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Jan 2004



A Good Weed

The Newsletter of the Weed Society of New South Wales Inc.
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#30 January 2004

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WEEDS - GO TO WOE II

New Operating Environments for Weed Control

A one day seminar for weed control managers

Wednesday 17 March 2004, 8:30 am – 4 pm

Hurstville Entertainment Centre, McMahon Street Hurstville

Program

Topic	Speaker
OH & S issues relating to weed management	Dave Chamings (NSW Workcover)
Existing chemical review program, permits, adverse reporting & new registrations	Ron Marks (APVMA)
Legislation affecting herbicide users	David Thompson (EPA)
Weed resistance development and determination methods, with particular reference to glyphosate	John Broster (Charles Sturt University)
Case studies in implementation of legislation	
<ul style="list-style-type: none">• Mr Craig Easton (Carnavon Golf Club)• Mr Andy Cameron (Cameron's Nursery)• Mr Eris Hess (Agserv)• Mr John Webb (Urban Bushland Management Projects)• Mr David Karlson (Hawkesbury River County Council)• Mr Peter McMaugh (Qualturf)	
What are the practical impacts for weed managers?	Discussion Panel (APVMA, EPA, Workcover and industry segments)

For more details contact: Louise Brodie Ph (02) 9585 6671 louise.brodie@npws.nsw.gov.au
Mike Barrett Ph (02) 9875 3087 mikebarrhort@iprimus.com.au Website www.nswweedsoc.org.au

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REGISTRATION FORM

WEEDS - GO TO WOE II - New Operating Environments for Weed Control

Name: _____

Organisation: _____

Address: _____

Phone: _____ Fax: _____

E-mail: _____

Cost (please tick): \$80 (Members) \$100 (Non members)
(No GST)

Cheques payable to: Weed Society of New South Wales Inc. PO Box 438 Wahroonga 2076

Signed: _____

President's Report 2003

As presented by Bob Trounce at the 2003 annual general meeting.

The Weed Society has maintained steady progress during 2003 while enduring the loss of Leon Smith, our former secretary. Leon stepped down from this position in November 2002 due to illness and passed away in March 2003. He will be remembered for his dedication to the Society especially in the position of secretary for over 10 years.

The annual dinner was held last November at Katoomba and was enjoyable and we recognized the contribution of two of our members, Kelvin Green and Leon Smith by awarding Life Memberships.

The year has seen extensive planning and commitment. A hard working sub-committee in Wagga has developed plans for the 14th Australian Weeds Conference. We look forward to seeing the fruits of their labour in September 2004. Due to resignations and career changes of some prominent members in the Wagga area, the decision was made by the executive to close the Wagga Branch of the Society and allow the newly formed Organising Committee to concentrate on the conference.

The Society continued to support prizes at the three universities for studies associated with weed science. We took the initiative of setting up phone conference facilities so executive members unable to travel to meetings can attend by phone. This has been a useful facility. Our website has also undergone refurbishment and the notice board section removed due to excess graffiti appearing.

Considerable time has been spent discussing proposed changes to the CAWSS constitution, particularly on membership issues. This is still to be resolved. We have also had a sub-committee carrying out a demographic study of our own membership. This report has vital implications for the future of our Society and its ability to cope with our long term commitments.

One long-term commitment being considered is the hosting of the Asian-Pacific Weed Science Conference in Sydney in 2007. We are currently surveying member support for a decision to be made. Often such a challenge can be instrumental in finding and releasing new enthusiasm for the organization.

The Newsletter editions have fallen to 2 this year, as editors have not been easily found. Thanks to Mike Hood we have been able to see an issue to round off the year and advertise our important functions. Our AGM and Dinner this year at Tamworth will give some northern exposure to prospective members and an associated field day will be a little different to the usual.

The year has not been easy but the Executive's commitment has not waned. Considerable amount of time has been contributed, whether it was on sub-committees, updating membership data, organising functions, or editing newsletters. In particular Jim Swain and Alex McLennan have given excellent support in the positions of secretary and treasurer. It is pleasing to see that the committee is again recognising such commitment by making appropriate awards at tonight's Annual Dinner to Mike Barrett and Alex McLennan. Thank you for your support, confidence in the future and hard work.

Vale Dr. Leon Smith

As reported elsewhere in this newsletter Dr. Leon Smith passed away in March 2003 after an extended period of ill health. Leon gave a life time of work to weed science and practical weed control and was a stalwart of this Society. The following is an edited extract from an eulogy presented by Jim Swain at Leon's funeral on behalf of the Society.

The executive committee and members of the weed society of New South Wales extend to Hilary and Andrea, Nigel and your families our deepest sympathy on the death of Leon. We, like you, will miss him. Leon was a stalwart of the NSW Weed Society for many years in a variety of positions

Leon was a member of the Weed Society for over 30 years. Professionally he worked in weed science and control all of his life; in university research in the United States, commercial research in Australia, teaching at the University of Western Sydney, and until his retirement in 1992, with NSW Agriculture.

