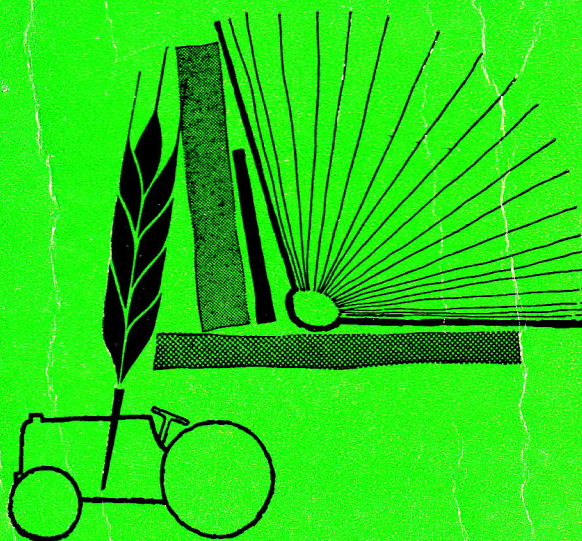


2006/119

1963

# The Student



Registered at G.P.O. Adelaide  
for transmission by post as a periodical.



# Agricultural College

ROSEWORTHY, SOUTH AUSTRALIA

## MINISTERIAL HEAD:

THE HON. MINISTER OF AGRICULTURE (D. N. Brookman, M.P.)

## ADMINISTRATIVE STAFF:

### Principal:

R. I. HERRIOT, B.Ag.Sc.

### Housemaster:

E. H. HIDDLE, A.U.A. (Com.)

### Secretary/Accountant:

B. C. PHILP

### Office Staff:

A. T. Footer, R. H. Back, B. W. Attwood.  
Miss R. J. Weaver, Miss W. K. Simpson.

## INSTRUCTIONAL STAFF:

### Agriculture:

Senior Lecturer and Agronomist: M. V. BURTON, B.Ag.Sc.  
Farm Superintendent: R. S. NORTON, R.D.A.  
Assistant Farm Superintendent: G. K. WOODROFFE, R.D.A.

### Animal Husbandry:

Senior Lecturer in Animal Husbandry: VACANT.  
Veterinary Officer: G. T. FRENCH, B.V.Sc.  
Research Officer: D. HEATON-HARRIS, B.Sc. (ag).  
Instructor in Sheep Husbandry: C. W. HOOPER, R.D.A.  
Project Officer in Sheep Husbandry: W. R. HACK, R.D.A.  
Instructor in Dairying: VACANT.  
Assistant Instructor in Dairying: G. R. NORMAN, R.D.D.  
Poultry Superintendent: H. V. STEPHEN, R.D.A.  
Senior Technical Officer: R. E. BRADY.  
Technical Officer: J. WOOD.

### Economics:

Senior Lecturer in Rural Economics: K. B. LESKE, B.Ag.Sc.

### Farm Engineering:

Senior Lecturer in Farm Engineering: G. R. QUICK, B.E., Dip. M.E.  
Instructor in Farm Engineering: J. R. BURRELL, A.M.I.E.T.  
Workshop Superintendent and Instructor in Farm Engineering: D. SUTCLIFFE, A.M.I.A.A.E.

### Horticulture:

Instructor in Horticulture: VACANT.  
Assistant Instructor in Horticulture: D. N. M. HUTCHINS, R.D.A.

### Plant Breeding:

Plant Breeder and Lecturer in Agriculture: M. R. KRAUSE, B.Ag.Sc., R.D.A.  
Assistant Plant Breeder: G. J. HOLLAMBY, B.Ag.Sc.  
Pure Seed Officer: R. J. FORD, R.D.A.

### Science:

Senior Lecturer in Science: VACANT.  
Oenologist: R. GUY, R.D.Oen.  
Biologist: D. R. WOODRUFF, B.Sc.  
Chemist: VACANT.  
Microbiologist: VACANT.  
Technical Officer: B. M. DRIESENER.  
Visiting Instructors in Woolclassing:  
C. SMITH  
M. ABEL

### Librarian:

B. H. V. EVANS, M.C.



Editor

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# The Student

## Editorial

Is it time students had more say in their affairs? Are they willing to develop a more mature outlook in their general behaviour and to accept their share of responsibility when it is required?

Arrangements for the Canteen to be run by the student-body in 1964 is a step in this direction. The S.R.C., in obtaining this privilege, indicates the wish of thinking students for more authority and responsibility to induce more self-reliance in their domestic affairs. Without a willing acceptance of responsibility by **all**, however, these privileges cannot be granted, and administration by students in this college is considered a bad risk. Our past, somewhat childish outlook on college life, should be discontinued, and we should demonstrate by our behaviour that we are not as irresponsible as we appear. Let us get away once and for all from the necessity of this continuous staff supervision akin to junior schools. Let us take the responsibility upon ourselves for our behaviour—our dress, our leave, our study period and a host of other things, and prove that this College is a place for young men, not a school for unruly, shallow-thinking adolescents.

Greater student responsibility would mean less regimentation, less restriction and better understanding between staff and students.

We know that this is the wish of the Staff. The student-body must show that they have the leaders, who have the backing of all students, to implement a new order. Your loyalty to, and support of the S.R.C. in these endeavours, can be the deciding factor, and would lift Roseworthy College to a position of higher estimation by every right thinking adult.

### MAGAZINE COMMITTEE

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Editor:

M. Milne

Sub-Editors:

G. Paltridge

R. Murray

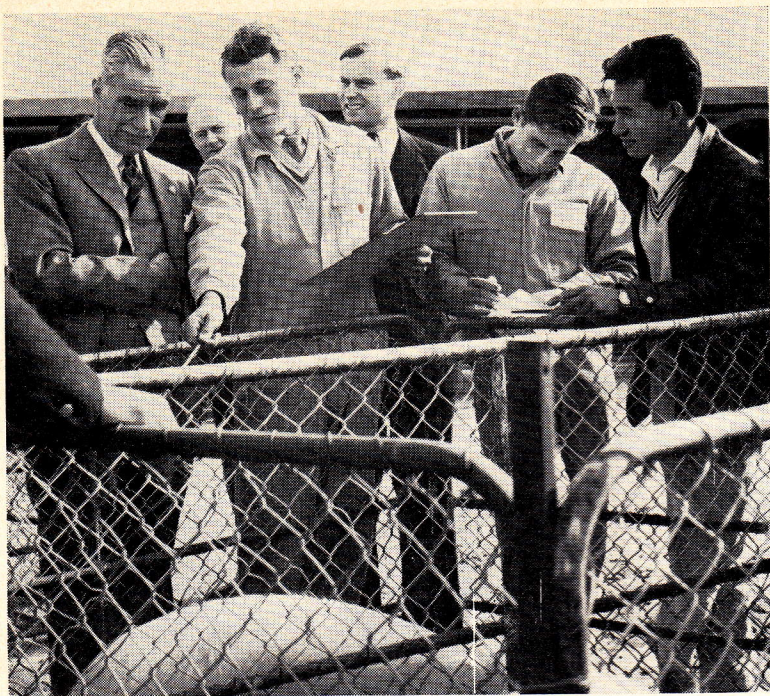
J. Townsend

P. Saint

### MAGAZINE LAYOUT

Miss A. Eland





## Visit by His Excellency Sir Edric Bastyan on 9/7/63

In the week prior to the visit of His Excellency Sir Edric Bastyan, there was the usual atmosphere of resignation to the clean up operations to present the college at its best.

With the charm and friendliness, for which he has become so popular, Sir Edric soon made the efforts of any of us seem scarcely worthy of him. Any nervousness by staff and student alike was soon dispelled by the keen interest Sir Edric displayed, showing that he was well aware of agricultural problems. The time each group spent with him was felt to be all too short.

By dining with the principal at a normal mid-day meal and delivering a very brief address, the informality of his visit was emphasised.

The story of the advice he gave students to mutter "rhubarb, rhubarb, rhubarb . . ." when being photographed with them after lunch will be remembered by many in later years as typifying his sense of humour, friendliness and understanding.

His Excellency has expressed his desire to return to the College at a later date, to pursue an interest he has in plant breeding. The college, to a man, sincerely hope he does.

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## Roseworthy Speech day, 1963

After a little over 12 months as the Principal of Roseworthy, Mr. R. I. Herriot had much to report.

The past year, he pointed out, was given to improving living conditions and teaching facilities, and acknowledgement was due to the Minister of Agriculture (Mr. Brookman) and the Director of the Public Buildings Dept. (Mr. Slade) for their "tremendous support."

Immediately after Easter it was expected that most of the old furniture would be replaced, the old corridor block remodelled and refurnished, student common rooms refurnished and the kitchen modernised. In the library, apart from refurnishing, an extensive re-stocking programme has been under way. All books came under careful review, and several hundred outdated copies discarded.

These improvements are all aimed at raising the standard of living conditions to that of university residential colleges.

Reporting on the various sections, Mr. Herriot mentioned how the Animal Production Laboratory had been handicapped by the resignation of Mr. K. J. Hutchinson, who joined the staff of C.S.I.R.O., Armidale, N.S.W. However, the fleece testing, in association with the Department of Agriculture, the Merino selection experiment and a survey of seasonal wool production in different areas, was being carried out.

In Plant Breeding, an enlarged wheat improvement programme was commenced and plots for testing hybrids are now grown at Stow, Farrell Flat and Palmer, as well as at college.

On the farm, the 1962-63 season looked very grim in September, but rain in October altered things considerably, and yields ended only a little below average.

At the dairy the first heifers from AI, commenced in 1959, are in production, and the official herd test for 38 cows is 7,437 lb. milk and 407 lb. fat per cow.

Of the graduating students, the Principal made specific reference to "Nick" Hutchins, who graduated with second class honours, won the gold medal, plus five other prizes, and gained the coveted Gramp Hardy Smith Memorial Prize. The Third Years had worked for three months on a project requiring them to explain the finance of a known farm for the past two seasons. The results were varied, but the benefits to all were substantial.

On anticipated entrants, Mr. Herriot pointed out that a sound secondary education is necessary, and although the basic qualification is the Intermediate, including Maths, Physics and Chemistry, the incoming First Year had an average of  $4\frac{1}{2}$  subjects in their Leaving.

by the Director of the S.A. Institute of Diplomas and prizes were presented Technology, Dr. S. I. Evans.



# Diploma List, 1963

## In Order of Merit

- 988 DAVID NICHOLAS MACDONALD HUTCHINS with Second Class Honours.  
 989 DENNIS MAXWELL BOWDEN with Second Class Honours.  
 990 CHRISTOPHER SCOTT HEYSEN with Second Class Honours.  
 991 TREVOR DOUGLAS JOYCE.  
 992 TREVOR JOHN WILLISON.  
 993 BRIAN MAX SCHAFFER.  
 994 ROBERT GEORGE RYAN.  
 995 JACK FREDERICK WOODHOUSE.  
 996 PETER ANTHONY EDWARD ELLIS  
 997 NOEL CAMPBELL MYERS.  
 998 GRAHAM MURRAY DOUGLAS WISHART.  
 999 JAMES HENRY WIESE.  
 1000 WARWICK REGINALD HACK.  
 1001 VICTOR JOHN PATRICK.  
 1002 ROY HENRY DRIVER.  
 1003 HAMISH ALEXANDER ELDER GOSSE.  
 1004 MICHAEL HOWARD HARWOOD.  
 1005 JOHN JAMES DAVID HOOD.  
 1006 PETER MACK BRECHIN.  
 1007 NICHOLAS MALCOLM BROOKS.

## GRAMP, HARDY, SMITH MEMORIAL PRIZE

D. N. M. HUTCHINS

## OENOLOGY DIPLOMA LIST 1963

### In Order of Merit

- 70 COLIN HAYWARD KAY with Second Class Honours.  
 71 GEOFFREY PHILIP RENNER with Second Class Honours.  
 72 IAN BOYD MACRAE with Second Class Honours.  
 73 ROBERT MAXWELL JENKE.  
 74 PHILIP LESLIE LAFFER.

### PRIZE LIST

## OENOLOGY DIPLOMA STUDENTS

**Gold Medal** (presented by the late Mr. Leo Buring for the highest aggregate in all diploma subjects): C. H. KAY.

**Tasting** (presented by Adelaide Motors Ltd., in memory of the late Mr. R. H. Martin): P. L. LAFFER.

**Practical Examinations** (presented by the Wine and Brandy Producers' Association of Sth. Aust. Inc.): C. H. KAY.

## FIRST YEAR

**Dux** (presented by the Wine and Brandy Producers' Association of Sth. Aust. Inc.): C. R. HANCOCK.

**Principles and Practice of Winemaking** (presented by the Wine and Brandy Producers' Association of Sth. Aust. Inc.): C. R. HANCOCK.

## PRIZE LIST - YEAR 1963

### THIRD YEAR STUDENTS

**Gold Medal** (presented by the Royal Agricultural and Horticultural Society for the highest aggregate in all diploma subjects): D. N. M. HUTCHINS.

**Old Students' Cup and Prize** (presented by Roseworthy Old Collegians' Association for the second aggregate in all diploma subjects): D. M. BOWDEN.

**Outside Work** (presented by the Albert Molineux Memorial Trust): R. N. PEDERSON.

**Practical Examinations** (presented by the members of the Advisory Board of Agriculture): D. N. M. HUTCHINS.

**Morphett Prize in Dairying** (bequeathed by the late Mr. A. H. Morphett): T. D. JOYCE.

**The Haselgrove Prize in Horticulture** (presented by the late Mr. C. F. Haselgrove): D. N. M. HUTCHINS.

**Agriculture** (presented by Dr. R. N. McCulloch): D. N. M. HUTCHINS.

**The Most Efficient Operator of Farm Machinery** (presented by the Director of Agriculture): D. M. BOWDEN.

**Prize for Practical Farm Engineering** (presented by Caltex Oil (Aust.) Pty. Ltd.): J. J. D. HOOD.

**Sheep Husbandry** (presented by Mr. W. S. Kelly): D. N. M. HUTCHINS.

**Rudi Buring Prize for Practical Horticulture:** D. N. M. HUTCHINS.

**The D. A. Lyall Memorial Prize for the best kept Dairy:** D. M. BOWDEN.

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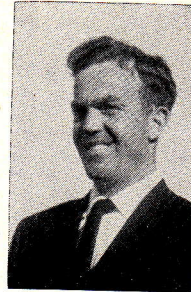
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# Dux of Agriculture



## - D. N. M. Hutchins

"Nick" was educated at Fettes College, Edinburgh. In 1949, at the age of 16, he left school and settled on the land near Ulverstone on the north-west coast of Tasmania. For 11 years he helped run this property, the main activities of which were fat lambs, dairying, potato and pea growing. In addition, he took a keen interest in Junior Farmers' Club activities, being a member of the Tasmanian State Council and the Australian Council of Young Farmers.

On his entry into college, he showed his ability by attaining the top position, with first class honours in First Year and maintaining it during the three years. The esteem in which he was held by both staff and students was evident in his three years in the Student Council, and particularly so in his final year as Chairman.

With a bent for horticulture, Nick was persuaded on graduation to remain as Assistant Horticulturist, and therefore his talents are not lost to the college as yet.

### SECOND YEAR STUDENTS

**Dux of Year** (presented by the Gawler Agricultural, Horticultural and Floricultural Society): P. R. LETHEBY.

**The W. J. Colebatch Memorial Prize:** A. G. SUMMERS.

**Second Aggregate Prize** (presented by the College): R. A. MURRAY.

**The Shell Prize** (presented by the Shell Co. of Australia Ltd.): I. M. HOLMAN.

**Agriculture** (presented by the Principal): P. R. LETHEBY.

**The T. G. H. Buring Prize in Horticulture:** G. A. PALTRIDGE.

**The H. Wyndham Brown Prize** (presented by the late Mr. H. Wyndham-Brown for the highest aggregate in basic science subjects): P. R. LETHEBY.

**Outside Work** (presented by the Albert Moli-neux Memorial Trust): J. L. KALLIN.

### FIRST YEAR STUDENTS

**Dux of Year** (Bronze Medal): R. M. BROWN.

**Second Aggregate Prize** (presented by the College): W. J. MCGOWAN.

**Outside Work:** (presented by the Albert Moli-neux Memorial Trust): R. M. BROWN.

**Agriculture** (presented by the College): R. M. BROWN.

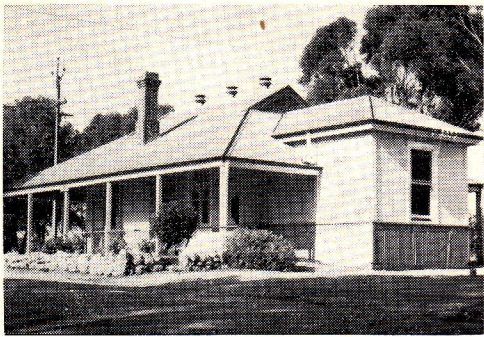
### UNCLASSIFIED R.D.A. LIST

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1957	874	RAISON, C. J. R.
	875	SCALES, D. W.
	876	WALLACE, L.
1958	902	RICE, D. G.
	903	HALL, R. J.
	904	MARTIN, G. J.
1959	930	BEACH, A. N.
	931	PAECH, G. L.
	932	BARTLAM, J. W. D.
	933	WOODWARD, J. M. T.
	934	RADFORD, R. W.
	935	TAN, S. L.
	936	EVANS, R. K.
1960	961	BROCKSOPE, D. J.
	962	LAFFER, P. L.
	963	SHIPARD, J. J.
1961	981	LEWIS, I. P.
	982	COWAN, B. A.
	983	BOWERING, J. W. R.
	984	REBBECK, J. R. E.
	985	SEPPELT, M. J.
	986	MENALLY, E. C.
	987	WEST, P. B.



# 50 Years of Cereal Improvement at Roseworthy



The chief object of this college is to train young men in the theory and practice of the various rural industries of S.A., and give a balanced training to students anxious to follow a rural vocation. However, one section of the college divorced somewhat from the routine of student training is that engaged in cereal breeding work.

Since early this century this has been an important phase of college activity, and the work has become well known throughout the State.

The present officer-in-charge of this section, Mr. M. R. Krause, reviews some of the work and achievements of the past, discusses the present programme which has recently been expanded, and attempts to predict some future trends.

## INTRODUCTION

No treatise on cereal breeding would be complete without reference to William Farrer, whose work in the field of wheat improvement, which began some 75 years ago, not only resulted in the release of varieties which enabled a rapid westward extension of the wheat belt in N.S.W., but it laid the foundation and gave the stimulus for other States to focus attention on this work and encourage their own programmes.

Roseworthy College was soon to figure in some of the earliest work to be done in S.A. The names of W. J. Spafford and later R. C. Scott, loom large in the history of wheat breeding in S.A. As early as 1912, Spafford named two varieties resulting from a hybridisation programme, viz., CALIPH and DAPHNE, whilst several selections from existing varieties, e.g., Bearded and Late Gluyas, were named before this. A good many others followed, among the better known being Sultan (1913), Ford (1916), Felix (1917), and Dan (1919). The release of Ford—crossed by Spafford, but selected by Scott, represented a milestone, insofar as it was destined to become an important wheat throughout Australia, particularly in N.S.W.

Sword, released by Scott in 1923, became the first of the well known "weapon" series of varieties, although other non-weapon named varieties were released before Rapiet was named in 1939.

It is interesting to note that over 70 varieties have been released from Roseworthy College, but only eight since 1930. In the early years, it was not unusual to name several new varieties in one year—e.g., six were named in 1913, seven in 1919, and so on. Furthermore, varieties were often named and released only four years after hybridisation. This meant that the new variety was not fully fixed and certainly not fully tested, and this is the probable reason why so many of these early releases were never widely grown.

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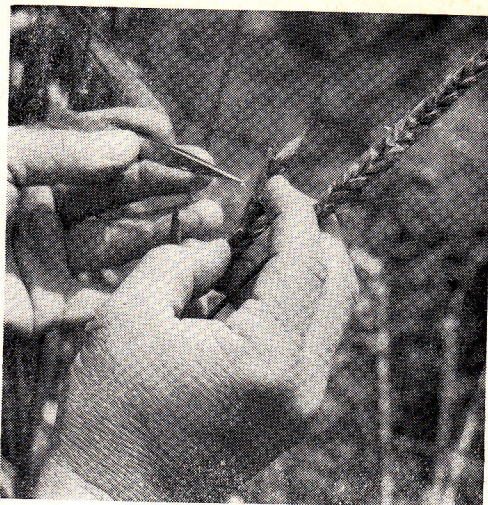
T. A. Cole succeeded R. C. Scott in 1927, and then the early 1930's ushered in a new era in wheat breeding at Roseworthy. E. J. Breakwell began a successful term as Plant Breeder under the direction of Dr. A. R. Callaghan (Principal), also trained and interested in cereal improvement. Breakwell was assisted later by E. M. Hutton. Whilst not overlooking the possibility of developing improved types by means of selection from existent varieties, the emphasis was placed very strongly on the pedigree method of cross breeding for the development of improved types.

Furthermore, added emphasis was placed on baking quality as an important attribute of a variety. This was in response to a cry from those responsible for the marketing and utilisation of wheat. Callaghan, in an article published in July, 1933, stated: "The avowed object of the wheat breeding programme at Roseworthy succinctly stated therefore, is to combine yield with the attributes of disease resistance, **good quality**, strong straw and non-shattering qualities in the one variety." That this policy was diligently pursued is evident from the series of good quality "weapon" wheats which were released in the early 1940's—e.g., Scimitar, Javelin and Dirk.

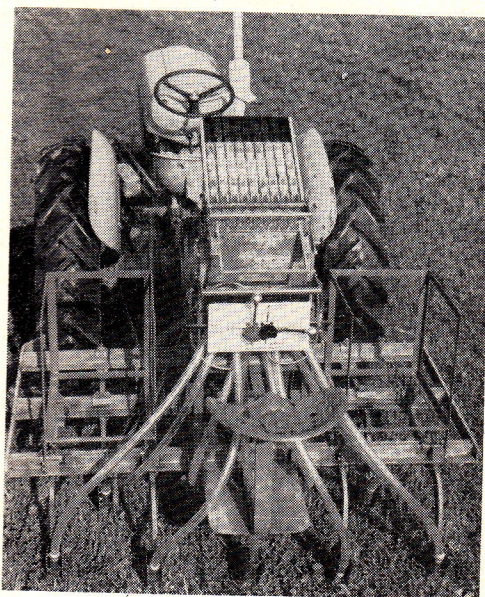
J. V. Mertin served a brief term as Assistant Plant Breeder in 1946-8, in which he initiated an oat breeding programme referred to later. E. J. Breakwell's successor, Dr. A. J. Millington, continued the breeding work on similar lines from late 1947 until 1949, and the writer has directed the programme since that time, assisted by Mr. G. J. Hollamby since 1961. Sabre in 1952, and Claymore in 1956 represent the last two releases from Roseworthy in which the objectives of combining good yield with good baking quality, were still the major consideration.

Just how much Roseworthy-bred wheats have contributed to wheat production in South Australia is hard to assess.

