

THE WEED SOCIETY OF NEW SOUTH WALES - NEWSLETTER

P.O. Box K287, HAYMARKET. N.S.W. 2000

President: Mr. M.J. Hood
Hon. Secretary: Mr. W.J. Burke
Ed. Newsletter: Dr. R.W. Medd
Newsletter No: 1/85 May 1985
Price: 10 cents

Notice of Next Meeting

Following the next executive meeting Friday 5th July, 1985 at Woolley N. Building, Room 208, Sydney University, two talks commencing at 3.00 p.m. have been arranged.

Mr. Brian Sindel will speak on the fireweed problem, the topic of his Ph.D. studies just commenced at Sydney University.

Dr. Leon Smith has agreed to present a recently produced video of the water hyacinth problem in N.S.W. and provide further comments.

1985, EXECUTIVE - WEED SOCIETY OF NEW SOUTH WALES

<u>PRESIDENT</u>	Mr. M.J. Hood, Agrisearch Services, 50 Leewood Drive <u>ORANGE. N.S.W. 2800</u> Ph. 063/624539	<u>TREASURER</u>	Mr. G.A. Jacobs, C/- Dupont Australia Limited, P.O. Box 930, <u>NORTH SYDNEY. N.S.W. 2060</u> Ph. 02/9236111
<u>VICE PRESIDENT</u>	Mr. W.L. Felton Agricultural Research Centre, PME RMB 944 <u>TAMWORTH. N.S.W. 2340</u> Ph. 067/679300	<u>SECRETARY</u>	Mr. W.J. Burke, C/- Ciba-Geigy Australia Limited, P.O. Box 4, <u>WENTWORTHVILLE. N.S.W. 2145</u> Ph. 02/6310655

COMMITTEE MEMBERS:

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8 Stringybark Close,
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15 Lerool Crescent,
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C.A.W.S.S. Delegates: Mr. A.D. Mears, Dr. L.W. Smith.

NEWS FROM THE SOCIETY

MESSAGE FROM THE INCOMING PRESIDENT

Dear Members,

Elections for the executive of your Society were held recently and I was very pleased to be elected as President. Jack Burke accepted the position of Secretary again, Geoff Jacobs the Treasurer position and Warwick Felton Vice President. The list of committee members is included in this bulletin. Our thanks must go to Mike Barrett, for four years as Treasurer and Alex McLennan as retiring President. Alex gave a very interesting and well illustrated talk at the Annual Meeting on railway weed control.

The Society has recently been run mainly by Sydney area members and so I am pleased to be the first country based President for some time, and also the first independent consultant to hold the position. As many will not know me, may I explain that I am the Principal of Agrisearch Services Pty. Ltd., based in Orange. The company provides consulting and research and development services.

Members of the Society are spread over a wide geographical area and it is obviously difficult for some members to attend functions. However, functions are planned for several areas of the State in the next year and I hope to see all of you at at least one of them. Remember that not only will you get something out of being there but your presence and contribution will make it more interesting and of greater benefit for everyone else.

At a recent committee meeting, the programme for 1985 and part of 1986 was discussed and generally agreed on. Committee meetings are held about every 2 months. All members are entitled to attend these meetings and to encourage this and to make the effort of attending more worthwhile for committee members, it is planned to reintroduce the idea of having guest speakers. Thus, after the July and September committee meetings, we will have 2 talks. Details of these are given elsewhere in this newsletter.

The September meeting will be held in Orange.

In October, a field trip will be held and this year we are looking at going to the Northern Tablelands/Slopes. We are also looking at running a Computer Data Handling seminar later in the year, and next year a major seminar on toxicology and safety.

Dick Medd at ARVC, Orange, has kindly consented to co-ordinate the newsletter, probably the most important product of the Society. If you have any items of news, articles, letters to the Editor, notices etc. etc., please send them to Dick.

