

*"Et conflabunt gladios suos in vomeres et lanceas suas in falces."*

# AGRICULTURAL COLLEGE

ROSEWORTHY, SOUTH AUSTRALIA.

*Minister for Agriculture:*  
Hon. S. R. WHITFORD, M.L.C.

## THE STAFF.

*Principal and Lecturer in Agriculture:*  
Mr. W. R. BIRKS, B.Sc. (Agric.).

*Housemaster, Secretary, Accountant, and Lecturer in Book-keeping:*  
Mr. W. H. COWPER, L.I.C.A.

*Lecturer in Chemical and Physical Sciences:*  
Mr. A. R. HICKINBOTHAM, B.Sc., Dip.Ed.

*Lecturer in Botany and Mathematics:*  
Mr. G. H. CLARKE, B.Sc.

*Experimentalist and Demonstrator in  
Agriculture:*  
Mr. T. A. COLE, D.D.A.

*Farm Superintendent:*  
Mr. L. W. BEAUMONT, R.D.A.

*Lecturer in Dairying and Superintendent of  
Dairy:*  
Mr. R. BAKER, R.D.A.

*Superintendent of Poultry and Lecturer in  
Aviculture:*  
Mr. F. W. GILBERT.

*Gardener:*  
Mr. W. G. FAIRLIE.

*Lecturer in Surveying:*  
Mr. A. T. GREENSHIELDS.

*Lecturer in Field Engineering and Building  
Construction:*  
Mr. T. A. MACADAM.

*Lecturer in Veterinary Hygiene, Physiology,  
Anatomy, and Entomology:*  
Mr. W. G. BENNETT, B.V.Sc.

*Supt. of Vineyard, Orchard, and Lecturer in  
Viticulture, Fruitculture, and Oenology:*  
Mr. J. L. WILLIAMS, R.D.A.

*Mechanical Engineer:*  
Mr. H. R. NOURSE.

*Assistant Experimentalist:*  
Mr. V. M. FAIRBROTHER.

*Assistant Mechanic:*  
Mr. W. R. HAYDON.

*Laboratory Assistant and Librarian:*  
Mr. J. P. EGAN.

*Assistant Farm Superintendent:*  
Mr. A. E. GURNER.

*Lecturer in Woolclassing:*  
Mr. A. H. CODRINGTON.

*Assistant Secretary:* Mr. B. C. PHILP.

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*Patron: His Excellency the Governor (Sir Alex. Hore-Ruthven, K.C.M.G., C.B., D.S.O.),*

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*Auditor:* Mr. H. C. Pritchard, A.F.I.A.

*Secretary and Treasurer:* Mr. J. L. Williams.

# STUDENTS' ROLL LIST.

THIRD SESSION, 1931-2.

## III YEAR.

Appleby, W. F. M.	Kilgour, J. C.
Beckwith, A. R.	Klose, S. R.
Bell, W. L. B.	McCarter, L.
Brechin, R. F.	Morphett, J. E.
Day, G. P.	Oppatt, L. A.
Hubble, G. D.	Pengilly, A.
Johnson, R. L.	Telfer, D. I.
	Torr, T. H.

## DEGREE STUDENTS.

Hutton, E. M.	McBain, N. J.
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## II YEAR.

Benzie, A. C.	Hooper, F. H.
Charlick, J. N.	John, W. C.
Crisp, F. G.	Kelly, C. W.
Dunn, R. V.	McAuliffe, J. D.
Eardley, D.	Milner, D. N.
Eardley, W.	Noonan, J.
Emery, R. E.	Packer, R.
Gee, B. R.	Patterson, H. R.
Gibbins, D. S.	Pollitt, C.
Gibbs, H. C.	Pownall, R. A.
Honey, H. M. W.	Sobels, L. T.

## I YEAR.

Allan, A. W.	Haydon, C. W.
Angove, P. C.	Hursthouse, J. W.
Arnold, E. A.	Jones, R. H.
Booth, B. L. S.	Newland, J. H.
Cleghorne-Dunn, J. G.	Nicholl, J. W.
Craig-Gardiner, G. R.	Richards, M. H.
Feuerheerdt, A. W.	Richardson, R. T.
Gilbert, A. G.	Ryan, H. T.
Goodes, D. J.	Ryan, K. T.
Gunson, A. W. M.	Stirling, R. B.
Hagley, R. E.	

# OFFICE-BEARERS, 1931-32.

*President of All Committees:* The Principal.

## *The Student Committee—*

Manager: Mr. A. R. Hickinbotham.

Editor: R. F. Brechin.

Sub-Editor: T. H. Torr.

G. P. Day, C. Pollitt, A. W. M. Gunson.

## *Councilmen and Vice-Councilmen—*

Third Year: R. F. Brechin and W. L. B. Bell.

Second Year: R. V. Dunn and F. G. Crisp.

First Year: A. W. M. Gunson and A. W. Feuerheerdt.

## *The Sports Union—*

Chairman: The Sportsmaster (Mr. Baker).

Secretary: A. R. Beckwith.

Treasurer: Mr. B. C. Philp.

## *Delegates—*

Athletics: J. D. McAuliffe.

Cricket: W. L. B. Bell, L. T. Sobels.

Football: R. F. Brechin, G. P. Day.

Gymnasium: J. N. Charlick.

Rifles: R. A. Pownall.

Swimming: L. McCarter.

Tennis: T. H. Torr.

## *Athletics—*

Manager: Mr. T. A. Cole.

Joint Secretaries: R. F. Brechin, L. A. Oppatt.

J. G. McAuliffe, R. V. Dunn, R. B. Stirling

## *Cricket—*

Manager: Mr. J. L. Williams.

Captain: R. F. Brechin.

Vice-Captain: Mr. J. L. Williams.

Secretary: L. T. Sobels.

W. L. B. Bell, J. C. Kilgour, R. V. Dunn, D. J. Goodes.

## *Football—*

Manager: Mr. Baker.

Captain: R. F. Brechin.

Vice-Captain: G. P. Day.

Secretary: R. F. Brechin.

R. V. Dunn, C. W. Kelly, A. W. Feuerheerdt.

## *Gymnasium—*

Manager: Mr. Gilbert.

Secretary: J. N. Charlick.

L. Oppatt, R. L. Johnson.

## *Rifles—*

Manager: Mr. T. A. Cole.

Secretary: R. A. Pownall.

R. L. Johnson, J. E. Morphett, F. G. Crisp.  
A. W. M. Gunson.

## *Swimming—*

Manager: Mr. Gilbert.

Captain and Vice-Captain: To be elected.

Secretary: D. N. Milner.

A. Pengilly, L. McCarter, R. V. Dunn, D. J. Goodes.

## *Tennis—*

Manager: Mr. Baker.

Captain: R. Packer.

Vice-Captain: C. W. Kelly.

Secretary: T. H. Torr.

G. D. Hubble, B. L. S. Booth.

## *Social Committee—*

Manager: Mr. Cowper.

Secretary: G. P. Day.

Messrs. W. G. Bennett and F. W. Gilbert.  
G. D. Hubble, C. W. Kelly, R. A. Pownall.

B. L. Booth, A. W. Feuerheerdt.

## Editorial.

### NEAR ENOUGH.

Each nation is characterized by its own peculiarities, habits, customs, and ideas. The Frenchman is renowned for his polish, the Englishman for his conservatism, the American for his systematic business and speed, and the Australian for his laxity, tolerance, and easy living.

Our good climate has no doubt played an important part in the development of this undesirable characteristic. Mild winters, spring warmth, and bounteous fruits of summer will bring contentment and peace in a land where there is always plenty. Our relatively safe position in relation to foreign powers, and freedom from external influences may be other contributing factors. These Utopian conditions have lulled the growing nation into a position of false security, and as we have developed the two catch-words "Near Enough" have been indelibly moulded into our characters.

If any one doubts this simple statement, let him listen to any body of Australians at work, no matter whether it is on the farm, or in the city, and he will not wait long before these fatal words are spoken.

It is not our politics that are misleading us; it is not our administrative bodies that are directing us the wrong way; our finances are not at fault; but it is essentially an attitude towards our work, politics and business. The slackness of the individual becomes a burdensome handicap when applied nationwide. In agriculture we have not far to look to find many examples of this.

Our apples are reported to land in London, Hamburg, and Glasgow in an unsatisfactory condition, compared with the pro-

ducts of other countries, like Canada. Buyers agree that there is a lack of finish in our article. After all the labours of production, apple-growers throughout the Commonwealth seem content to despatch their goods overseas incorrectly packed, poorly graded, and unattractively finished—that's near enough!

It is well known that graded selected seed brings the best returns, that infertile fresh eggs command the highest prices, and that the tastes and requirements of our overseas customers must be carefully studied if our exported products are to receive their share of the buyers' attention. Yet many farmers indiscriminately sow inferior seed, gather up and sell month-old eggs with great pride, and disregard the subtle demands of London housewives. It's "near enough," but such practices inflict serious losses on the nation's income, and damage our goodwill and prestige overseas. The people of Denmark, for example, know better than commit these grave errors, for they appear to possess a keen realization of the cash value of attention to detail.

In one phase of our national life, it is refreshing to observe, that we have not permitted these slack methods to develop. All sport receives serious attention. The Australian Eleven is not a body of "near enough" experts; the Davis Cup Team plays in grave seriousness to uphold our prestige in France and England. In sport it is our ambition to lead the world.

Near enough is not good enough, and if we are to gain high honor and success with the other peoples around us, our national attitude towards work and methods requires some change. A new education and a reshuffling of ideas may bring about this happy result.

## Current Events.

### NEWS AND COMMENTS.

The current season opened with excellent rains, and to the end of August there was only a few points difference in this year's rainfall and the annual average to that month. Ploughing and seeding operations were held up at times through the ground being in such a soft and moist condition. These rains, together with favourable conditions, were responsible for an abundance of greenfeed, and during the winter and early spring it was in excess of requirements.

It is pleasing to see such a large number of students here this year despite the depression, and, indeed, it should be in a country like ours, so dependent on primary industries.

Operations on the farm are becoming more numerous and diversified each session. One of the latest projects undertaken on the farm is making soap in the boiling-down coppers, and on the last day of the second session, about 120 lb. were made.

The manufacture of cheese at the dairy is increasing in importance, and batches of cheese are quite frequently turned out. During the second term several hundred pounds of cheese were made, and are now undergoing the maturation process. (It is a quick maturing variety, and it is not intended to allow it to become "livestock cheese.") Last term quite a number of pigs were slaughtered, and a quantity of bacon processed. The new concrete vats with steam heating, have been found much more convenient than the older type, when hot water had to be carried to them.

The activity in conducting pig feeding experiments has not abated, and last term two tests were carried out. The tests concerned the feeding of inferior quality raisins and currants, but these foods proved to be

of low feeding value. Another experiment which concluded with satisfactory results was the feeding of whole grain in comparison with crushed grain.

This year one of the irrigation plots was planted with potatoes, which are enjoying the advantages of irrigation. This is making the College more self-contained. In this district it is not generally considered profitable to grow potatoes, but in these times it will mean a certain amount of saving in the food bill.

An excellent sample of fat lamb was produced this season, and those sold at the Abattoirs realized good prices. A good proportion of the fat lambs sold were suitable for the export trade. Some lambs were sold direct from the College to the exporters. It is interesting to see how favourably the College lambs are received in the City, and on some occasions, meat was especially advertised as being a product of R.A.C. In almost all breeds the lambing percentage was very satisfactory. The cross-bred, Southdown-Border Leicester-Merino proved the best in this respect, with a percentage of 107.27. The lamb breeding experiments conducted here some years ago have come in for much favourable comment, and in recent years interest in these results has been renewed, and in many papers on fat lamb production, these results are often quoted.

The general shearing took place in October, and the sheep were put through the sheds in good time. Prior to this a few ration sheep were shorn in the second term, also some of the show stock. Crutching was also done prior to the main shearing. Several prizes were obtained at the Adelaide Show for Southdown sheep. The College also took first and second prizes in the export lamb section. The first prize went to a Southdown-Leicester-Merino cross-bred.

Messrs. Bennett and Hickenbotham have done some valuable work on the soursof trouble, and have obtained some excellent results. Their work will be carried on next year, when the soursofs again make their appearance.

Mr. R. B. Postle, an Old Student, has been appointed assistant to Mr. Baker on the dairy. At present he is undertaking a special dairy course.

At the Royal Show this year the College was successful in obtaining the Champion Prize for both Tamworth boar and sow. In the senior stock judging competitions, R.A.C. held its own, and claimed practically every prize. It was pleasing to see an Old Student, F. H. Wheaton, well among the prize-winners. R. F. Brechin gave evidence of his judging ability, and did well to win the medal presented for the best all-round judge of stock. G. P. Day, last year's winner of the medal, made a name for himself at the Melbourne Royal Show, in a competition of this kind. He secured three first prizes and a second. Students took a big interest in the Adelaide Show this year, and many rendered help as assistant stewards.