Leon was an active member of the society and during his time served as President, NSW delegate to the Council of Weed Science Societies, and from 1992 until 2002, secretary - a period of over 10 years. He set a very high standard for future secretaries to follow.

Leon was President of the International Weed Science Society during the time that it was being revitalised. Due to his efforts the International Weed Society is now continuing as an active organisation.

Over the years Leon received a number of awards, including;
The CAWSS medal in recognition of his outstanding contribution to weed management in Australia.
Life Membership of the NSW Weed Society in recognition of strong leadership and highly distinguished service to the Weed Society of NSW, and to the problem of weeds and their control in Australia.

The decision to award life membership to Leon in November 2002 was unanimous, and we are now all pleased that we were able to make this award to Leon when we did. Leon, we will miss your guidance, friendship, knowledge and untiring work. We thank you for the opportunity of having you as a friend and colleague.

Weed Society Awards

On behalf of the Society President Bob Trounce presented two dedicated members with awards at the Annual General Meeting in Tamworth.

Mr. Michael [Mike] Barrett was presented with the Medal for Excellence in Weed Management. Details of this award are presented elsewhere in this newsletter.

Mike joined the Society around 1970 and has been a member since. He was President in 1975/76, Secretary for a number of terms, on the Asian Pacific Weeds Conference organising committee for the Sydney 1979 Conference, Secretary for the CAWSS conference also held in Sydney at the same time and has been on the committee for many years helping in the organisation of a many Society functions.

Professionally Mike worked for ICI Rural Division from 1967-1987 as a Market Development Officer for NSW after moving to Australia from the UK via the Carribean. From 1976-1982 he served as a Direct Drill Project Officer for NSW. During this time he was involved in many projects including the following:-

- Aerial application of molinate to flooded rice using solid stream nozzles
- Infra-red photography of barnyard grass populations in rice (with Eric Leggatt NSW Agriculture)
- Sod seeding of rice using paraquat and Duncan Triple disc drills
- Serrated Tussock control with tetrapion (with Malcolm Campbell NSW Agriculture)
- Direct drilling of perennial pastures in Northern Tablelands (with Mick Duncan NSW Agriculture)
- Direct drilling of Kikuyu dairy pastures (with Frank Crofts Sydney University)
- Weed control in lucerne using fluazifop (Fusilade)
- Total Weed Control in NSW Railways .

Since his ICI days Mike has enjoyed self-employment as a consultant working particularly in various industry training areas. He is an accredited Agsafe and Chemcert trainer and has had close links with the nursery industry.

Mr. Alec McLennan was awarded Life Membership of the Society for his long service to the Society in a number of roles. He has held the positions of President and Treasurer, the latter for more years than can be counted. He was on the organising committees for the Sydney Asian Pacific Weeds Conference and CAWSS Conference and has been on the committee for many years helping in the organisation of many Society functions and especially keeping an eye on the funds.

Professionally Alec worked as a weeds agronomist for NSW Railways for many years until his retirement into a number of commercial and consulting roles.

Congratulations to you both.

Fresh & Nutritious Burr Medic - only \$5.00 a bunch.

By Lawrie Greenup

Burr Medic, *Medicago polymorpha*, an important pasture legume is being sold in the Sydney Markets and selected fruit and vegetable retailers as a leafy vegetable for use in Asian cuisine. The going price is \$5.00 per bunch.

In addition to being an important pasture legume, it is a weed of suburban lawns because of its burrs. The Burr Medic available in Sydney is suspected as being collected from local backyards or paddocks rather than grown as a commercial crop.

It's a different story in China where barrow loads of fresh shoots are a common sight. The medic is grown like lucerne with the first cut made about a month after sowing. A second cut can be made ten days later, with up to five cuts in total. Harvesting is made when there three to four full-sized leaves per shoot. Stems can be dried for use out of season.

The leaf tips, leaf stalks and tender leaves are all usable being used in soups or they can be boiled, steamed or stir-fried, with or without meat. A bowl of steamed rice and a tiny dish of green 'clover' nicely cooked and seasoned was a popular dish on canal steamers (Source: Joy Larkom's 'Oriental Vegetables - The Complete Guide for the Gardening Cook').

If anyone wants to try this Asian leafy green make sure it doesn't come from where the local dogs congregate and thoroughly wash it!

New Law for Training People Who Use Pesticides in Their Work.

The NSW Environment Protection Agency (EPA) has announced new rules from September 2003 under the pesticides Act 1999 that make training compulsory for commercial users of pesticides. In summary, the law says:

- People who use pesticides in their business or as part of their job must be trained in how to use those pesticides. You must not employ or engage a person to use pesticides unless that person is trained
- A person who is trained has a qualification that shows they have achieved a specific level of competency in pesticide use. Someone who has already done Chemcert, Farmcare or SMARTtrain training is already qualified
- People who do not have the required qualification have two (2) years to get trained or have their current skills recognised.
- People who are qualified have to be reassessed every three years.