The Weed Society is basically about communication, on weed science and practical weed management. It can do this formally by organising meetings, field trips, etc. and informally by social functions, which allow better understanding to develop between the people involved in the many aspects of the subject. This is something needed in many areas, take for instance the growing gap between those who really understand weeds, weed control techniques and weed research, and those who control the Pesticide Regulation process. How can we encourage the latter to be more involved with the former to avoid the further development of impractical and unnecessary regulations brought about largely by lack of practical knowledge or experience.

Dick Medd has attached a membership application form to this newsletter. If you know of any prospective members, please give it to them and encourage their application, so that they do not miss out on the benefit of being a member.

Mike Hood.

Short profiles on other office bearers follow to assist with getting to know them.

Mr. Warwick Felton - Vice President

Warwick commenced work with the N.S.W. Department of Agriculture after graduating from Hawkesbury Agricultural College and The University of Sydney (Agr.Sc.). For a decade as a research agronomist based at the Agricultural Research Centre, Tamworth, Warwick developed recommendations for the control of weeds in irrigated summer crops. His work with weed competition in soybeans concentrated particularly on thornapples (*Datura* spp.).

Over the past 6 years he has worked as co-ordinator of Northern No-till Research Programme, employed and based as before at Tamworth. The programme investigates all aspects of crop production involved with the substitution of herbicides for tillage.

Warwick has served on the Society's committee for most of his career.

Mr. Geoff Jacobs - Honorary Treasurer

Following graduation from Queensland Agricultural College and Queensland Teachers College, Geoff taught High School Science for some 5 years before commencing his career in the agrichemical industry. Geoff joined Shell Chemical (Aust.) Pty. Ltd. in 1966 as a representative marketing industrial and agricultural chemicals throughout northern N.S.W. and Queensland. In the late 70's Geoff was appointed as an Industrial Weed Control Specialist with Du Pont (Aust.) Ltd. working the same regional territory. In 1982 he became N.S.W. Manager for Du Pont's Agrichemical Division, but retained responsibility for Industrial Weed Control. Geoff is currently in this position and based in Sydney.

Geoff served as a foundation member of the Qld. Weed Society until transferring to Sydney and our Society in 1982.

Mr. Jack Burke - Honorary Secretary

Members will readily recognise the name Jack Burke, who for his 15th consecutive term, was a 'natural' for the position of Secretary.

Jack graduated from the Brisbane Technical College as an industrial chemist and first worked in the fertilizer trade, as a chemist, before becoming involved with research and development of agrichemicals with Ciba Geigy. For two years Jack was the Australian Sales and Development Manager with Diamond Shamrock before returning to Ciba Geigy as Manager of Regulatory Services in Sydney.

Jack has and continues to do an enormous job for the Society of which he is a foundation member.

TREASURER'S REPORT, THE WEED SOCIETY OF N.S.W.

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED

31ST JANUARY 1985

EXPENDITURE		INCOME	
Newspaper (Printing, Postage)	117.31	Members Subscriptions	1394.00
Australia Post - Box Rental	40.00	- Ordinary	875.00
Postage - Labels	103.00	- arrears	144.00
Stamp Duty	.82	- Corporate	350.00
Federal Tax	3.63	- arrears	25.00
NSW Dept. Agric - Brochures	75.00		
Barbeque	107.68	Barbeque	95.00
Annual Dinner	775.00	Annual Dinner	674.00
AWSS Levy 1983/84	1209.00		
Travel Award	170.00	Interest	1212.91
Travel Grant	423.20	- Bank	25.92
Supplies	29.00	- NSW Permanent	
		Term Dep.	568.23
Balance (Being excess of income	322.27	Savings A/c	87.76
over expenditure transferred		- A S B Series 22	531.00
to Accumulated Fund)			
	<u>3375.91</u>		<u>3375.91</u>