This year the Third Year students have had several interesting educational trips. The first three days of the second term were spent at the Government Experimental Orchard, at Blackwood, where pruning demonstrations, and an inspection of the orchard and cold stores were arranged by Mr. Fowler. Students travelled to and from the city each day, some even going to the extent of hiring a car for one morning. One of the recent trips was to Murray Bridge. This was the best trip for the year, and a very interesting and educational one, too. At Murray Bridge the Flour Mill and Farmers' Union Milk Factory were inspected, followed by a boat trip to Wood's Point, the dairying settlement. The night was spent at Mount Barker, most of the fellows sleeping out in the open. The

following day proved a full one, and five places of interest were visited, including the Tweedvale Mills and Foggitt Jones, at Littlehampton.

On other occasions the Abattoirs were visited, and much interest was attached to the speedy methods of killing, especially the cattle and sheep.

At the commencement of the second term all Third Years' entered for pruning competitions, either at Angaston or Light's Pass, and a large percentage were successful in gaining certificates in the various sections. The students' pruning was favourably commented upon at a dinner held by the Light's Pass Bureau at Nuriootpa, after the competitions. Klose scored well in the vine sections at Angaston, and also competed for the district championship held at Tanunda. At Light's Pass Beckwith took top place in the peach section.

This year again saw the sheaf-tossing record broken, and this time Crisp was successful. Nine inches was added to the previous record, and now it stands at 35 ft. 9 in. This is the fourth year in succession that it has been broken. It is interesting to note that the world's record was also broken at the Melbourne Royal Show this year.

At the annual sports this year Stirling put up a good show and won the Cup with a safe margin, with Crisp as runner-up. Competition was keen, and of the eleven Cup competitors, nine gained points. The day turned out a wonderful success, even though the turf was very heavy, especially for the bike riders.

Following the sports was the annual ball, which also was an unqualified success. The usual large crowd was present, necessitating three sittings for the supper. Two a.m. was the time set for the last dance, but everybody was sorry to see that dance come, as things were moving along with a good swing by then, including decorations, which were considerably moved.

On the 31st August the return dance was held at Gawler, and was very much appreciated by the large number of students who attended.

Work on the sandhill has been completed, and a large number of vines and fruit-trees were planted out this year, after subsoiling was completed. The pipes for irrigation have just recently been set into position, and are ready for supplying a summer irrigation.

Last session a Debating Society was formed, and met with success at its first meeting. The proceedings were opened by the Principal, and then followed the debate concerning Horses v. Tractors. The speeches were very entertaining to the audience, and I am sure part of the humour was quite unintentional.

A boxing tournament was conducted during the winter, and the audience was fortunate in obtaining some "close-ups" of the noble art; including unorthodox and original methods. The B.B. combination was very exhilarating, and most certainly employed original methods. During the colder months the Gymnasium was very popular, and Mr. Fairbrother spent a good deal of time giving instruction, which was much appreciated.

This year a neat little College badge has been adopted, and has proved very popular. It seems strange that a College badge has not been in use before, considering that the College has nearly half a century's standing.

The annual meeting and playing of matches between the Australian Agricultural Colleges did not take place this year, owing to the economic conditions. However, competition for the shield was not altogether cut out, and the various College Rifle Teams shot on neighbouring ranges. Gatton College was successful in winning the shield, with Dookie only two points behind. Gatton scored 576 points, Dookie 574, with Roseworthy next with 546.

A tractor trial was conducted on College property this season, with a Mercedes Benz crude oil tractor, in the paddock known as "George's." Students did not mind driving the tractor, even though it was a cold job sometimes.

The crop area this year is considerably smaller than last year, but the yields promise to be much heavier, and this season there will be some very fine crops. The self-sown crops in Ebsary's and Day's C have been cut for hay and stacked in the paddocks. This will prove very useful as a fodder reserve.

On Labour Day a party of Prince Alfred College boys paid their annual visit to the College. The cricket team from the Taxation Department was also here on that day, the match ending in a draw.

During the last few weeks quite a number of Agricultural Bureaux have been here and inspected the various parts of interest. Only recently, the Advisory Board were here on their annual visit, and commented favourably on the work being done.

The harvest opened up well this year with ensilage cutting, and this work was completed in a very short time. The quality of the ensilage this year is very good, and the yields obtained with some varieties were very high. The ensilage cut from White Tuscan wheat gave the highest returns, averaging over nine tons per acre. Most of the hay has been cut by now, and a large quantity should be stacked. The oats so far are yielding well, and harvesting of this cereal is well under way.

In the experimental paddock this year (5B) most of the divisions have been cut with the binder, also the hay tests. Stripping and winnowing of the early varieties of oats has also commenced, and yields well over forty bushels per acre have been obtained.

The harvest hours this year are slightly longer than last year, and now work extends from 6 a.m. to 6 p.m. The amount of

threshing this year should be less than before. The No. 4 Plots will not have to be treated as the experiments are not being conducted there this year. At present these plots are under fallow, to allow the soil to recuperate. Summer sports are in full swing now, and several matches have been played by both cricket teams, and the tennis team. The swimming dam has been cleared of weeds, and is very popular on warm nights after work.

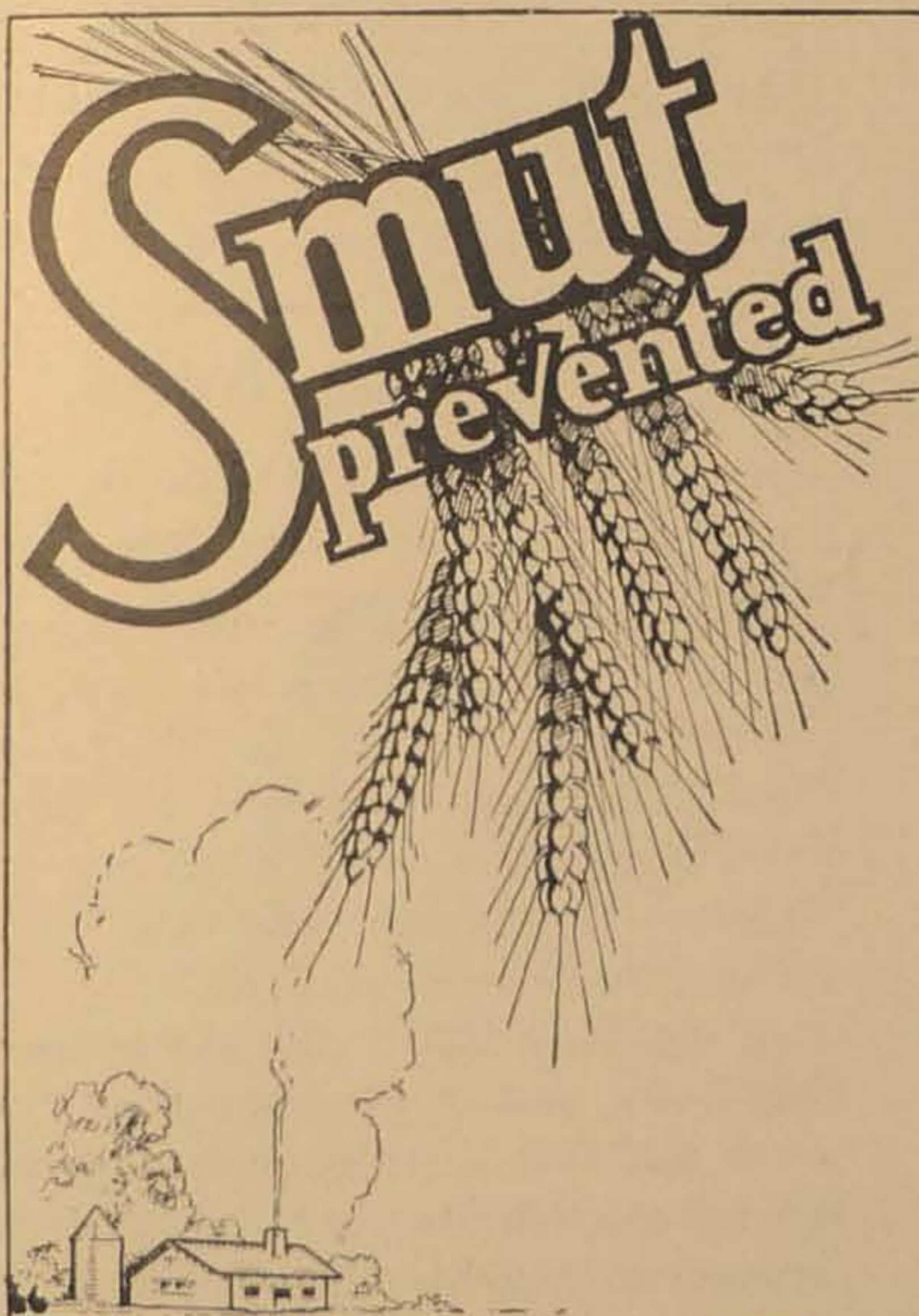
Brechin, the Captain of the football team, is to be congratulated on winning the Broderick and Bruce Kerr Medals in the Gawler Football Association this year. This is the second time that Brechin has won the Broderick Medal, and the third time in succession that this medal has gone to a College student.

The herbarium collection of weeds has been largely increased, and should be of considerable value to students. Mr. Clarke

has certainly made a success of this section of the Botany course.

Improvements have been effected on the Oval, and now the pavilion is surrounded by a low picket fence. Another improvement is the metal path and roadway constructed to the pavilion, making it much more convenient in wet weather. Before this roadway was laid down, cars and trucks found it difficult to negotiate the sticky clay. On one occasion this year horses had to be brought to the rescue, to pull out a lorry stuck axle-deep in the mud. On that occasion the lorry was abandoned for the night, and the visiting footballers taken to Gawler on the drag.

Recently, the Veterinary and Cereal Laboratories changed hands, and this move should make it more convenient for both parties concerned.



## — means Yields Increased

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# Dollman's Farmers' Friend

**THE SCIENTIFIC WET AND DRY PICKLE**

Owing to the depression the Library Grant has been reduced, and will need careful management to see the year through. However, it has not been found necessary to reduce any of the agricultural journals yet.

Some months ago the College joined the Red Comb Association, for disposing of the eggs, and benefits should accrue through this move. At the poultry yards an eagle, and especially the peacocks, are a source of admiration to visitors. Their peculiar call is often to be heard during the morning and evening.

During the winter dances were held frequently at the Guide and Scout Hall, often old-time dances being included in the programme. A Shell Dance was held at the hall one night, a wireless set being fitted up for the purpose.

Economies have been exercised by the various sports and dance committees this year, and it is hoped that a refund of portion of the sports fees will be possible.

Recently the citrus trees in the Principal's garden were treated for Red Scale. Large tents were erected over the trees, which were then fumigated with prussic acid. This treatment proved very effective in eradicating the pest, and the outbreak gave us some valuable practical experience of this treatment.

Hay carting has commenced, and the stacks are being built rapidly. There should be ample hay this year to carry through to next harvest, as well as providing a reserve.

The exams are very close now, and soon the "midnight oil" will be burning freely. There is, however, a break of a few days at Christmas, to be followed in about five weeks' time by Speech Day on the 4th of February, 1932, and then the welcome Long Holidays.

## STAFF NOTES.

It is with much greater peace of mind that we go to print this issue, since no further amputation of members has occurred.

In fact, the population of the College has actually increased. We take this opportunity of tendering our hearty congratulations to Messrs. Williams and Philp, who have become the proud fathers of a son and daughter respectively. To date we have not observed any of the symptoms consequent on sleepless nights, so, knowing that the paternal relatives are not addicted to nights out, the proof of hereditary tendencies is obvious.

We also wish to congratulate Mr. Whicker on his recent enrolment in the noble order of benedicts, and extend a cordial welcome to his wife. It is rumoured that one of our two remaining "hardshells" is contemplating double harness, but the "Fruit Garden" remains adamant. One would think that with all the evidence of conjugal bliss around him he would hesitate no longer.

## Year Notes.

### THIRD-YEAR.

#### What of the Future?

The song, "In a hundred years from now," probably overestimates the capacity of most of us but, say, twenty or thirty years hence? How can South Australia be anything but a most prosperous State when the present potentialities of sixteen practical and theoretical farmers have been realized.

In the year 1950 I had the pleasure of touring this State, and it was then that I realized what work the Old Institution had done.