Training is required in the use of all types of pesticides, including herbicides, insecticides, fungicides, bactericides, baits, lures and rodenticides.

There is a range of training courses available to suit all types of pesticide users. In most cases the training involves a two-day course, based on the National Agriculture and Horticulture Training Packages. Also, people can be qualified by demonstrating to be a registered training organisation that they know how to use pesticides in their job or business.

More information is available on the EPA's web site:

www.epa.nsw.gov.au/pesticides/trainers.htm

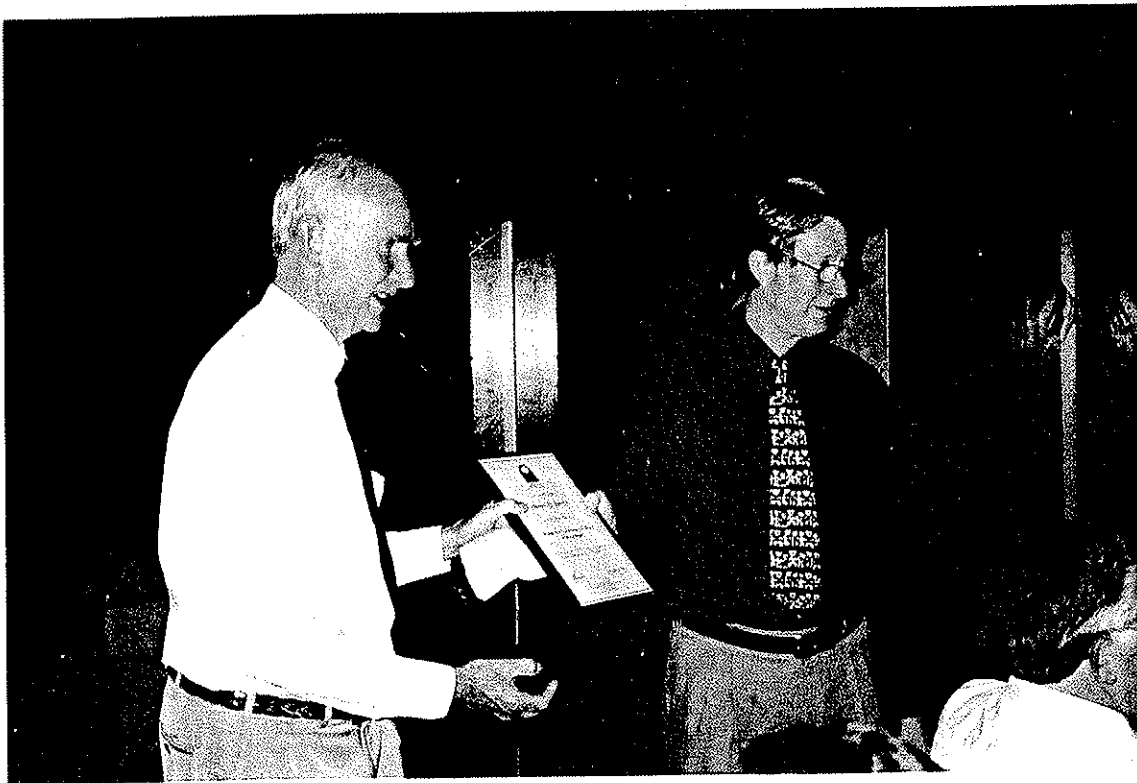
Source: NSW Flower News. Issue 2. November 2003.

Coming Events

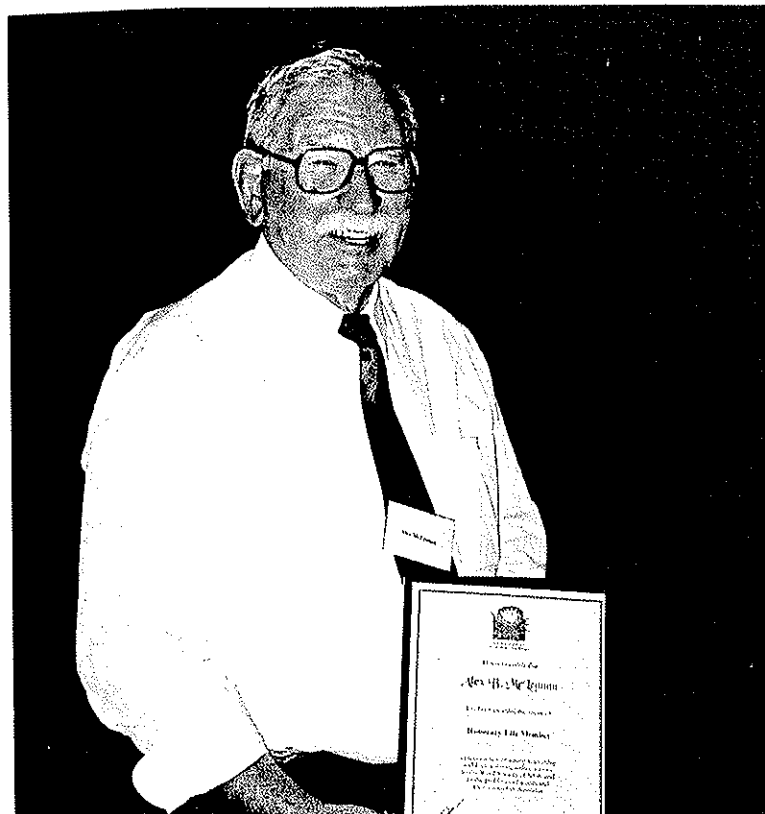
September 6-9 2004; 14th Australian Weed Conference. Wagga Wagga, NSW.

