Project ID-CRDC1215 "Scoping consultants' needs in adopting best practices in southern NSW"

During my two visits to the emerging cotton areas in southern N.S.W. early January and early March, 2012, I was able to meet with all but three of the key people supplying agronomic advice to the cotton area. Two of the three, Allen Jones (Agronomic Business Solutions) and Joran Millyard (MIA Rural), I was able to have long phone conversations with. Danielle McKay (farm agronomist with Peter Touhey farm) I was unable to contact.

I had meetings with Heath McWhirter, Junice McCosker and John Ronan (all from Elders), Peter Hill (Yenda Prods), Brett Hay and Mark Zanatta (Rawlinson & Brown), Adrian Hayes and David White (MIA Rural), Jemima Maslem (Twynam, Gundaline) and Tom Webb (Agronomic Business Solutions). I was able to catch up with Patrick McInnes from Hillston, a private consultant whose major client is Harris Farms.

These meetings all revolved around IPM earliness, PIX management and late insects. In the case of Yenda Prods, we had a formal office meeting in the morning followed by farm inspections in the afternoon. In most cases we met with the grower and most of his neighbours.

Elders held a shed meeting last Monday - 25 growers turned up. Points of discussion were IPM, boll development and late insects.

I was also fortunate on both occasions to have time with Kieran O'Keeffe (District Agronomist, Coleambally). Kieran is doing the Cotton Production course at UNE and sees cotton as an alternate crop to rice.

"Skill needs of consultants/agronomists for delivering best practice crop scouting and agronomic recommendations in southern NSW."

- All commercial resellers have a lead consultant with some cotton experience. For example - CGS, Twynam, Macgregor Gourley, David Clark and Pablo Vega.
- There is a good understanding of growing cotton in short season areas.
- 3. An understanding of IPM principles which flowed through from insect management in soybean crops is adequate.
- 4. After the January trip a much better understanding of using half rates plus oils and in some cases using oils with other sprays for example PIX. Very little salt is being used.
- 5. There is some overspraying taking place. When a plane is flying PIX, a mirrid spray is added. The reason for this adding of the insecticide is that it is cheap and it is, therefore, not necessary to come back in a few days time to respray for insects. I do believe this could be happening in other areas within the industry. I do not believe that this practice is being sales driven.

Because rice and cotton are being grown together and PIX affects rice production, it means that spraying can only be carried out with the right wind direction; and, therefore, spraying can be delayed by up to 10 days. It does seem that this practice is site specific.

6. Crop Scouting - There does not seem to be major areas where insects have caused major damage, so it could be assumed that the scouting techniques and skills are adequate - bearing in mind that this was a very light insect year. Between my two visits, I have had agronomists ring me, and we have discussed checking procedures for Helicoverpa, and the decision after three checks was not to spray, which to me shows an understanding by the consultant of what is required.

Beat sheeting is being used as well as visual. Fruit loads show good insect control and large areas have not required spraying.

There may be a need for more work on newer consultants coming into the industry, as this will be required as the area increases. But the key people in the reseller operations will have had experience with running teams of bug checkers and individuals.

agronomic Knowledge risks needs in consultants/agronomists cotton production in sou sts for managing southern NSW." for

- good. They real to earliness. E fear of delaying understanding really Early spraying crop maturity due are 0f trying short for with all thrip ţ son agronomy i all decisions tipping out. rs L because ST relat very of ing
- 2 Nitrogen and will be discussed use could be high. This vlater in the will report. delay maturity,
- ω useful, during l very Because good. March. od. However, the last war this area has had water, last watering the soil types the water and day temperatures trials could be management E.
- 4 This Use be shortening the season. Maybe could learn something from these is probably coming Jones' experience is having a notable nortening the season dut-out coming from experience of rience with cotton growing ing a notable effect on even rates Of f PIX are very well understood. nce of James' and Alle the rest of t applications. evenness in the Macquarie. 0f and could even the industry This
- G Possibly delay from fruit loss. Aya... a short season area. With more experience come a short season area. With mirrid management, is connected to this is understa ected to a fear understandable consultants and in to We
- σ knock this like tipping thrips this ٦. sprayed downs thrip spraying should only out. because of year. ear. It w with OPs spraying could also this With better year, would not which is SP. be preferable understanding be necessary Not delayed maturity with эd Ø all farms good questioned, 6 and experience, sign. in cold starts see one and but all off l fields again
- ~1 of wa Nitrogen these ops seemed waterings nitrogen rates. useage emed to and 9d seems seems high. However the yields being However, in the it well. Perhaps being obtained co could the March trip e be number reducing

which to be There done could will on nitrogen probably indicate рe excessive rates. some regrowth on nitrogen. the More later will

sed by consultants/cotton production used by currently being us information about agronomists to access in southern NSW." networks and "Channels and agronomists