At Renmark Mr. Appleby drove me in his big limousine into his V. and O., which looked to me like a big fortress with its large embankments, but this far-seeing little veteran informed me that his wife couldn't swim, and they were just about due for another flood. His is a big house which he has very ably filled—Ronald was just then finishing his schooling under Mr. McCarter, who is head master of the Renmark Agricultural High School. I visited this school



before leaving and met Mc., who paraded his charges and pointed out a young stalwart who was champion of his weight-lifting squad. The worries and responsibilities of this large school must be too much for Mc—he's not looking at all well, and is losing weight fast, only weighing about sixteen stone now.

Down the line, at Alawoona, Mr. Pengilly is very proud of his 2,000 acres. I caught him in a very elated mood, as the night before the district had had two points of rain, which, he said, would ensure a heavy crop this season. He's still mad on the Big E.

At Elwompal I expected to meet Mr. Oppatt, but was disappointed, as the Government had offered him the position of Farm Manager at R.A.C., and he had accepted, leaving his son, only eighteen years old, to manage the farm. He is a fair-headed, blue eyed boy—a credit to his father. They have fat-lamb production down to a fine art. They won't look at anything but Southdown rams, and then advocate using only Johnson strain. Johnnie's place is between Narracoorte and Bordertown, and here in this ideal climate he has made a specialty of his stud breeding. But after all! he had a good grounding, and was in a better position than outsiders to take up this work.

At Murray Bridge Ray Beckwith took me out in his private yacht to inspect his fleet of river-boats, most of them milk-carriers. It is rumoured that he has a big interest in Wood's Point Dairy.

I arrived at R.A.C. at seven o'clock, just in time to see about a hundred students doing a very fast finish through the farm gate in a vain endeavour to be early for work. As I turned the corner at the farm office the farm manager was saying, "Telfer and Klose, you give them a hand out with teams, then go on the chaff-cutter." I was very interested in this young Telfer, who is a real dinkum chip off the old block—slim, sleek and silent, with his hair parted in the middle, and a real wretch with the girls.

Over the farm road Mr. Hubble, Experimentalist, is sending his students out to hoe weeds in the hand plots, and another to chase birds out of the birdcage. George has proved his worth to the State, even if it is only in the production of this one new variety, which he calls "Roseworthy Wonder," the pedigree of which is: Free Gallipoli by Sunrise—Crossbred, by Early Dunn—Roseworthy Wonder.

Up drives a big Buick, out steps the Principal and lo and behold! Mr. Kilgour. He has sure built up a wonderful future in front of

him, and with his increased dimensions I scarcely recognized the same man. He had toured the continent extensively, studying agricultural practices, and on return was appointed to R.A.C.

I was unable to see Tom Torr, but met several of the younger generation at Redhill, who spoke of him in terms of the greatest admiration—he is evidently regarded as the "big noise" of the locality. I understand that he is to address an audience of ten or twelve thousand at the next Convention in the District, his subject being, I am told, "The Scientific application of Science to Scientific Agricultural Science." Good old Tom! That's what the country needs. May your voice carry to the farthest corners of the land!

Hundreds of admiring eyes view the prancing Clydesdales as they are paraded before the tall judge, slightly stoutened by age. "Who is that man?" enquired a feminine voice. "Why, don't you know, that's Mr. G. P. Dav. best man at the Melbourne Royal this year. He's from Myponga, S. Aus., where I believe he has a remarkable stud farm of horses, sheep, pigs, and fowls. That's what Roseworthy College makes of young men."

While in town I visited Teachers' College, where Dr. Morphett was lecturing his thousand potential teachers on the needs of agricultural education. "We must incorporate agriculture in all our studies, giving all our educational subjects a rural flavour. Our latin translations . . ."

That night, as I lay in bed, my ear phones on, I recognized a familiar voice. "IYZ Yorke's Peninsula calling. Ladies and gentlemen, South Australia is an agricultural State. The significance of this fact has not been fully realized . . ." I've got faint suspicions that Councillor Brechin has been nominated to compete for the Yorke's Peninsula District seat in the forthcoming elections.

In memorium—

South Australia sadly mourns the loss of a very able dairyman, who is now managing a rubber plantation in the Malay States.

\* \* \* \* \*

## SECOND-YEAR.

After a short sojourn from Roseworthy atmosphere we gathered together with high hopes for the coming term. We are all eagerly looking forward to the swimming carnival, hoping to give a good account of ourselves and keep both the Cup and the Shield in our possession.

During the vacation four of our far-seeing members embarked in a car of doubtful reliability, searched the greater part of South Australia for likely farms upon which to model their farm essays next year. Gee, we believe, is interested in the growing of mallee roots, suitable for export, while Milner's interests are centred on intensive stumpy-tailed lizard and goanna raising.

Farm classes this term have been very pleasant afternoons. We have had wonderful times scrambling about dirty drills and harvesters, pulling portions to pieces, and leaving it for someone else to put together correctly. By far the most interesting, however, are our painstaking instructor's historical lectures. We appreciate them very much—but who is John Riddle?

It is clear to us that Conkey can't know much about women. Of course we are always willing to sympathize with a stricken Romeo, but what can one do when told that all women are doves? Just "coo," I suppose.

The old organ passed away this term, deeply regretted by all. It has had an eventful life and we had hoped that it would still be good for at least one more New Year's eve. We had not been long without it when Fish produced an accordeon, capable of a noise similar to that of several screech owls, and all the neighbouring cats in chorus. This contraption may now be heard any hour of the day or night, the commencement of a session being generally greeted with groans and followed by the "movement" of all the old boots handy.

As this may be looked on as a Christmas issue, the Second-year join together in wishing all readers a good harvest and the Compliments of the Season.

\* \* \* \* \*

#### FIRST-YEAR.

Thanks to Stirling our year gave a very good account of itself in the athletic sports held one wet day in August. We tied with the Second-Years' for the Shield—so far (for three years) the First-Year has not had its name on the Shield. The Cup for the best athlete went to Stirling, and the First-Years' extend to him their heartiest congratulations.

Following the sports was the big dance.

Oh boys! the fair maidens arrived from town to pass through the sacred portals of our home, to probe into its secrets, to leave the haunting fragrance of fresh flowers in the beds; we thought we had pretty good hair oil, but we have decided that the girls' powder even beat

them. Dance! we danced the whole night (and a good bit of the morning). Some preferred the cold, cold haystack, managing to look respectable enough to creep into supper, but give me the dance.

Talking of dances, there was one held in easy reach of the College once and a good muster of students presented themselves, but the surprise of the night was only about four girls arrived. This, of course, made the chaps fictitious, no—factitious (I mean want to fight). They must have had a good time!!!

Summer is nearly here; swimming, cricket and tennis—we have some "dark fish" for the swimming carnival. First-Years' can do something at sport at any rate, but we have some yellow-bellied lizards (sleeping) in our midst.

We know Richy likes smoking expensive cigarettes, but we think £3 9s. is a bit too much for one. Although he is still rather juvenile it is hoped that in the future he will not try to celebrate 5th November while in bed. All look forward to the Swimming Dance with great enthusiasm. Cactus has made all arrangements already; while it is rumoured that even Richy and little Cas. are already at arms about a certain fairy. We greatly appreciate the instalment of the loud speaker in the common room (not Fitz in No. 4), but the wireless.

It is hard to tell which is the more unpleasant, doing prac. chem. next to B.P. (due apologies to Old Nick), or dodging members of the reaching club in action (Fitz, please note), but Big Cas. claims that a stumpy-tail for a bedmate takes some beating.

Re the twittering twins, the following tale is told of them:—

A twin when ordered to pitch,  
Said, "Be d——, it'll give me the itch,  
So Buller the bold,  
Laid him stone cold,  
So ended the laddy called Snitch

\* \* \* \* \*

#### SOCIAL NOTES.

The Annual Ball held last term was undoubtedly the premier function of the year, and contrary to the law of averages, it was a comparatively dry night (meaning, rain did not fall).

From 7 o'clock onward the corridor was a hive of industry with its added population from upstairs. In every room one looked there seemed to be two students endeavouring to look into the same mirror. With the aid of that very obliging valet "Solfur," propellers were all in position ready for a rapid take off in the

# A STATEMENT

## by the Agricultural Settlement Committee

---

“Farmers are not exploiting to the full the possibilities of soluble phosphates.....”

“Experiments show that an application of two cwt. of Super per acre not only gives the best financial returns from the wheat crop, but enhances the grazing value of the herbage when the land is in pasture. Statistics show that over the State the average application of Super is 82 lb. to the acre, and in no district does the average exceed one cwt. to the acre.....”

---

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the tango at 8.15 p.m. This was rather remarkable considering the difficulties to be surmounted in donning a freshly stiffened shirt and collar, but is explained when it is realized that in a vain endeavour to become accustomed to this unusual form of dress the young sheiks had been wearing this armour without a break for at least a fortnight.

Dancing opened up with a onestep, and every person in the room seemed to leap from the barrier at the same time, packing the floor. Even in the midst of this densely compacted crowd, one pair, piloted by that well-known person, Mr. Chateau, danced without hindrance. The young cyclone whirled down the floor clearing everything before it, and leaving behind a string of broken hearts (no! broken legs).

The committee very generously reshuffled the programme during the night (and morning?) adding "extras" at intervals. The object was to give late comers an opportunity to dance with guests whose programmes were already full, the extras not being recorded.

All comers (and non-competitors) greatly appreciated the inclusion in the supper menu of the fruit salad and cream, which were excluded from the last dance owing to financial stringency.

Thanks are again due to Mrs. Birks and her assistants who so successfully hid the bones and skeletons residing in the Museum cases, the exquisite decorations being much appreciated.

In conclusion, let us offer our sympathies to those permanent residents of the corridor who so gallantly shared their single beds with those less fortunate students who sacrificed their beds for our lady friends.

\* \* \* \* \*

#### LIGHT HORSE NOTES.

Under the able leadership of Sergeant Gurner we have spent many very pleasant and instructive hours improving in the various branches of training in which the Troop engages.

In several machine gun matches and rifle trophy shoots members have been successful; Sergeant Gurner succeeded on one occasion in winning the aggregate shoot. Several of our members who took part in the Military Review had much to tell on their return.

The recent week-end camp held at Gawler was enjoyed by all. Half of our party spent Saturday and Sunday under canvas, the remainder riding in on the Sunday night, and returning the following night. Part of our

time was spent practising various field manoeuvres, the remainder in machine gun and rifle practice on the Gawler range. Here a few completed their machine gun training, and we take this opportunity of congratulating Sergeant Gurner and Corporal Beaumont on becoming First Class Machine Gunners.

During the year several new members have joined our ranks. We have to welcome A. W. M. Gunson, D. N. Milner, J. Noonan, C. Pollitt, R. C. Emery, and A. W. Gilbert.

In conclusion, we should like to know the answers to the following:— The distinguishing characteristics of "a good heeler?" "How to hit the target with a 'ric'?" "What's wrong?" "What and where is Paddy?"

\* \* \* \* \*

#### TRIPS.

"Goodness me! my dear, look at that motley crowd." Hush, my dear! they are the young gentlemen from Roseworthy College, about to embark on an educational tour.

Such remarks as these have often delighted our ears during this, our third and final year of studious application to Agricultural Practice.

Our "trips" are the occasional glorious bursts of sunshine on the dull grey sea of monotony, which constitutes our well ordered lives.

We are willing to "trip" anywhere, for anything. In order to broaden our somewhat narrowed minds, we are periodically sent afar off to learn of foreign customs.

During this year we have visited Seppeltsfield, Angaston, Nuriootpa and Blackwood for instruction in Oenology, Fruitculture and Viticulture. In addition we have visited various sheep and cattle studs owned by prominent local breeders, including the Para Stud, Mr. A. E. Thomas's Merino Stud, Mr. C. H. Mocatto's Border Leicester Stud. All of these gentlemen gave us much valuable information, which we now deeply appreciate.

Recently we set out to visit the Newbold and Para Wirra Studs, owned by Messrs. W. J. and Howard Dawkins. This trip is looked forward to each year as something above the ordinary, as these gentlemen, besides being Old Scholars, have always been interested in the College and its progress. This year they excelled themselves, if that is possible. We are deeply grateful for the unselfish manner in which our hosts imparted knowledge gained by years of experience, and which they might well have been reticent about, and for the delightful afternoon

tea provided by our charming hostesses. This trip was indeed a ray of sunshine.

We must not, however, forget our periodical visits to the stock sales. There is a certain routine about these trips.

At 5.30 a.m., "Solfer," the bell boy, opens his eyes, ears and mouth to the accompaniment of a jam-tin jamboree from his engine-of-wakefulness. Carefully closing his epiglottis, he then swallows. Up he jumps, and tripping lightly through the corridor, he gently (?) seduces other trippers from the arms of Morpheus.