STATEMENT OF ASSETS AS AT 31.1.85

Accumulated Fund	<u>31.1.85</u>	<u>31.1.84</u>
	\$	\$
Balance	10185.95	9011.36
Add excess as per Income & Exp. Account	322.27	1174.59
	<u>10508.22</u>	<u>10185.95</u>
This is represented by -		
Cash at Bank (Trading Account)	442.84	751.38
Investments:		
NSW Perm. Building Society		
Term Investment	4800.00	4800.00
Ordinary Savings Account	1690.38	1034.57
Commonwealth Govt Securities Bond Series 22	3600.00	3600.00
Less Subscription in Advance	25.00	-
Corporate		
	<u>10508.22</u>	<u>10185.95</u>

M. W. BARRETT
Hon. Treasurer

In my opinion the above Income & Expenditure Account and Statement of Assets have been properly drawn up so as to present a true and fair view of the affairs of the Weed Society of N.S.W. for the year ended 31.1.85.

C.D. BARGWANNA A.A.S.A. (S)
Auditor

PRESIDENTIAL ADDRESS

BY

A.B. McLENNAN

1-3-85

ON LINE WITH RAILWAY WEED CONTROL

Pardon the pun, nevertheless its apt because from a Railway point of view vegetation control/management begins and ends with the 'Line':

The line or track is encased in a rail corridor extending from the border to border, - 'A long paddock without much agricultural activities'.

Through a series of slides I would like to show you that.

A Rail track traverses an extremely wide variety of terrains:-

- * City-urban areas
- * Mountains
- * Agricultural cropping and grazing land.

To add to the spice of life a rail system builds in obstacles such as:-

- * Road crossings
- * Electrification overhead wiring and signals
- * Yards - points
- * Multiple tracks
- * Engineering feats.

Track also runs through a wide range of:

Rainfall)	Winter-summer
Soil Types)	Species
Temperatures)	Growth Rates

As people interested in weed control/practices you are all aware of the influences exerted by these factors, however in most cases unless you are involved with rail vegetation work it is not always realized that a particular rail 'Line' traverses a combination of these factors in relatively short distances or programme strategies.

ie. Cootamundra - Parkes - Narromine = 300kms

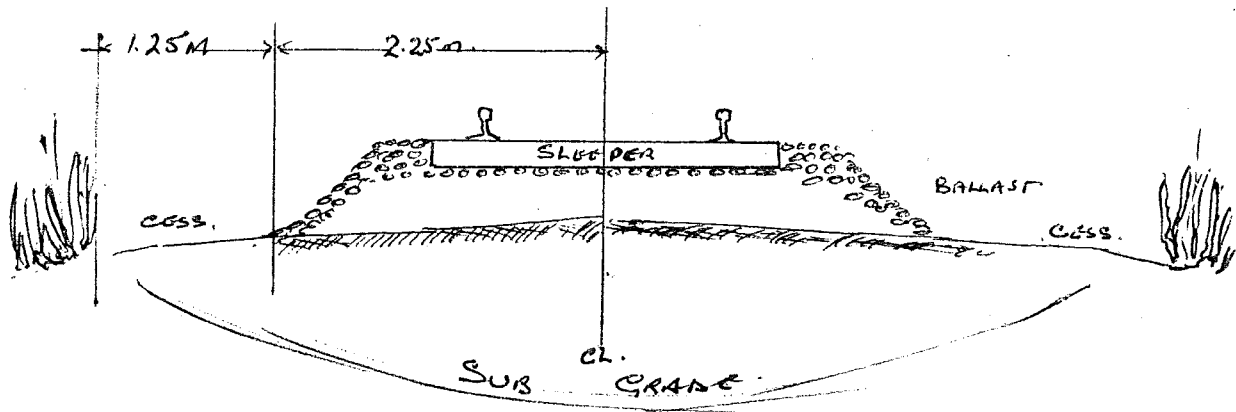
Maitland to Tamworth

Roto to Juneee = Dry Western - M.I.A. - Slopes

Programme Control Practices with a/any rail system becomes a specialised task as vegetation management is a very complex venture:

- Complex in Application
- Complex in Timing
- Complex in Environment Considerations
- Complex in choosing the right chemical tool
- Complex in choice of Equipment

The Diagram of a track structure identifies the track components readily identified with a rail track ie, the ballast - sleepers and rail. What is not always seen is the convex surface in the sub-grade the latter being a very important feature of track construction for this surface bears to dynamic and shock loading of the passing trains.