It is true that they have been included in the top bracket of most widely grown



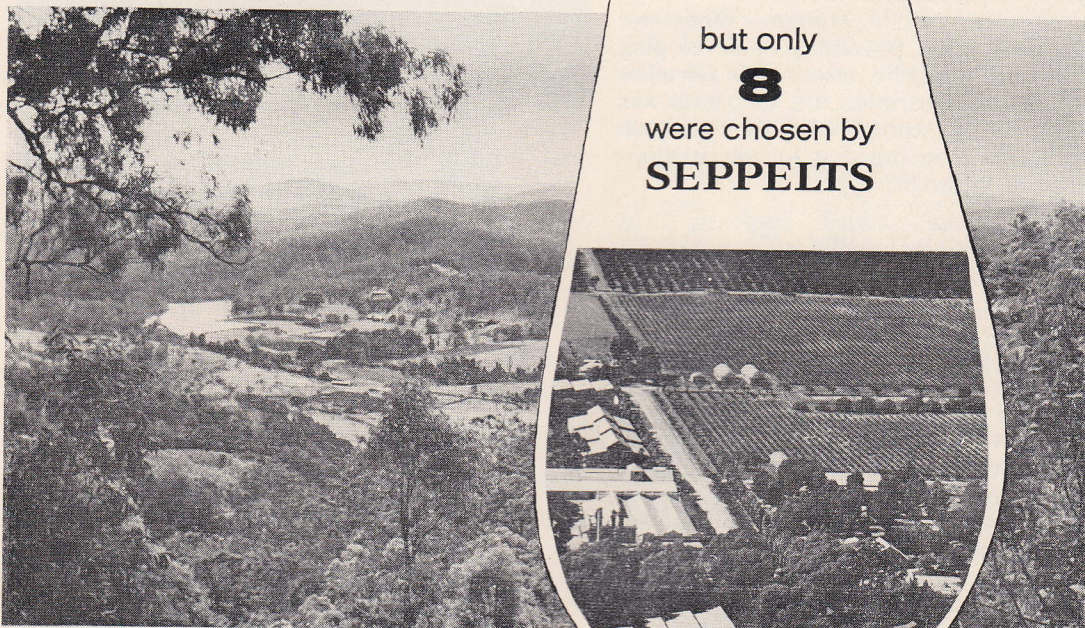
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Australia! **2,974,581** square miles of it!



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# NEW

more with the **A-554**



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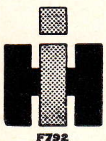
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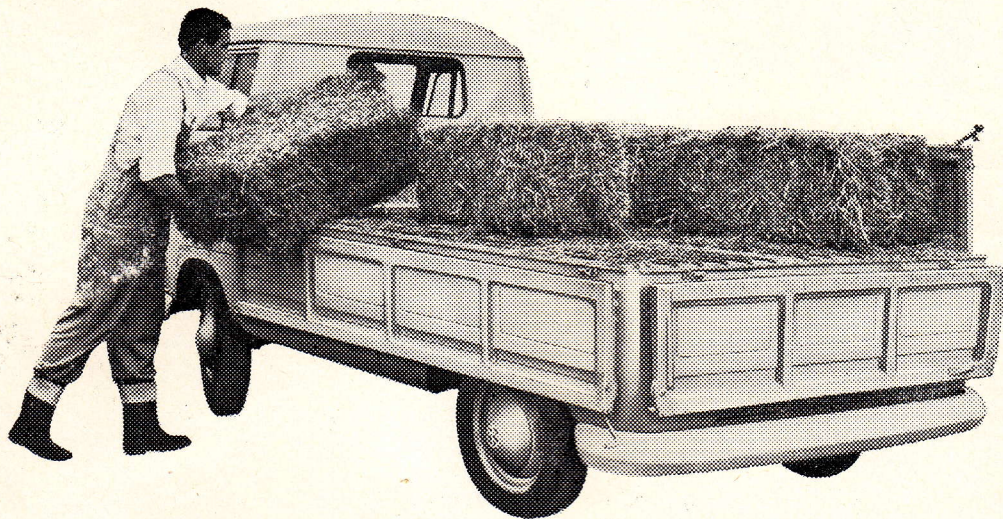
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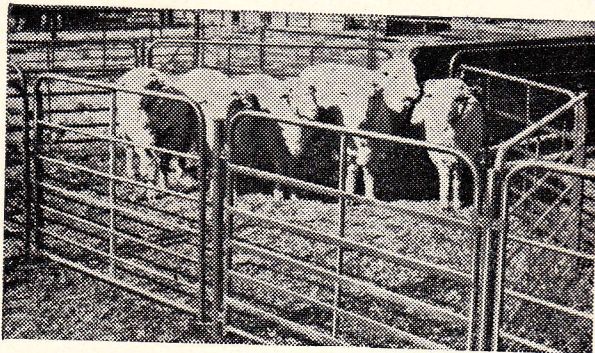


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varieties for almost half a century. During this time the State's average yield per acre has almost doubled from 9.2 b.p.a. for the 10 year period ended 1910 to 18.3 b.p.a. for the 10 year period ended 1960, and the quality of the crop has improved immeasurably.

Mechanisation of the industry, the use of superphosphate, legumes and improved farming techniques, have all contributed to increased yields, but without the release of high yielding, early maturing, agronomically sound varieties with some degree of drought and disease resistance, the full benefits of these improvements would not have been realised.

### THE PRESENT PROGRAMME

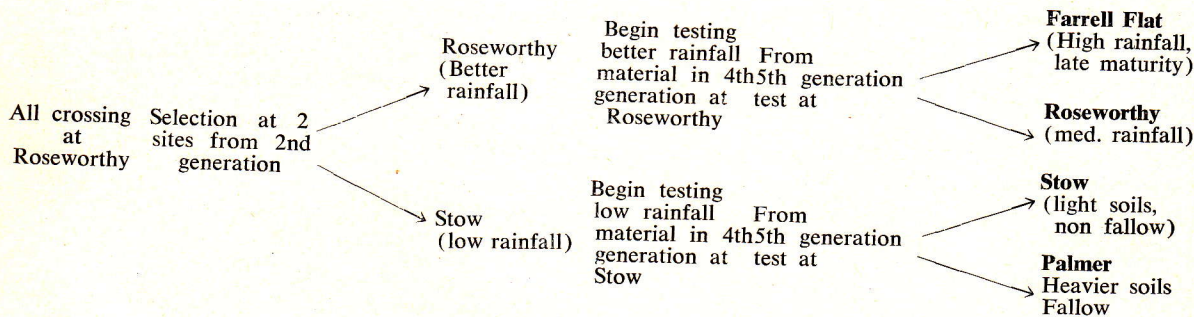
The present era of cereal breeding work may conveniently be said to have begun with the passing of the Wheat Industry Research Act of 1957. From this time the industry has financially supported wheat research in Australia, making an expanded programme possible.

That same year saw the successful introduction of a simple system of wheat segregation in S.A., and this, too, has had

some bearing on the wheat improvement programme.

Wheat is grown over a wide range of environmental conditions in S.A., and a variety must be highly adaptable to suit all conditions.

It was felt that the breeding programme was being carried out in a somewhat restricted environment, with all selections and early testing being confined to Roseworthy. It is true that promising crossbreds were later tested in at least one dry area site, and finally more widely tried the Departmental trials, but material was being selected under Roseworthy conditions, and only those promising in this environment were being retained. Therefore, a second selection and testing site was chosen at Stow, 10 miles north of Balaklava, where the rainfall is only slightly over 13 inches, and the soil a light sandy type. Here, potential dry area material will be tested from an early stage, and actual selection work will take place with the object of selecting types within the environment in which they might ultimately be grown. So the programme becomes a double barrelled one, perhaps most simply described diagrammatically as follows:



Crossing work is all done at Roseworthy, but some crosses are made with drought resistance and early maturity for example as major considerations. The F2 generations are grown at one site or other, or more often divided between the two sites. Selection takes place in two environments.

With improved plot handling equipment, testing of selected material will be-

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gin at each site in the fourth generation. Culling will be heavy, and from the fifth generation the Stow plots will be duplicated at Palmer where rainfall is similar, but soils somewhat heavier and following a regular practice.

Much of the Roseworthy material will be duplicated at Farrell Flat, a late district where rainfall is higher and soils heavier than at Roseworthy.

This programme was only put into effect in 1961 with the appointment of Mr. Hollamby, who is making the development of varieties for the lower rainfall areas his chief concern. The Department of Chemistry, also benefiting from wheat industry funds, has undertaken a more intensive quality testing programme of all crossbreds, which includes protein analysis from the F3, farinograph and extensograph testing of all junior crossbreds, and actual baking tests on senior material as well.

Over all then, it will be possible to assess developing crossbreds both for yield and quality more quickly and more accurately.

Might we summarise our present wheat improvement work broadly and briefly as follows: The aim is to produce high yielding adaptable varieties, combining high protein content with a medium to medium-strong, well balanced flour, and free of mottling tendencies, resistant to flag smut, preferably with some resistance to stem rust, and agronomically sound. Specific modifications such as early maturity and drought resistance for the lower rainfall areas, and the possibility of high yielding softer varieties for the better districts are being considered.

Whilst the above programme is developing, many crossbreds from previous work are being widely tried, and the early release of another "weapon" variety is confidently predicted. Foremost among the probables are RAC 456 (Sabre x Insignia 49), an early high yielding Insignia type, but with a white chaff and medium-strong flour. RAC 414 (Gabo (Rapier x Dundee x Kenya) x Dirk 48, another early high

yielding, adaptable variety, with an excellent well balanced medium-strong flour, and RAC 382, which incorporates Gabo, Dundee and Bencubbin and other varieties in its parentage, a mid-season, medium quality variety with outstanding promise for the low rainfall areas.

### ATTENTION TO OATS

In comparison to wheat, the attention given to oats improvement at Roseworthy has been scant. J. V. Mertin began an extensive programme in 1946. This work has been carried on and intensified in the last few years. Although no new varieties have as yet emerged from this programme, many promising lines are under test.

Not only have oat acreages increased from some 200,000 acres in the 1920's to 907,000 in 1960, but the role of oats in S.A. agriculture has changed, and with this the requirements of varieties. For example, the use of oats sown primarily for grazing has increased considerably. The recently publicised "standing oat crop," as a means of fodder conservation, would appear to have a definite future, whilst the use of oats for hay is declining.

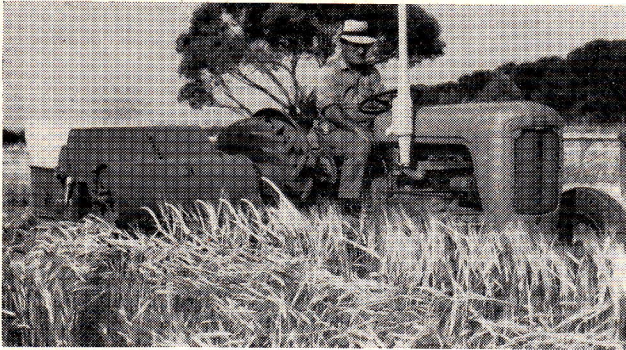
The testing of developing crossbreds is designed to test all of the features required for the above, e.g., early vigour, free tillering, good recovery from grazing, a relatively strong straw, and a firmly held grain. The grain should be medium-large, cream coloured, awnless with a thin husk, to meet the requirements of the milling trade, and satisfy potential export markets, as well as the farmer himself.

To incorporate all these desirable features into one variety may yet prove well-nigh impossible, and the future might see varieties developed to meet specific purposes.

### PURE SEED PRODUCTION

This has been an important aspect of cereal production at Roseworthy for a long time, but it has perhaps never been so closely associated with the cereal





Recently designed and built at College for small plot harvesting

breeding section. However, the maintenance of purity and type within cereal varieties should be the responsibility of the breeder, particularly if he bred the variety in question. The pure seed programme is now on a sound basis, particularly since the S.A. Wheat Industry Research Committee approved the appointment of a full time Pure Seed Officer in 1958, whose responsibility is to supervise all stages of production, plus the grading and distribution of seed from the College. Mr. R. J. Ford at present occupies this position, and he works in conjunction with the section, his work being supervised by the Plant Breeder.

With increased appreciation of the value of good seed, and the reputation College seed has built up, demand has been good in recent seasons.

Furthermore, College supplies much of the elite seed to registered farmers, a recent scheme sponsored and supervised by the Department of Agriculture.

With the active efforts of the S.A. Wheat Quality Committee encouraging the growth of only a limited number of recommended varieties and the use of good seed, this phase of the section's

activities promises to play an increasingly important role.

## WHAT OF THE FUTURE?

The task of the wheat breeder is growing more difficult, as he is dealing with material that has already been vastly improved, and substantial gains within existing types appears unlikely. For this reason, new gene material is being introduced by the use of recent foreign varieties, in the hope that more significant improvement can be made, whilst new breeding techniques, such as the use of artificially induced mutations, are being explored.

The field of disease resistance presents an almost continual challenge, and moreover, changing market demands and rising fertility in our soils, both present the wheat breeder with immediate tasks. Not only is there a large range of different types of bread, but the demand for flour suitable for biscuits, cakes, noodles, macaroni, and so on, is rising, and the wheat breeder is already being asked about varieties suitable for one or other of these uses. On the question of rising fertility from the new farming system based on clover-leys, the development of varieties which will most efficiently utilise this increased fertility, is an immediate need.

Looking further into the future, it seems possible from American reports that a "dwarf" or "semi-dwarf" type of wheat which produces a high proportion of grain to straw and is claimed to give outstanding yields, may one day dominate the wheat scene. Even a **hybrid wheat**, using one male sterile parent, and so to cash in on hybrid vigour so effectively exploited in maize and latterly in grain sorghum, may soon apply to wheat also.

So the work of the wheat breeder is obviously far from finished. The future has its problems and its possibilities, and in some respects quite exciting possibilities. It is to be hoped that Roseworthy College can continue to play its part in this field for the benefit of the wheat growers of South Australia.

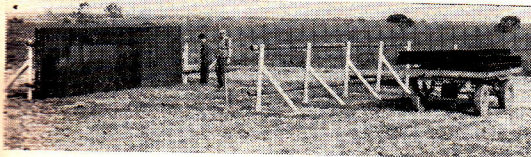
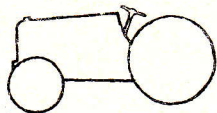


120-ton silo from old



# Farm diary

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120-ton silage bunker. One of three designed from old water pipe and Army hut flooring

The 1962 season redeemed itself just when it appeared that some late barley would have to be grazed off. The year ended with some excellent individual paddock yields and average yields of wheat 21 bushels, barley 35 bushels, oats 20 bushels. The best wheat yield, Olympic, 33.5 bushels, oats, Avon 27.8 bushels and barley, Maltworthy, 43 bushels.

The opening rains this year, as every one knows, were good, the only trouble being that they hardly ceased from commencement. This, combined with heavy soil paddocks to be sown, resulted in a seeding period from June to September. Despite the prolonged seeding, most paddocks were sown under good conditions. However, in some cases, where soursoy control by late cultivation was aimed at, the critical period of initial working was missed, and no control was effected.

Pastures, however, although in many cases weedy, flourished throughout the winter and spring. From the best of this pasture we cut 11,000 bales of excellent meadow hay, and made approximately 400 tons of ensilage in the portable bunkers illustrated. The material used in these came from an old farm water main and the floors from the well-known Re-hab. huts dismantled last year. This bunker method allows easy manufacture of silage and simplifies feeding out.

Re-fencing has continued slowly due to the wet winter, but approximately six miles have been completed since last year.

The renewal of antiquated machinery has continued, particularly with the help of New Holland, who already have a rake and mower on loan, and have also loaned a new model engine function baler and their "Crop Chopper" forage harvester.

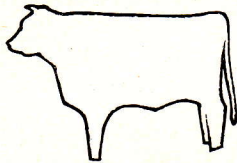
East Bros. have loaned us a pasture topper designed in W.A. which we used extensively this year, and a very good hydraulic harrow beam. John Shearer have also replaced our old "Trashporter" beam with a new model, and Massey Ferguson replaced their 13 tyne scarifier



with a smaller one more suited for vineyard work.

As well as this loan equipment, we have purchased a bulk truck bin, 21 tyne hydraulic cultivator, a seven furrow hydraulic plough and an 18 in. gear drive chain saw.

It is apparent that we will soon overcome this lag in purchase of machinery and will have the type of plant one would expect at a modern agricultural college.

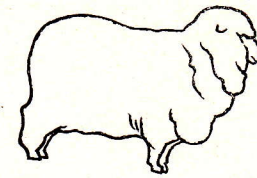
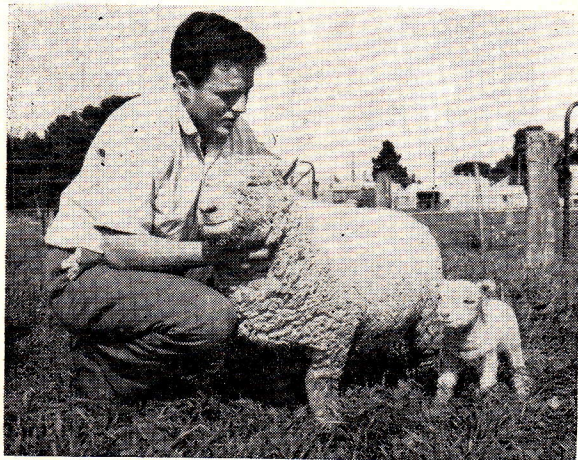


Nos. 30/9/63

Bulls	.....	.....	.....	.....	3
Cows	.....	.....	.....	.....	36
Calves	.....	.....	.....	.....	21
				—	60

For the 1963 mating, two bulls were used—Newbold Blenders Hailstorm and Highbank Viking. The latter bull was loaned by Mr. E. Nicholls, of Auburn, and was bred at the Highbank Stud of Mr. R. I. Browne, N.S.W., being by Glas-tullick Viscount (Imp.) from Oakwood Lavender 27th (P) (Imp. U.S.A.).

The Show team won the Champion finale at Gawler, but at the Royal they only gained a fourth and fifth. Rose-worthy Heroic, the older in the team, was sold for 175 guineas.



Nos.

Merino Ewes	.....	.....	.....	600
Halfbreds	.....	.....	.....	130
Southdown Ewes	.....	.....	.....	65
Rams	.....	.....	.....	224
Merino Weaners	.....	.....	.....	370
Southdown Lambs	.....	.....	.....	42
Rations	.....	.....	.....	156

1,587

In general, lambing percentages were lower than usual due to a larger number of dry ewes. There was a further wastage at the start of Merino lambing, as the drop commenced in the heat prior to the break of the season.

Merinos, 473 mated, 373 tailed, 78.8%  
Halfbreds, 135 mated, 114 tailed, 84.4%  
Southdown, 52 mated, 42 tailed, 80%

Fat lambs did well, despite the excess wet, and the 46 lambs sold in early October made 79/9.

Shearing did not take place until after the Adelaide Show, resulting in a clip of 56 bales against the usual 42. The wool was bulky, soft handling and high yielding, and should sell well.

A team of five Southdown were prepared for the Adelaide Show, and against strong competition gained a third prize in the shorn hogget ram and a second in the four-tooth ewe.



1963 has seen the building of 36 small pens to house 12-15 birds per pen, and the erection of a 312-bird cage unit using single and double cages as was planned in the 1962 "Student." This is the end

Two of the Southdown show team



of the present expansion programme, but other facilities will be improved as time goes on.

The rearing yard capacity is being stretched by the 2,000 odd chicks being reared at present.

With the increase in numbers, egg production has risen, and for the year ending 30/6/63, 24,439 dozen eggs were produced. An egg washing machine loaned to the College has been greatly appreciated (Third Years have even been doing the eggs), and a similar machine will be purchased.

These are some problems being investigated by the Department of Agriculture:

- 1—Poor egg shell, quality and shape.
- 2—A deficiency in the chicken feed.
- 3—Low fertility in the College batch.



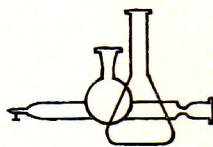
From the yield point of view, the past season has not been a good one. The total yield of apricots was 162 bushels, or  $4\frac{1}{2}$  tons per acre, which can be considered a fairly satisfactory yield under Roseworthy conditions. The pears in V. & O.E. yielded 94 bushels, or just over two tons per acre. These were very badly infected with codlin moth, and the yield would have been closer to four tons per acre if this pest had been controlled. This would have also been a satisfactory yield under Roseworthy conditions, particularly in V. & O.E., which has a very heavy and shallow soil. The yields of vines were very poor, averaging only a little over half a ton per acre. This was almost entirely due to the dry conditions by contrast with the overall yield of grapes. The yield from the irrigated vineyards averaged almost exactly two tons per acre. While this is not a very good yield under irrigation, it certainly

does demonstrate the value of irrigation. The yields of citrus were very poor indeed. This would appear to be due to adverse conditions at flowering.

During the year considerable trouble was experienced with salt damage on fruit trees, particularly stone fruit. Several of the young peaches were killed, and damage to the apricots was quite severe. This was due to the irrigation practice of applying only sufficient water to wet the root zone. To combat this problem, sufficient water will have to be applied to leach the salt accumulation below the root zone.

In addition, the use of low throw sprinklers will keep the water off the foliage.

During the year, considerable use was made of weedicides for "under-vine" weed control, the results being mainly satisfactory. Materials used were Atrazine, Verox A.A. and Diuron.



For the Animal Production Laboratory, 1963 has been a year of staff changes, resulting in occasional awkward problems. As explained in the 1962 issue of the magazine, the departure of Mr. K. J. Hutchinson, Senior Lecturer in Animal Husbandry and officer in charge of this laboratory since 1956, was imminent. Mr. Hutchinson did, in fact, leave the College on 27th December, 1962, to begin work with the C.S.I.R.O. Division of Animal Physiology at Armidale, N.S.W. From accounts received, both he and his family have settled happily into their new environment.

On Mr. Hutchinson's departure, Mr. French became Acting Officer in Charge, and has now served in that capacity for nearly 12 months. Mr. Hutchinson's former position has not yet been filled.