Then follows a loud noise. Feet scamper across the floor, razors scrape vainly across schoolgirl complexions, and showers are transformed to thunder-cataracts, under which sylph-like forms are seen to glide.

After carefully equalizing internal and external pressures with a carefully selected balanced ration, the "sons of the soil" assemble on the front steps and await the full-toned roar of "Morose Morris." With a snort of defiance the "mechanic's nightmare" rumbles up the village road to Roseworthy, where all the young gentlemen descend and board a rail car. On the journey to the sales the students peruse daily papers, and clip out items of interest for

Farm Diaries, or carefully stalk entomological monstrosities as gifts for favoured Second-Year students. Others frowningly study weighty tomes compiled by Comber or Kellner.

The procedure on oenology excursions differs somewhat. All the learned gentlemen thoughtfully sample the country's best wines, whilst "Solfer" resolutely fixes his eyes on his copy of the Pledge, and turns about, and Allah Wooner lovingly smells the glasses and browses over the corks.

Let me lead you through the period of ecstasy, which is experienced every year, known as the Murray Bridge trip.

Leaving the College in cars, etc., we proceed to the river village, whilst the splendour of the morn still o'er glammers the ugly reality of dusty roads and dirty fences.

Arrived at the river, we browse at leisure over flour mills, or daintily dally over a visit to the butter factory. At noon, entering a beautiful little launch we work most gastronomically for several minutes whilst our fairy craft dances over the sparkling waves. After an interval of digestive retrospection, we disembark at Wood's Point, and for several hours exclaim delightedly at the beautiful forms of dairy cows and maids. We sniff with relish the pungent

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odour of ripe old ensilage. I will not attempt to tell of the intensely interesting experimental work and other activities in progress on the marvellously fertile piece of ground. Visit Wood's Point yourself, dear reader; you'll not regret it.

Tearing ourselves reluctantly away we then proceed to Mount Barker for the purpose of obtaining a quiet evening's repose. Perhaps the "patchy" Scotchman and his bilious boy friend may proceed to enjoy what pleasures the village affords. The remaining yearning yeomen seek solace in slumber, until awakened at 4.30 a.m. by the carolling of feathered choristers and fleshy "snoristers."

Rising we proceed to the nearest creek and deposit the previous day's salvagings as a calcareous precipitate in its clear and sparkling waters.

Then onward, through bacon factories, cider factories, pasture plots, etc., until at last we reach Tweedvale. Here we are caught in the romantic whirl of the loom and carried through the various processes of textile manufacture. Then on again back to "Farm Essays," dairy and oblivion.

\* \* \* \* \*

#### EXCHANGES.

We acknowledge with thanks the receipt of copies of the following magazines:—"Prince Alfred College Chronicle," "Gatton College Magazine," "Adelaide High School Magazine," "The Longerenong Collegian," "The Hawkesbury Agricultural College Journal," "The Muresk College Magazine," "The Dookie Collegian," "S.A. Teachers' College Magazine," "St. Peter's College Magazine," "The Sheaf," "Narrogin School of Agriculture," "The Scotch College Magazine."

## Annual Athletic Sports.

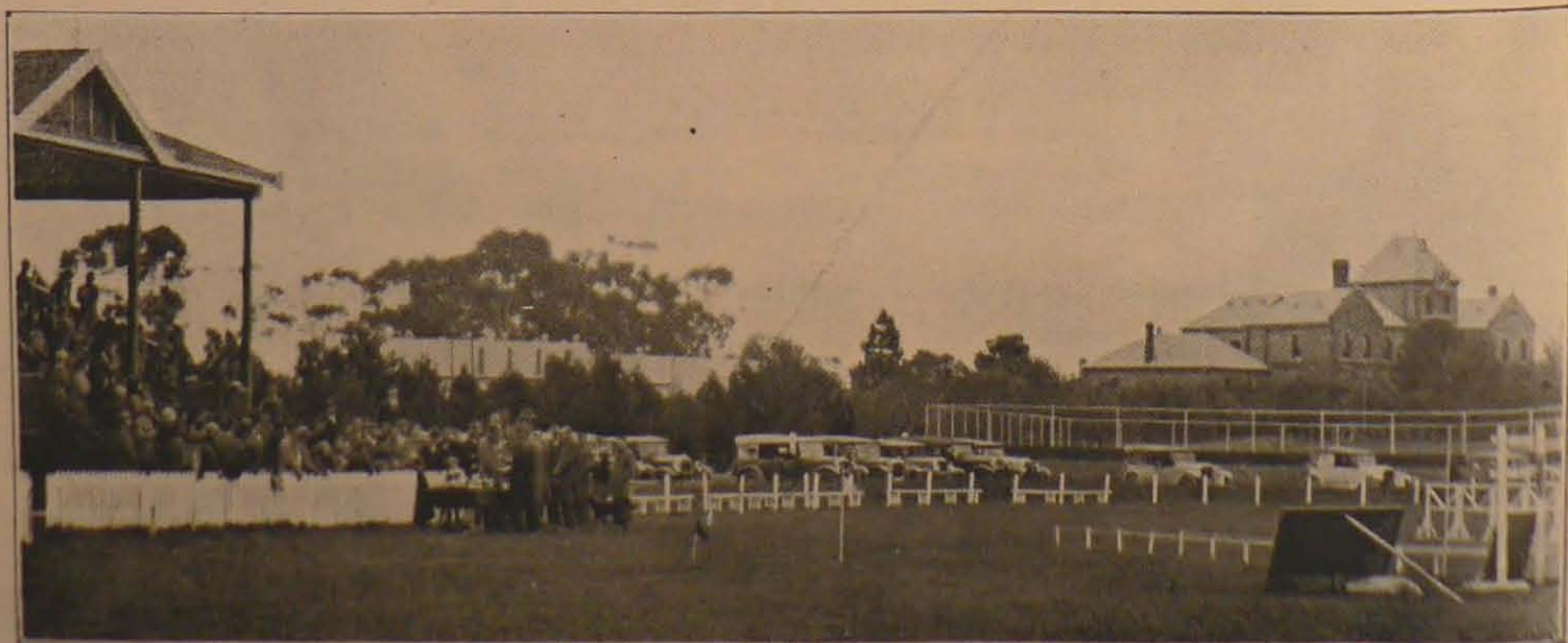
The Athletic Club held its Annual meeting this year on 14th August, and unluckily the day chosen for the event proved to be cold with an intermittent drizzle. The previous heavy rains had also made the track very heavy for those taking part in the events. The adverse conditions, however, did not dampen the ardour of most of the competitors, and a large field started in practically every event.

The number of spectators present was much greater than last year and they took a keen interest in all events. One event in particular caused much excitement among the onlookers

and that was the bicycle race, which has only been added to the list of events this year. Judging by the interest taken in it there will be no doubt about it becoming a permanent event for future meetings.

The Championship Cup was won by R. B. Stirling, and he is to be congratulated on his fine exhibition. He gained 21 points in the Cup events. F. G. Crisp was runner-up with 15 points, and C. W. Kelly third with 11 points.

There was keen competition for the Inter-Year Shield between the Second and First-Years, which ended with both these Years' being



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equal, so they will share the Shield between them until next year.

Once again a new record was created in the Open Sheaf Tossing event. This year F. G. Crisp tossed the sheaf 35 feet 9 inches, breaking A. R. Beckwith's record by 9 inches.

A new record was also set up in the Under-18 Year's Sheaf Tossing by R. G. Packer, who tossed the sheaf 36 feet. Mrs. Birks kindly presented the prizes at the close of the events and thanks were tendered on behalf of the students and committee by R. F. Brechin. Results:—

Sheaf Tossing (Open)—F. G. Crisp, 1; A. R. Beckwith, 2; N. J. McBain, 3. Height, 35 feet 9 inches. (Record).

Sheaf Tossing (Under-18 Years)—R. Packer, 1; J. D. McAuliffe, 2; G. D. Hubble, 3. Height, 36 feet. (Record).

Kicking for Distance—A. R. Gilbert, 1; N. J. McBain, 2; L. McCarter, 3. Distance, 53 yards 1 foot 3 inches.

Kicking for Goal—G. P. Day, 1; B. L. S. Booth, 2; A. R. Gilbert, 3.

Throwing the Cricket Ball—B. L. S. Booth, 1; L. McCarter, 2; A. R. Gilbert, 3. Distance, 85 yards 2 feet 8 inches.

Hop, Step and Jump (Handicap) — A. R. Gilbert, 1; C. W. Haydon, 2; R. Packer, 3.

135 Yards Handicap—C. W. Haydon, 1; G. P. Day, 2; A. R. Beckwith, 3.

Inter-Year Tug o'War—Third-Year, 1; Second-Year, 2; First-Year, 3.

220 Yards Handicap—J. W. Hursthouse, 1; L. Sobels, 2; Gee and Goodes (equal), 3.

100 Yards First-Year Handicap—R. B. Stirling, 1; C. W. Haydon, 2; D. J. Goodes, 3.

100 Yards Second-Year Handicap—C. W. Kelly, 1; J. D. McAuliffe, 2; J. N. Charlick, 3.

100 Yards Third-Year Handicap—A. R. Beckwith, 1; G. D. Day, 2; R. F. Brechin, 3.

Long Jump (Cup Event)—R. B. Stirling, 1; R. F. Brechin, 2; F. G. Crisp, 3. Distance, 18 feet 3 inches.

Putting the Weight (Cup Event)—N. J. McBain, 1; F. G. Crisp, 2; A. R. Gilbert, 3; L. McCarter, 4. Distance, 31 feet 4 inches.

100 Yards Championship (Cup Event)—R. B. Stirling, 1; R. F. Brechin, 2; A. R. Beckwith, 3. Time, 12 1-5 seconds.

120 Yards Hurdles (Cup Event)—C. W. Kelly, 1; R. B. Stirling, 2; R. F. Brechin, 3. Time, 20 seconds.

Half-Mile Handicap—K. T. Ryan, 1; W. L. B. Bell, 2; J. D. McAuliffe, 3.

Obstacle Race—J. W. Hursthouse, 1; R. A. Pownall, 2; C. Pollitt, 3.

120 Yards Handicap Hurdles—A. W. Feuerherdt, 1; C. W. Kelly, 2; A. R. Gilbert, 3.

220 Yards (Cup Event)—R. B. Stirling, 1; R. V. Dunn, 2; F. G. Crisp, 3. Time, 25 seconds.

High Jump—(Cup Event)—C. W. Kelly, 1; A. R. Gilbert, 2; F. G. Crisp, 3. Height, 4 feet 11 inches.

Old Students' and Staff Race—K. Orchard, 1; T. A. Cole, 2; S. E. Whicker, 3.

440 Yards (Cup Event)—F. G. Crisp, 1; R. B. Stirling, 2; R. F. Brechin, 3.

One Mile Bicycle Race—R. A. Pownall, 1; W. Eardley, 2; E. M. Hutton, 3.

One Mile (Cup Event)—K. Ryan, 1; W. L. Bell, 2; T. H. Torr, 3.

Inter-Year Relay Race — Second-Year, 1; Third-Year, 2; First-Year, 3.

SHIELD EVENTS.

	First-Year.	Second-Year.	Third-Year.
Long Jump .. ..	5	1	3
Putting the Weight	3	5	1
100 Yards .. ..	5	-	4
120 Yards Hurdles ..	3	5	1
220 Yards Flat ..	5	4	-
High Jump .. ..	3	6	-
440 Yards .. ..	3	5	1
Mile .. ..	5	-	4
Tug o'War .. ..	1	3	5
Relay Race .. ..	1	5	3
Totals .. ..	34	34	22

The Shield is held jointly by First and Second-Years.

CUP EVENTS.

	Long Jump.	120 Yds. Hurdles.	100 Yds.	Weight Putt.	440 Yds.	High Jump.	220 Yds.	Mile.	Total.
W. F. M. Appleby ..	-	-	-	-	-	-	-	1	1
A. R. Beckwith ..	-	-	1	-	-	-	-	-	1
W. L. B. Bell ..	-	-	-	-	-	-	-	5	5
F. G. Crisp .. ..	1	-	-	5	5	3	1	-	15
R. F. Brechin ..	3	1	3	-	1	-	-	-	8
G. P. Day .. ..	-	-	-	3	-	1	-	-	4
R. V. Dunn .. ..	-	-	-	-	-	-	3	-	3
C. W. Kelly .. ..	-	5	-	1	-	5	-	-	11
R. B. Stirling ..	5	3	5	-	3	-	5	-	21
T. H. Torr .. ..	-	-	-	-	-	-	-	3	3

Cup winner: R. B. Stirling.