A weakness here - though vegetation matter, could cause track instability.

Our needs to know are:

- * The track target - Mainline, yards or wheat line
- * What plant/brush/tree/species are likely (The 'Plant' Targets)
- * The terrain traversed and rainfall patterns
- &
- * The most efficient equipment to gain uniformity of chemical placement.

TO EXAMINE THIS LAST PART

I would now like very briefly to look back at how control was or wasn't obtained in the past.

Through a series of slides.

HISTORICAL

- * 50's saw the introduction of Phenoxy Group and K/D Chemical = Large Water Requirement/ha.
- * 60's saw spray tanker introduction and increased range of products and tank mixing of materials
- * 70's Residual chemical availability and their acceptance and use in Rail system although not much was understood about the chemical soil bond (track structural material)
- * 80's the Environmental decade - compliance with ever increasing legislation and Government Regulations.

The Equipment criteria must provide:-

- * Operate safety
- * Accuracy of chemical placement
- * Adaptable for multi purpose application
- * Environment Safety

We are now looking for optimum performance and efficiency. To achieve this within rail system, as with agricultural production, there is a trend towards specialisation both in equipment and expertise.

During a visit to the USA in 1979 I was able to discuss the principle features of 'Hy-Rail' equipment as used in rail systems. The terms refers to a vehicle (truck) which has the ability to run on road and rail, the rail wheels guide the unit, whilst power and braking are derived from the rubber drive wheel.

Their obvious benefits made me determined to work towards their introduction into SRA. Maxwell, Robinson and Phelps of W.A. had involved themselves with this equipment in the mid 70's and arrangements were made to evaluate a unit in the eastern states in the '80's, the trials proved very successful.

We now do 80% of our track using Road Rail Equipment by Contractor or by our own unit because they provide:-

- * Mobility
- * Cost efficiency
- * Operator Protection
- * Flexibility of Programme

Our unit VMX-1 has alternate bodies -

1. Water Phase unit
2. Granule TP 3000 model.

Both systems are capable of applying different chemicals simultaneously, thus allowing split application which results in more effective use of particular chemicals, this also fits into our Right of Way management which requires Burning of Vegetation.

An example would be, heavy infestation of Johnson grass growing in the "cess" and some invasion of the Ballast between the Tracks. Technique adopted would be to use GLYPHOSATE - Round up - Outside Track

and

TETRAPLION Frenock, over Track, thus utilising the residual effect where Burning off would be likely.

Road Rail equipment has proved to be more effective and efficient than the old spray tankers.

Our present target orientated application technique gives better chemical/plant or soil contact, with environmental safety.

NEW MEMBERS

The Society welcomes Mrs Sally Jeffery, Department of Plant Pathology, Univ. of Sydney. Sally is working on how herbicides influence the susceptibility of wheat to crown rot.

C.A.W.S.S.

CAWSS will meet on 15th July, 1985. The Society has forwarded submissions concerning the proposed Australian Weed Science Society and proposed new Weeds Journal.

Members with items they wish to have considered by CAWSS should forward written texts to the Secretary of the Society by June 30th.

WEED SCIENCE TUITION IS EXPANDING

Curriculum changes at Sydney University have been made to give more students more exposure to Weed Science. Dr. Peter Michael will be reporting on these changes in a future newsletter.

Meanwhile, Dr. Steve Powles reports that Weed Science is now a component of the 4th year Agronomy course available to final year students at the Waite Institute. In 1985, 12 lectures will be given in the area of weed ecology and weed control. Additionally there will be laboratory practicals and research projects within this subject area.

Steve would like to have the opinions of those involved with weed problems so that we can formulate a course. Forward suggestions to Steve Powles, Agronomy Dept., W.A.R.I., Glen Osmond, 5064, Ph. 797901.