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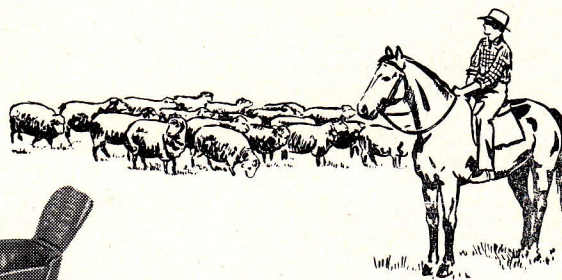
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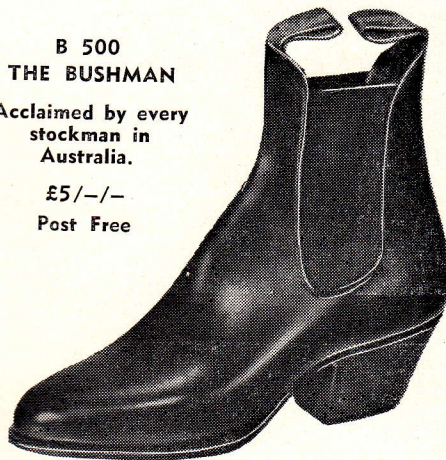
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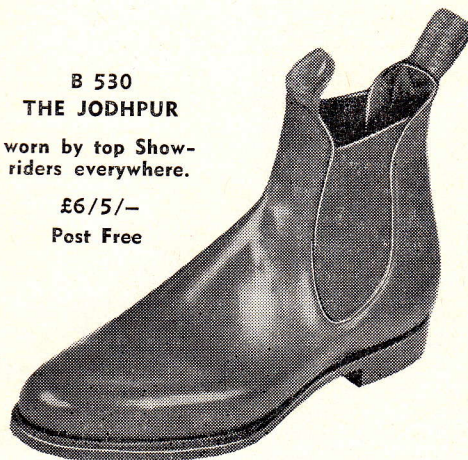
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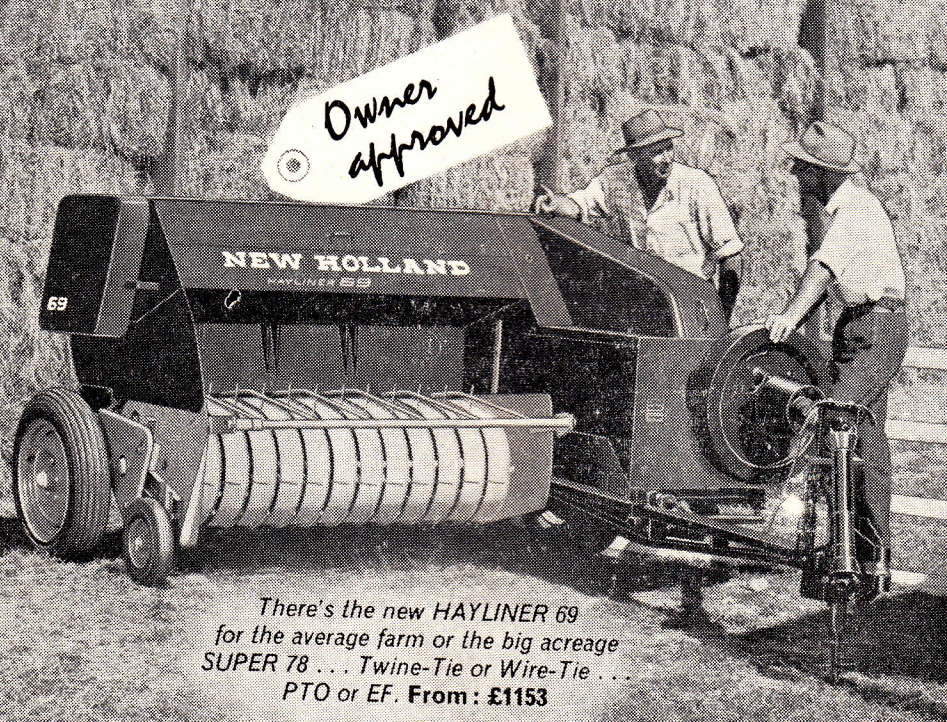
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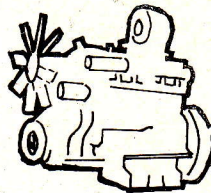
The position was eased somewhat on 24th June, 1963, when Mr. D. Heaton-Harris was temporarily appointed to the position of Research Officer (Sheep and Wool Biology), which had been vacant since the departure of Mr. A. D. Carey on 16th March, 1962. Mr. Heaton-Harris has been giving the Nutrition and Breeding lectures, formerly given to R.D.A. III students by Mr. Hutchinson.

Despite these staff crises, the Animal Production Laboratory has continued to fulfil its teaching commitments, provide the usual fleece testing service to South Australian Merino Studs and to collect and record data in connection with the Merino Selection experiment. The regional survey of wool growth has continued, although we are unfortunately very much behind in the processing of the monthly harvests from tattooed patches.

The Histology section has this year accepted and begun, or completed, a number of new projects in addition to the usual Merino skin histological assistance for various persons working towards higher degrees, processing of material submitted by both the Department of Agriculture and the Waite Agricultural Research Institute and preparation of class material for the revised Biology course.

The recent appointment of a Professor of Physiology at the Waite Agricultural Research Institute could well be a prelude to a gradual withdrawal of University teaching in Animal Husbandry from this laboratory. This loss of contact with the Faculty of Agriculture is an unfortunate thing, but apparently inevitable.

All long standing staff members were very sorry to learn of the untimely death, early in 1963, of an outstanding Old Collegian, Mr. P. G. Schinckel, who was the first Officer in Charge appointed to the Animal Production Laboratory. Our sincere sympathy and deepest regrets are extended to Mr. Schinckel's family.



The Sections activities are concentrated in the following directions: (a) Lecturing, instructing and demonstrating to the Diploma and University students; (b) workshop maintenance, repair and servicing; (c) building maintenance, construction and farm building services; and (d) research and development of new equipment.

Some modifications to give more depth to the instruction given in F.E. have included bringing more theory into First Year and subdivision of scheduled practical classes to get more value out of the time spent in developing skill with tools and machinery. In the Third Year, Farm Engineering projects were introduced. Working in pairs:—

Klug & Williams' work was to motorise the old hand-pushed tennis court roller.

Stiller & Gallash pursued their horticultural interests and have built up a portable "giant" irrigator. They are checking its performance along with other sprayheads.

Lawrence & Paltridge are working on two or three pump units, which were very kindly loaned by Metters Ltd.

Letheby & Murray are investigating combine and cultivator share life. They have different makes of shares on trial, but are mainly concerned with the effect of hardsurfacing and chromeplating on extending share life.

Milne & Daniel are carrying out a survey of Mechanisation and Cultivation Practices on neighbouring farms and are receiving excellent co-operation from the local farmers.

Summers & Colbey have erected a "springy" fence with two and three chain spacing between posts, and are evaluating methods of farm fencing.

Pederson is assisting in the layout of an elaborate outdoor hydraulic laboratory

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in which pump, pipe and weir flow characteristics can be tested.

Kallin & Holman are working steadily on a new idea of a hydraulically driven portable wheat auger for emptying the silos.

Finally, Kong & Gamble have been investigating vibratory grain conveyor performance on a six foot model.

When they have finished the project, a report is written up and a ten minute seminar delivered by one of the pair on the work that was done.

The workshop has been involved in a wide variety of work this past year, as well as its routine duties.

Several new tractors and vehicles have been added to the strength. The TD9 crawler seems to take a lot of maintaining, and has had another "C" frame and blade fitted.

The workshop itself has been made a fitter place to work in by careful utilisation of space and modification of services in the shop, but the old shed has really outlived its effectiveness as a workshop.

With Mr. Dick Kneebone as carpenter and all-round man in the building trade, many services have been carried out by the F.E. branch, which now has the responsibility for the farm building work.

A high estimate is placed on the value to the students of working on the building projects which are undertaken—for example, the hammer mill shed and environs have been completed, half a dozen Dryden poultry sheds, toilets, barbecues, garages and a lean-to have been constructed with many yards of concrete laid, including the floor of the F.E. building.

Building maintenance work has been facilitated by the services of Mr. Dowling.

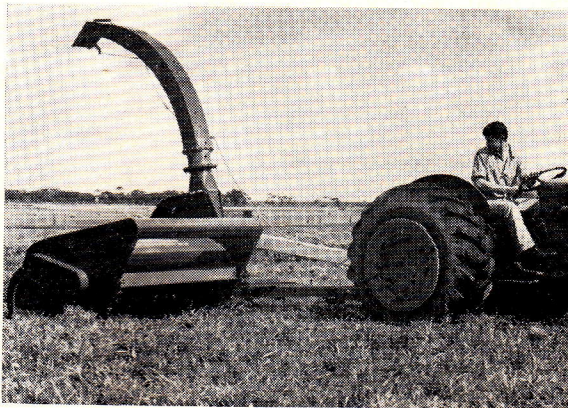
Quite a few items of new equipment have been added and the groundwork is being laid for future research work into several aspects of the science of Agricultural Engineering.

Converting ideas about new machines and inventions "into the metal" taxes the ingenuity of the mechanics, Messrs. Ron Smallwood and Kevin Harrison, to whom this falls. Nevertheless, the plant breeder section now has an efficient tractor-mounted stripper and hydraulic seed-

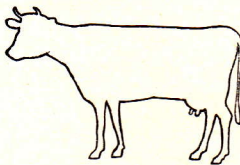
ing machine for its cereal plots. The farm has a 27 foot folding harrow beam (apologies to Shearers).

A bigger job is the mechanisation involved in centrally locating a stock feed milling, mixing and batching plant in the "hammer-mill" shed. One idea for this layout that is of interest is the use of a 65 ft. vibrating trough conveyor for conveying the grain from the silos to the mill. The project model conveyor which was built and tests on it have given impetus to the scheme, which should be in operation by year's end.

Much student interest is stimulated by these diverse activities, and undoubtedly a great deal is achieved outside the lecture room towards the whole educational programme.



Loan Massey and New Holland forager driven by "Stirrup"



Forty-six cows finished their lactations in the last 12 months averaging 6,637 lbs. of milk with a 5.6% test and 373 lbs. of butter fat.

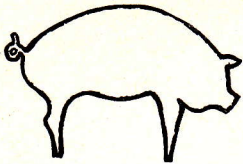
Several purchases of new blood were made, including heifers from the stud of Mr. M. C. Gerrard, of Watervale, and the Lanac Stud of Mr. G. O. Giles, of Mount Compass.



Six heifers were loaned to the Artificial Breeding Board at Northfield to assist them in determining the usefulness of selected sires.

A survey of the causative organisms in abnormal milk was begun early in the year, in conjunction with Mr. Duncan Sherrif, of Med. & Vet. Institute. It is hoped to obtain a knowledge of bacterial flora present in milk before treatment, and to know how successful treatment has been by observing flora present in post treatment samples.

Several silage clamps have been set up relatively close to the dairy, and it is planned to self-feed silage to the 45-50 dairy cows, and so reduce most of the back-breaking work of cutting out and carting.



The fattening pens made last year have been baptised with several groups of pigs in trials, run in conjunction with the Department of Agriculture. These trials investigated a new artificial protein, "Ly-sene." To date information to hand is inconclusive, and further tests will be required.

The progeny of the Landrace-Berkshire cross have been disappointing, and the College plans to replace the Landrace sire with a better class animal.

Two five-month sows and an eight-month-old boar were purchased from the stud of Mr. Colin Lienert, of Sheoak Log. One of the sows was sired by the Western Australian boar Joranda Showman, with which Mr. Lienert has had such success. The development of her progeny will be followed with interest.

A new type of watering unit is being installed in all outside yards. This incorporates an enclosed plastic float which should be more serviceable than the earlier type of watering fountain in use.

## The Ideal Cow

I long for a cow of modern make  
That milks five days for leisure's sake,  
That sleeps on Saturday and rests on  
Sunday

To start again afresh on Monday.

Oh, for a herd beyond suggestion  
Of staggers, bloat or indigestion,  
That never bothers to excite us  
With chills or fevers or mastitis.

I sigh for a new and better breed,  
That takes less grooming and less feed,  
That has the reason, wit and wisdom  
To use a seat and flushing system.

I pray each weekend, long and clear,  
Less work to do from year to year,  
And cows that reach production peak  
All in a five day week.

Oh, why don't the scientific bods,  
Firmly entrenched in their cushy jobs,  
Show these ignorant breeders how  
To propagate a five-day cow.

With all due apologies,  
**BLACK & WHITE.**

## Let's Think of the Bull

Who said "think of the poor old cow;  
From where does she get her fun now?"  
I'm a bull, and from what I see,  
With this A.I., the joke's on me.

Since I left my country home  
Where I was free to mate and roam,  
And come to live in the city proper,  
My life is really far from topper.

Chained up to my swinging hinge,  
At any sign of sexual twinge  
I am let go at a switch,  
They expect a show without a hitch.

Men in white coats roam about,  
Some content to stand and shout,  
Whilst amongst the din and noises,  
I demonstrate my mating poises.

Science has made great advances,  
But mating is a game of chances,  
And though they've tried to treat us  
square,

One thing's missing—a Jersey fair!

Pond'ring on this topic longer  
My views are subject to grow stronger;  
I know my offspring miss their dad,  
And after all, the cow's been had!

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# Graduates of 1963



**BEAU  
COLBEY**

Beau entered college after a secondary education at Unley High, with a Leaving Certificate. His first year at college was noted mainly for his absence at week-ends.

During second year the position changed when the better half went as a governess on a northern station, and only on occasional weekends was he conspicuous by his absence on trips to Pitcairn. Now that he has reached third year he is taking frequent trips to Northfield Mental Hospital. In sport, Beau's only claim to fame is his 505 yacht.

Over the last two years his main interest at college has been in the dairy show stock, which he took to the show in 1962-63. During his stay at college he has been able to keep himself out of trouble with only one notable exception. Beau hopes to go on to University to study Vet. Science.



**BRIAN  
DANIEL**

"Petey" joined us in second year directly from Urrbrae and Unley High. His organising ability and flair for synchronising trips to Adelaide, Waikerie and Kyancutta on the trusty "Harley" or the "Flash" have earned our amused admiration, but at Ball time Brian's transport problems cause him anxious moments, and the eternal question asked

with a somewhat resigned air is, "Who's got a free back seat?"

Danny represented the college at Dookie in the tennis team in II and III Year, in A football and boxing. Other activities include tinkering with the Flash, organising his quarters, expounding the virtues of "the coast," synchronising his watch, and worrying. Petey hopes to return to the home property on the Kyancutta sandhills, and will probably do so if the bikes don't get him first.

## **PETER GALLASCH**

Peter entered college as a unique specimen from the Barossa, and for the first year kept to his room for most of the time. We found out why at the end of that year, for not only did he do well in college exams, but he passed Intermediate Maths as well. He had a nasty experience in First Year, when one of the blind magpies that appear to be peculiar to Roseworthy blundered into yet another window while Gash was retiring on his bed, filling his ear with glass.

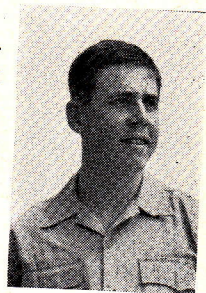
In Second Year he sprang to life, showing prowess at swimming and tennis with irregular forays in B grade football.

In his Third Year he has elected to neglect the animals and study horticulture with Theo. He has a much used Skoda purchased in a shady deal in Second Year, one of the many deals in which he thinks he has done well. On leaving he will probably be a contract two-bud spur pruner in the Valley.

## **ROGER GAMBLE**

Roger hails from Colbinnabin in Victoria, where grow the world's best pastures producing the world's best Border Leicester x Merino x Dorset lamb. At the drop of a hat Gumbool will cover every detail of this phenomenon. He has many challengers who believe their district supreme, but they could argue much better if they knew just where this Colbinnabin was. Roger just smiles wistfully when questioned closely of its whereabouts. He doesn't want others horning in on his lamb-raising Utopia.

Always an exponent of a good, clean, honest hard working life, he surprised all





at his 21st celebrations with his fellow Third Years. With this episode he so endeared himself to the staff that they granted him a week's holiday to honour the occasion. Reminiscing also, we call to mind this quiet, unassuming type upholding his rights as a first year to the point of a near riot.

Roger's other pursuits include playing football for the A's, planning shearing sheds, milking sheds or sheep yards, studying and reading. We expect one day to stumble on this Colbinnabin and find Roger at the control panel of the world's first 5,000 ewe herringbone fat lamb outfit.

### IAN HOLMAN

"Cockaleecheie" came to College after gaining his Intermediate Certificate at Cummins area School on the West Coast, and was immediately named after his home town. Ian was quiet and sedate from whom we heard very little in his first 18 months.

It was then that the white sheep became black as a result of the Intercol. Trip to Dookie. He also went away this year to Hawkesbury as Captain of the rifle team. Ian also gained a badge at cricket.

He was the only College representative at the Pig Live Carcase Appraisal the day after his major breach of College Regulations, and took out the first prize.

Ian was in charge of the College pigs at the last two Adelaide Shows.

Despite being in the top few of the year, he will probably end up being a pig farmer on the West Coast.

### JOHN KALLIN

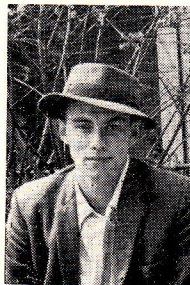
After attempting Leaving Honours at Princes, John decided that agriculture was better, and followed up his entry into College with a big bang by wrapping his car around a telegraph pole at the end of his first week. He has consistently scraped through all exams with a minimum amount of work.

After many trips to Adelaide, John decided that better hunting grounds could be found in Gawler, and as a result has walked many times from Gawler back to the College.

In sport John has never been a star, but was unlucky to miss selection in the rifle team to go to Hawkesbury this year. He is, however, captain of the water polo team which makes occasional appearances during the summer.

John had charge of the College South-downs at the Show over the last two years, but the sheep pavilion was the last place you would look if you wanted to find him, as he was very partial to a certain brown liquid while sucking on his "incinerator."

He intends to raise pigs, sheep, etc., in the damp atmosphere of the South-East.

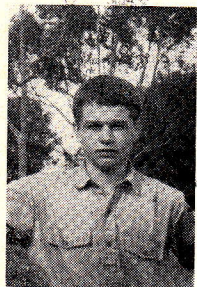


**TERRY  
KLUG**  
"Bags"

This charming young man, fresh from Rostrevor and oh, so innocent, had a startling experience on the train to Roseworthy, thought carefully, took the plunge and fearlessly decided to give it a go. Many sups. later this scarred veteran of the exam room is still with us, sadder but wiser. Terry plays a good game for the B's, and represented the tennis club at Dookie in II Year. Always interested, often puzzled, never dismayed, Bags seldom fails to ask the wrong question at the wrong time, and proudly claims to be the only survivor from Room 5. Resplendent in second hand dungies and hobnails, Terrence willingly lends a hand and a word of advice and encouragement wherever he can.

His chief amusements are playing tennis, imitating Shelly Berman, telling improbable stories, asking thick questions, going to Trim's, and worrying about sups.

Determined to go on a property, Terry is planning to travel far and wide in search of an eligible young grazier's daughter with no brothers.

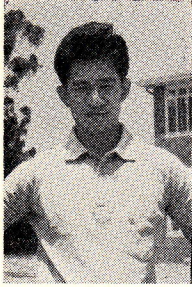


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**STEVE  
KONG**

Donk, or our Malaysian Austie. Steve has at all times been a magnificent ambassador for Malaya. His main handicap is lack of pronunciation. Recalling to mind some of the Malaysian Austie words, Koncutta for Kyancutta, Austie for Australian, etc. Steve has always tried to do his utmost where possible—but difficult when the rams are larger than oneself! Our Malaysian Austie invested in a car for £50. He drove down to Adelaide frequently, thinking the white lines were steering lines, i.e., a pair of wheels each side of the line. Steve met his inevitable end at Gepps Cross two years ago, sold his car for £20, and after two years is still receiving threatening legal letters.

Steve has never liked Austie beer, and has always preferred star wines. After four years, Steve has become climatised, but no doubt is anxious to go home. His ultimate ambition is to raise pigs and goats on banana skins.



**DENNIS  
LAWRENCE  
"Houdini"**

This innocent looking fellow calls the Apple Isle his home. With a background of grazing property and Launceston Grammar, coupled with a thirst for knowledge, a ready wit and an eye for good women, what better choice could Den Den make than S.A.?

Our intrepid Applewegian has ably de-

monstrated his amazing shrewdness with countless narrow escapes during his chequered, precarious, often threatened, sojourn at College, and would possibly not have stayed the distance had it not been for his deceptive innocence and winning charm. He has been a regular B grader for three years, and is a very keen cricketer.

Den's activities include trips to One Tree Hill, placating Mr. Hiddle, mending his working clothes and worrying his parents. Before returning to the land of webbed feet, Dennis has announced he intends taking a short holiday, during which he will try to stay out of trouble. With his uncanny knack of being in the wrong place at the wrong time, we really doubt his chances, but wish him the best of luck.

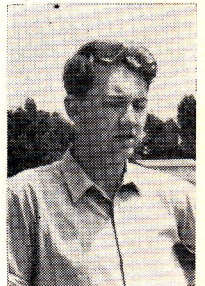
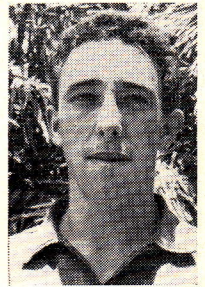
**PHIL LETHEBY**

Phil's entry into R.A.C. was quiet, but he soon adapted himself and became one of the boys. All through his College life he has been a very keen athlete and hard worker, both in the field and at his studies. His method of letting off steam is by nerve-rending screams during swot period. At football he has always been a good team man, and this year filled the position of captain admirably. Academically, Phil looks like culminating his stay at College with First Class Honours.

On leaving College he is rather undecided, but the wool barons are working on him at every opportunity. He mentioned something once about promoting synthetic fibres, and they feel with his ability he could do a lot of damage. They may buy him off yet, and we will see him each year in the Wool Pavilion at the Show modelling his favourite "dirty"-red T shirt in pure wool.

**MICHAEL MILNE  
The Mayor**

Mick joined us as a direct entry in second year after an honourable discharge from Armidale. Mick and his guitar have been a welcome addition to the clan. Many free hours have been spent singing raucously to the encouraging beat of his electric guitar and other unclassified pieces of percussion instrumentation.





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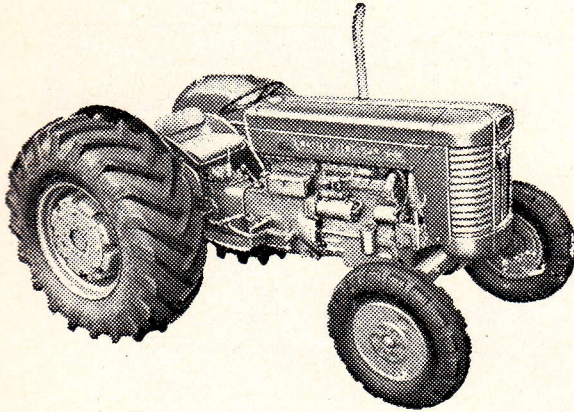
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## MANSAVER...