## Contributions.

### A TRIP LUNCH.

#### — The Ideal —

No sign of dust, a cloudless day,  
 And everybody bright and gay;  
 A shady spot beneath some trees,  
 Spring's sunshine tempered by the breeze.  
 A hearty spread upon the ground,  
 Delicious food is handed round;  
 A sandwich, fruit, and ample cream,  
 And cakes too good for any dream;  
 A crackling fire to make our tea,  
 The billy boiling merrily.

#### — The Real —

A parching wind, a glaring sun  
 That makes us savage, everyone.  
 We reach the chosen spot at last,  
 Unpack our lunch; the dust flies fast,  
 And wood is scarce, it will not light,  
 Our dreams of steaming tea take flight.  
 The milk, alas! we cannot find,  
 Of course, it has been left behind!  
 We've bread like stone, and cold bewhisker'd  
 beef,  
 Thank God our stay out here will be but  
 brief! T. T.

\* \* \* \* \*

### The Frankleysns Tale.

The following contribution, in continuation of our series on the early days of the College, is from Mr. Carl F. Heyne, now of 41 East Parade, Kensington, where he is conducting a nursery garden. Mr. Heyne was a student during the years 1893-94.

To me, College life was particularly of interest. Born and bred in the city, I had never before seen broad acres or farm implements of any variety; stock to me was but a name. I believe I knew the difference between a horse and a cow, and was aware that the latter was responsible for the chalky liquid that was left on the front doorstep

in the early hours of the morning, but I certainly did not know how to dress a horse prior to working it in cart or implement, for on my second day I managed to put a collar on a horse upside down, and so took it out to the field, where old Pro. Lowrie was waiting to start me cultivating. I can still see Pro.'s look and hear his sarcastic remarks when he attempted to adjust the chains.

Arriving at Roseworthy I tramped the dusty road from the station, arrived at the College shortly before lunch, and after an interview with "Pro" was ushered into the Common Room, where I made the acquaintance of my class-mates, all beginners like myself, but as they had the advantage of having already been at College three days they treated me as a veritable New Chum. Walter, the "Slushy" shortly appeared at the head of the stairs with the big bell, and all rushed to the Dining-room—two long tables, juniors right, seniors left, and at the top a smaller table for the staff. I, the wee small stranger, felt lost.

Dinner over, and shortly the Farm Bell sent us all across to the farm buildings and Pro. allotted the work to each.

My mate was "Streak" Playford, and he and I for four solid hours hoed stinkwort from a crop. Sore feet, parched throat, and blistered hands, the sweetest music in the world I have ever heard was the "knock-off" bell. Tea, study (?), and then No. 3 for me, and my troubles started—Initiation.

The next few days were highly interesting to me—I made the acquaintance of cows, horses, sheep, and pigs, and was the butt of everybody. My total ignorance of all things pertaining to farming was exploited by all and sundry. However, I survived, and after ten days, when we went to the City to the Show, I was able to impart know-



ledge to the heaviest-whiskered farmers under the gums of the old showgrounds.

Implements then were crude to those of to-day. Several single-furrow ploughs of different pattern, one two-furrow plough, stump-jump cultivators much preferred by students because one could sit, a heavy roller, and several sets of harrows.

Ploughing was all done with the single-furrow plough. The soil was then harrowed two or three times to pulverise well, seed was broadcasted and harrowed in, and at times, if lumpy, the ground was rolled.

Most farmers around broadcasted by hand, but the College was the proud possessor of a seed sower (Martin's, I believe). This was a hopper fixed to the side of a dray and manipulated by the revolving wheel with cogs.

The paddock between the College and the farm buildings, devoted to experimental plots, was choked with stinkwort and other weeds, and these had to be hand-pulled before Farmers' Day.

Field peas were cut with horse mower, stoked, and sent through the thresher when dry. The thresher, I believe, was the first one ever worked in South Australia. The "Superior" drill, I believe, was also worked that year for the first time in South Australia. If my memory serves it had 14 drills, and peas, wheat, barley, and oats were sown, but manure was broadcasted prior to drilling. The combined drill only appeared the next year. Two horses were used, Bloom and Bloss, Jarman's favourite team, did some wonderfully straight work, and the straight rows of wheat when growing were the talk of the district.

Threshing corn and peas was dreaded by us, but enjoyed all the same. A very early start was made in the morning, an extra luncheon was provided, and there was no study. The worst job was at the back, carting away the straw.

The dairy was in charge of old Jack Hocking, the stockman, and the separator was

worked by the old horseworks. Nugget, the old veteran horse, had to be whipped around until the cream was finished. The butter was churned by hand, and when the butter would not come, how we on stock duty envied our fellows on dray or team.

Stable duty meant earlier rising, grooming, and feeding, to have the teams ready by work bell, but it had its compensations—the rest of the morning free—and how the birds suffered in consequence at nesting-time.

The binder was a new implement in those days. I believe we owned two Massey-Harris (?), always going wrong at a critical time, especially when a student drove. However, Jarman, our genial 6 ft. 5 in. giant farmhand, could always be relied upon to effect repairs. Wheat was stripped with a header and had to be cleaned afterwards, rather an arduous job on a hot day, those handles felt red hot after a little while. The stripper appeared in my second year.

One paddock, at northern boundary, was full of claypans and difficult to plough, so a disc plough appeared on the farm. For a vineyard we had a few grape vines near Pro's house and harvest was never had, for students in those days also relished fruit.

Apricots and peaches, also growing at Pro's house, bore plenty of green fruit, but I am afraid little ever ripened. Professor Perkins arrived on the Staff in my second term, and commenced the vineyard proper, the first new planting being around the big dam on the sand. This was extended the following year, and a small wine cellar was punched in the ground near the kitchen. Some students raided this and we saw them no more.

A bathroom, with one bath, and one shower was upstairs, water for this being pumped into a tank on the roof. If one wanted a bath the tank was generally empty, for we students had to pump our own water, and to force to such a height was by no means sport. Drinking water was obtained

from an underground rainwater tank, and this invariably ran dry in summer, so we depended on the well water for supplies. This had to be drawn up and carted to College. It was very brackish, and when first drawn the colour of weak coffee. A glass filled and allowed to stand would deposit fully half an inch of sediment. Tea made from this had a flavour of its own, but we, however, managed to survive.

This water was drawn from the deep well at the then Gawler Boundary of the farm, but since then, I believe, the College has acquired all the property around. It was a good depth, and the water was drawn by pulley tackle, a horse on one end and, I think, a 50-gallon bucket at the other. It possibly was much smaller, but my recollections of it are horrible and it was a monster.

One student led the horse down the walk and another stood on the platform to land the bucket on its arrival at the surface. A chain operated a valve and allowed the water to flow into the large tank in the dray, or another circular tank fitted on wheels. The horse was then reversed and led back—a very interesting job? One day Nicol was on the platform and "Strauss" was leading the horse. The bucket handle appeared, Nicol made a grab and yelled, for a big brown snake was coiled around the handle. "Strauss" turned round at the yell, and jerked "Prince" the horse round, the bucket slipped, and catching Prince unawares, jerked him off his feet, and he was dragged right to the edge of the well, one foot in, and we thought he was gone, but somehow he recovered his balance, and the danger was averted. I have been told that the same well is now operating with a motor. I know some 30 years back when passing the spot on a bicycle, I noticed a windmill—we had neither.

Do the melons still grow on Kangaroo Flat amongst the pines?—or is this now the paddock known as Daly's? Melons used to grow wild there. For 10s. we could fill

the farm dray, and oh! the poor maids next morning when they made up the dormitories.

It was in my junior year that the great College Strike was on. Butter, in the opinion of some, was too limited. A few hogged the lot and the rest got none. The menu, too, was monotonous—plenty of farm mutton, but mostly shoulders and neck stews, our sheep apparently had no hindquarters. Then a beast was killed, and for a long period beef would appear in various guises, finishing up with veritable salt horse. "Sampson," our giant pedigree Berkshire hog, produced wonderful progeny, and this well fed with kitchen slush, peas and corn, made very fat pork—this was often served up only partially cooked. Jam also was scanty. Plenty of food was available for all, but mismanagement somewhere had dire results.

Combined meetings of Juniors and Seniors were held, and the Pro. was approached, with no results, so a general strike was declared. No work on farm until tucker improved! Lectures went on as usual, but all work on farm was suspended. It lasted three days. On the third day, on entering the dining-room, in front of every student was a plate with a pat of butter and a ticket with his name. We were informed that an allowance of half a pound per week would be served to each—and it was funny to see the plates with particles of butter at each meal varying in size according to the appetite of the owner.

Pro. promised to look into the matter, and we decided to declare the strike off. In the meantime the papers were full of the strike, and Parliament took up the matter, and a few days later Mortimer's Drags, from Gawler, brought a host of visitors. I believe every Member in the House took this holiday and we boys got a gruelling time. After full enquiries they departed, and the "Tiser" announced that the much-talked-of Students' Strike never took place.

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Special nozzle fitted to hose enables the operator to have a powerful jet, a heavy soaking spray, or a gentle mist, at will.

Suction Hose,  $1\frac{1}{4}$  inch, 2/9 per foot.

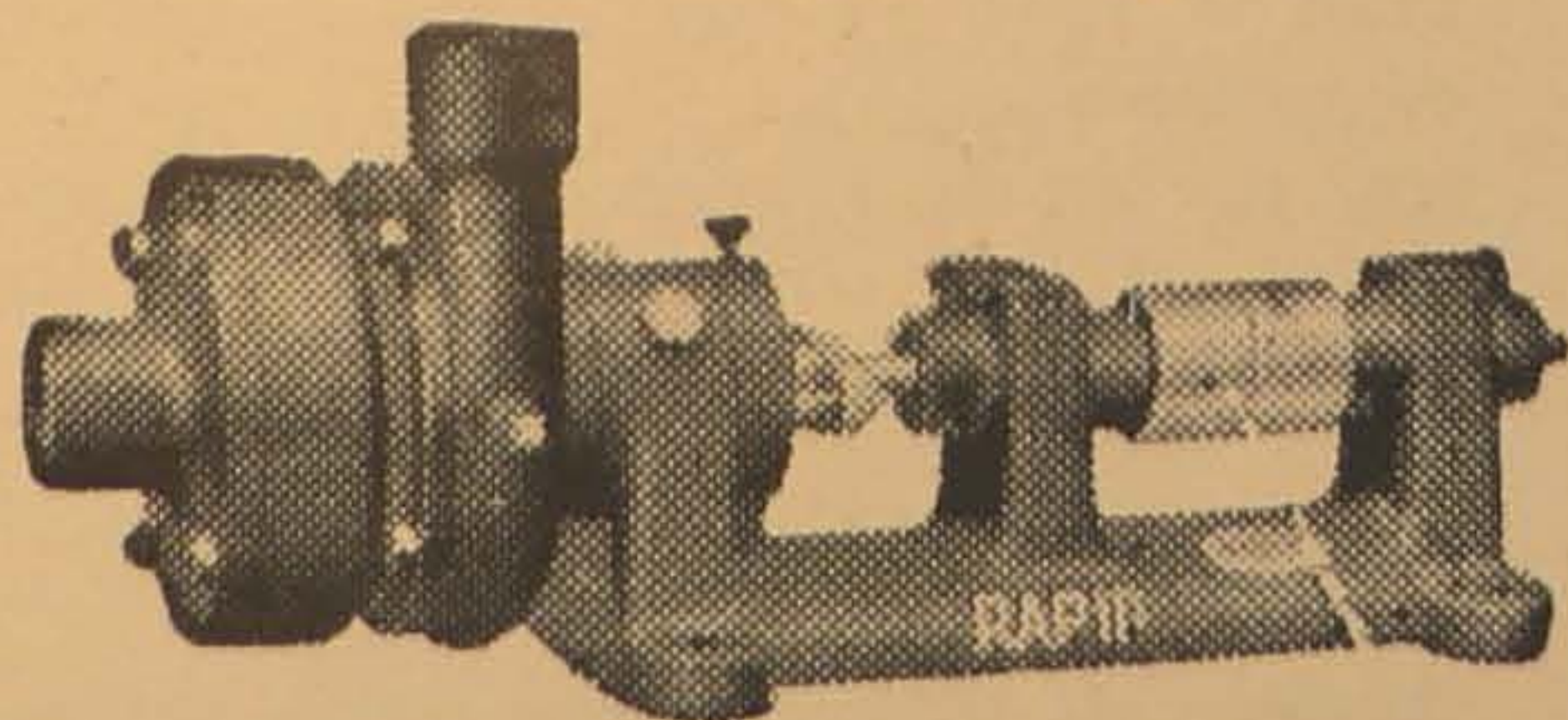
Delivery Hose,  $\frac{1}{2}$  inch, 6d per foot.

Delivery Hose,  $\frac{3}{4}$  inch, 8½d. per foot.

All prices are F.O.R. Adelaide, and subject to Sales Tax.