BIOLOGICAL CONTROL OF PATERSON'S CURSE

On 26th October 1984, the Minister for Industry and Commerce referred to the Industries Assistance Commission (IAC) the question of whether *Echium* should be a target for biological control. The terms of reference and scope of the inquiry were required to consider:

- . the economic advantages and disadvantages of *Echium* to various sections of Australian agriculture and the economy in general
- . the means by which biological control of *Echium* may be effected
- . whether any industries would be significantly disadvantaged by biological control and, if so, whether any assistance might be provided
- . the availability, effectiveness and efficiency of alternative means of control; and
- . conservation of the natural environment.

The IAC received an overwhelming response to the inquiry with over 500 individual submissions - the largest number ever received by the Commission for an inquiry. Formal submissions were received up to the end of February

plus the Commission spent considerable time visiting interested parties discussing the issues. Dr. Marcus Blacklow, Faculty of Agriculture, University of Western Australia was appointed Associate Commissioner and Prof. John Lovett, Faculty of Agriculture, University of Tasmania has been contacted to provide technical information assisting the Commission.

The Commission released a background paper on the inquiry in January and a draft report of their findings is expected in mid May. Depending on the draft report it is anticipated a public hearing will be conducted during mid June, with the final decision of the Commission to be handed down before the end of August.

Contributed by:
J.T. Seaman
Veterinary Research Officer, Orange.

8TH AUSTRALIAN WEEDS CONFERENCE

Your Society has undertaken the organisation of the next CAWSS conference. An on-going committee has been formed whose immediate task is to establish a conference theme, date and venue plus a time frame plan setting out achievement dates. Think about your Research Projects and possible papers.

Each newsletter from now on will give brief information on what the committee is doing. Please forward any suggestions, ideas and comments to the organizing committee.

A report by Dr. John Swarbrick on the 7th Australian Weeds Conference has been published in Aust. Weeds Vol. 3, pp.152-3.

Alex McLennan
Chairman,
Organizing committee.

A NEW ERA FOR THE AGRICHEMICAL INDUSTRY IN AUSTRALIA

The opening of the new headquarters and laboratories of Agrisearch Services Pty. Ltd. in Orange N.S.W. by Dr. D.H. Solomon of CSIRO Division of Applied Organic Chemistry on April 17th signifies the start of a new approach to the Agricultural Chemical Industry by Australians.

Previously Australia relied on the importation of agrichemicals discovered overseas and adapted for use against Australian pests. Agrisearch, a contract agricultural research company, is and was one of a number of companies testing these chemicals under Australian field conditions to assess their suitability.

In the new approach minute amounts of potential agricultural chemicals discovered in CSIRO and elsewhere can be tested for their pesticidal activity by Agrisearch Services in their new primary screen at Orange. This enables Australian chemists to seek and find more effective chemicals and find the best for a particular activity (herbicide, insecticide, fungicide etc.) without loss of rights.

The new facilities at 50 Leewood Drive, Orange contain laboratory space for formulating chemicals, automated greenhouses, insect breeding and rearing rooms, and office space for the staff involved in this and the other testing programs conducted by Agrisearch.

Mr. Michael Hood,
Managing Director of Agrisearch Services

U.S.D.A. SOIL RESIDUE SPECIALIST VISITING AUSTRALIA

Dr. Bohn Dunbar, from the USDA, Agricultural Research Station, Akron, Colorado specialises in assaying herbicide effects in soil.

Dr. Dunbar is in Australia to set up a project in conjunction with the NSW Department of Agriculture, investigating herbicide application. During his 5 month visit he will be located with the Conservation Tillage Research Team at A.R.C. Tamworth (contact Warwick Felton).