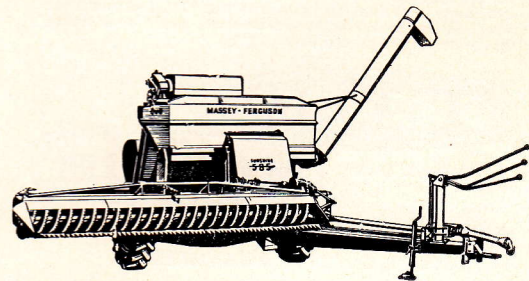


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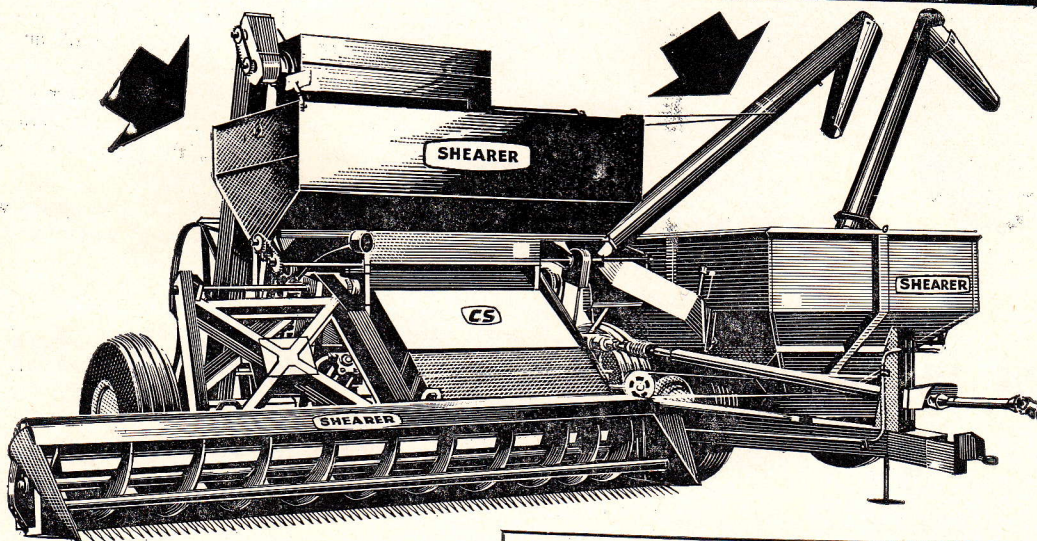
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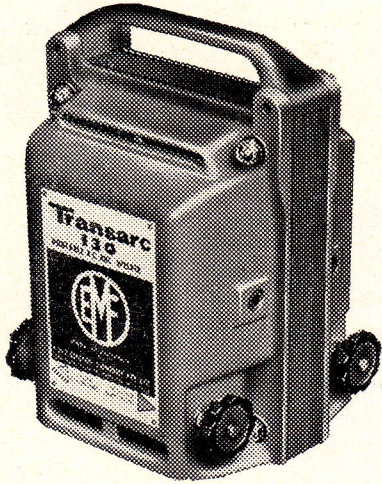
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## **TRANSARC 130**

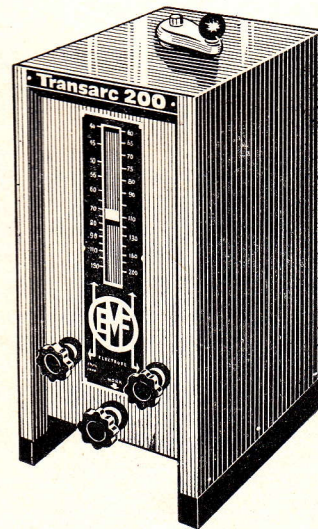
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Mick's stereogram has been the downfall of JLK, who previously haunted our small year with monstrous noises at ungodly hours. The Mayoral limousine has been the mainstay of Third Year. Often it has been seen vanishing over the horizon. Purpose of leave? Who knows?

Besides singing, Mick's main interests are horizontalling outings with the opposite sex. He has religiously smoked his 20 a day, and maintains an interest in many pipe tobacco industries. Any product, he will generally try once.

His moral support in all college sporting activities has been encouraging. Chairman of the S.R.C. for a period and his unlimited ideas as social committee president have also been appreciated. His ambition is to become a wealthy beef farmer, but we picture him as a guitar-playing TV star of a Country and Western Show.



#### R. A. MURRAY "Dutchy"

Arrived at R.A.C. after four years at Urrbrae, and a successful honours year at A.B.H.S., flourishing a subscription to the Temperance Society.

After a quiet start, this subscription was soon replaced with a life membership with the A.A.; and he quickly established himself as the local Labour representative, whose principles he has been expounding for the past three years. His outspoken views were put to good use as a member of the S.R.C. in 3rd Year.

When not engaged in unemployment statistics he has found time to indulge in a little academic work with remarkable success, vying for top place.

He has been a consistent member of the Rifle Club, gaining a position in the last two Inter-Collegiate teams, being top-shooter at Hawkesbury this year.

His interest in Tea Tree Gully was somewhat hampered in early years at College through lack of transport, but this was rectified by the doubtful purchase of an ancient Austin 7 which, despite all predictions, has served him faithfully, ex-

cept for the habit of the rear wheels parting company. His trips "to the Gully" have been encouraged by the sudden desire to learn the latest bathing methods, in which we believe he is being given some female coaching.

His future is somewhat cloudy, but it seems he will most likely end up in the dairy field, perhaps as a milk-shake inspector.



#### GEOFF PALTRIDGE "Spoofa"

After four years at Scotch, this boy decided the city had no more attraction for him, and chose Roseworthy as a suitable place to continue spine bashing. He has maintained a rather precarious position here ever since, being on the point of leaving several times.

After a quiet first year, Geoff became a senior student with an unusual, for him, burst of enthusiasm, possibly caused by five memorable weeks in the sun at Loxton, and found himself on the Rifle and Magazine Committee, and the S.R.C. He went to Dookie with the rifle team, managed to stay the distance for the rest of the year, and exhausted, tottered into III Year, retiring gracefully to the more leisurely life of the weekly excursion to Somerton, where a certain jeweller's daughter has him well and truly hooked.

Spoofa's other interests include fruit-picking with Phil, Bags and the Mayor, cooking up car deals, K.O.-ing Dennis, and talking motor bikes with Petey and Peg-leg. After travelling the country for a few years, he will no doubt be found happily paddling around in the swamps of his South-Eastern homeland.



"Pedo" another y graphs. until he rest of th them.

He has this year, mencing fat lambs picked p market.

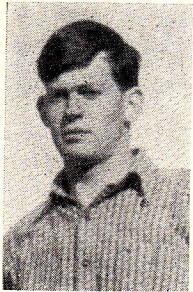
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**NOEL  
PEDERSON**

"Pedo" decided that he would stay on another year and take a few more photographs. Being a quiet type, it wasn't until he used a few flash bulbs that the rest of the year realised he was among them.

He has kept his nose to the grindstone this year, and when most were commencing their projects on pricing land, fat lambs and 16 ft. gates, Pedo had his picked property almost back on the market.

As well as a shutterbug, he is allegedly a fisherman of note, but we have yet to see a combination of the two. Most of his snaps are of College events, but occasionally we catch a glimpse of the fairer sex, although he certainly doesn't "kiss and tell."

Noel is not certain of his occupation next year, but a vocational guidance test would find him suited for the Silent Service or as a librarian.



**THEO  
STILLER**

Theo sneaked into R.A.C. from the Barossa Valley in 1961, and at first was hard to find, hard to please, and hard to talk to. After a while at least he wasn't hard to find as he developed, and still retains an uncontrollable urge to play the

trumpet. He also trumpeted in an era of non-alcoholic orgies until the Barossa Festival turned him into a talented taster. In his second year his shell cracked a little and he became a formidable senior student and a little less formidable trumpet player. He developed a yen to box, but he is an agriculturalist at heart, and perfected left and right haymakers. A stalwart of the B grade team, he helped trumpet the A's to victory after a strenuous match. Theo is definitely not a "kiss and tell" exponent, but we know some frauleins have got the eye.

On completion of his course, Theo is heading for New Guinea. In the future a patrol officer will discover a remote village where everyone plays the trumpet and swears volubly in German.

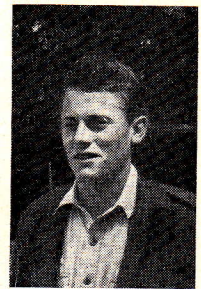
#### **A. G. SUMMERS "Smoky"**

Arrived at R.A.C. after four years at Urrbrae and one year at A.B.H.S.; still brushing the dust off, accumulated during sojourns at Andamooka Opal Fields, where, apart from other things, he gained valuable experience in hiding bottles of the amber liquid from dehydrated natives.

He quickly established himself as a formidable opponent not only in the academic field, where he has been in the top few, but also in the sporting sphere. He has been a consistent A grade footballer for three years; and a summer 440 yard athlete where we believe that most of his training consists of dashes from the refreshment booth to the running track.

Besides this, he has given his year three years' valuable service on the Student Representative Council, culminating in his election this year as chairman. During this time he has organised many year functions, such as the shearing and many appropriate celebrations, where the few non-swimmers rapidly picked up the art of survival.

Usually an habitual College dweller, this year he has been conspicuous by his absence; on most Friday nights the hot





A50 was to be seen 'careering towards Adelaide.

As a result of these expeditions, Smoky is now engaged, and his future appears most definite in breeding stud sheep and other stud offspring in the Clare district.



**IAN WILLIAMS**  
"Ludwig"

A few months with a stock firm, after a secondary education at Unley High, did much to prepare young Ian for the agricultural way of life, and he has never looked back since the day we helped him dispatch the contents of several slim bottles found hoarded in his room in 1st Year. Never a reticent fellow, Ludwig is usually heard loudly abusing anyone within hailing distance, and in particular Max, Pedro and Dennis. When not bashing away with a hockey stick, Ian can be found either shouldering up to the bar, or in bed. He never fails to amaze us at exam time, when he comes through unscathed with an absolute minimum of work.

He intends going west to the Esperance with his mate, Tony. His other interests involve talking hockey, practising hockey, playing hockey, horizontalating, arguing with Max, going to Normy and thrashing the Minor. We will eventually find that he has moved in on an unsuspecting Poll Hereford breeder.

## Oenology Graduates



**MALCOLM JAMES SEPPELT**

(Boris of Borisfield, the Keppoch Kid, just Boris), R.D.A. 1962.

In order to guard his honour, Boris this year anticipates the completion of an R.D. Oen. and his fifth year at Roseworthy. After the Ag. course he saw fit to take on the Plonky course (besides, this was the order of the Directors), and at the same time enjoy two more years' holiday.

Boris is the outstanding sportsman of Plonky history, both by virtue of ability and by bulk. He has won everything at College. College athletics, football and billiard players will strive for his achievements for many years to come.

The highlight of Boris's year was his birthday party. He didn't throw a pitchfork that night, but threw just about everything else.

Pastimes are vast; filling and emptying the "bikki bin," playing pontoon, getting annoyed, getting very annoyed, drinking Seppelts (makers of pure wine vinegar), expounding illustrious theories, explaining that it all depends on the directors, and axe-handling the rest of the plonkies.

His future is certain—what else could it be with a name like Seppelt?—and there are always the directors to help him look after the new venture at Keppoch.

### **IAN MCKENZIE (Black Mac from Barmera)**

Refer to "The Student," 1962. Mac neglected to economise last Christmas and was awarded the privilege of another year of Oenology at Roseworthy. He "burbled" back in a new Mini Minor, complete with extras, reversed into his parking place, and made ready to do battle with the economic giant.

IAN W  
"Ludwig"

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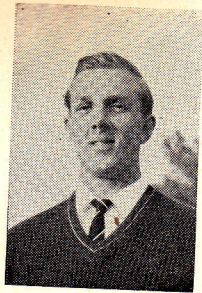
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**IAN WILLIAMS**  
"Ludwig"



**MALCOLM  
JAMES  
SEPPELT**



**IAN MCKENZIE**  
"Black Mac from  
Barmera"

Inadvertently, the photographs on these pages appear in the incorrect position. These should have appeared as above.

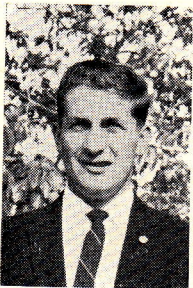
R. S. Norton

still flapping and this gallant "up-homer" is still a fan of the fairies.

In the sporting field, his tastes are too expensive for the student peasants and also himself. Peasant students of 1964 should beware of a low-flying Mini travelling between the River and Mallala, and being piloted by a sleek black river rat.

Pastimes include fixing the Mini, going to Mallala, going to the speedway, wanting to play pontoon, not wanting to play pontoon, playing snooker, reclining on the sack, reading car books, waiting for cheques and fixing the Mini.

His future is "Berried" in going "up-home" and racing the Mini.



**KEVIN  
PFEIFFER**  
(Sam, The Little  
Hunner)

The advocate of "Renmano" and an ardent "up-homer" commenced the Oenology course at Roseworthy in 1962 (refer to the 1962 Magazine and delete the words "fresh and innocent").

His scholastic record to date has been notably commendable and he has a vast memory for bad debts and television programmes. His naturally inquisitive outlook stands him in good stead, and he hasn't missed an incident in two years sail for a vintage at his beloved Coona-at College.

ing up Barrett, aggravating Boris, defending the River, and asking "how much?" Holds the record of seven yards of met-wurst in one week.

Sam will undoubtedly be returning to his "Garden of Eden" at Renmark in 1964, where he will live out his remaining days and preach the gospel of "Renmano Red Ned."

**C. R. HANCOCK (Hank), R.D.A. 1961**

Having realised the frustration of an R.D.A., Hank acquired himself the Wine Board Scholarship of 1962 and made his presence felt again at College. He topped the first year of the course and then set warra—in his humble opinion the home of the best wine and women in Australia. It is alarming to see how a short period of acid and tannin can affect one's character.

After repeated refusals of offers from Norwood, Hank played an unspectacular season with the R.A.C. "A" football team. Switching to cricket for the summer, he expects to break his duck before the season finishes, and has shown potential as a straight-break bowler.

At present, his main interest in the fairer sex is avoiding matrimony. Other than that, no comment.

Main activities are being sarcastic, arguing with Mr. Guy and any other takers, cards, winning money at snooker, organising the Test team with Dorm, attempting to organise peasant Ag. students and commanding the Plonkies from the rear. Hank represented his group on the S.R.C.

His future is still hazv, but he will work for anyone prepared to employ a

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young man on the rise at an exorbitant salary.

### J. D. BARRETT-LENNARD (Barrett, Banger)



God's gift to women switched from two years of the Ag. course to the more refined R.D. Oen. course in 1962. Having completed a satisfactory first year and a vintage at Clare, he has returned for another season of relaxation. He has rarely been sighted at College during weekends owing to the fairy, the bed, or both.

Barrett is an unspectacular sportsman but a gallant trier. He regularly enjoys a social game of tennis, but loses to love when playing on Saturday nights.

His favourite programme is "Adelaide Tonight" which, of course, will have a similar counterpart when he returns to West. The big question is, "Who will be the unlucky lass?"

Pastimes include repainting the Holden, getting the hyphen out of the way, writing letters to Liz and visiting Katie, swotting chemistry, waking up the "Little Hunner," spine bashing, poking his tongue out, detecting mushrooms in tasting glasses, and doing anything that appeals to his extravagant tastes.

John has decided to work where it suits him next year, probably "Belhus," the Ponderosa of the West.



### DORHAM MANN

(Deemann, Dorm, President),  
B.Sc. Agric. (W.A.), 1961

After doing a "bit of a course" in W.A., the backbone of West Australian Viticulture, winemaking, cricket and soccer adjourned to the better State to continue doing another bit of a course. Because of his superior academic qualifications (this sentence is worth a fiver),

Dorm was required to do only one year's study for his R.D. Oen. This being so, he arrived early in the year and did a bit of vintage at the College cellars. Results may be inspected at the nerve centre. He quickly settled in and is now considering changing his nationality from German to Scotch.

By College standards Dorham plays an outstanding game of cricket, and in this respect we wish him well when he returns to his home territory. A soccer player turned Aussie Rules footballer, he has had a controversial but successful season with the A grade. He is a notably clean footballer, as shown by his Persil-white shorts. Only once did he attempt to head the ball. Comments from the boundary: "Hit it mit your head, Dorm."

Pastimes include eating, champagne, going to Tanunda, cricket, objecting to gambling, cricket, going to the Barossa, letters to the fiance, shooting deer, cricket, scotch after scotch after scotch, and cricket.

Dorham will be returning to the West at Christmas time to restore the export-import balance of Scotland to a new high level, to get married, play cricket and avoid work.

His father has been warned to lock the door of Houghton cellars.

## "Shower Hour"

Please remember, don't forget,  
Always leave our washroom wet,  
And leave your soap still in the water.  
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And leave our dacks about the floor,  
And stay in the shower an hour or more  
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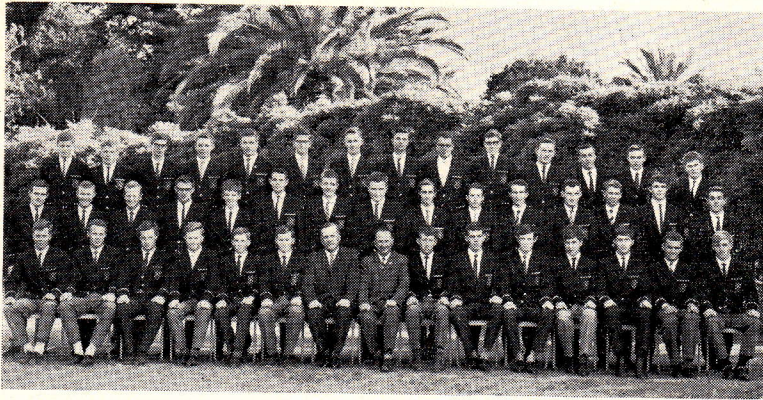
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# First year



Back Row: P. Saint, B. Matthews, R. Liebich, G. Wyatt, A. Smith, M. Cleggett, J. Gill, J. Cawthorne, D. Brain, J. Derham, R. Stephens, B. Thomas, C. Downing, B. Thyer.  
 Middle Row: G. Young, M. Clarke, M. Kuerschner, J. Hughes, E. Smulders, R. Laslett, I. Wilson, D. Kidd, B. Spry, D. Ransom, N. Mitchell, K. Cowley, A. Wilkinson, C. Gregson, D. Kleeman.  
 Front Row: R. Kruijnk, C. O'Donnell, P. Cocker, B. Skinner, B. Lawes, G. Dick, Mr. Herriot (Principal), Mr. Hiddle (Housemaster), M. Smith, A. Thorpe, P. Mannion, L. Snell, G. Walsh, R. Sampson, R. Baldwin, B. Shepherd, (absent).

I think that most of us were pleased but a little apprehensive as we passed through the gates of the college. All of us had heard of Roseworthy's famous "treatment" graciously extended to new arrivals.

After a period of unrest, we settled down to the normal routine of work, lecture, study, sport, and lots of fun. Of course, the disciplinary measures came into force after a while, but not too often, thankfully.

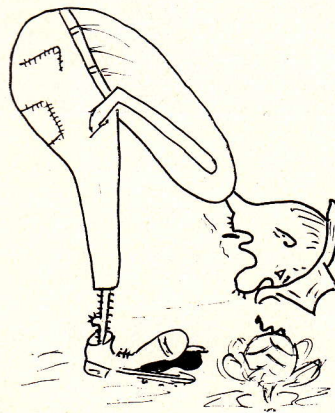
First Year has been fairly prominent in the sporting side of College education this year. We have many good footballers, amongst them Dave Kleeman, who was voted the "Best and Fairest Player" of the A Grade for 1963. George Dick, Chris O'Donnell and Brian Thomas went to the Hawkesbury College for "Intercol" tennis competitions. Already First Year have shown there are some good cricketers in our midst.

We have a wide assortment of instrumentalists in First Year. They can make quite a good noise when they decide to try. "Rocker Cocker" has shown himself to be an exceptionally fine rock-'n-roll singer. This likeable Taswegian is also the year's S.R.C. representative, superseding Doug Brain, who is to be congratulated on his fine work last session. We

have representatives in other clubs and committees, and the one that comes to my mind right now is Bevan Skinner ("Skin"), who is on the Swimming Pool Committee.

For most of the year the atmosphere has been fairly quiet, but occasionally little incidents disturb the peace. Such is the occasion when one of our honoured members was shown the finer points of swimming in the close vicinity of H10.

Well, as the final examinations loom up, most of us are studying hard once again and looking forward to entering Second Year.

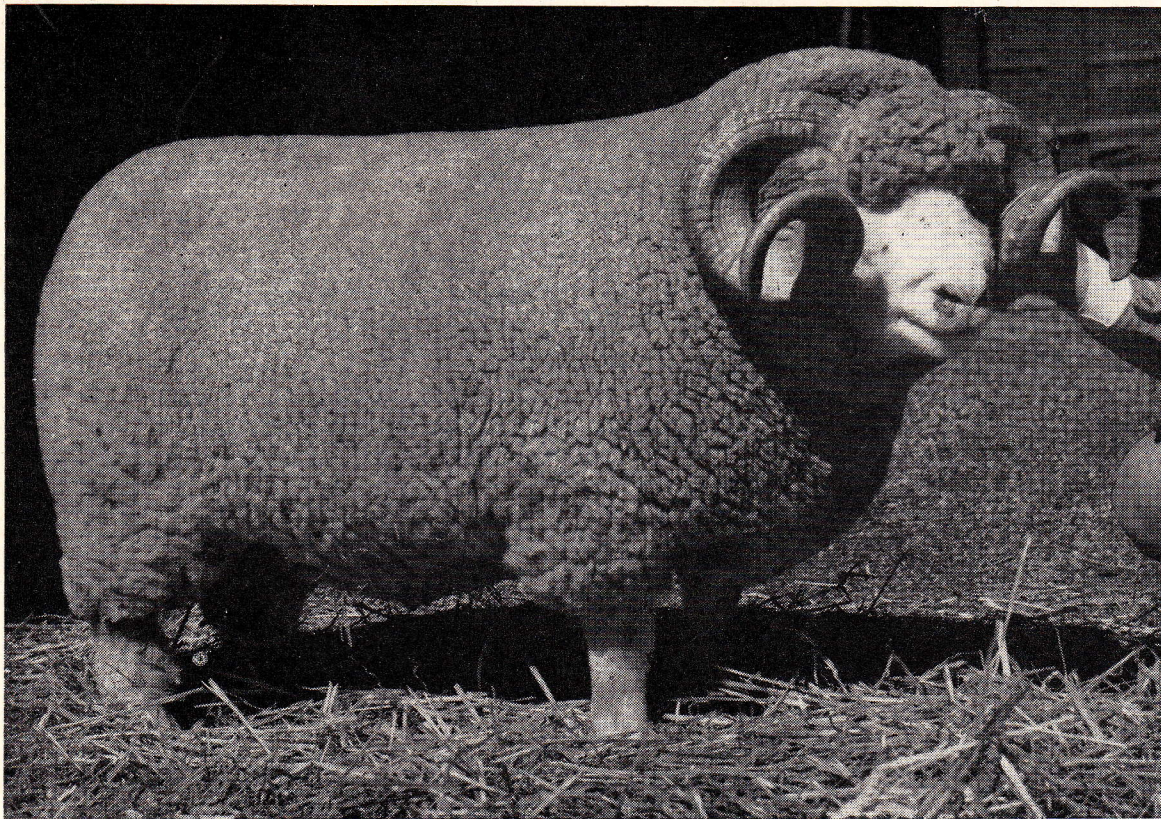


For work marks on garden, keep your head down.