## PLENTY OF WATER

During the Summer Months



We have Pumps for every purpose. On receipt of particulars of your requirements we would be glad to advise you as to the best Pump to use. Where a large quantity of water is required at low pressure, our Australian-made "Rapid" Centrifugal Pumps are unequalled. Of modern efficient design. "Rapid" Pumps made in single or multi stages.

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Proprietary Limited

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WAYMOUTH STREET,  
ADELAIDE.

H. B. Robson, a previous student, was a bee enthusiast, and a few hives were at the College. No one, after his departure, had the pluck to tackle them. I begged permission to look to them and was placed in charge. A handful of bees in a small box were abstracted by someone, and that night were liberated in the Science Master's room with woeful results. Of course, I got the blame, and though I denied it, was threatened with expulsion. The culprit would not admit it until the Captain of our Class, shrewdly guessing who it was, dragged him to the office, and I was informed that I need not pack. But we never saw the other man again—he even was not allowed to say good-bye.

The original chemical laboratory was built in my time, and I had a full year's use of it. Having a natural aptitude for Chemistry I was granted permission to work extra time on practical chemistry. Had I taken this up as a profession my experience gained there would have given me a wonderful start. Mr. S. Hughes, our Master, was a clever teacher, and many of our farm lads who had not the slightest knowledge of any sciences, took to "Chem." at once under his tuition.

My eagerness in practical work nearly caused disaster. In attempting to precipitate Hg in the "Stink Pot" I was overcome with H<sub>2</sub>S fumes, and but for the timely arrival of a classmate, this might have had serious results.

The first death at Roseworthy occurred in my Junior Year—I am not sure of the date, but believe it to be 1894, the year before my diploma year. Bruce Giles, son of a wealthy pastoralist at Mt. Pleasant, one of my particular chums, was accidentally hit in the forehead by a shovel whilst loading limestone to make the road leading from College to farm buildings. "This is good enough for me to knock off, boys." Saying this, he walked to College, had his head bandaged, laid down for a while, and then went out to cricket practice, apparently none the

worse. After tea, he became sick, and Pro. Lowrie sent Bill Day, his general factotum, post-haste to Gawler for the doctor (no telephones in those days). On his arrival he pronounced it concussion and, Bruce later on becoming worse, advised sending for his father. Kyffin Birks, a cousin, I believe, of your present Chief, rode in darkness over unknown roads to Mt. Pleasant to summon Mr. Giles. Driving two ponies at break-neck speed Mr. Giles arrived just in time to see his boy. This is one of my saddest memories.

Once started on these recollections I could go on for an indefinite period, but space forbids. In closing, I beg present students to make the best possible use of facilities at their command, and to acquire all the knowledge possible, for even if in after years their walk in life is not connected with Agriculture, the knowledge gained is never wasted, and will often be of great service.

\* \* \* \* \*

#### A STUDENT ABROAD.

The following is extracted from a letter to the Secretary of the R.O.C.A. from Wallis V. Ludbrooke (Dip., 1926), who wrote from the Department of Plant Pathology, University, Madison, Wis., U.S.A.:—

I was very pleased to receive a copy of "The Student" recently, and it reminded me that I have not written you as Secretary of the R.O.C.A. since coming to America, though I have been intending to do it for a long time. My brief experience as secretary made me realize how hard it is to get information from old members, though it is very interesting to most of them to read of the doings of their contemporaries.

I am afraid I cannot equal the meteoric career of my old friend Kidman Cox, as reported in the last issue of "The Student"—I am still just a student myself, and whilst the University is in session I spend practically all my time at classwork and research work. However, in between times I have managed to see more of America than most Americans have seen, and I have enjoyed every day of my stay here—twenty months to date.

I invested in a used Harley-Davidson motor cycle shortly after my arrival here, and I can

sider it has paid for itself several times over since. Most of the main roads here are of concrete, and gasoline is sixteen to twenty cents a gallon, which takes me forty or fifty miles, so travelling in that way is very cheap and reasonably comfortable. Nevertheless, very few motor cycles are ridden here, as cars are so cheap.

The main places I have visited so far include the following. I visited Chicago about three days after I acquired the motor cycle, mainly to see the University, lavishly endowed by J. D. Rockefeller, and with fine new Botany research laboratories. I was also much impressed by the Field Museum, with its exceedingly realistic habitat groups of American animals and birds, and the Art Institute. The city itself did not impress me very much, but cities never do. My allegiance to the country, which began at Roseworthy, has lasted ever since.

In the autumn of 1930, after Summer-school at the University was over, I spent four weeks on a motor cycle trip through the East, going via Milwaukee, Muskegan and Port Huron (Michigan), Sarnia, London, Hamilton and Niagara Falls (Ontario), Geneva (New York), where I visited the State Agricultural Experiment Station, which has such distinguished men as Conn. Van Slyke, and others on its staff; at Cornell University I visited the largest plant pathology school in U.S.A.

From there I traversed the Catskill Mountains to Poughkeepsie, on the Hudson, where a branch station of Geneva is operated during the summer. Here I stayed with a recent graduate of Wisconsin, whom I knew before he left, and who very kindly motored me down the Hudson to the Boyce-Thompson Institute for plant research one day, and to Yale University at New Haven, Conn., the next day. My next stay was at Boston, a city full of historic and literary associations. The homes of Longfellow and Emerson, and of the original of the "Village Blacksmith" are within a few doors of the lodging-house in which I stayed at Cambridge, adjacent to Boston, and the site of Harvard University.

From the viewpoint of general cultural facilities, I think Harvard is foremost among American universities. It is of great interest to botanists on account of the Grey Herbarium, the Farlow mycological library, and the Arnold Arboretum associated with it. The last-named is the loveliest piece of landscape-gardening I have seen, as well as of outstanding scientific value.

From Boston I travelled north through the White Mountains in New Hampshire, and the Green Mountains in Vermont, both beautiful scenic regions, to Burlington and the University of Vermont, thence via the Adirondack Mountains to Montreal (Quebec), where I visited Macdonald Agricultural College, proceeding down the River St. Lawrence to Quebec City. I was surprised to find how thoroughly French is the Province of Quebec. French is the everyday language of the people—newspapers, shop signs, traffic signs, etc., are all in French. Most of the business people can speak English if necessary. It is entirely different from the rest of North America, which as far as I have seen, is all much the same in regard to the people and towns, except the negro and Mexican sections in the South.

On the return journey I visited Ottawa, and the Dominion Experiment Farm there, which is an exceptionally large and spick-and-span establishment. At Toronto I saw the Canadian National Exposition, and a little further on I rejoined my outward route.

At Christmas I attended the Annual Congress of the Phytopathological Society at Cleveland, Ohio, also visiting the Ohio Agricultural Experiment Station. Before Summer-school this summer I rode up the Mississippi Valley to Minneapolis and Saint Paul, Minnesota, mainly to see the schools of plant pathology and physiology at University Farm, St. Paul, where several Australians, including Drs. Noble and Waterhouse, and Mr. Hynes, of N.S.W., have studied. Here I saw the very extensive cereal-breeding plots of Stakman and his associates.

After Summer-school I purchased a second-hand sidecar, loaded it up to overflowing with camping equipment, and set off for Colorado. I particularly wished to see the Rocky Mountains, but also passed through much interesting agricultural country, devoted chiefly to maize in Iowa, and to growing sugar-beets, and lucerne under irrigation in the Platte River valley of Nebraska, and the plains close to the Rockies in Colorado. I visited Iowa and Colorado Agricultural Colleges, and stayed a few days in Rocky Mountain National Park, and in the Pike's Peak Region. I ascended Pike's Long's and Hallett's Peaks, and visited two glaciers and many beautiful mountain lakes in these places.

I am now back at work again, but under more favourable conditions than previously: we have just moved into a new building, and were very much overcrowded in the old one.

It has been pleasant to meet several Australians who have visited Madison since my arrival, especially Mr. Samuel, of the Waite Institute, who spent about four months here. I never feel lonely, however, as I get on very well with the staff and students, many of whom I have come to regard very highly. The country around Madison is charming, with three beautiful lakes within ten minutes' walk of my residence, and many pretty country roads within a few miles. I enjoy the winter almost as well as the milder seasons, though my efforts at skating so far have been more painful than graceful.

The State Universities here are much larger and better equipped than those in Australia, but I think that in view of the much greater population and wealth of U.S., our universities make a very favourable showing. The American University, I believe, is much more closely bound up with the people as a whole: it is very common for students to be partly self-supporting while at "college" as it is called, and thus students are drawn from a wider range of social status, I think, than in Australia. Inter-university football takes the

place here which League football occupies in Australia, and this is doubtless a factor in keeping the Universities in the public eye.

The system of agricultural education is different from ours. The State Agricultural Colleges here are mostly of University status, granting the bachelor's degree for a four-year course, and the master's and doctor's degrees for subsequent training and research. They give, as a sideline, a "short course" in agriculture (the students of which are colloquially known as Shorthorns) held mainly during the winter months, of which the curriculum corresponds more nearly to that of our agricultural colleges.

It is interesting to read of the many changes and innovations at R.A.C., but I am very sorry you have had to part with Messrs. Adams, Morrow, Oldham, and Squire, all of whom I remember well. I have been granted six months' additional stay here, half on salary and half at my own expense, to finish the research problem on which I am working, viz., verticillium wilt of vegetable crops, and am due to return to Australia next June (1932).

## Sport.

### FOOTBALL.

Early in the year the prospects for a successful football season appeared to be very promising, as we had most of the players from the previous team available, as well as several new ones. Our first match was won very easily, but we lost the second and third by unsatisfactory margins, and it became obvious that, though we had the players, the services of a competent coach to build the team together would be highly desirable. At a meeting of the practice team it was decided to approach Mr. Hickinbotham, who kindly agreed to assist us. During the season he carried out his task in full in time and enthusiasm, and in spite of much physical inconvenience, and we take this opportunity of thanking him for his assistance, which was highly appreciated.

Though we only succeeded in winning four Association matches, the majority of our defeats, especially towards the end of the season, were by only small margins, the team usually being in the position of just failing to overtake a big lead, which it had permitted its opponents to gain early in the match. Of our last three matches, two were against the ultimate

premiers, Souths, in Gawler, and both were closely contested.

The first of these was by far the most spectacular and exciting match of the season, there being seldom more than a goal between the teams after half-time, and College was beaten by the narrow margin of one point. We found ourselves once more in the final four, again meeting Souths, and after a very even game in which we held a small lead from the start, we failed to stay the distance and were beaten by 10 points.

When the votes for the Broderick Medal (awarded to the best and fairest player in the Association) were counted, it was found that Brechin had again won the coveted honour and that our Vice-Captain, Day, had tied for second place. As a fitting close to two years' of unselfish service to all activities of the College, especially football, our Captain, R. F. Brechin, was also awarded the Kerr Trophy. This is the first award of this Trophy, which is to be presented annually by Mr. Bruce Kerr to "The most consistently effective player for the season."

We would like to express our appreciation of the successful way in which Brechin, as Captain, and Day, as vice-Captain, have carried out their duties.

The following played in one or more matches: R. F. Brechin (Captain), G. P. Day (vice-Captain), Mr. J. L. Williams, Mr. S. E. Whicker, W. L. B. Bell, A. C. Benzie, F. G. Crisp, E. W. L. Dawkins, R. V. Dunn, S. R. Klose, W. C. John, C. W. Kelly, A. L. Oppatt, N. J. McBain, T. H. Torr, J. E. Morphett, L. McCarter, J. Wallach, A. B. Rugless, R. B. Stirling, B. L. Booth, K. T. Ryan, A. W. Feuerheerdt, A. W. Gilbert, J. W. Hursthouse.

Results:—

First Round.

Salisbury, 8 goals 5 behinds; College, 17 goals 18 behinds. Won by 67 points. Willaston, 19 goals 13 behinds; College, 3 goals 6 behinds. Lost by 103 points. Souths, 19 goals 11 behinds; College, 11 goals, 11 behinds. Lost by 48 points. Rovers, 11 goals 7 behinds; College, 8 goals 3 behinds. Lost by 22 points. Centrals, 7 goals 9 behinds; College, 12 goals 11 behinds. Won by 32 points.

Second Round.

Salisbury, 3 goals 5 behinds; College, 5 goals 8 behinds. Won by 15 points. Rovers, 13 goals 14 behinds; College, 9 goals 9 behinds. Lost by 29 points. Centrals, 8 goals 16 behinds; College, 11 goals 7 behinds. Won by 9 points. Souths, 8 goals 13 behinds; College, 8 goals 12 behinds. Lost by 1 point. Willaston, 12 goals 14 behinds; College, 11 goals 10 behinds. Lost by 10 points.

Semi-final.