CONFERENCE DATES

THIS YEAR:

- | | |
|----------------------|--|
| July 1-5, 1985 | Association of Applied Biologists
Weeds Group, with Biogeography Study Group
Bracken (<i>Pteridium aquilinum</i>) 1985
Leeds, GB
Dr. R.T. Smith
Geography Department
University of Leeds
Leeds LS2 9JT / GB |
| July 8-12, 1985 | Tenth Conference of the International Soil Tillage
Research Organization, Guelph, Ontario, Canada. |
| August 4-7, 1985 | Soil Conservation Society of America, 40th Annual
Meeting, St. Louis, MO |
| November 3-5, 1985 | The Agricultural & Veterinary Chemicals
Association (AVCA)
'Serving Agriculture Towards 2000'
Mr. D.R. McGuffog
President, AVCA
Oxford Square
Cnr Oxford & Riley St., Sydney, 2000 |
| November 4-8, 1985 | Third Biennial Conference of the West Africa Weed
Science Society, Ibadan, Nigeria. |
| November 24-30, 1985 | 10th Conference of the Asian-Pacific Weed Science
Society.
'Weeds and Environment in the Tropics'
Chiang Mai Orchid, Chiang Mai, Thailand
Miss Maneesa Teerawatsakul
Secretary, Working Committee for
10th Conference of APWSS
C/- Botany and Weed Science Division
Department of Agriculture
Bangkhen, Bangkok 10900, Thailand |

NEXT YEAR:

- March 12-13, 1986 EWRS Symposium on
Economic Weed Control - A Component of Economic
Crop Production
Dr. Ray J. Hance
Weed Research Organization
Begbroke Hill
Yarnton
Oxford OX5 1PF / GB
- August 5-7, 1986 International Symposium on Adjuvants for
Agrochemicals (Herbicides, Pesticides, Plant
Growth Regulators, Nutrients, Soils and Others)
Brandon, Manitoba, Canada
Adjuvants Symposium Organizing Committee
Agriculture Canada Research Station
P.O. Box 610
Brandon, Manitoba R7A 527, Canada.
- September 15-19, 1986 7th Aquatic Weed Symposium
Loughborough, GB
Royal Tropical Institute
Dept. of Agricultural Research
Mauritskade 63,
NL-1092 AD Amsterdam
Attn. Dr. A.H. Pieterse
Chairman, Aquatic Weed Group
- July 24-Aug. 1, 1987 International Union of Biological Sciences
XIV International Botanical Congress
Berlin, Deutschland/Germany/Allemagne
XIV International Botanical Congress
Botanischer Garten & Botanisches Museum
Konigin-Luise-Str. 6-8
D-1000 Berlin (West) 33.

IN PRINT

CONFERENCES

- . Papers presented at the conference "Weed Flora and Agricultural Techniques" held in Switzerland, during November 1983, have been published in edition 1/2, vol. 23 of La Recherche Agronomique en Suisse. Copies of the 176-page book are available for Sfr. 18.50, from: E. Beuret, Station Federale de Recherches Agronomiques de Changins, Route de Duillier, CH-1260 Nyon/Switzerland.
- . The New Zealand Weed and Pest Control Society (NZWPCS) has published Proceedings of its 37th Conference, held August 1984, as a single 316 page, fully typeset, volume. In English, softbound, NZ\$15 per copy, from: NZWPCS Secretary, MAF, Private Bag, Hastings, New Zealand
- . Proceedings of the 7th International Conference on the Biology, Ecology and the Systematics of Weeds which took place in Paris from October 9th to 11th, 1984 are published and are available from now for the price of 1800FF, from A.C.T.A., 149, rue de Bercy, F-75595 Paris Cedex 12, France.

- . Proceedings of the 7th Australian Weeds Conference, 1984.
Two volumes \$35.00 post paid.
Covers state of the art and can be ordered from:
Weed Society of Western Australia,
P.O. Box 190,
Victoria Park. W.A. 6100

PLANT PROTECTION QUARTERLY
(formerly Australian Weeds)

The new journal Plant Protection Quarterly, which replaces Australian Weeds, covers all aspects of the protection of field crops and other economic plants from weeds, pests and diseases. It includes all stages of production and post-harvest storage, as well as the effect of plant pests on railways, roads, waterways and parks.

This material is of importance to a wide readership - research scientists, field officers, agricultural advisors, pesticide contractors, food-storage specialists and many others.