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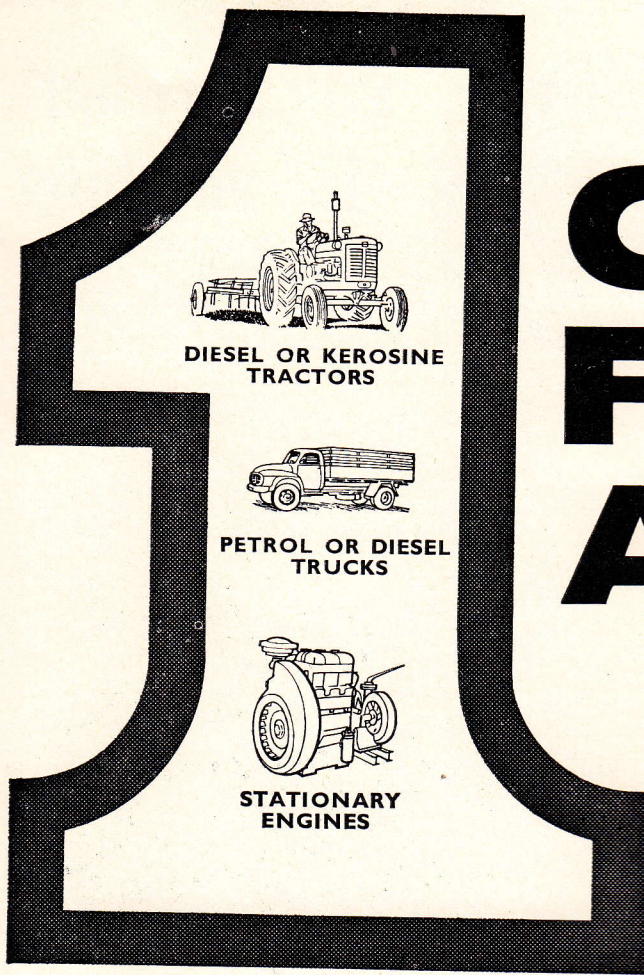
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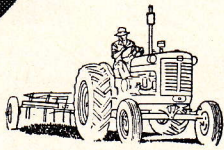
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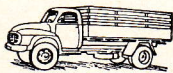
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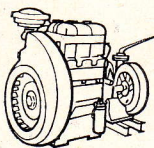
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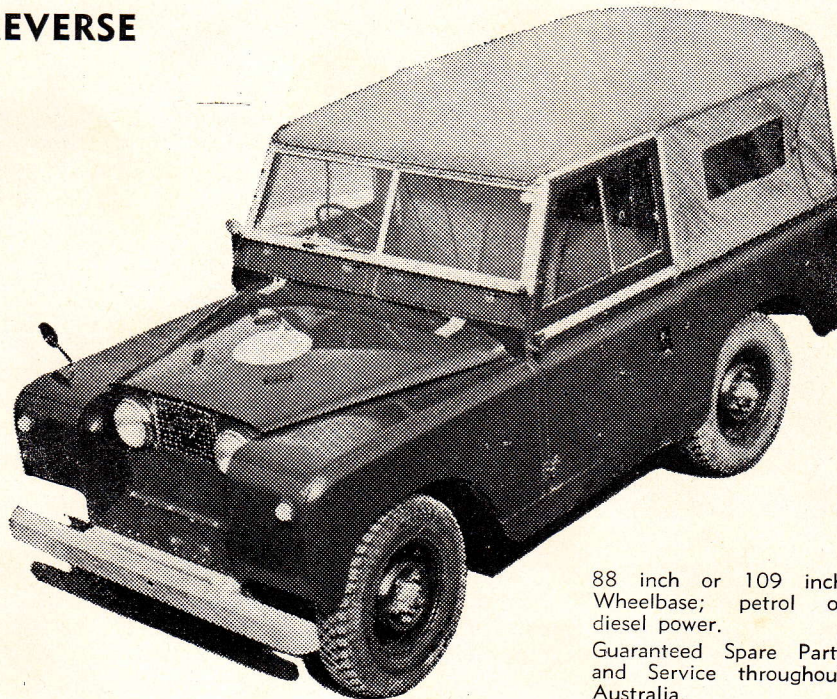


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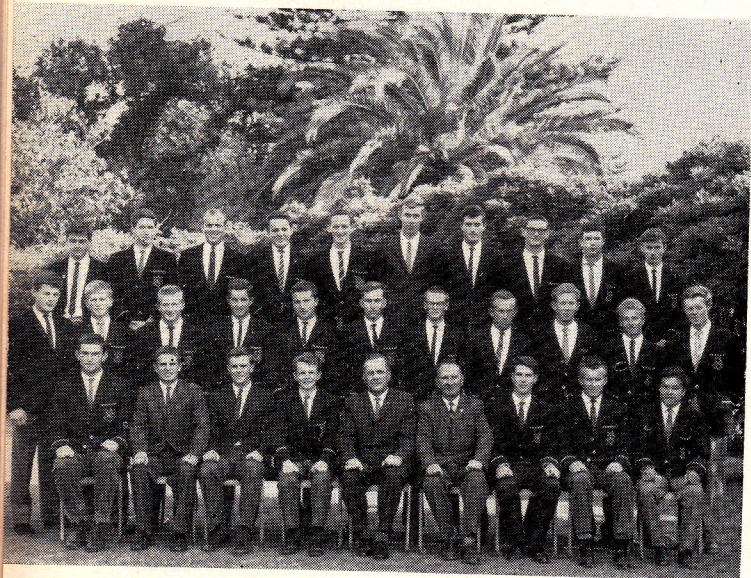


. . . a Shearer Combine sows the  
crop at Roseworthy Agricultural  
College after a wet winter.

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## Second year



### Second Year

Back Row: B. Turner, D. Adderley, R. Brown, I. Watt, S. Gee, T. Green, R. Campbell, J. Laffer, I. Bidstrup, L. Thomas.

Middle Row: P. Ford, D. Stanley, W. McGown, R. Fewster, O. Lamshed, B. Farquhar, J. Eyre, J. Flynn, K. Holder, B. Hill, B. Swaby.

Front Row: G. Crome, J. Townsend, P. Winter, E. Hogg, Mr. Herriot (Principal), Mr. Hiddle (House-master), J. Sorrell, R. Connor, F. Soo.

Among those who failed to ride out the intellectual squall which terminated our First Year at R.A.C. are John Smith, Dave Lykkie, Jim Miller, "Radish" Nairn, Ian Whyntie, and last but not least in terms of both capacity and physical dimensions, Bill Oliver. In return for this collection of much wronged gentlemen we received, presumably as an extra punishment, John Flynn, and also (a dubious bargain, if there ever was one) Peter Ford.

During the course of the year members of our number have purchased motor cars, certain of which could easily keep the operations of tow truck businesses well clear of financial difficulty if permitted to do so by their owners' pockets.

Among the more conspicuous owners we have scientific "Charlie the Chuckler," whose Standard Vanguard bears able witness to his strenuous efforts to solve the age old physics problem of the result of an irresistible force meeting on an immovable object. Fortunately (?) all such objects have so far proved moveable.

While the Royal Show did not yield much in way of material benefits to the College, I have little doubt that it left Second Year well satisfied. Even Davey Crockett himself could hardly have seen a log cabin laid to such vigorous and extended siege.

During the River Trip this year much of interest was learned, a lot of it not pertaining to horticulture.

A welcome change from College meals was enjoyed by all. "Stirrup" proved without doubt that whatever goes down usually comes up. This obviously ranks him on a level with Isaac Newton, who took 40 years to discover the mere converse of this adage.

Speaking of old adages, "Blue" Holder demonstrated that "A fool and his money are soon parted" (especially on birthdays, and went on his way sixteen shillings poorer and several pounds wiser.

All in all, we have had a full and satisfying year, and hope that we can go on and fill our obligations as head of the College next year in a manner satisfactory to all.

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## Third year

Upon entering our third year we were surprised to find that our small year was reduced still further by the absence of three students whom the staff decided had learnt all that they could possibly teach them. However, we gained the addition of one of last year's third year, who astutely thought that the final year could be done more leisurely in two years. Our numbers finally settled down to 17.

The two "Barossa Boys" decided that apple scale had more attraction for them than flyblown sheep, and so embarked on the Horticulture course. This included a carefully synchronised trip interstate, whereby all accounts, much delight was had in sampling the local products, but the inevitable argument ensued, punctuated by gutteral German oaths, as to who was driving.

The usual educational trips were undertaken, the most notable being the Northern Tour (to date) on which J.L. decided it was his chosen duty to enlighten the farmers on how their places should be run, and "Bags" displayed an apparent lack of any fundamental agricultural knowledge. Unfortunately, our trips to wool classing in Adelaide were cut out when the trusty bus reckoned it was no longer an "E type" and finished the circuit back to the pits at the end of a two inch hawser, where the experienced English crew thought that a "thou" off the head would fix it for next year's meetings.

Third year shearing for their dinner was cut out on the college this year because of serious diseases in the neighbourhood, and the fear that they would get into the susceptible College flock. It was decided that if Mahommed couldn't go to the mountain, then the mountain would make the move.

So bright and early one morning, with the blessings of the C.I.B., off we went to two nearby sheds. Here ancient motors were kicked thunderously to life, and amid stale alcoholic and poisonous ex-

haust fumes, the job was slowly but surely completed.

Although small in number, the year has performed creditably in the sports field with three going to the Intercol. and Tony Murray shooting equal top score. There have been regular players in both A and B grade football and representation in all other fields of sport.

The usual Show leave was taken where a lot of knowledge, some of it "extra curricula," was obtained. "Ludwig" is now an authority on the excreta of Poll Herefords, "Bags" is a dairy cow (and maid) authority, while another member was plagued to share his knowledge with the fairer sex in his leisure hours.

The year has not been without its ups and downs. At one point, when asked to supplement the shortage of stewards and help clean up the dining room, we were only too pleased to help, and to donate 27/6 to the unemployed stewards' union. So pleased were the authorities that several weeks later they graciously granted a week's holiday to 11 more fortunate members of our year when it was known that a 21st birthday was imminent.

Our Asian representative did nothing towards improving relations between Australia and Malaysia, when, prior to the Governor's visit, he decided that one of the silage trailers for display should be in a shed.

The fact that the shed was not of sufficient height did not perturb him, and only when the trailer failed to fold up neatly but become a twisted mess, did he decide it was only fair that he should tidy up the place the next weekend.

It is with mixed feelings that we look back over our student years. Not only have we gained a firm agricultural knowledge both practically and theoretically, but we have also lived with all types and established lasting friendships. We hope we can pass out into the community, worthy holders of the Roseworthy Diploma, and be a credit to the College, regardless of our future vocation.



# Oenology



## Oenology

Back Row: J. Barret-Lennard, D. Mann, K. Pfeiffer.  
 Front Row: M. Seppelt, Mr. Harriot (Principal), C. Hancock, I. McKenzie.

Six Oenology students have constituted the backbone of Roseworthy College for 1963. All are in the second year of the "Plonky" course, there currently being no first year representatives. Four First Years from 1962 in "Hank," "Barrett," "Boris" and "The Little Hunner" all came back with flying colours to be joined by another Westralian in "The Big Hunner," with an old face in "Black Mac" swelling the group to six and doubling the "up-home" atmosphere.

Vintage 1963 at College was very large when compared to the 10 cwt. put through the crusher down at the "Nerve Centre" (The Wine Institute can only rank in such a comparison). Although the local fruit was of reasonable potential, it is reported to have been a bumper year for distillation material. Carter blames Mann and Mann blames Carter, but it was probably due to some other guy. Still, it's all in good spirit.

The academic year commenced in early May and lectures have been handled with smooth efficiency by Messrs. Guy, Leske, Brearley and Woodruff. It is hoped that their efforts can be reflected in some good final exam results.

Tastings have been held regularly throughout the year with much enthusiasm. Certain "cellar palates" have been adjusted one way and another, and probably for the worse. Perhaps the startling discovery of "Renmano Rum" in a brandy bottle gave the group the most difficulty, although it was easily detected by one of the makers.

On the more serious side, this section of the Oenology course is of the most vital importance, and Mr. Guy's sample selection and organisation has been first rate.

In the field of sport the "plonkies" have enjoyed a very full and creditable year. There is no doubt that they provided all the spirit in the College modern style of football, and although carrying both teams, never really played a cracker of a game. Five of the year reached A grade status. Aggressive contributions were made towards the annual athletics meeting with varying successes. In a fine sporting gesture towards the lesser

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## Staff Notes

of the College athletes, "Boris" coasted to second place in the championship cup and permitted himself to break but two records on the day. However, he has often been credited with a third. "The Plonkies' Benaud" has aroused the noble game of cricket amongst the group, but "Barrett" still hasn't bowled a maiden over. Four of the year have taken the field among both college cricket teams. Billiards, snooker and table tennis find the young oenologists as the complete masters.

Without question, the highlight of the year was the Oenology Interstate Trip. In addition to the customary areas visited in the past, the Hunter River district was also included, giving all the group an unsurpassed insight of Australia's wine industry. The touring group numbered eight; led by the dauntless Mr. Rob L. G., the party included five students, Mr. Brian Evans and a hired driver with his minibus.

The trip was tremendous—a triumph for the organisation—and the many hosts along the way with their generous hospitality were greatly appreciated. In visiting Coonawarra, Great Western, Melbourne, Rutherglen, Canberra, Sydney, the Hunter, Griffith, Mildura and the South Australian irrigation area, a total of some 2,800 miles were covered in three weeks. Without being prejudiced, perhaps the Hunter area won pride of place on a list of honours.

And so approaches the end of another collection of "Plonkies." All members hope to brave the outside world in 1964. Ian McKenzie heads back to "Mine Host"; Kevin Pfeiffer is dedicated forever unto "Renmano"; "The Directors" have Malcolm Seppelt fully organised; Dorham Mann is to move the W.A. Ag. Dept. to "Houghton," while the two free-lancers in John Lennard and Chris Hancock have the world at their fingertips.

It has indeed been a memorable year.

From the Animal Production Lab. we have lost Mr. K. Hutchinson to the C.S.I.R.O. at Armidale, N.S.W. His ability, so apparent while he was Acting Principal, as well as in his capacity of Senior Lecturer in Animal Husbandry, is a loss to the College. From the same section we have lost P. Gratton to the Lands Department, Berri.

In a good attempt to span this void with one for two, Mr. D. Heaton-Harris has been appointed Research Officer, and we welcome him and his family. Warwick Hack is this year's Field Officer.

We joyfully announce the arrival of another Miss Krause.

Newcomers Woodroffe and Ford, through associating with Mr. Hollamby, contracted the fever, and we welcome the three brides to the clan.

First years are awaiting the advent of the first push button shovel which they are sure will be one of the projects of our new energetic Senior Lecturer in Farm Engineering, Mr. G. R. Quick, who, with his family, came to us from Dookie.

Mr. O'Halloran, moved to the Queen Elizabeth Hospital as Micro-biologist early this year, and to fill ranks or perhaps to become the rank, came Mr. David Woodruff, Biologist. We understand there is a new method of migration; it is called the "Migration during Hibernation" system.

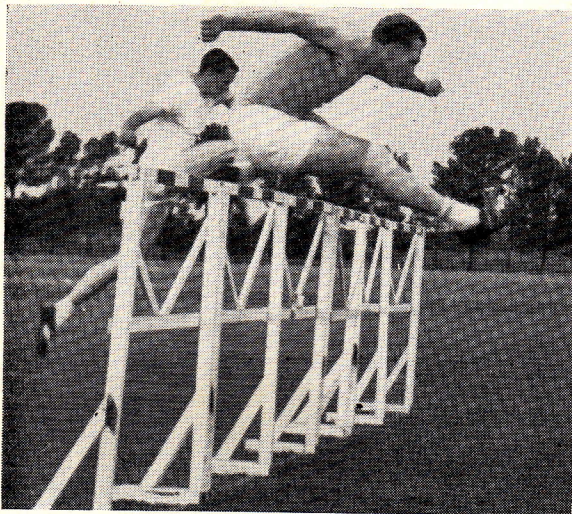
From the office, Malcolm Campbell, working on the principle, "If you can't beat 'em, join 'em," has joined the Police Force. In this section, however, we have gained three for one—Mr. A. Footer, Mr. B. Attwood and Miss Wendy Simpson. Mr. Philp now arrives home well before midnight.

After 16 years, Mr. Bussell has decided to move closer to Snowdens Beach and is now Officer-in-Charge of Northfield Research Centre.

The V.O. section was leaderless for a short period when Mr. Henry and family decided that olive trees at Robinvale were easier to pull out, but Nick Hutchins joined the ranks and has also become engaged.



# Athletics 1963



Seppelt (runner-up) leading Gee (Champion athlete) in 120 hurdles

A very successful sports day was held on November 8th. Second Year were victorious for the day, winning the Inter-Year Shield and the tabloid competitions.

Inter-Year scores were: 2nd Year, 133; 1st Year, 96; 3rd Year and Oenology, 83.

Due to lack of numbers in 3rd Year and Oenology, these two groups combined together for the sports.

Malcolm Seppelt broke his own sheaf toss record with a throw of 46 ft., and his shot putt record, throwing 42 ft. 9 ins. Steve Gee broke the high jump record by jumping 5 ft. 10 ins., and won the Championship Cup, with Malcolm Seppelt second.

The trophies were presented by Mrs. Herriot at the end of the day.

# Cricket



Last summer the A cricket team had a moderately successful season and, had it not been for an absence of players in the long holidays, would have played in the grand final. The team, well captained by Peter Brechin with Jim Wiese his assistant, was either top or second on the ladder until February, when it gradually dropped to bottom.

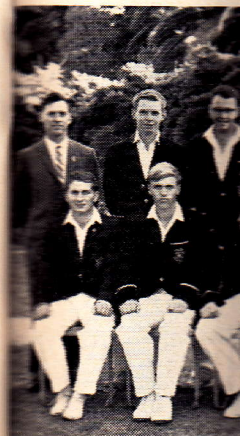
Mr. Norman was the best batsman, with a total of 338 runs, an average of 48.3 an innings. With a total of 17 wickets at an average of 15.1 runs each, Steve Gee won the bowling trophy, and Jim Wiese won the fielding trophy.

The C grade team was not very successful, due mainly to a lack of support, and never really climbed higher than bottom of the ladder. However, the enthusiasm was there amongst the regular players, who enjoyed playing, even if it was not to win. The team was captained by Nick Hutchins who, scoring 103 runs at an average of 12.8, won the batting trophy. Owen Lamshed won the bowling trophy, taking 14 wickets at an average of 9.0 runs, and Peter Burrell was the best fieldsman.

Both Peter Brechin and Jim Wiese played in an Association (Para Districts) team which competed in Shield matches at Salisbury. Peter was captain of both teams. Steve Gee also played in a combined team which competed in the Nutting and Young Shield match at Adelaide.

During the year Neil Dansie brought up a team, consisting mainly of State players, to play the College on a Sunday afternoon. We enjoyed these matches very much and gained a lot of experience from the State players. Neil Dansie also came up several times to coach us and we are indebted to him for what he and Ian Lloyd taught us.

Finally, we would like to thank our manager and valuable player, Mr. Norman, for the great work he has done for the club during the season and at other times, keeping the club running so smoothly.



Cricket  
Back  
G  
L  
Front  
D  
C







### Cricket A Grade

Back Row: Mr. Norman (Manager),  
G. Wyatt, D. Brian, D. Mann, R.  
Laslett, J. Gill.  
Front Row: K. Pfeiffer, R. Baldwin,  
D. Lawrence, P. Letheby, R.  
Connor, D. Kleeman.

## Rifles



At the beginning of the year there was a keen zest in the Rifle Club to shoot well and be chosen for the annual Inter-Collegiate which was to be held at Hawkesbury.

For the second successive year we equalled Hawkesbury, and lost to them on a count back on 600 yards after being well in front at 300 and 500 yards. Tony Murray was the top shooter for the team, and scored 99 out of a possible 105. The team's total score was 572, and is one of the highest scores ever.

To our surprise and dismay, Mr. Bussell left the College early in the year after 16 years on the staff. Mr. Bussell has been manager of the Rifle Club since 1949, and has inspired much interest and has promoted accurate shooting in the Club. Many thanks are due to his long and numerous hours spent coaching the team. We all wish him success in the future with his new job as Officer in Charge at Northfield Research Centre.

Mr. Hutchins has taken over as the manager of the Club. We all welcome him as our new manager and thank him for watching over us at Inter-Col.

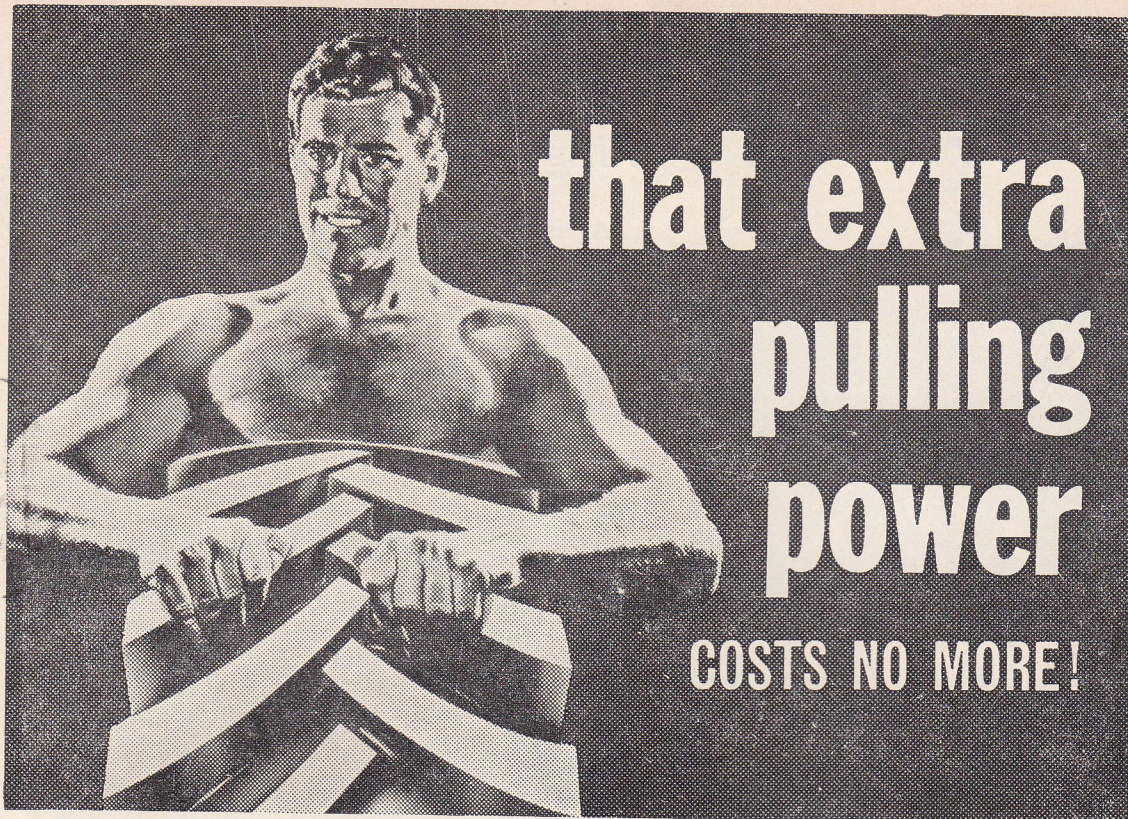
Earlier in the year we visited Mannum and also had two shoots against the University, one at the College and one at the Dean Range. Unfortunately, we were defeated each time, but it was only by a narrow margin. We have another trip to Mannum, one to Angaston and several trophy shoots before the shooting year ends.