June 20-24 2004; 4th International Weed Science Congress. Durban, South Africa.

Images from the Annual General Meeting – Tamworth 2003



Mike Barrett (L) being awarded the Weed Society Medal for Excellence in Weed Management by President Bob Trounce (R).



A happy Alec McLennan (L) after being awarded Life Membership by President Bob Trounce



Agronomists, like weeds, come in all shapes, sizes and colours – Pre dinner drinks at the Annual Dinner. (The colours, not clearly visible in this black and white production, include yellow, blue, plain green, striped green, white, navy and brown).

With thanks to John Cameron for supplying the photographs

THE WEED SOCIETY OF NEW SOUTH WALES INC
Medal for Excellence in Weed Management

2. The Society wishes to recognise outstanding contributions to weed management in New South Wales through the Award of a Medal.
3. The Medal shall be known as "The Weed Society of New South Wales Medal for Excellence in Weed Management".
4. The Medal shall be a prestigious Award and, on average, no more than one Medal shall be awarded each year.
5. The Award shall be announced by the President of the Society at the Annual General Meeting/Annual Dinner (or other special event).
6. The Award shall be an inscribed Medal plus a framed Citation signed by the President.
7. The award of Medals shall be administered by an Awards Committee of the Society.
8. The Awards Committee shall consist of the President, Immediate-Past President and one other person appointed by the Executive Committee.
9. The Awards Committee shall call for nominations from Society members with a closing date of 30 August each year.
10. Nominations will be prepared in confidence and treated confidentially by the Awards Committee.
11. The Awards Committee will consider the nominations and, after deliberation, inform the Executive Committee of the Society of successful nominees.
12. The Executive Committee will consider the recommendations of the Awards Committee and make the final decision.
13. The Award is open to anybody in NSW showing appropriate excellence.
14. For the purposes of the Medal, "an outstanding contribution to weed management in New South Wales" shall be:
 - 14.1. A major contribution to the technology or practice of weed management.
 - 14.2. The contribution is recognised by peers to be exemplary.
 - 14.3. An impact on the work of others.
 - 14.4. Sustained over a substantial period.
 - 14.5. The contribution can be based across several of the categories such as research, teaching, administration, regulation, extension, commercial, or implementation of programs.

These Criteria are to assist the focus of the Nominating Member/s and the Awards Committee.

Minutes of the AGM – October 2003.

Minutes of the 38th Annual General Meeting held on Thursday 31st October 2003 at Tamworth Agricultural Institute, Tamworth commencing at 4.00 pm.

1. Present: In person - R Trounce - President, J Swain - Secretary, A. Murphy, A.McLennan, W.Felton, R. Carter, S. Johnson, J. Cameron, P. Scott, D.Lemerle, J. Hosking and M. Barrett.

P. Lockley, E. Koetz, I. Taylor and G. Challis were present as observers,

2. Apologies: L. Brodie, P. Dowling, L. Greenup, R. Stanton, J. Dellow, P. Gray, B. Verbeek and M. Hood.

3. Minutes of the last meeting held on 15th November 2002:

They were accepted on the motion of R. Carter and A. Murphy

4. Business arising

4.1 Committee meeting times and rotation of minutes –

During the year the meetings have commenced at 12.30 pm and have rotated between Syngenta, Pendle Hill and Blue Mountains City Council, Katoomba.

4.2 Use of teleconferencing for committee meetings –

This was introduced this year. It is expensive and we need to amend our agenda so that participants by phone are available for specific times.

4.3 Report from society Review Committee –

A report from the review committee appeared in the last newsletter.

Membership is changing and we need to ensure that we provide for all members.

4.4 Updating of membership booklet-

A. Murphy has updated the membership list.

5. 2003 Annual Report.

The report for 2003 was presented by the president Mr. Bob Trounce. The report is attached. It was moved that the report as

presented be accepted on the motion of R. Carter and J. Cameron. Carried.

6. Financial Report.

The audited financial report for 2002/03 was presented by the treasurer A. McLennan. It was moved on the motion of A. McLennan and M. Barrett that the financial report as presented and attached be accepted subject to clarification of the profit figure of \$995.00. Carried.