The contents of Plant Protection Quarterly will feature research reports, technical notes (short communications), subject reviews, book reviews, letters to the editor, technical comments on published papers, conference information, reports on technical developments, news items and announcements.

Contributions are invited in any of these forms on topics relating to plant protection. Such topics may include weed science, agricultural entomology, nematology, plant pathology, pest management, animal predators, ecology, and the economic and environmental aspects of pest problems. Acceptance of material will be at the discretion of the Editors and upon the recommendation of referees appointed by the Editors where their opinions are required.

All contributions must be in English (two copies, double-spaced typing) and of a standard befitting professional journals. While preference will be given to the applied science aspects of plant protection, papers dealing with basic science of direct interest to practical plant protection will also be considered.

Material for publication in Plant Protection Quarterly should be submitted to the Editors: J.J. and K.J. Lenaghan, 27 St. Vincent Place, Albert Park, Victoria 3206, Australia. The Editors and the Publisher will be pleased to answer any queries and provide further information.

Subscriptions will be for four quarterly issues of Plant Protection Quarterly. Annual Subs. \$22.50. Order forms, subscription payments and enquiries should be directed to the Publisher: Plant Protection Quarterly, Inkata Press Pty. Ltd., 4 Longbourne Avenue, North Clayton, Victoria 3168, Australia.

IN PRINT:

- . Weeds in Western Australia - Now available on video.
Professionally made, 18 minute, audio-visual presentation especially produced for the Australian Weeds Conference is now available on VHS video. Price is \$40 available from Secretary, The Weed Society of Western Australia, P.O. Box 190, Victoria Park, W.A. 6100.
- . Recommendations for Weed Control Southern Australia.
New Revised Third Edition.
Individual copies including postage - \$27.50 or picked up \$25.00
Weed Science Society members - \$25.00 or picked up \$22.50
Bulk orders 10 or more - \$22.50 each copy.
Available from Weed Science Society of Victoria, Clunies Ross House, 191 Royal Parade, Parkville, Vic. 3052.

WSSA PUBLICATIONS:

- . Common Weed Seedlings of the U.S. & Canada - \$2.00
- . 5th Edition Herbicide Handbook - \$10.00
- . Germination and Establishment of Weeds for Experimental Purpses - \$10.00
- . Bibliography of Marijuana - \$2.00
- . North American Directory of Federal, Provincial, and State Weed Scientists - \$3.00
- . Composite List of Weeds - \$10.00
- . Bibliography of Weed Control Publications of North America - \$3.00
- . Adjuvants for Herbicides - \$10.00
- . Important Weeds of the World - \$25.00
- . Crop Losses Due to Weeds in Canada and the United States - \$5.00

Remittance must accompany all orders. Order from:-
Weed Science Society of America
309 W. Clark Street, Champaign, IL 61820.

Dryland Agriculture - Edited by H.E. Dregne and W.O. Willis
American Society of Agronomy, Crop Science Society of America and Soil
Science Society of America.

Monograph No. 23

Hardcover, 622 pp., 1983

ISBN 0-89188-075-3, \$35.00

Sets forth the best principles and practices for dryland agriculture in North America, namely, the Southern Great Plains, Central Great Plains, Northern Great Plains, Pacific Southwest, Pacific Northwest and Canadian Prairies. The recommendations mentioned in this book may also serve as a guide to similar environments elsewhere. Over 50 dryland research specialists helped author Monograph 23, published by the American Society of Agronomy, Crop Science Society of America and Soil Science Society of America.

Specifically, the publication covers topics such as sociology, economics, weeds, pests diseases, integrated range and crop management, soil and water conservation, crop physiology and soil fertility. Individuals interested in any aspect of dryland agriculture will find this monograph to be an excellent reference.

Advance payment and 75¢ per book required on all orders outside the United States. Send your order to: ASA, CSSA, SSSA Headquarters Office, Attn. Book Order Department, 677 South Segoe Road, Madison, WI 53711.