### Rifles

D. Hutchins (Manager), T. Green,  
R. Murray, I. Holman, S. Hogg, P.  
Ford, J. Laffer.





that extra  
pulling  
power

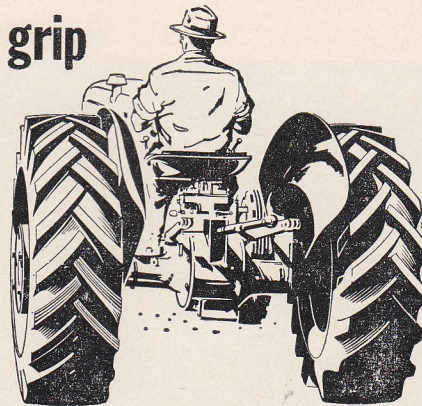
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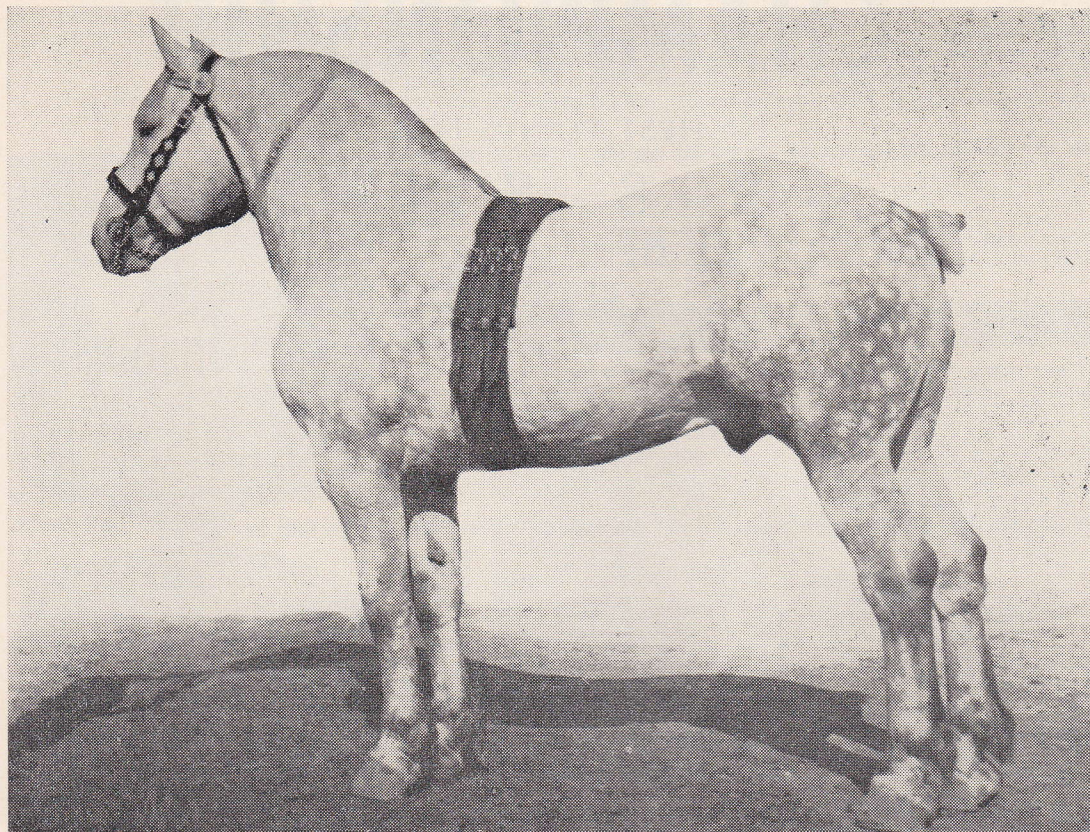
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TREATED WHEAT  
has won  
Sth. Aust.

# STATE WHEAT CROP CHAMPIONSHIP

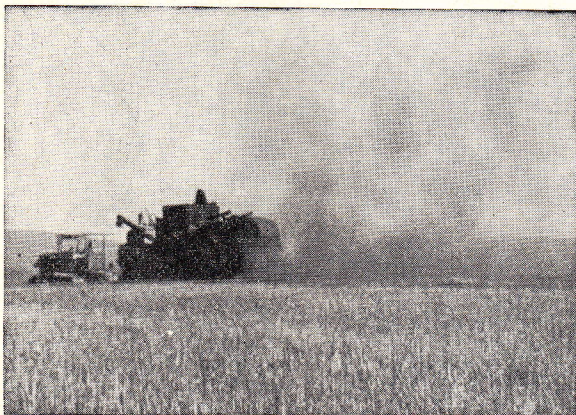
HIGHEST POINTS FOR YIELD

- 8 - 8 - 8 - 8 - 8 -

For LAST EIGHT

- 8 - 8 - SUCCESSIVE

## CHAMPIONSHIPS



Harvesting a field of smutty wheat near Pullman, North West U.S.A., 1956. Estimated loss of 15,000 bushels on this large farm, due to common Ball Smut.

Extensive trials carried out at the Smut Research Station, Pullman, U.S.A., has proved Hexachlorobenzene (H.C.B.) superior. It is recommended in preference to other chemicals.

(Agricultural Chemicals Journal)

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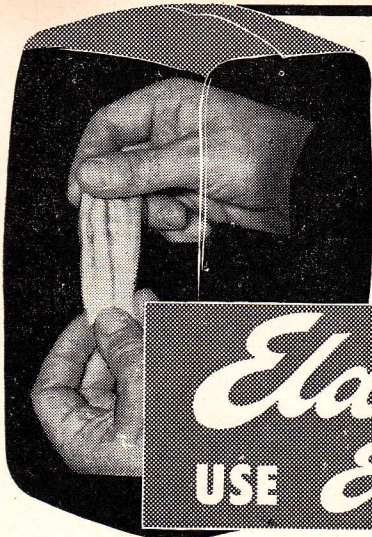
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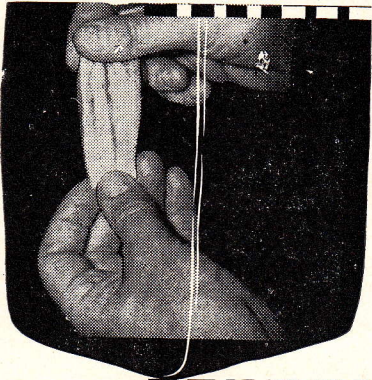




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- Your clip remains constantly before the classer until all preparation is completed.
- Your wool is divided accurately into any number of types without losing the advantage of big lot sale presentation.



- 3** When all lines do not finish as complete bales.
- 4** When you have odd bales, or bags of pieces.

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## Football

The College again fielded both A and B grade teams in the Adelaide Plains Football League. Although the A grade were slow to settle down early in the season, they battled hard to keep in the four, despite numerous injuries throughout the season. After making the semi-

final, the clash of the Inter-Collegiate sports told on the team, and Hamley Bridge had a comfortable win.

Congratulations must go to Phil Letheby, who played a captain's game throughout the season, and to the team for its true College spirit.

Also worthy of note is Malcolm Sepelt, who was vice-captain this year, and on doctor's orders was forced to retire from football. The College A grade certainly missed him.

B grade had a run of victories earlier on in the season, but after making the grand final were beaten by a more experienced Balaklava.

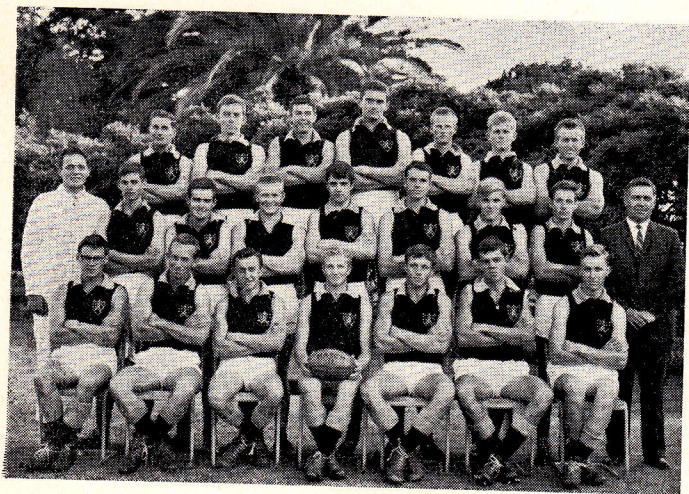
Brian "Curly" Hill captained the team, and his ability on the field was rewarded by being runner-up in the B grade Association trophy. Vice-captain was Dennis Lawrence, who later in the season proved a very handy player in A grade.

The Tim Dunstan Memorial Trophy was won by David Kleeman who, throughout the season gave a consistent display of high class football. Runner-up was Peter Winter.

Unfortunately, no Inter-Collegiate matches were possible this year, but the one outside match played against Edinburgh R.A.A.F. proved victorious for the College team.

Both teams this year were coached by Mr. Woodroffe, an Old Collegian. He had the unenviable task of building the A grade team virtually from scratch, and the successful manner in which he did this resulted in both teams reaching the finals.

Thanks must go to Mr. Krause, the manager, for devoting so much of his time and energy towards the Club. Thanks also to members of the staff who assisted in every way they could, the trainers, members of the committee and the faithful band of supporters who followed the teams every week throughout the season.



### Football B Grade

Back Row: K. Pfeiffer, T. Klug, I. Bidstrup, G. Crome, J. Eyre, D. Stanley, R. Connor.

Middle Row: I. Watt (Trainer), R. Liebich, G. Young, W. McGown, C. Gregson, R. Laslett, R. Baldwin, D. Ransom, Mr. Krause (Manager).

Front Row: N. Hughes, J. Flynn, B. Thomas, B. Hill (Captain), D. Lawrence, A. Thorpe, J. Gill.

## Tennis



Last season the B grade of the Tennis Association experienced some interruptions in the days, rather than finished weeks, but this year with the introduction of the First Year team commenced very narrow defeat.

The Inter-Collegiate tennis presented the year comprised Daniel, Ch... and Bryan... very successful, but very narrow and a good...

A successful year with David Nair... Derrick and... in the doubles singles.





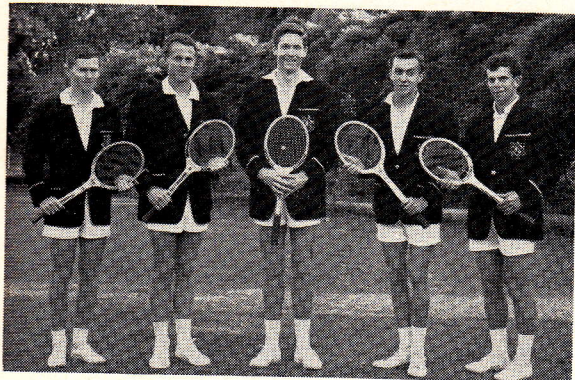
## Tennis



Last season a team was entered in the B grade of the Gawler and District Tennis Association, with little success due to interruptions from examinations and holidays, rather than lack of interest. We finished well down the premiership table, but this year hope to reverse the position with the inclusion of several promising First Year students. The season has commenced very well with four wins and two narrow defeats.

The Inter-Collegiate team that represented the College at Hawkesbury this year comprised: Derrick Adderley, Brian Daniel, Chris O'Donnell, George Dick, and Bryan Thomas. The team was not very successful, finishing second to bottom, but valuable experience was gained, and a good time had.

A successful tournament was held last year with Derrick Adderley winning the Open Singles and Doubles partnered with David Nairn. In the handicap events Derrick and David were again successful in the doubles, and Mr. Guy won the singles.



## Sports Awards – 1961 and 1962

At a meeting of the Blues Committee on 20/11/62, the following awards were made:—

**Blues:** Football, H. A. E. Gosse; Cricket, H. Johns, P. M. Brechin; Swimming, H. A. E. Gosse; Athletics, S. Gee.

### Colours:

Brechin, P. M.  
Ellis, P. A.  
Gosse, H. A. E.  
Myers, N.  
Nash, H.  
Patrick, V. J.  
Ryan, R.  
Tandy, M. J.  
Wiese, J.  
Willison, T.

### Badges:

D. Adderley  
M. Brown  
R. Campbell  
B. Daniel  
G. Dick  
S. Gee  
C. Hancock  
K. Holder  
D. Kleemann  
P. Letheby  
D. Mann  
W. McGown  
C. O'Donnell  
M. Seppelt  
R. Stephens  
A. Summers  
P. Winter  
G. Wyatt

G. Dick, C. O'Donnell, D. Adderley,  
B. Thomas, B. Daniel.



## Billiards

Having purchased a new set of snooker balls and two new cues this year, the billiard room is quite a popular place. At the moment the table is in need of a new carpet, new pockets and re-aligning, but whether or not this is carried out to the extent we would like depends upon funds available from the Sports Union. However, we feel that we are justified in asking for such a large amount of money.

As a result from a tournament held in September, the "plonkies" scooped the pool—perhaps because they have more time than anyone else to practice. Eventual winners were: Singles, K. Pfeiffer; doubles, K. Pfeiffer and C. Hancock.

It is hoped that more tournaments can be run and that billiards may be added to the Badge awards.

## Social

Now that it is over, it is hard to realise the amount of work that has gone into the successful events run this year by the Social Club. We commenced preparation for the Cabaret as early as May 7th, and it paid dividends with the combination of an unusual decor in a travelogue theme, excellent attendance, and good music by "The Mystics," to say nothing of a busload of girls from Adelaide.

After the Cabaret came the combined Amateur Hour and Barn Dance on the night of Gala Day. Very few expected this to be a success as "no one will stay all day and into the night." However, many stayed and many more turned up to be entertained by Mick Milne's Trio, Rocker Cocker, the "Leidertaffel Orchestra," and the like. It was an exceptionally good evening, and many thanks go to Mr. Burrell for his effort in making it swing.

After Gala Day came the Ball on Friday, October 11. We expected this to be well patronised, but it could have been

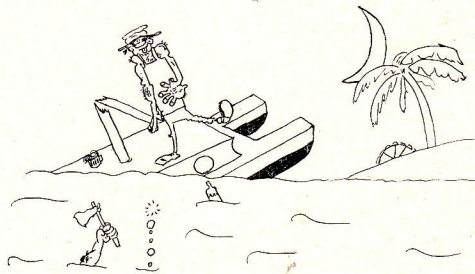
better. However, the music was by "The Penny Rockets," and everyone there had a terrific time, which is one way of gauging success.

Our thanks go to Mr. Hiddle for his help and suggestions; to Mrs. Herriot and Mrs. Krause and other staff ladies for help in flower preparation, and the stalwarts in the kitchen and those who helped as drink waiters and decorators, without whom no show is a success.

---

## Shearing R.A.C.

His handpiece flew, the ringer new;  
He was knocking the records down.  
Then he got his head caught in a gate—  
And didn't he look a clown.  
But he still made haste—he'd no time to waste,  
This ringer of R.A.C. shed,  
And he'd shorn three sheep before we got  
That gate from off his head.



A year of cellar work down the drain

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# Gala Day, 1963

Those who are closely connected with the College have often discussed the possibility of having an adequate swimming pool. In 1962 these dreams began to take on some shape when, at an "Open House" day, the Honourable the Premier of S.A., Sir Thomas Playford, announced that the Government of S.A. would back any fund-raising efforts on a £ for £ basis for up to £1,500 for each of the next three years.

No one doubts the value and generosity of this offer, but it naturally involves responsibility on the part of those associated with the College, to raise matching funds.

The Gala Day on September 28th was designed not only to try to raise funds for the swimming pool, but also to show

visitors something of the College and its activities.

During the morning the visitors were invited to inspect the College. Everywhere sign-posts directed them to the points of particular interest—to the shearing demonstration; to see the beef cattle; to the silage making operations; to the workshops; to the library with its display of student activities; the accommodation block, the chapel and other points of interest.

Soon after 12.30 p.m. the Minister of Agriculture, the Hon. Mr. Brookman, M.P., was introduced to the gathering by Mr. Herriot, and was asked to officially open Gala Day.

In his remarks the Minister pointed out the need for adequate facilities, including those for swimming, for the College. He expressed his pleasure at meeting again a number of old scholars who were students of the College in the early 1900's.

During the afternoon visitors patronised the trading tables (cake, handwork, produce, sweets and tin ware), the side-shows, the weight guessing and the tractor driving competition. Children were well catered for with a creche for the "tots" and side-shows, pony rides, hay rides and films.

The barn dance and amateur hour in the evening proved to be an interesting and entertaining event after the barbecue tea.

Not to be forgotten is the fact that old scholars of league, amateur league and country football club fame, combined well to show present scholars that they are not yet completely "over the hill."

For the last few weeks and days many had worked very hard. It was a fine combined effort by people both on and off the College. It was estimated that 1,000 attended.

Financially results were encouraging and pool funds benefit, as a result by donations and "takings" on the day itself, by more than £600. Thus, at this stage the pool fund stands at about £1,200. Of course there are still thousands of pounds required before we have the reality of A NEW POOL.





# Chicago feed lots

The trip from London to Chicago by Boeing 707 was uneventful, except that on the last leg from Detroit to Chicago there were only four passengers on the plane which has a capacity loading of 110. O'Hare airport, outside Chicago, is the biggest airport in the world and has four main runways working full time. I spent five days in Chicago, most of the time visiting feed lots; none of them being any closer than 70 miles from Chicago.

Chicago is still the largest cattle market in U.S.A., but does not dominate as it did a few years ago. It used to be the big packing centre of the U.S.A., but because of labour problems, most of the big packers have moved out to other States. Sixteen-thousand head are handled daily from Monday to Friday. They were mainly fat cattle, predominantly Angus and Herefords, and no cattle over 2 years were seen. Commission selling is used and not the auction system. Commission agents who handle cattle for the sellers, have sections of the yards. Buyers come round and offer a price (roughly \$24 a hundred). At two o'clock selling finished and the highest price offered is accepted for each lot.

The first feed lot visited was near Sycamore, Illinois; 70 miles from Chicago. One thousand, three hundred head, bought as calves, and mainly Angus, were being fed. They were really good quality cattle with plenty of bone and substance. They were fed a growing ration of corn-silage and haylage from August to April and then shelled corn and vitamins as a fattening ration from April to August. They are sold off during the end of July and early August. Harvestores which are used in making haylage are very expensive and cost \$10,000 each. They are convenient because you can keep filling them up when they get a bit low; they are airtight with no waste. This farmer was just beginning to build a concrete silo for silage costing \$14,000, but to have the

capacity of 6 harvestores. Cutters for getting the silage out can be bought for \$1,200. These cutters can be shifted from one empty silo to another in half a day. Corn is fed in feeders something like oversized fowl feeders. He had no veterinary problems and sometimes used Vitamin A injections as a starter. He grows approximately 1,000 acres of corn, averaging 140 bushels an acre. He had 4 harvestores and 2 Cadillacs, but considered that he was having a tough time!

I visited a small mixed farm on the border of Indiana and Illinois. He was feeding 170 head of cattle, using steel silos erected by himself, which were completely airtight and to all intents and purposes, as good as harvestores, but far cheaper. He had one cutter for three silos; shifting it from one silo to the other. The cattle were on a full fattening ration of 12 lbs. a day crushed corn and a vitamin supplement. They averaged 2.7 lbs. weight gain a day and up to 3.5 lbs. a day. An overhead cart running on rails was used to take the feed from the silos to the cattle. He had had some trouble from a virus diarrhoea in his cattle causing 4 deaths; this was a very rare complaint. He grows his own corn, averaging 140 bushels an acre, and uses a 20-20 phosphorus, potassium fertilizer with a high nitrogen fertilizer later. Generally speaking farmers fertilize very heavily. This farmer was also milking 40 Friesians using the milk milk system. The milk is kept at a low temperature and collected once every three days.

The Dekock feed lot at Demotte, Indiana, had 1,000 acres, and corn yield averaged 100 bushels/acre. They kept 1,200 head of mixed cattle for about six months, turning them off after obtaining 400-450 lbs. weight gain. This place did not use any upright silos. They used two huge bunker silos in the side of a sand hill. The floors were concrete, but the sides had sleepers pinned into the sand. The top was covered with polythene

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sheeting covered with a thin layer of earth. One had the capacity of 6,000 tons of corn-silage, and the other held 60,000 bushels of high moisture shelled corn. There was little or no wastage in either silo. Cattle were fed about 12 lbs. This was fed out twice a day. There was an average weight gain of 2.7 lbs, sometimes up to 3.7 lbs. a day. All cattle are weighed once a month in groups of 20-25. The feeding method was very simple. A front-end loader was used. Two loads of silage and one of corn were put in a trailer and a 32% protein supplement was added. There were three sheds, half-covered, holding 1,200 head. There was a concrete ramp down the middle of each shed with feeders on either side. The tractor was driven through the shed, the feed being augured out to one side. The tractor was then driven down the other way to feed the other side. A full trailer would feed two of the sheds of 800 cattle for one feed. The full feeding of 1,200 head took one man less than half a day.

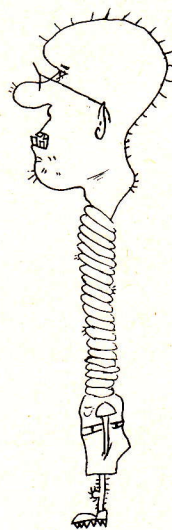
Each yard had an oiler in it. This is a long circular container with a piece of canvas hanging down. The cattle used this as a rub, and was used against lice and to keep flies off the cattle—it also stopped the cattle rubbing up against the yards which can cause quite a problem after a while, as the cattle loosen the wires badly. Vitamin A injections were given to all cattle entering the lot as was Stilboestrol—giving higher weight gain figures. The feed lot run by the Dekocks was regularly visited by Purdue University and was regarded as a show place because of its simplicity and its economic feeding operation.

Four days before I visited the "lot" a tornado had swept through, taking the whole roof off one cattle shed, spreading the iron roof and timbers over about fifty acres; no cattle was hurt.

Every feed lot operator I met said that the fully automated feed lot, often publicised, needed too much capital. Comparatively large numbers of cattle can be handled with only a small labour force and without automation. There are some

automated feed lots running 10,000 cattle. High corn yields, high beef prices and the high price of land make it necessary and possible to fatten cattle in lots in America. In Australia, with lower beef prices, lower land values and the high cost of feed, it is not profitable to run feed lots here. It might be economical where there are large quantities of cheap feed available, but this is rarely the case in Australia.

M. BROWN.



"Phantom after investigating the new spindrier washing machine."