7. Election of Office Bearers for 2004.

The president declared all positions vacant and invited Mr. J. Hosking to conduct the election of office bearers for 2004.

The following were elected:

President: R. Trounce. (M. Barrett/A. Murphy)

Vice-President: S. Johnson. (J.M. Swain/W. Felton)

Secretary: J.M. Swain (J. Hosking/J. Cameron)

Assistant Secretary: A.R. Murphy. (R. Trounce/M. Barrett)

Treasurer: A. McLennan. (J.M. Swain/A.R. Murphy)

Public Officer: M. Barrett. (A.McLennan/J. Cameron)

Newsletter Editor(s): M. Hood and L. Greenup. (J.M. Swain/W. Felton)

Management Committee: D.Lemerle, R. Stanton, W.Felton, L.Brodie, R. Carter, J. Cameron, P. Dowling, P. Scott, M. Michelmore, B. Hennecke (R. Carter to confirm he will stand). (R.Trounce/W. Felton)

7. CAWSS Report.

Was presented by R. Carter. It was moved by S. Johnson and J.Hosking that the CAWSS report as attached be accepted. Carried.

8. Report of the 14th AWC.

Was presented by S. Johnson on behalf of J. Pratley.

It was moved on the motion of J. Cameron and A.R. Murphy that the report as attached be accepted.

Carried.

As there was no further business the meeting closed at 5.15 pm.

J.M. Swain

Hon. Secretary

7th November 2003.

Weed Society of Victoria seminar

WHAT IS NEW IN THE CROPPING WORLD?

Changes are always occurring in any weed situation as knowledge and technologies develop. Cropping systems are no different. Legislation is no different, governments are always changing this.

What are the legal obligations of any farmer and what is the latest legislation for the user? What are the latest development in formulation technology, the latest developments in application techniques and nozzles that affect a better crop outcome? If you want to diversify into the latest in crops what are the problems of regulation for GM canola that mean that you can actually grow these crops, from the Government and the ethical point of view and what is the current situation; and if these crops are grown what are the problems with breeding something like GM canola, and what happens after the breeding of a GM crop? Is there a market for farmers and what happens if there is gene flow from GM to organic crops, legal implications for whom with what? And what of the weeds themselves, how do you control them in crops like pulses and in Mediterranean dryland cropping systems,? How does integrated weed management work on farms?

Come to this seminar and find out the answers to such questions.

To be held, Friday 20th February 2004

Yellow Gum Room, Department of Primary Industries, Grains Innovation Park, Natimuk Road, Horsham

1.00 -3.00 p.m. AGM of the Weed Society of Victoria

PROGRAM

- 9.00-9.30 Avoiding the penalties from spray drift with a practical look at glyphosate.
Les Toohey, Regional Chemical Standards Officer, Hamilton
- 9.30-10.00 New application techniques and nozzles.
Peter Alexander, Tee Jet, Geelong
- 10.00-10.30 **MORNING TEA**
- 10.30-11.00 Interaction of nozzles and spray fluids with particular reference to drift.
Harry Combellack, SpraySmart, Bendigo
- 11.00-11.30 Trends in herbicide formulation development.
Anthony Flynn, EUREKA! AgResearch Pty Ltd, Werribee
- 11.30-12.00 The problems with breeding GM crops.
TBA, Bayer CropScience
- 12.00-12.30 Problems of regulation of GM canola.
TBA, Bayer CropScience
- 12.30-13.00 Farm demonstrations for integrated weed management.
Michael Moerkerk, Department of Primary Industries, Horsham
- 13.00-15.00 **LUNCH, WSV AGM**
- 15.00-15.30 The ecology of Heliotrope in a Mediterranean dryland cropping system.
James Hunt, The University of Melbourne, Burnley College
- 15.30-16.00 Managing weeds in pulses.
Katherine Hollaway, Department of Primary Industries, Horsham
- 16.00-16.20 DrumMUSTER, the future.
Don Matthews, Chemicare.

If interested please contact the Secretary, PO Box 987, Frankston, ph/fax 03 9576 2949; email secwssv@surf.net.au for further information and a brochure.

Welcome to New Members

Paul Moylan, Technical Officer, NSW Agriculture, Gunnedah, NSW.
Annie Johnson, Cotton CRC, Narrabri., NSW.

News From Chemcert

Recently the Chairman of *ChemCert NSW*, Mr Andrew Forrest, announced that *ChemCert NSW* will host a professional development workshop in Dubbo, on the 24th and 25th of February.

Up to 30 trainers and 6 industry specialists are expected to attend.

A number of guest speakers have been invited to discuss key topics including drift management, IPM, soil science, changes to the Pesticides Act, calibration and risk management.

In addition, an independent facilitator has been appointed to challenge our traditional delivery methodology and will direct an interactive forum to discuss the problems of skills recognition and assessment only pathways.