- of effort is shown in the understanding and work James' on Wednesday is being used. Jame been excellent. This is shown in and PIX useage and season length. IPM has
- cal joined CCA. Some agronomists regarding thrips and GVB. agronomists have wilson directly Lewis Some N
- "Pest Most publications have been sighted - for example, "Pe Management Guide", "Pests & Beneficials in Australian Cotton Landscapes", and "Australian Cotton Grower". m
- already for Whitehous outbreaks occur, Skype sessions have been set up with the help of Kieran. Disease publications from Steve Allen are now out of print, and this pocket guide would be useful for the consultants - "Symptons of Diseases and Disorders of Cotton in Australia". to Kieran sent Ian Rochester on If and when major 1.8 þe this A list of CRDC publications could be sent either tO'Keeffe or James for distribution. I assume this being done. A list of key researchers numbers to to consultants - for example, Mosan Kahn and Mary with reference to mirrids and GVBs, Ian Rochester nitrogen and Grant Herron on aphids. If and when 4.
- area being the in is job this doing a great 80 area, products. the Bob Ford (CSD) is active and Commercial reps are visiting covered for their respective S
 - ល This to season consultants tinformation. this to share inf Coleambally meetings for the thing missing is meeting.
 Thing the season GVB. get together during has happened to some t t with reference A big 9
- d a few bee and could competing resellers Evening meetings with a Skype session, a BBQ and a few be would be very useful. Kieran O'Keeffe has been and could be very useful in bringing this to pass as he is seen as being neutral territory. This is very important because leutral territory. This is very
 commercial competition between the 7.

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Concerns and Unknowns

- 1. Development south Finley, Hay and Swan Hill My understanding is that most of these growers are rice growers and have had little or no row cropping experience. It has been pointed out that because of their location, yield expectations would be lower than the Griffith area. It should also be noted that cotton could "not be grown in Breeza and Spring Ridge."
- Whether there will be enough agronomists with cotton experience to handle this southern expansion and the expansion which will occur in northern areas is questionable.
- 3. The adding of insecticides because the plane is spraying hopefully with experience this should decline.
- 4. Lack of farmer trials being carried out in the area a. Nitrogen rate trials b. Last watering trials c. PIX rate application and nitrogen rate trials These could be done independently by Ag Research, however information should be available to all growers. The Macquarie used to co-ordinate all farmer trials, print them up in booklet form, and distribute them widely.
- 5. I do not see a big increase in independent consulting. Cotton is still in early days, and the area could revert back to original crops; so it's difficult to see consultants taking the risk and going out by themselves.
- 6. GVB Due to diverse cropping for example, corn and soybean (both organic and non organic), lucerne and rice could become a major pest. A question mark over white fly still exists.
- ***** 7. James Hill's position Very well respected, very hard worker. Will need some assurance of work committments required for the coming season. If possible, this should be done as soon as possible. Maybe James could be offered more days per week. Losing James would be a huge loss to the extension services for southern growers.

Conclusion

The original decisions made in the mid '60s to grow cotton in the Griffith, Darlington Point seems to be coming to fruition. The crop in this area for this season looks too good. They are loaded up, cutting out and will be defoliated within the next 15 - 25 days; and this all in a very cool year.

If I have one fear for this region, it is that the region tries to adopt too many northern techniques. You cannot grow cotton like this "by doing the big things wrong" - which they are not. There are probably some small tweakings which may be helpful. Picking could be fun and very pleasing.

I would like to thank CRDC for the opportunity to be part of this exciting new area. I feel I have been able to have a practical input into the development of some very enthusiastic and energetic young people. With people such as these, I see only a bright future for this southern cotton region.

Between my first and second visits, I have fielded calls from agronomists on insect management decisions. The increase of half rates plus oil mixtures has been very pleasing to see. On Sunday I had a call regarding GVB. After a discussion, the consultant decided to spray with Shield and oil knowing he will probably get a knockdown and a 60% kill. His alternate spray was going to be an SP; so I feel we are getting somewhere.

It may look as though the understanding of IPM is low. I disagree. In a short season area and cold starts to the season, thrips will need to be controlled in some years. Therefore, the use of knockdowns (OPs and not SPs) is a good sign. Hopefully SPs, as used in soybeans, will not be used at the end of a cotton season. Once we get a better understanding of the ecology of GVB, we may be able to handle this pest a lot better than we are now.

Stephen Warden

Warden Agricultural Services

Steve uprolin

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