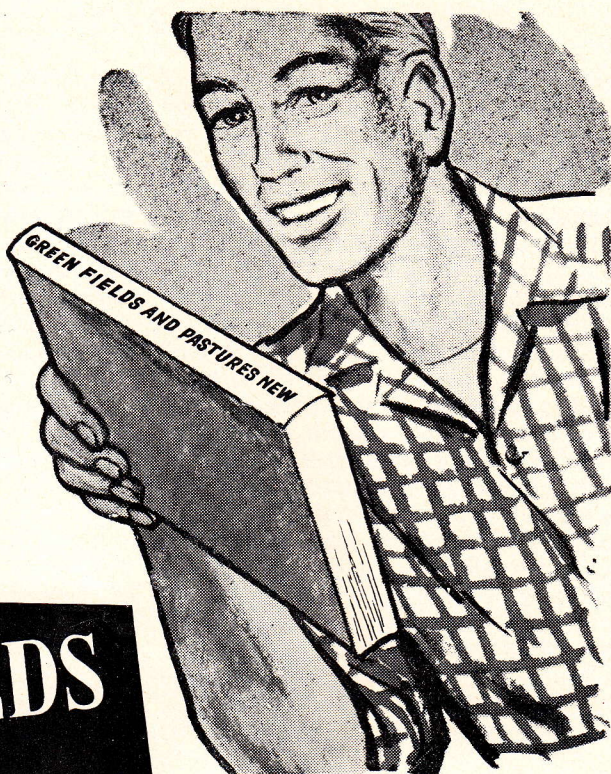


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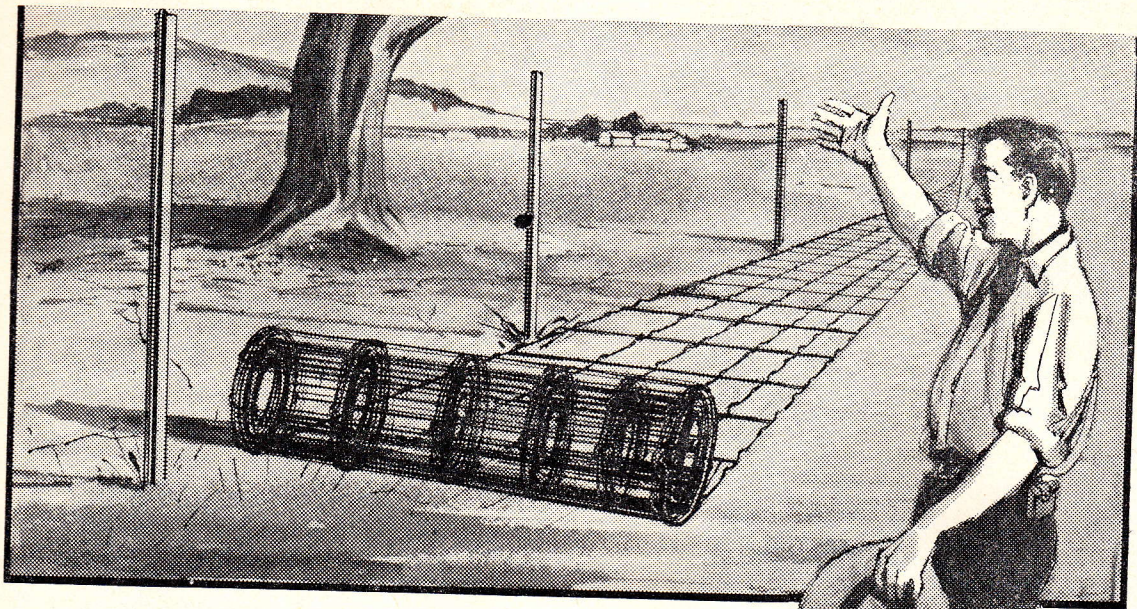
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**LENGTHS:**



# STAR STEEL FENCE POSTS



- eliminate hole digging
- eliminate filling and ramming
- eliminate ant or fire risk
- reduce maintenance costs

## CAN BE ERECTED BY ONE MAN

When you specify Rylands Star Steel Fence Posts you'll be saving yourself time and money on erection costs and reducing maintenance to a minimum.

Rylands Star Steel Fence Posts give you a virtually indestructible fence. They're ant proof, fire proof and flood resisting. There are no holes to bore or dig. No filling or ramming is necessary. One man can erect Rylands Star Steel Fence Posts with ease.

## AVAILABLE BLACK VARNISHED OR GALVANISED

In high corrosion areas order **galvanised** Star Steel Posts and use **heavily** galvanized wire! You'll save money for years because **erection** costs more than materials!

**LENGTHS: (black varnished):**

4' 6" (356 approx. per ton)	6' (267 approx. per ton)
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230/240 VOLT PORTABLE

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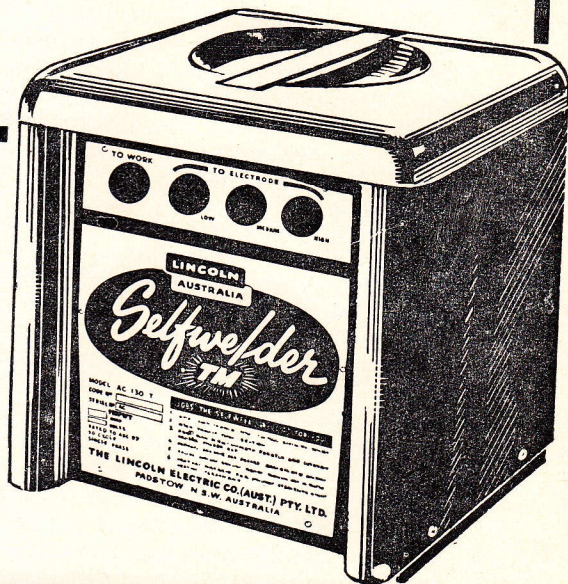
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# Jackerooing and all that

My introduction to Australia was somewhat abrupt. Three days in Melbourne; then by rail and mail car 280 miles North. There had been no rain for four months and it was in the middle of January. Within 10 days I was camped out under the stars at a cattle camp. Seven hundred cattle breaking out of the yards in the middle of the night, shooting a lame Hereford bull with a .22 and helping draft and mark 300 calves in a day, were experiences met with in the first fortnight in Australia.

The station was 180,000 acres, the largest freehold (by repute) in N.S.W. It was stocked with 50,000 merinos and 1,500 Herefords. Thirty-two men were employed. We did everything in a big way—we dipped 4,500 weaners before dinner one day—the biggest mob of sheep I helped drove was 7,000 ewes.

As a new chum, jackeroo and a Pom at that, practical jokes were the order of the day. A whip quietly slipped under your companion's horse's tail, is one well worth trying! Many amusing incidents stand out, though they are always better told rather than written.

The men's cook was one of the dirtiest people imaginable, whose cooking was bad and a temper to match, but at the same time having a heart of gold! I like under-done chops. His were a sight to see. He would do them for me when I arrived for breakfast. One minute either side on the top of a wood stove—burnt black on the outside, raw in the middle. They were thrust under my nose on an enamel plate with the cryptic remark—"If you don't like them, chuck the B—out"! Chops or stew were standard for breakfast.

A count of the dogs at and around the Homestead would rarely fall under 60—while on the whole station rarely under 90. Whips, .22s, .303s were used at all hours of the night to quieten them, with only mixed success. One particular man at one of the out-stations had fifteen dogs. He couldn't control two at the same time, and as he rarely took less than five out together, the result was a sight to see. We

often met him in a paddock (average 4,000 acres) on a bicycle with quart pot and saddle bag on the handlebars bemoaning the fact that his horse had got out of the night paddock.

We had many odd characters working at the station for short periods. Halfcaste, plonkies, no-hoppers, the lot. One used to consume two bottles of beer and a 26 oz. bottle of over-proof rum a night—he was rarely out of the shadow of the D.T.s. Two old rams were killed every week for the dogs. One unforgettable occasion was when a 200-guinea stud ram only purchased a month before was slaughtered, accidentally, for the dogs.

One out-station was looked after by a man who had twelve children. A visit to his house was like visiting a rabbit warren. Kids would be seen peering round trees, from under the house and all sorts of unlikely places. They were scared stiff of visitors. The story is told by the manager of a man who worked there some years ago. He used to partake of a shower once a week. This in itself was not unusual. The fact that he used to stand under the shower in gum-boots, raincoat and sou'wester used to strike the men as odd. His reply to the inevitable question was "I don't want to catch ruddy pneumonia!"

Landrovers and horses were used for stock-work. Eighty thousand acres could only be mustered on horse back. Lignum scrub and reed beds covered the majority of this area which used to be flooded for up to three months of the year. We used to muster the cattle out of this country once a year. The cattle were very wild with much of the mustering done by sound rather than sight. The noise of the cattle crushing through the scrub was often the only indication of their presence. Leaving early in the morning (4 a.m.) in the summer in a landrover to collect horses to muster this country, often entailed filling a short-wheelbase landrover with 5 men, 5 saddles and up to 10 dogs.

We never lambed in this portion of the property because of the pigs. We hunted

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# Esperance Land Development

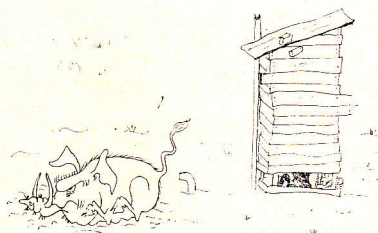
them in many ways. Shooting; baling them up with dogs and hitting them with the heaviest object to hand—or even turning them over and cutting their throats with pocket knives—a hazardous if not exciting occupation.

I spent three years on this station and I never regretted one minute of it. It was a good, if somewhat unorthodox, introduction to Australia.

R.M.B.

Caudal, cranial left and right,  
In vet-anat. we get a fright,  
Proximal, radial, distal, ventral,  
I wonder if the liver's central.  
Plantar, oral, ulnar, volar,  
What's the one next to the molar,  
Scapular, humerus, radius, carpus,  
Tibia, fibia, metatarsis,  
All of these and many more  
When Mr. French comes in the door.

“STIRRUP”



More extension to the piggery incorporating some of the most modern trends in design and convenience.

Last February I travelled by super spreader from Apsley in Victoria across the Nullabor Plain to Esperance in Western Australia. The three super spreaders, owned by the contractors March & Reichstein, were cut-down International AR-160 trucks. All the cabins had been taken off except the seats. All three trucks were fitted with heavy springs and a V-shaped tray capable of carrying one and a half tons of super per load.

We arrived in Esperance four and a half days later, travelling about four hundred miles a day. For the next three months we worked for the Esperance Land Development Company, an American Company, which bought a million and a half acres to develop. Our job was to super spread 42,000 acres of newly seeded land. Each block was 2,000 acres of which 700 had been sown down. Distributed between two blocks was a cyclone shed, and this is where the super was usually dumped. All the super was handled in bulk from the train to trucks, carrying fifteen tons a load, and then carried from Esperance out about forty-five miles and dumped by a shed in a hundred-ton heap. The heap was then covered by a huge plastic sheet valued at £75, weighed down at the edges by small bags of super. When the heap was ready to be used the plastic sheet was taken off and rolled up.

The super spreaders were loaded by a front-end loader attached to Chamberlain Champion; the front-end loader being fitted with a 1½ cubic yard bucket.

When filled the trucks would begin spreading, travelling around a seven hundred acre piece, delivering a bag to the acre and travelling 10 ft. apart. About 60 tons a day were spread.

Most of the land that was spread had quite a number of stumps on it and then it was hard going for the trucks when fully loaded, but all the trucks were equipped with two-speed axles. Most of the land is covered with a light grey sand over gravel or sand over clay. The scrub is very low, easily cleared and ploughed in. Good crops and pastures can be grown in a 20-inch rainfall.



# Letters to the Editor

Dear Sir,

As a prominent shareholder in various icecream companies and having a vital interest in several dairies, I feel that it is my duty to bring to light a fraud which is being perpetrated at this "Fine Old Institution." I refer, of course, to the icecream fraud.

Recently at Gala Day I was delighted to spot some figures in white coats in a stall. Thinking to refresh myself, I inquired as to what flavours they had, and was shocked to find that it was a side-show. This was no more nor less than an overt confidence trick to lure the icecream loving children into a game of chance. Upon strongly voicing my opinion, I was assured that it was done in all innocence—I ask you "since when have icecream men worn anything but white coats?"

Surely you can imagine my disgust when on visiting the College the next week, I had the unfortunate experience of dropping into the Workshop to find an icecream man selling his goods in such an unhygienic place. Upon asking him to go elsewhere I was embarrassed to discover that he was not a vendor but was in charge of the establishment, and that while morning coffee and cake was to be had, icecream was not as yet available. I say, "let's use white overalls and do not confuse everyone. In this particular incident it not only downgraded the vendors' universal uniform, but it is dangerous..

We are surrounded by safety guards and receive farm safety lectures, but find it most confusing to see these flapping coat-tails dancing around moving belts and machinery.

Let's get back to our "King G's" and stop this tomfoolery for all time.

ICECREAM LOVER

ED: Do you mean to say you are NOT wearing your white coat? It is the dentist who is wearing King G's this year.

Dear Sir,

Due to the ever-increasing mechanisation taking place in Australia, I think it would be appropriate to feed the College hacks to the lions, or trade them in on a Japanese agricultural motorbike. I'm sure students would be much more responsive when rostered on Sheep.

After purchasing these machines, I suggest the A.P. Lab. could attempt to breed a fast-running sheep, to add zest to the shifting of mobs.

Another suggestion, sir, is to procure several battery-powered runabouts to run the milk from dairy to kitchen and other odd jobs.

ROCKER COCKER

ED: This is food for thought. Without horses, we would have a surplus of carts. Japanese motor bikes are expensive, but First Years pulling rickshaws . . . !

Dear Sir,

In spite of continual annoyance to students the stewards persist in polishing the dining room floor and associating passages. These surfaces are the downfall of many students who unavoidably waste much tantalising college food. It would be to general gain if the effort of polishing was put into another wash.

(Signed) STUDENT R. SUP.

ED: If this be your only downfall while with us, I say "pour on the polish."

Dear Sir,

Is it possible  
I have been  
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greasing.

ED: First  
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Flashing t  
Rails draw  
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Race for f  
"Well, tha



Dear Sir,

Is it possible to get honours on garden? I have been on garden 14 times and failed to gain honours yet. Have you any suggestions how I could score without greasing.

“GLADIOLI LOVER”

ED: Firstly go to bed early instead of to Glad's place and secondly when on garden, get off your “bulbous extremus.”

## The Branding

Lowling, wheezing, snorting, snuffling,  
Poring, knocking, kicking, grunting;  
Wild eyes flashed with fierce intent,  
Hot flanks heaved and hard-woods bent;  
Long whips cracked with curdling cries,  
Heavy smoke rose to the skies;  
Burning hair and singeing skin,  
Stified curse beneath the din;  
Frantic bellow—but in vain,  
Down—the hot iron fell again;  
Slash of knife and spurt of blood,  
Flying hooves and flying mud;  
Barking dogs for man to cite,  
Flashing teeth with angry bite;  
Rails drawn—and frenzied rush,  
Slipping, sliding in the slush;  
Race for freedom—one by one,  
“Well, that's that”—the last lot's done.

M. L. MILNE

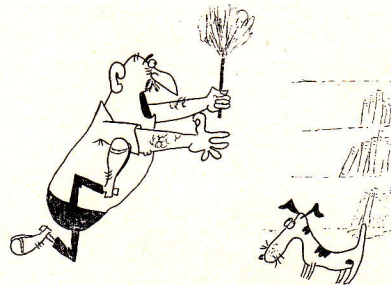
## Deere Diaree

The annual task of marking diaries has long been regarded as an onerous one by the particular staff members whose lot it is. There is, however, a compensation. The sometimes too frank appraisal of the activities by the various sections and the wonderful “schoolboy howlers” that all too frequently occur.

The entry below is a selection from Diaries of last year.

Deer Diaree,

I wish we were payed like the starf. As well as the rutene work I have fed and wartered carves, shawn sheep, given a local antithetic with a serringe, taken  $\frac{1}{2}$  bread lambs to the abbtores, cut sharf, fed cows sialage as a mantince rassion, souldered troughs, chipped weeds round the sourage damm, filled the silos with the grain orga and painted posts with crea-soak.



“Get out of my library.”



# "In the Wet at R.A.C."

(Roseworthy Aquatic College)

With apologies to Neville Shute.

The long spell of heavy and continuous rainfall since Easter has altered the whole normal routine at R.A.C.—evidence of this change can be seen in the human element, rural activities, beef cattle—in fact every section has reacted to the saturating effects of the wet weather.

That broad cynical smile of the Principal's has contracted to such an extent that it is now merely a smirk. Mr. Philp, who has lived in and around the Main Office for about three score years and ten is daily becoming smaller. Constant contact with the showery elements as he walks to and from work has almost succeeded in eliminating that rosy complexion that has been Mr. Hiddle's pride for a number of years—another gentleman whose shiny bald pate has been a prominent landmark for many years now shows signs of rejuvenation; a downy green fungus is said to be appearing on this previous nude part of his human frame.

On the farm, all tractors have been fitted with periscopes and oxygen tanks, equipped for amphibious action when conditions make it impossible to use them as land tractors. All drivers, both farm hands and students are compelled to wear Mae West life-jackets. The T.D.9 has floats fitted. A deadweight ever since its purchase, it is essential she should float alone. Each morning as soon as they arrive (about 9 a.m.) the Farm Manager and his Assistant can be seen wading out to the farm race, clad in skindivers apparel, plus spear guns and snorkel, presumably looking for a dry spot or two. By noon they are generally back with the latest deep sea reports. In the meantime, Jeff Brooks can be seen hauling his drag net across "Henschkes Lake" adjoining V. & O. East—Geoff Haydon can generally be found with dab net and tilly lamp in the lagoon in E8 searching for garfish. Harold Ward can be seen struggling against the tide as he edges his way up through the treacherous currents of N.W.

Race, seeking a lonely atoll on Graingers Road.

Pop Inglis can be seen emerging from the murky depths of Leskes garden with a pipe wrench in one hand and a ¾in. pipe fitting in the other, to have a breath of fresh air and to take a nip out of his Oxygen Bottle. Some say this bottle is refilled by young "Tom," the lad from the Cellars. Ted Lehmann has replaced his pedals with paddles, and now has a Water Scooter.

Mr. Stephen has his fowls laying in the open these days; it saves washing the eggs by hand. "Easi Work Harry" they call him.

Messrs. Smallwood and Sutcliffe can daily be seen broadsiding in the mud between the silos and the implement shed in an illustration of driving prowess more fitting to the Isle of Man T.T. course than where there is a 15 m.p.h. speed limit. Remember there is always a first time!!

Mr. Hooper has dispensed with most of his Poll Beef cattle and switched to a breed of water buffalo.

Mr. Burton is deeply interested in any type of seaweed that he can use to replace the Berseem Clover in the plots.

During the period when the paddocks were water-logged, the Principal and his energetic disciple decided to alter the landscape by transferring certain miniature lakes in E9 to other areas in this paddock. Subsequently gangs of first and second year slaves, armed with shovels, could be seen reticulating water down the gentle slopes.

There are rumours that next year there will be attempts to move the water in the opposite direction using the same method.

If successful our principal will submit a thesis for a "Nobel Prize," and a certain Newton family will sue for libel.

Our permanent school bus driver has been all at sea with his delivery of goods lately. Noting the excessive number of dags on the College flock, he decided that a 15-inch dual type electric grinder would be ideal for removing them, and without

waiting for that be, p machinery developed farm adjacent way Station to raise his unfair com

The relief the staff is revival; on Cellar Dw possibilities he is frantic to leave th He is assisting sener, also by Pope H these latter concerned about having on garden. D one has b darins—to

There is who are ex on a certain the risk wa Gamble. armed with round the they eventu Peasants, wounded l borne. S wounded were sent l health and parental gu returned to subdued and it is m high again, year is ove

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waiting for permission from the powers that be, promptly delivered this piece of machinery near the wool shed. He also developed a desire to establish a chicken farm adjacent to the North Gawler Railway Station, which caused Mr. Stephen to raise his voice in loud protest against unfair competition.

The religious life of some members of the staff is showing signs of a vigorous revival; one particular "Guy" who is a Cellar Dweller is so concerned about the possibilities of a second great flood that he is frantically building an Ark in which to leave this land of sin and degradation. He is assisted by Barry "Rasputin" Drienser, also spurred on to greater efforts by Pope Ron and Cardinal Carter; both these latter day Saints are deeply concerned about the effect "Old Nick" is having on the V. & O. and vegetable garden. Dame rumour has it that some one has been interfering with the Mandarins—to say nothing of the Sultanas.

There is also a band of Staff members who are extremely keen bird hunters, and on a certain night just recently, although the risk was great, decided to have a little Gamble. Shod with rubber shoes and armed with torches they went prowling round the precincts of the College where they eventually disturbed a flock of young Peasants, some of whom were slightly wounded before they got properly airborne. Suffering from shock and wounded pride, these young peasants were sent home to be restored to normal health and strength again under tender parental guidance over the weekend. They returned to the College next week rather subdued and had dried out quite a lot, and it is my guess, "They will not fly so high again," at least not until their third year is over.

Comments rife among the students re the present wintery conditions are varied and wide. King Kong suggests growing rice under present conditions. Says he, "A handful a day is all we get in our jungles," and by the look of his torso, I would say it was a mighty small handful. Choppy Soo suggests snails and bamboo

shoots would do very well. Dennis the Menace and Mighty McGown, both from the Emerald Isle, declare that if they didn't get more rain in a week in Tasmania than we've had since Easter, it would be one of the worst droughts on record.

Murray Brown, likely M.C.C. captain in the near future, says we've only had a slight Scotch mist, compared with "wot we get at 'ome."

Still, there it is, it can't go on for ever boys and "If Winter comes, Spring can not be far behind."

"It's raining again, therefore I will just check my thigh boots again to see if they are still waterproof. My advice is, "If you know of a better 'ole, go to it."

"OLD BILL."



Or'right Lad, I'll give it to you straight from the shoulder.



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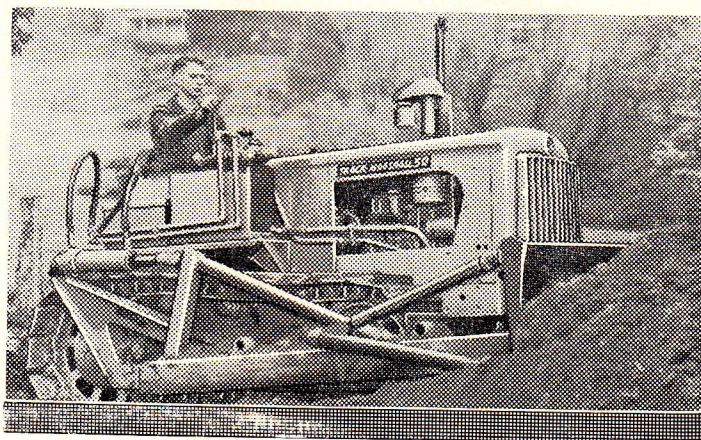
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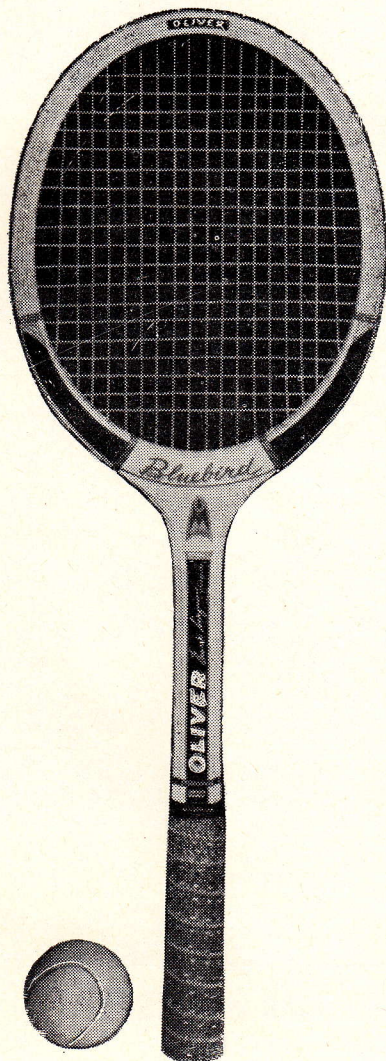
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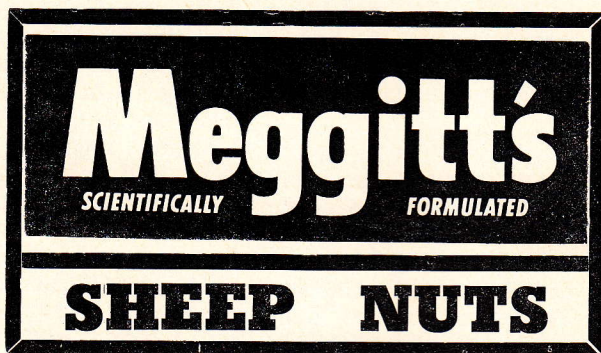
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# Study period at the College

The setting is not quite the same as you would find in most gambling casinos in Monte Carlo, within the hours of 12 p.m. and 6 a.m. in the morning. Variations in dress such as the college blazer replacing the white tuxedo, dirty unwashed denim jeans replacing the knife-edge creased terylene trousers and sometimes no tie at all where the Maverick tie is usually worn.