Souths, 9 goals 13 behinds—67 points.  
College 9 goals 3 behinds—57 points.

\* \* \* \* \*

CRICKET NOTES.

COLLEGE A TEAM.

College have two teams in the newly-formed Gawler and District Cricket Association, one in the A1 Division, which plays two-day matches, and the other in the A2 Division, playing one-day matches.

The season opened with high prospects of success, as many of last year's team are available and our new members show much promise.



FOOTBALL TEAM, 1931.

Standing—D. Eardley, F. G. Crisp, J. E. Morphett, B. L. Booth, Mr. J. L. Williams, N. J. McBain, L. McCarter, L. A. Oppatt, C. W. Kelly, T. H. Torr, H. C. Gibbs.  
Sitting—S. R. Klose, W. C. John, R. F. Brechin (Captain), Mr. W. R. Birks (Principal), G. P. Day (Vice-Captain), A. C. Benzie, W. L. B. Bell.  
Front—K. T. Ryan, R. V. Dunn, A. W. Feuerheerdt.

Officers elected in the A1 team are:—Captain, R. F. Brechin; Vice-Captain, Mr. J. L. Williams. Selection Committee: Captain, Vice-Captain and W. L. B. Bell. Secretary: L. T. Sobels.

#### COLLEGE v. TAXATION DEPARTMENT.

Played on the College Oval on 14th October, Eight Hours Day. This annual fixture was our first match, but we were not at full strength. Our visitors batted first. Their runs came slowly, and at lunch had 3 for 18. Wickets fell steadily afterwards, and they finally declared with 8 for 166. When stumps were drawn we had lost 8 for 144, the side batting indifferently.

Taxation Department—8 for 166 (declared). (Ryan, H., 3 for 23; Kilgour, 2 for 30; Ryan, K., 1 for 16; McCarter, 1 for 18; Goodes, 1 for 24).

College—8 for 144 (Klose, retired, 50; McCarter, 24; Williams, 23; Bell, 20).

Match drawn.

#### COLLEGE v. EUDUNDA FARMERS.

Played on the College Oval on 17th and 24th October. This was the first Association match. We lost the toss and were sent to the wicket, but our batsmen collapsed under adverse conditions. Eudunda Farmers had no difficulty in scoring required number of runs in perfect conditions.

Eudunda Farmers—251 (McCarter, 2 for 23; Day 2 for 44; Goodes, 1 for 22; Kilgour, 1 for 36; Williams, 1 for 48).

College—72 (Kilgour, 22; Day, 13; Brechin, 13).

Won by Eudunda Farmers by 179 runs on the first innings.

#### COLLEGE v. SOUTH GAWLER.

Played on the Gawler Oval on 31st October and 7th November. Brechin won the toss and batted under favourable conditions, and we made a fair show, runs being hard to get, the total finally reach 123. Souths had lost 4 for 59 at stumps. Play was abandoned the following Saturday, 7th November, on account of heavy rain.

South—4 for 89 (Kilgour, 3 for 21; Williams, 1 for 7).

College—123 ((McCarter, 35; Brechin, 26; Williams, 22; Sobels, 13).

Match drawn.

#### COLLEGE v. COMMERCIALS.

Played on the College Oval on 14th and 21st November.

We won the toss and batted, and after a solid opening runs came freely, the innings finally closed for 288.

Our visitors were dismissed for 169 the following Saturday. Our fielding was poor.

Commercials—169 (Gilbert, 4 for 37; Goodes, 3 for 30; Day, 2 for 17; McCarter, 1 for 21).

College—288 (Brechin, 71; Day, 58; Ryan, H., 35 not out; Sobels, 26; Klose, 20).

College won on first innings by 119 runs.

\* \* \* \* \*

#### A2 CRICKET.

This year with the alteration in the grouping of teams in the Association the Second Eleven play in Grade A2 of the "Gawler and District Cricket Association," comprising five teams drawn from surrounding districts. They differ from the matches in Grade A, in that they are decided on the play during one afternoon only, which arrangements is working quite satisfactorily from all accounts. We are enjoying the trips which the matches bring; but miss the convenience of our own lorry, as procuring a drag gets more difficult every Saturday, thanks, no doubt, to the great enthusiasm for work shown by students engaged on Saturday afternoons.

The office bearers are Captain, A. L. Oppatt; Vice-Captain, D. L. Telfer; Secretary, F. H. Hooper. The Selection Committee comprises Captain, Vice-Captain and J. D. McAuliffe.

Results:—

#### COLLEGE A2 v. ONETREE HILL

Played at Onetree Hill on 17th October.

Onetree Hill—97 (Gilbert, 6 for 29; Telfer, 2 for 10).

College—7 for 85 (declared) (John, 35; Gilbert, 22).

Won by Onetree Hill by 12 runs.

#### COLLEGE A2 v. LYNDPOCH.

Played at Lyndoch on 24th October.

Lyndoch—9 for 183 (Cleghorne-Dunn, 3 for 18; Hooper, 1 for 8; Benzie, 1 for 23; Telfer, 1 for 40).

College—52 (Benzie, 16; John, 13).

Won by Lyndoch by 1 wicket and 131 runs.

#### COLLEGE A2 v. RAILWAYS.

Played on the College Oval on 7th November. Railways—3 for 104 (Cleghorne-Dunn, 1 for 20; Benzie, 1 for 11).

College—42 (Cleghorne-Dunn, 11; Ryan, K., 14 n.o.; Hooper, 11 n.o.).

Won by Railways by 7 wickets and 62 runs.



# The Adelaide Chemical and Fertilizer Company Limited Celebrate in 1932

An important Milestone in the History of the Fertilizer Industry of South Australia is reached in 1932, when the Adelaide Chemical & Fertilizer Co., Ltd., celebrate their Jubilee Year.

Fifty years ago a small Chemical Works was established by the late R. Burns Cuming at New Thebarton. The venture started with five men, but great opportunities were discerned ahead and steady progress made until 1900, since when remarkable development and extension has taken place.

Commencing in 1882 with the manufacture of various chemicals, it was not long before Bone Super was numbered among the products of the Company. This was the first Superphosphate made in South Australia on a commercial scale, and was used principally by the Market Gardeners, although a few enterprising farmers carried out experiments on wheat lands before Professor Lowrie advocated the general application of Superphosphate for Cereal Crops. The manufacture of Bone Super was followed by that of Mineral Super, and thus the great superphosphate industry came into existence in South Australia.

The Company is justly proud of the fact that they are pioneers of the Superphosphate industry in South Australia, an industry which has been proved to be of extreme importance to the primary producers of the State. The wealth of the State depends mainly on crop production and the wool clip, which are largely determined and controlled by the availability of plant food given to the soil as Superphosphate. Experiments in which the Company have assisted largely, both in gifts of Fertilizer and expert advice, have been carried out, proving that the application of Superphosphate from 84 lb to 150 lb to the acre considerably increases the return of all classes of cereals at harvest, also that the value of pasture lands can be more than doubled and trebled by the application of Superphosphate in the spring.

The main products manufactured at the Company's present extensive Works at Port Adelaide and Torrensville are Superphosphates, Fertilizers of all kinds, and Acids.

Sulphuric, Hydrochloric, Nitric (pure and commercial), Sulphurous and Acetic Acids are produced in up-to-date plants and supply the bulk of the requirements of the trade in South Australia, all customers realizing the dependability of the goods purchased.

The Fertilizer side is, however, the greatest in their industry. Continuous manufacture of Superphosphates right throughout the year is necessary to meet the heavy demands of farmers, made principally from February to May, and when deliveries are at their peak over 1,000 tons are dispatched daily into the country, each bag bearing the famous "Top Brand" Trade Mark.

The production of Superphosphate is very interesting, the main ingredients used in its manufacture being Sulphuric Acid and Phosphate Rock.

Sulphuric Acid is produced in a special plant, the large Sulphur-burners being fed with Sulphur imported in large consignments from Galveston (America). The Sulphuric Acid Plant itself consists of large leaden chambers and towers which are housed in substantial

buildings. It is to these chambers and towers that the gases from the Sulphur-burners are forced, made to react, and converted into Sulphuric Acid.

The Phosphate Rock used by the Company is imported from Nauru and Ocean Islands, Makatea and Morocco, and is of a particularly high grade, ranging from about 75 per cent. to 85 per cent. Phosphate. It is these high-grade rocks which have made possible the manufacture of 45 per cent. and 48 per cent. Water Soluble Superphosphates. In the early days the lower-grade rocks then available resulted in the 30 per cent. and 36 per cent. Supers, which were the standards for many years. Phosphate Rock is made ready for mixing with Sulphuric Acid by intense grinding, the lumps being fed into a series of rock breakers and grinders, which reduce the rock to a desired degree of fineness, resulting in the Company's high-grade "Top Brand" products. Elevators and conveyors carry this finely ground rock from the Mill to the Bins over the Super-mixers. From these Bins the rock is accurately weighed and deposited in the Mixers with a carefully measured quantity of Sulphuric Acid. After a thorough and complete mixing process, the contents are discharged into a Bin, capable of holding a large tonnage of freshly acidulated rock. From these Bins the material, as Superphosphates, is eventually taken automatically to the Super Storage Sheds, where immense mountains of "Top Brand" Super are matured ready for delivery at the farmers' call.

When the super is required, it is automatically taken from the Dumps, screened to ensure perfect physical condition, weighed, bagged, and dispatched to the country.

An important section of the industry, which cannot be overlooked, are the up-to-date Laboratories, equipped with a competent staff of analytical and research chemists, who keep a close check on all manufactures and dispatches. In addition to investigating and controlling the chemical problems and processes connected with industry, a good deal of time is given to research work in connection with the many agricultural problems which are continually presenting themselves to farmers and producers, and the Company pride themselves that they have been of assistance to a great number of growers in many different ways.

"Top Brand" Fertilizers are known, recognized, and sought after the length and breadth of South Australia, and hundreds of farmers to-day realize the tremendous part the "Top" has played in their progress and success.

"Give it a Spin," is the slogan of the Company, very applicable, for the excellent physical condition of "Top Brand" Supers send them spinning through the drill, evenly distributed and available for the plant right from germination to maturity.

The Company aim at making their Jubilee a record year. Their old and valued clients, and no doubt many new ones, will rally round them, for the condition and quality of "Top Brand" now ready for dispatch suggests thousands of well-satisfied purchasers and maintained and increased primary production. "Top Brand" Supers can always be relied upon.

COLLEGE v. SMITHFIELD.

Played at Smithfield on 14th November.

College—94 (Ryan, K., 17; John, 16; Telfer, 26; Emery, 14 n.o.).

Smithfield—8 for 95 (Emery, 2 for 28; Telfer, 2 for 20; Hooper, 2 for 7; Hagley, 2 for 7).

Won by Smithfield by 1 run.

COLLEGE v. ONETREE HILL.

At College on 21st November.

College—73 (Benzie, 9; Ryan, K., 18; Hooper, 12; Allan, 9; Hagley, 14).

Onetree Hill—54 (Emery, 4 for 14; Telfer, 3 for 10; Ryan, K., 1 for 9; Hagley, 1 for 10; Benzie, 1 for 5).

Won by College by 19 runs.

\* \* \* \* \*

RIFLE NOTES.