Since the EPA's announcement of mandatory training demand for flexible training options has increased.

To ensure *ChemCert* trainers are up-to-date with the regulatory changes and the AQTF, the *ChemCert* Board has endorsed a series of professional workshops to be held throughout the year.

Following on from the success of the December Workshop the first for 2004 will be held in Dubbo. If you wish to register your interest please contact the Secretariat.

For more information
Contact: Julie McAlpin
Tel 02 9387 4714
Email chemcertnsw@bigpond.com

New Editor

Laurie Greenup has joined me as assistant editor of your newsletter.

Articles, news, gossip, notice of upcoming meetings, book reviews and other content are very welcome and should be sent to me via the Weed Society address or emailed to mikehood@agriseach.com.au or faxed to 0299586091.

News from the Australian Cotton Co-Operative Research Centre –Narrabri.

Stephen and Annie Johnson, both members of the New South Wales Weeds Science Society, will travel to Wageningen University in the Netherlands to work and study from late January until mid July. Both work for NSW Agriculture at the Australian Cotton Research Institute near Narrabri in north-western New South Wales. Annie is an extension officer working with cotton growers in the lower Namoi region, and is also jointly responsible for the extension of weed related issues and research to the entire cotton industry. Stephen is a Research Agronomist specialising in biology and ecology studies on troublesome weeds in cotton crops.

Annie was awarded a LEAFSE scholarship through the University of New England to complete Masters degree. The LEAFSE program is about Learning through Exchange in Agriculture, Food Systems and the Environment and is a joint EU / Australian exchange programme designed to facilitate exchange of post-graduate students between four institutions in EC countries and four in Australia. Stephen will work with weed research staff in the Crop and Weed Ecology group whilst visiting Wageningen. They expect that the studies and work will benefit them in their jobs and in their wider weed extension and research activities upon their return.

Publications

The second edition of Weeds of Southern Queensland was released in October 2003. It is available from the Department of Primary Industries. The 52 page booklet deals with the identification and control of Declared Plants in southern Queensland.

Student Weed Prizes – Honorary Membership.

At the last Committee meeting it was agreed that in future all winners of the Weeds Society of NSW Inc weed prizes will be awarded 12 months honorary membership of the society.

GLP Now Mandatory for Residue Studies

For many years the conduct of residue studies in food crops using Good Laboratory Practice [GLP] has been mandatory in many overseas countries including the USA and many in Europe. Recently Australia has come into line with this requirement and now most trials done in Australia to generate residue information used for the determination of Maximum Residue Levels [MRLs] and withholding periods have to be done under this quality system. Some minor crops are exempt from this requirement although its use for minor crop studies is still recommended by the Australian Pesticides and Veterinary Medicines Authority [formerly the NRA].

Australia has adopted the OECD Principles of Good Laboratory Practice, with NATA the administering body in Australia.

Organisations wishing to conduct these studies have to be accredited or registered with NATA. This process involves the full implementation of specified quality procedures such as the adoption of Standard Operating Procedures [SOP's], study auditing and monitoring. Organisations conducting either the field component of

residue studies or the analytical component or both have to be registered.

Only a small number of organisations are accredited for the field component of such studies including Agrisearch Services Pty. Ltd. and Serv-Ag Research, the two largest contract research organisations in Australia and the chemical companies Dow Agrosiences, Bayer and Syngenta. A slightly larger number of analytical laboratories are registered for the analytical component including Agrisearch Analytical Pty. Ltd., AMDEL, Bayer and Syngenta.

The requirement applies to both plant and animal residue studies.

CAWSS Delegates

Bob Trounce and Steve Johnson are the Weeds Society of NSW Inc delegates to CAWSS for 2004.

What Bladder Ketmia have you got?

An extract from an article in the Australian Cotton Grower, October-November 2003.

If you thought there was only one bladder ketmia then I am afraid you are wrong.

Bladder ketmia can be a troublesome weed in cotton crops, partly because it is closely related to cotton.

There are three types of bladder ketmia including two species. Wide leaf bladder ketmia [*Hibiscus trionum* var. *vesicarius*] is an erect annual plant, five to 150 cm tall with waxy green leaves that are around 90-100 mm long and 70-80 mm wide. There are two types of wide leaf bladder ketmia. Both have cream or yellow petalled hibiscus-like flowers, but are differentiated by the colour found at the centre of the flower.

One type has flowers with a yellow centre. It is commonly found throughout NSW and

southern Queensland – for example in the Macintyre valley, on the Darling Downs around Dalby and Jimbour and at St. George. The other type of wide leaf bladder ketmia has flowers with crimson/red centres and is commonly found throughout central and western Queensland. It is likely that both types co-exist in a number of areas.