The surroundings also differ in Room 5 Casino (the room number has been changed for obvious reasons), the plush green velvet drapes replaced by cotton curtains with horses frolicking on green pasture, giving the place a more homely, if not expensive decor. The floor—although not covered by soft carpet—shows forethought in that the linoleum is more tolerant to cigarette butts and ashes. A few more differences such as the white hospital bed covered with blankets taken from a sleeping student in place of a green felt covered card table and, perhaps most important of all pennies, threepences (and sometimes a halfpenny being used in place of a penny by one of the more disreputable players) replacing the lighter, crisper but not as noisy forms of currency.

The game (pontoon) has started and from here on there is little comparison, especially concerning the characters. There is the young fellow from the country, determined that even if he is going to lose it will only be one penny at a time, regardless of the fact that everyone else is betting threepence.

As I move around "the table" I come to one of the most interesting characters—the one that's shuffled many a pack in his short lifetime. He is usually the "banker." All parts of his body are relaxed as he lounges in the chair, except those greedy little eyes, watching everyone and everything going on around the table. His face, usually expressionless, only changes to give one the wrong impression of the cards he is holding.

The game is going along nicely now—the first-time player winning encouragement money. At the end of the game this

small amount of principal seems to be paid back at an alarmingly high interest rate; only to be interrupted by the sound of the familiar footsteps of the duty officer. Fortunately allowances have been made for such interruptions, so that while the officer is trying, in vain, to open the door with the vital unlocking device missing, the scene inside rapidly changes. When the D.O. is finally admitted with apologies regarding the poor quality locks used on the new doors nowadays, everything appears to be in order, due mainly to the perfected routine exercised in case of such complications.

The Duty Officer satisfied, continues on his way as does the game of pontoon until 9 o'clock end of study period, when the voices are no longer whispers but shouts.

The missing part of the door lock has been found and is fitted into place, thus allowing the more cautious members of the "school" to enter this "Den of sin" and try their luck for some easy money. For whom! I am now beginning to wonder, as my hard earned money is drawn away to the opposite side of the table—after all I only came in here to write an article for the college magazine.

---

## College Leave

When all that's wanted is one night out,  
To sign a leave form you must be stout,  
As full particulars must be given  
To where you're going and if you're  
driven.

Come to think of it that's not so bad,  
After a while it becomes a fad,  
But when a man must up and find  
A staffie so as to get it signed!

People expect us to act like adults,  
When all they can do is find our faults,  
We must all like children go  
And to big brother our leave forms show.

The leave regulations are stated clearly,  
And if not fulfilled we suffer dearly  
Such things as cleaning sewerage drains  
Because one staff member complains!

With ack  
T

## Dairy

I've done  
For my c  
From shi  
stump-j  
But I kno  
For the Ja  
Than the  
stupid c

O! it's risi  
When the  
And you'r  
you kno  
And do a  
Through t  
Chasing I  
Strawbe

Before the  
The thirst  
The cow j  
hands a  
As the stre  
You have  
While you  
mud and

Now your v  
As you cur  
Of the heav  
splashing  
And it doe  
To think th  
Who woul  
weren't f

Next you h  
And you ch  
As each ga  
a bucket  
And you le  
As some sil  
And you'd  
you think

But at last y  
And the cov  
So you snat  
grab a cu  
While all th



With acknowledgements to an unknown  
Taswegian Cow Cocky.

## Dairying

I've done all kind of "yacka,"  
For my crust and my tabacca,  
From shifting heavy timber to riding  
stump-jump ploughs,  
But I know of nothing tougher  
For the Jackeroo and duffer,  
Than the yarding and the milking of  
stupid dairy cows.

O! it's rising bright and early,  
When the frost is white and pearly,  
And you're freezing cold as mutton; still  
you know you're got to go  
And do a blooming shiver  
Through the grass and down the river,  
Chasing Daisy, Spot and Dolly, and  
Strawberry and Flo,

Before the sun is blinking,  
The thirsty pails are drinking,  
The cow juice by the gallon, and your  
hands are keeping time.  
As the streaming milk keeps flowing  
You have to keep on going  
While your frozen feet are planted in the  
mud and in the slime.

Now your weary head is humming  
As you curse this droning, drumming,  
Of the heavy separator as the milk comes  
splashing through,  
And it doesn't cheer you any,  
To think that there are many  
Who wouldn't have their butter if it  
weren't for folks like you.

Next you have to feed the poddies,  
And you chase them round with waddies  
As each gallops down the paddock with  
a bucket on its neck,  
And you let a stream of curses,  
As some silly calf reverses,  
And you'd like to up and brain it; 'till  
you think of next year's cheque.

But at last your work is over,  
And the cows are in the clover,  
So you snatch a bit of breakfast, and you  
grab a cup of tea,  
While all the world gets rosy,

And, then dosing when you're cosy,  
And dream that fat has risen till it's  
touching two and three.

But you have a rude awakening,  
When your slip shows you are making  
Just enough to hang on grimly if the grass  
will only grow,  
Still the bracken keeps on springing  
While you've got the ferr hook swinging,  
And the paddock just as dirty as it was a  
year ago.

I've done all kinds of "yacka,"  
For I haven't been a slacker,  
And the muscles pretty hearty on my  
brawny sunburnt arm,  
Still there's nothing half so wearing  
So deadly and despairing,  
As the weary toil and trouble on a  
wretched dairy farm.

---

## The Call of Nature

Nature has the happy knack  
Of keeping itself upon track,  
The big fellow will marry small,  
The short one will marry tall.  
If the blonde lad should park  
Ten in one the lass is dark.  
You'll find this rule quite true  
Of the professions too.  
The doctor's lad wants the land  
That the farmer's son has banned,  
And the scientist's boy could be  
Even a fisherman you see.  
Hard to believe, yet 'tis a fact,  
The average is kept and opposites attract.  
That's not why my cobbler is smart,  
Or why I disliked vultures from the start  
Or my slow horse choice at the meet  
Nor that my missus will be tidy and neat,  
But the rule could and would apply  
If I was now matrimony to try  
I'm broke, there'd be no cash f'my share  
She'd have to be a blooming millionaire!



# Roseworthy Old Collegians' Association

## OFFICE BEARERS

President: J. W. GILCHRIST  
Past President: C. W. HOOPER  
Vice-President: G. R. ROE  
Hon. Treasurer: G. R. NORMAN  
Hon. Secretary: H. V. STEPHEN  
Committee: W. EDGE, J. GORE, H. NASH,  
R. FORD, A. EMERSON,  
R. RYAN  
Auditor: Mr. B. C. PHILP

## PRESIDENT'S REPORT:

It is my pleasure to present to you the President's report of the Roseworthy Old Collegians Association for the year 1962-63.

Our membership at present is 749; consisting of 565 Life Members, 170 Ordinary Members, 6 Associate Members and 8 Honorary Life Members. This only shows an increase of 10 over the year, brought about by the death of 11 members and the cancellation of membership of another 12. It is unfortunate about the latter twelve, but the Association cannot carry members who do not pay their subscriptions.

With deep regret we record the death of the following members:

L. A. Dunn	1894-5
A. McDonald	1895-6
W. F. Falkner	1898-1901
H. M. Main	1899-1902
X. A. Seppelt	1900-03
W. R. Birks	1907-09
P. H. Scarlett	1916-20
J. R. H. Warren	1921-24
P. G. Schinckel	1935-38
F. M. Feuerherdt	1939-42
R. P. Maxwell	1955-58

We extend our sincere sympathy to relatives and friends.

Our Eyre Peninsula Sub-branch held a very successful Reunion at Kimba and the South Eastern function was held at Naracoorte. I was not able to attend either of these functions, but the Principal and the Past President represented the Association at the South Eastern dinner. Unfortunately our River Branch is no longer functioning.

The Roseworthy Old Collegians Award of Merit has this year been awarded to Mr. Len Cook; I congratulate Mr. Cook, and I am certain that all members consider that he is a very suitable recipient of this Award.

**R.O.C.A. Digest.** This matter has been placed on the Agenda for special discussion by Frank Pearson. At this stage I

would congratulate Ian Fry and his committee for the excellent work, which they did in launching this publication. We have heard nothing but praise. Unfortunately, the position at present is not very satisfactory.

## Swimming Pool Appeal and Gala Day.

You have all received a circular on this matter and we are anticipating the support of you and your friends on the 28th of this month. A lot of work has already been done, especially by the wives of College Staff, and we can make this a very successful and enjoyable day. The organising committee would appreciate your advice re attendance, the probable number expected to be in your party and in what way you can support this function. This association only appeals to its members on rare occasions and from your support in the past, I am certain that we will get the same treatment on the 28th. It was my intention to leave to the incoming committee the launching of the appeal for £1,500, but members have already donated.

**R.O.C.A. Scholarship.** We have not received an application for use of these funds for two years. You probably remember that one reason for the increase in subscriptions was to allow a large grant for the Scholarship. The Treasurer's report will show that extra money is available and your Committee will be called upon to give this matter consideration. Perhaps they may even consider altering the Constitution to allow for a wider scope in applicants.

It was suprising to hear the announcement by the Premier that some money would be available to finance a scheme for land settlement. Your committee, when fighting to get finance for young men wishing to go on the land, thought that they were up against a brick wall, however, the wall has developed a crack even though that crack is very, very small. Jack Mertin, who did a great amount of work for R.O.C.A. on this matter, has supplied Wyn Gilchrist with information, and we will hear about it later.

To the Committee I wish to say thank you for your support and co-operation. It has been a pleasure to work with you and an honour to be the President of R.O.C.A.

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## Famous Old Collegian

Mr. E. L. Orchard was born in Adelaide in 1888, and most of his early education was gained at the Kapunda High School. He attended Roseworthy Agricultural College 1906-1909, and after receiving his Diploma he did pioneering work on Kangaroo Island in the American River District.

With his appointment as Farm Manager he returned to the College in 1913 and held this position until 1926. It is during this period that many Old Collegians will remember him. Neatness, attention to detail and ability to handle men and students made him a valuable member of the staff during the period when, under Mr. W. C. Colebatch and Mr. R. C. Scott, the College was developing its cereal production and experimental work.

In 1926 he was appointed Agricultural Adviser for the Mid and Upper North District. His sound knowledge of cereal growing was of great help to primary producers in the early years as an Adviser and, as the swing came to pastures, he was foremost in seeking and spreading the best available information among agriculturists and graziers over this large area of the State. Probably his work on dry land lucerne growing was his major contribution to agriculture during this period, and it was mainly due to Mr. Les Orchard that we find lucerne so widely spread and successfully grown over such a large area. To us, who at the present time take lucerne growing for granted, it is hard to appreciate the pioneering work done by this energetic Agricultural Adviser.

By 1946 he found that the long hours of travelling necessary in such a large district and the extra duties required

during the war period, were taking their toll and he was appointed Manager of the Turretfield Farm where he remained until his retirement in 1953. During this period Turretfield was converted to an example of a "Soil Conservation Farm for the Lower North District." It fell to the lot of Mr. Orchard to implement the remodelling programme as outlined by the Soil Conservation Branch; combined with the hard work there was the planning of almost a complete refacing programme to fit in with soil conservation and also the development of a system of cereal growing, pasture development and livestock production under these conditions. This was undertaken in his usual quiet, efficient and capable manner, and in 1953 Turretfield Farm became a Research Centre.

Here I would quote the words of one of Mr. Orchard's contemporaries as it seems aptly to describe him. "For forty years Les was a keen Agricultural Public Servant, very loyal and assiduous in his work, neat writer, careful recorder, good speaker and mixer among men." It was these attributes which allowed Mr. Les Orchard to leave his mark wherever he worked and to be appreciated by the producers in those areas. To Old Collegians at the present time he is known as a very keen supporter of R.O.C.A. and a regular attendant at all functions.

Mr. Orchard and family have always been good community people; giving their full support and help to the township where they were stationed and taking their places in the social and sporting activities. Mr. Orchard favoured swimming above other sports, was prime mover in establishing a swimming pool at Jamestown and is a very keen advocate for a modern pool at R.A.C.







# Student Roll, 1962-63

## AGRICULTURE

### YEAR III

Colbey, B.  
Daniel, B.  
Gallasch, P. T.  
Gamble, R. M. A.  
Holman, I. M.  
Kallin, J. L.  
Klug, T. G.  
Kong, K. C.  
Lawrence, D. P.  
Letheby, P. R.  
Milne, M. L.  
Murray, R. A.  
Paltridge, G. A.  
Pederson, R. N.  
Stiller, T.  
Summers, A. G.  
Williams, I. H.

## AGRICULTURE

### YEAR II

Adderley, D. N.  
Bidstrup, I. L.  
Brown, R. M.  
Campbell, R. G.  
Connor, R. G. S.  
Crome, G. C.  
Eyre, J. R.  
Farquhar, B. D.  
Fewster, R. W.  
Flynn, J. L.  
Ford, P. W.  
Gee, S. T.

Green, T. W.  
Hill, B. A.  
Hogg, E. S.  
Holder, K. W.  
Laffer, J. B.  
Lamshed, O. R.  
McGown, W. J.  
Soo, F. N.  
Sorrell, J. B.  
Stanley, D. N.  
Swaby, B. A.  
Thomas, L. R.  
Townsend, J. D.  
Turner, W. R.  
Watt, I. R.  
Winter, P. J.

## AGRICULTURE

### YEAR I

Baldwin, R. D.  
Brain, D. W.  
Cawthorne, J. R.  
Clarke, M. L.  
Cleggett, M. D.  
Cocker, P. F.  
Cowley, K. R.  
Derham, P. J.  
Dick, G. D.  
Downing, C. M.  
Gill, J. A.  
Gregson, C. K.  
Hughes, N. J.  
Kidd, D. W.  
Kleemann, D. O.  
Kruimink, F. S.  
Kuerschner, M. J.

Laslett, R.  
Lawes, B. A.  
Liebich, R. E.  
Mannion, P. F.  
Matthews, B. R.  
Mitchell, N. J.  
O'Donnell, C. D.  
Ransom, D. K.  
Saint, P. J.  
Sampson, R. J.  
Shepherd, B. W.  
Skinner, B. H.  
Smith, A. C.  
Smith, M. A.  
Smulders, E. G.  
Snell, L. G.  
Spry, B. R.  
Stephens, R. J.  
Thomas, B. H.  
Thorpe, A.  
Thyer, L. B.  
Wilkinson, A. J.  
Wilson, I. J.  
Walsh, G.  
Wyatt, G. C.  
Young, G. B.

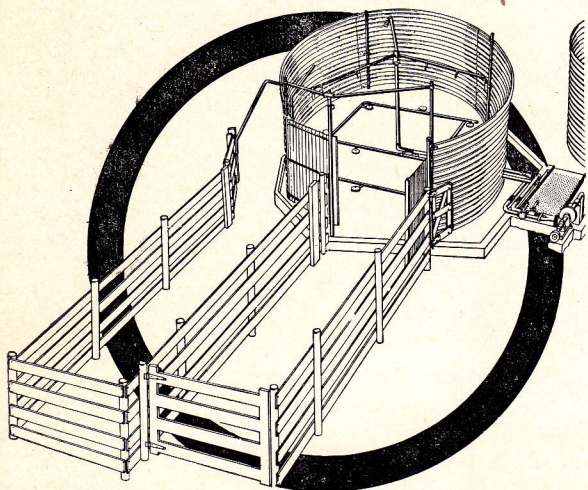
## OENOLOGY

### YEAR II

Hancock, C. R.  
Lennard, J. D.  
MacKenzie, I. J.  
Mann, D.  
Pfeiffer, K. A.  
Seppelt, M. J.



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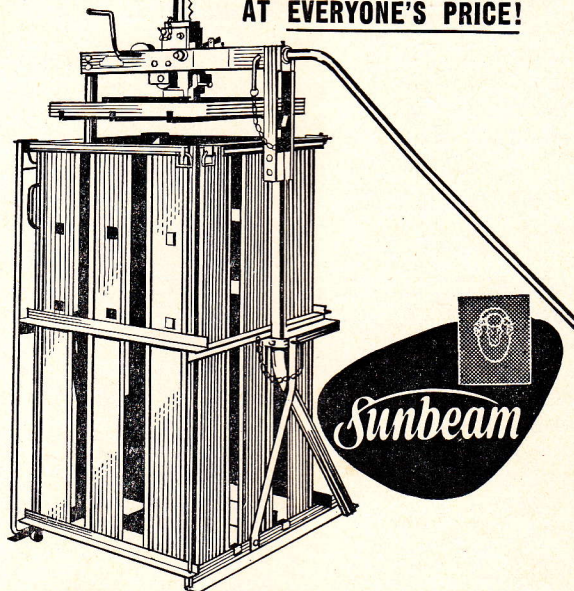
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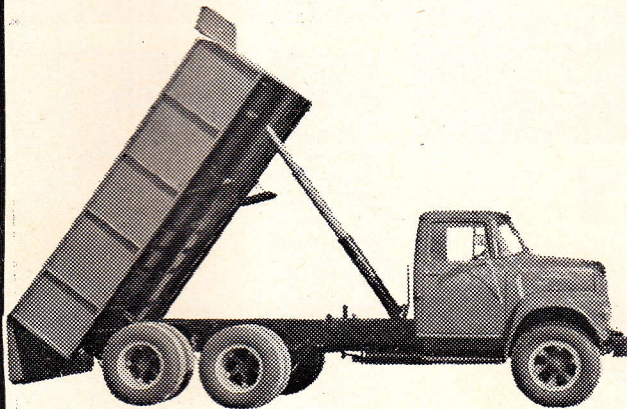
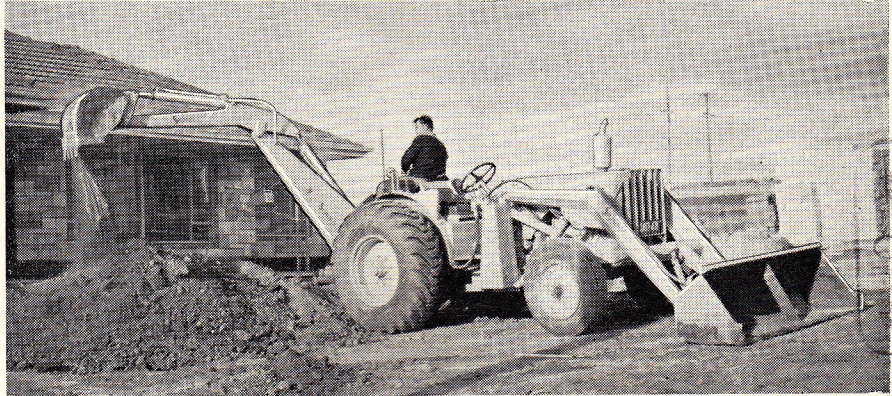
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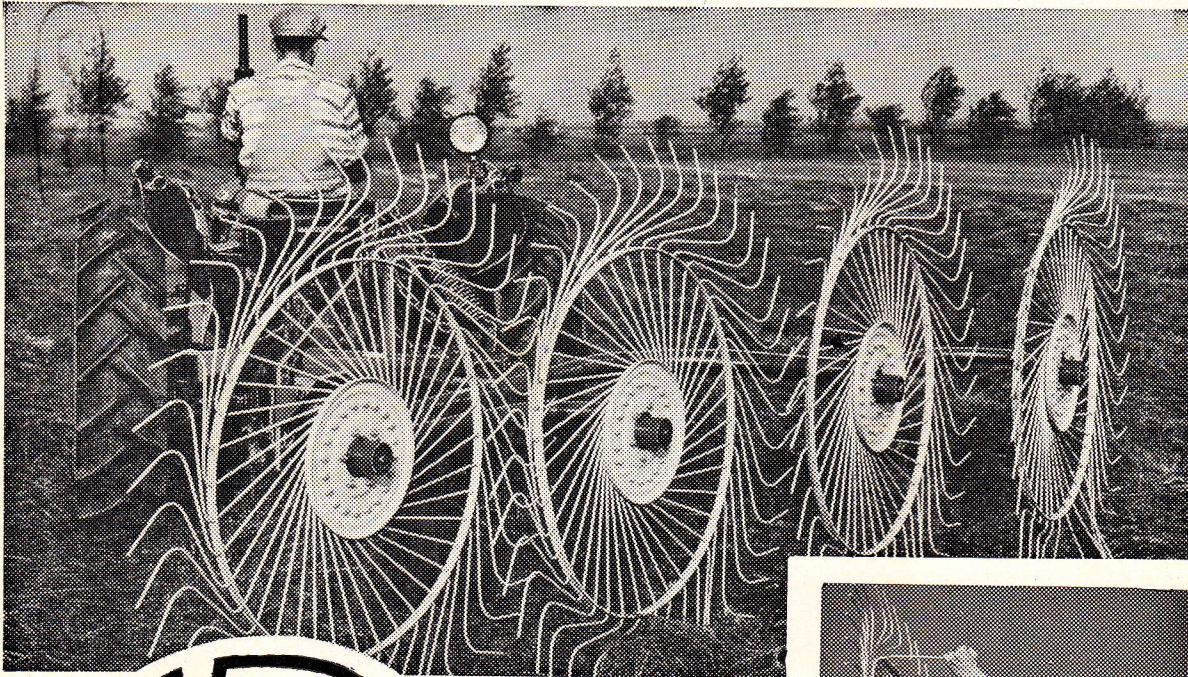
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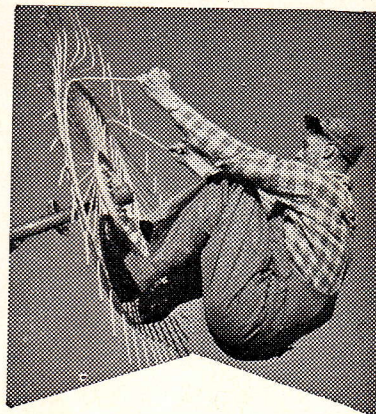


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