study of intercrop movement by adult <u>heliiothis</u> . |
| 215-222 | G.P.Fitt | The influence of the okra leaf character of cotton on the numbers and within plant distribution of <u>heliiothis</u> eggs. |
| 223-238 | K.D.Brook, B.G.Stafford & A.B.Hearn | Early season damage - holes in your bolls or your bank balance? |
| 239-245 | A.G.L.Wilson & L.Bauer | Light and Pheromone traps: their place in monitoring <u>heliiothis</u> abundance |
| 247-254 | L.Wilson & A.Wilson | Investigations of the ecology and control of spider mites in cotton. |
| 255-271 | S.Wangboonkong | Field trial on chemical control for the cotton bollworm <u>heliiothis armigera</u> Hubner in Thailand. |

DISEASES

- | | | |
|---------|-----------|---|
| 273-278 | M.Moffett | Bacterial blight - our past experience. |
| 279-288 | S.J.Allen | The fight against blight. |

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BEATING COSTS

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| 289-297 | R.Estens & P.T.Graham | Minimum tillage to improve operational efficiency. |
| 299- | W.B.Findley | How I will reduce costs by \$100 per acre. |

BREEDING

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| 301-311 | N.J.Thomson | Siokra - its economic possibilities. |
| 313-322 | D.J.Luckett | The future for better cottons. |
| 323-333 | P.K.Lawrence | Choosing a cultivator. |
| 335-337 | P.E.Reid | Breeding for early maturity. |
| 339-346 | P.E.Reid & P.K.Lawrence | Dryland cultivator evaluation. |

FIBRE QUALITY

- | | | |
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| 347-350 | G.A.Robinson | Are our spinning and fibre tests relevant to our marketing needs? |
| 351-353 | R.Galmes | What does the spinning industry require of our cotton - at home and overseas? |
| 355-358 | A.Beck | The World Cotton Outlook with particular reference to the history and effect of US farm bills and the future price trends. |
| 359-364 | D.Hughes | Australian Cotton Production. |
| 365-371 | J.E.H.Howes | World and Australian Cotton Production vs Consumption. |