The third type is narrow leaf bladder ketmia [*Hibiscus trionum* var. *trionum*] is a semi-prostrate to erect annual plant, five to 130 cm tall with leaves that are around 70 mm long and 90 mm wide. Plants tend to be shorter than wide leaf bladder ketmia and have more deeply divided flowers. The flowers of narrow leaf bladder ketmia have cream coloured petals with a deep purple centre.

Narrow leaf bladder ketmia is common in eastern and southern NSW and on the Darling Downs in Queensland. It is probably the only variety of bladder ketmia found in the Gunnedah area and to the east of Dalby. It is commonly found growing with the yellow centre flower type of wide leaf bladder ketmia in the Namoi, Macquarie and Lachlan valleys and with both wide leaf types around Jimbour on the Darling Downs.

As these types have different behaviour it is important to be able to identify them at a relatively early stage. Further details are available in the Cotton Grower article written by Stephen Johnson, Brian Sindel and Graham Charles.

Vigilant Herbicide Gel **A new product with a novel formulation**

A New Product from HortResearch New Zealand, distributed in Australia by Macspred Pty. Ltd. (Registration pending/package submitted).
©Trademark of the Horticulture and Food Research Institute of New Zealand Limited.

Vigilant is a Gel product containing 50 g/kg Picloram as the potassium salt

It is registered in New Zealand for application on a range of woody shrubs/trees, vines, creepers, rhizomatous and bulbous weeds

May be applied at any time of the year, allowing 12 hours before rainfall.

Vigilant provides a simple non-spray alternative for selectively controlling invasive weed species without affecting adjacent plants

Packaging - 240 g Brush Bottle, 1.8 kg Pail, 20 kg pail and pump

Vigilant is ideal for use in the following areas:

Woody and Vine Weeds, Riparian Zones, Bushland Regeneration

General

- Most NSW Councils see it as a valuable tool for the control of isolated weeds or for use in sensitive areas, such as riparian zones or bushland regeneration
- Recent exposure to farmers received high interest for carrying in utility or on bikes to control isolated weeds

Proposed Australian Label

- For use by direct application for control of Woody Weeds, Wild Tobacco trees, Rhizomatous plants and Wandering Jew as per Directions For Use table

Situations

- Native vegetation, conservation areas, gullies, reserves and parks

Weeds Controlled

Vigilant is currently registered in New Zealand for use on woody, rhizomatous and creeping weeds. These include:

- *Agapanthus* (*Agapanthus praecox*), Climbing spindleberry (*Celastrus orbiculatus*), Cotoneaster (*Cotoneaster simonsii*), Darwin's barberry (*Berberis darwinii*), Elaeagnus (*Elaeagnus x reflexa*), Gorse (*Ulex europaeus*), Grey willow (*Salix cinerea*), Japanese honeysuckle (*Lonicera japonica*), Kahili ginger (*Hedychium gardnerianum*), Old Man's Beard (*Clematis vitalba*), Wandering jew (*Tradescantia fluminensis*), Wild Tobacco (*Solanum mauritianum*)
- Research trials by HortResearch have shown that Vigilant has close

to 100% control of these weeds when used correctly.

How to apply Vigilant

Cut stem application for woody weeds

Suitable for old man's beard, climbing spindleberry, Japanese honeysuckle, grey willow, cotoneaster, elaeagnus, woolly nightshade, gorse, Darwin's barberry.

Tipit Gel Pruner

The Tipit gel pruner can be used for vine stems of 20 millimetre diameter or less, and for woody plants 15 millimetre diameter or less.

Cut stem application to rhizomatous plants

Agapanthus : prune all the shoots horizontally at the rhizome and apply a 3-5 mm layer of Vigilant across the cut surface of the rhizome.

Kahili ginger : treat the same as agapanthus, however, if the plant has lots of rhizomes between shoots (more than 4 rhizomes per shoot) then **additionally** : Drill a 10 mm hole into every fourth rhizome from a shoot to 80 percent the depth of the rhizome. Fill this hole with Vigilant.

Roller treatment - suitable for wandering Jew

Decant Vigilant into a paint roller tray. Coat the roller in the gel. Roll the paint roller over the wandering jew/ willie in the same way as if you were painting a wall. Work backwards so that you crush the plant as you go - this aids the uptake of the gel. The recommended rate of application is 16 grams per square metre.

Applications for standing trees (>100 mm diameter)

Trees can be treated by either applying Vigilant into frills, blazes or holes drilled around the tree trunk. All main trunks need to be treated. Treat as close to ground level as practical.

Applying Vigilant to frills around the trunk of trees

Using an axe or a pruning saw, cut 20 mm deep frills around the trunk of the trees leaving no more than 50 mm gaps between frills. Using a brush bottle, fill the frills with Vigilant.

Applying Vigilant into holes drilled around the trunk of trees

Decant Vigilant gel from a pail into a plastic bottle with a long nozzle (e.g. distilled water bottle or plastic container for watering hanging pot plants). Drill a 10 mm hole at a 45° angle down into the tree trunk to a depth of 50 mm. Repeat this at 50 mm intervals around the trunk. Slide the nozzle attached to the plastic bottle down to the base of the hole. As you remove the nozzle, fill the hole with Vigilant ensuring the hole is filled with the gel.

Applying Vigilant into blazes around the trunk of trees

Using an axe, cut blazes into the trunk 20 mm deep and 50 mm high. Chip out and apply a 5 mm layer of Vigilant along the bottom surface of the blaze. Repeat this around the trunk with no more than a 30 mm gap between blazes.

Trials with Vigilant were undertaken in conjunction with the Department of Conservation: <http://www.doc.govt.nz/>
For information on weed species targeted by regional councils in New Zealand: <http://www.outwood.com/localgov/newzealand.htm>

For further information about New Zealand weed species:

<http://envbop.govt.nz/green/weeds.htm>

For other issues of interest to small block owners: <http://www.lifestyleblock.co.nz/>

For conservation issues: <http://www.forest-bird.org.nz/>

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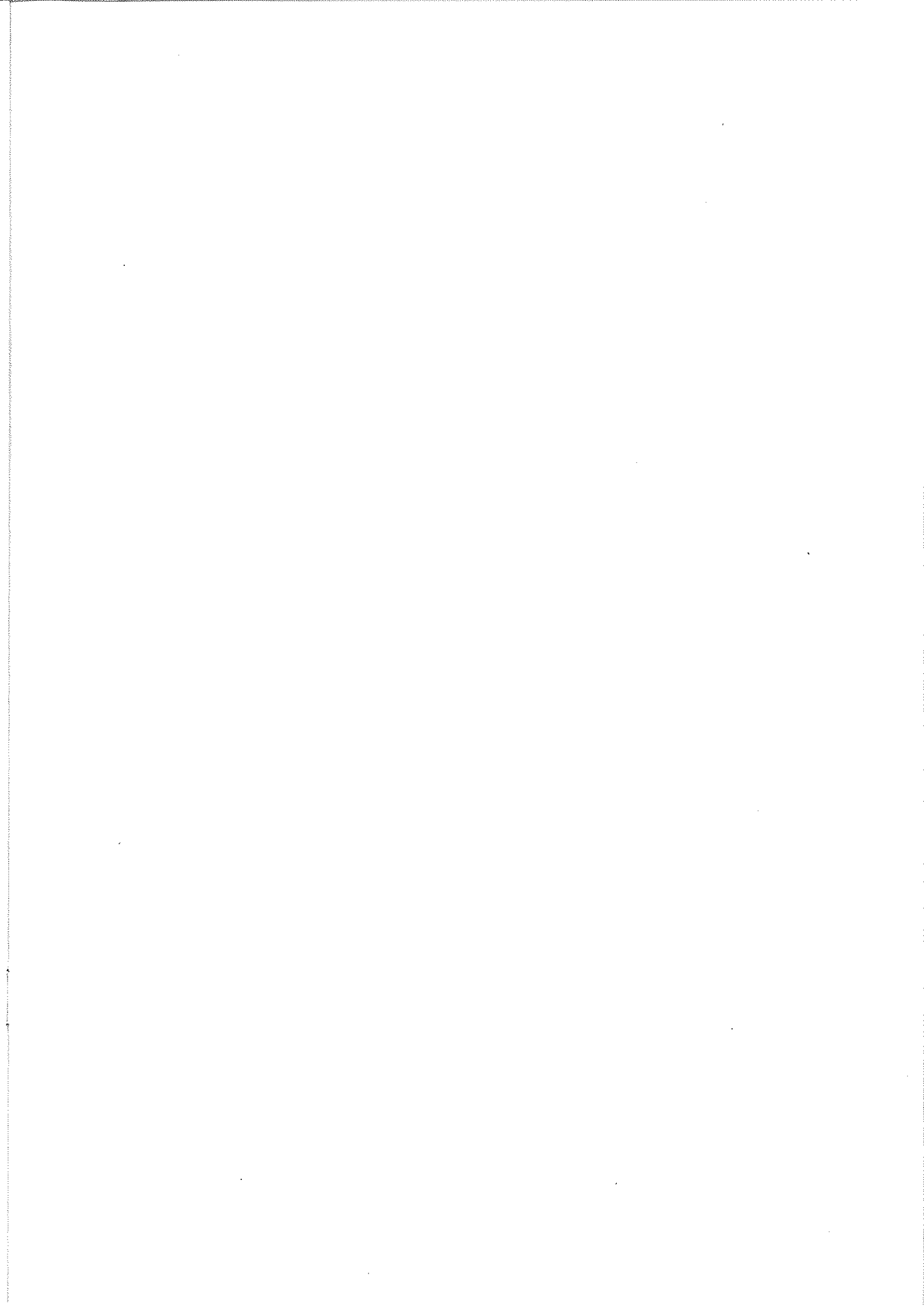
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A Good Weed

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