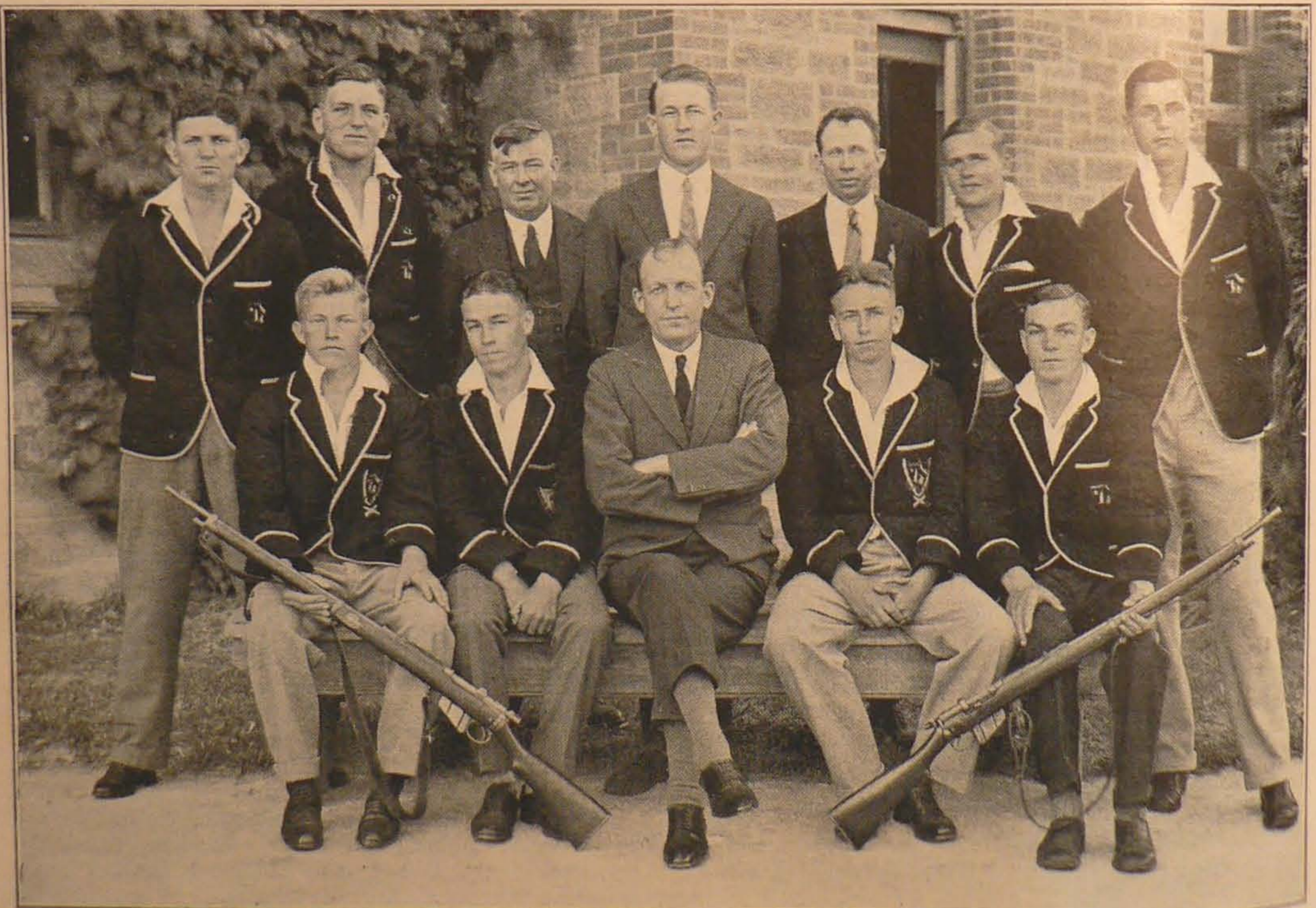
Since the last issue of the magazine the most notable incident was the shoot for the Inter-Collegiate Shield, which was held on the

"Home and Home" principle. The College team fired for the Shield in conjunction with a match against Wasleys on the Wasley's Range. The individual scores over three ranges were:—

	300	500	600	Possible
	Yards.	Yards.	Yards.	105.
R. L. Johnson ..	29	32	24	85
F. G. Crisp ..	30	35	32	97
R. A. Pownall ..	33	33	30	96
A. L. Gunson ..	30	33	30	93
B. R. Gee ..	25	33	31	89
J. H. Newland ..	25	31	30	86
				—
				546

Of the possible aggregate of 630 points, the scores obtained by the competing Colleges were:—Gatton, 576 points; Dookie, 574 points; Roseworthy, 546 points; Hawkesbury, 494 points.

The College team would like to congratulate E. Baird, of Gatton, on obtaining top score



RIFLE TEAM, 1931.

Standing—F. G. Crisp, A. Pengilly, Mr. H. R. Nourse, Mr. T. A. Cole, Mr. W. G. Fairlie, J. H. Newland, A. W. M. Gunson.

Sitting—B. R. Gee, R. L. Johnson, Mr. W. R. Birks (Principal), R. A. Pownall, C. Pollitt.

with 101 points, which is a record for the Shield Matches.

A successful series of matches since the last issue includes two wins on the home range. One was against Wasleys (won by 22 points), the best College scores being Mr. W. Fairlie, 72; A. L. Gunson, 71; and Mr. H. R. Nourse 70, out of a possible 80 points. The other against Goodwood United was also won by 22 points, the best scores being:—A. Pengilly, 69; R. L. Johnson, 69; Mr. W. Fairlie, 69; and Mr. W. Haydon, 69, from a possible of 75 points.

In conclusion the Club wishes to thank Mr. T. A. Cole for having generously donated a Trophy, which was won by B. R. Gee, and also to thank those staff members who have acted as Range Officers and coaches during the past session.

\* \* \* \* \*

#### TENNIS NOTES.

We are looking forward to another successful season in this branch of sport. The lawn courts are now promising well after an application of ammonium sulphate early in the spring. Though so far they have not had very much use they are playing true and should stand up well to the heavy wear that the forthcoming tournament will soon place upon them. This will begin in the early part of December, and it is hoped to complete it in time for the prizes to be presented at the Swimming Dance.

The asphalt courts are once again in need of repair. This term we propose to kill the couch grass which is forcing through the cracks with sodium chlorate, and then fill in the cracks and cover up with a light bituminous dressing. This, we hope, will remove the cause of the trouble and prove more permanent and satisfactory than the previous treatments with tar.

As yet, the A Grade team has only played four matches and the B Grade one. Though we have been defeated on each occasion, the defeats were by only a small margin in each case.

Results:—

#### A Grade.

Roseworthy—7 sets, 84 games; College—5 sets, 49 games.

Todd St.—8 sets, 87 games; College—7 sets, 83 games.

East Gawler—6 sets, 91 games; College—3 sets, 68 games.

St. George's—10 sets, 83 games; College—2 sets, 37 games.

#### B Grade.

Roseworthy—9 sets, 109 games; College, 6 sets, 49 games.

Office bearers for the season (A Grade) are:—Captain, R. Packer; Vice-Captain, C. W. Kelly. These and the following have represented the College in competition matches:—A. R. Beckwith, G. D. Hubble, A. Feuerheerdt, R. V. Dunn and T. H. Torr.

\* \* \* \* \*

#### SWIMMING NOTES.

During the winter months the opportunity was taken to clear the dam of weeds, which again cause trouble to swimmers.

Unfortunately, owing to lack of funds, it was not possible to pump the pool clear and deepen those parts under the high board and the tower, as was anticipated at the end of last season.

The Annual Carnival and Dance is to be held on 19th December, and it is hoped that it will be even a greater success than that of last year.

Adverse weather conditions have prevented any training to date.

## Roseworthy Old Collegians' Association

#### EVENTS.

The Annual General Meeting and Reunion of the Association was held this year at Noonan's Southern Cross Hotel, King William Street. About thirty-five Old Students were present, and an enjoyable evening was spent. The same officers were elected for the ensuing twelve months with the addition of Mr. T. O. Mitchell as a Committeeman. A pleasing feature of this year's

function was the attendance of several of the immediate past students; also the unofficial nature of the Dinner added to the evening's entertainment.

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#### THE ADELAIDE SHOW.

Old students appear to be figuring more prominently each year in the list of awards at the Royal Show, particularly in the stock sections. Besides the figures given in the

list below, H. Kemp secured many prizes in the flower sections.

Exhibitor and Section.	Championship.	Reserve Ch.	Prizes			Total Awards.
			First.	Second.	Third.	
T. B. Robson—						
Dried Fruits, etc. ..	-	-	6	9	-	-
Kybybolite Ex. Farm (L. J. Cook)—						
Ayrshire .. .. .	-	-	1	2	-	-
English Leicester ..	-	1	1	1	-	-
W. J. Dawkins—						
Clydesdale .. .. .	-	-	1	5	-	-
Dorset Horn .. .. .	2	1	6	5	1	-
South Down .. .. .	1	1	2	3	1	-
J. H. Dawkins—						
Jerseys .. .. .	-	-	3	4	2	-
Davidson Bros.—						
Romney Marsh .. .	1	-	2	3	3	-
L. T. Cowan—						
Romney Marsh .. .	1	2	4	3	3	-

E. A. Wilcox—

South Downs ..	1	1	3	-	-
Large White .. ..	1	-	3	1	-
Mid. White .. .. .	-	-	-	1	-

J. T. Murray—

Suffolk Down ..	1	1	4	4	1
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J. W. Aldridge—

Large White .. ..	1	-	3	1	-
Gloucester Old Spots	2	2	2	1	-

Totals, 1931 ..	11	9	41	43	11 115
Figures, 1930 ..	8	10	49	33	15 115

### MELBOURNE SHOW.

J. H. Dawkins—Dorset Horn: 4 Firsts, 4 Seconds, 1 Third. Total awards, 9.

E. A. Wilcox—South Down: 1 Reserve Champion. Total award, 1.

W. J. Dawkins—South Down: 1 First, 1 Second. Total awards, 2.

Apart from the Royal Show we find old students figuring prominently at various country centres, and generally taking a leading part in the rural life of the community, and

## “BRIDGE PARK”

**Large Whites**

*Boars and Sows for Sale.*

**Gloucester Old Spots**

**Border Leicesters**

*Rams for Sale.*

“Bridge Park” Pigs have been Awarded over 100 Prizes including Champion Ribbons in three States.

### *Sires at Stud:*

WOODBURNE BRADMAN I.—First under 15 months and Reserve Champion, Adelaide, 1931

BRIDGE PARK TOWGOOD 24th—Second under 15 months, Adelaide, 1931.

An outstanding feature of Awards gained at Shows has been the success of young stock bred at “Bridge Park.”

“Bridge Park” BORDER LEICESTERS are founded on Stock from leading Victorian Studs. They are the ideal ram for producing crossbred ewes for fat lamb breeding.

## J. W. ALDRIDGE

“Bridge Park,” ANGLE VALE, S.A. Phone—Smithfield 43

exerting an influence in the education of the farming fraternity through the instrumentality of the Agricultural Bureau system. Bearing on this question the following are quoted as two of the many instances which have recently come under notice. The following appeared in the "Mail," 30th May, 1931, edited by a prominent M.P.:—

### CLEARING THE SCRUB.

—  
New Men—Modern Methods.

#### POWERFUL TRACTOR.

From a visit to the agricultural districts west of Port Lincoln one obtains the impression that the farmers there are decidedly optimistic. They have passed through several years of climatic and financial failures, but they retain their great faith that good times are coming.

The season has opened most satisfactorily, giving promise of an almost certain return. I did not see an idle man or woman, while all the younger folk had something to do, and were doing it!

A great area of this hinterland is fertile, with a good rainfall. Drawbacks to its cultivation are the dense, heavy timber, the close growth of yacca, which is very difficult to eradicate, and honeysuckle, which grows in dense bushes. Clearing the land is arduous and very expensive.

The inexperienced newcomer is surprised that so little clearing has been done. He soon realizes, however, why the pioneer, without cash, and mostly relying entirely upon his own labour, was satisfied to clear only sufficient for his immediate use. However, new men with new methods have arrived.

I was shown a demonstration of land cultivation and clearing by the Ritchie brothers. They were students at Roseworthy College, and are evidently mechanical experts. For power they have a 45-horsepower caterpillar tractor, weighing over eight tons, pulling ploughs with twenty-two furrows. It travels slowly, but leaves a mark of ploughed land fifteen feet wide, and turns the soil over, averaging four acres an hour.

This monster's next effort was scrub clearing. The ploughs were detached and a huge gum log was attached. Under the command of Mr. Bruce Ritchie, the monster made its way into a dense mallee scrub, twenty feet in height, which it levelled as if it were bamboo sticks. It fell like ripe hay before the mower.

The huge gum log coming on behind dealt with any possible left-overs.

The caterpillar tractor seems to have solved the difficulty of getting rid of the dreaded honeysuckle bush. No matter how widespread the bush, the tractor simply rolled its weight over it, crushing it to the earth, to be cleaned up by the firestick later.

No doubt the Ritchie brothers and their machinery are an acquisition to the district, and their enthusiasm is as a tonic.

With the advent of new men and new methods a large area of this land and its latent wealth will be made available.

—  
J. T. Ryan, a student, who left the College in 1925, and who previously had no experience of farm practice, took up land at Mundulla, in the South-East, 940 acres, and turned his attention to grazing and pigs. Mr. Ryan has been particularly successful, and has a reputation in the district for efficiency and the adoption of scientific methods of agriculture. The 940 acres are subdivided into small fields, ranging from 20 to 125 acres, and partly established with sub-clover. Such land is carrying three sheep to the acre.

Pigs.—These are Berkshire-Tamworth sows mated with Large White boar. Each animal is weighed regularly and unprofitable sows discarded. J. T. is a great advocate of Roseworthy and the agricultural instructors, to whose joint influence he attributes his success. He has two brothers at R.A.C. now.

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#### OLD COLLEGIANS.

Brock, H. (1885).—Farming at White Hut, near Clare.

Eastwood, M. (1885).—Connected with the Tamworth Carrying Company, N.S.W.

Morris, O. H. (1886).—Grazier at Mount Gambier.

Hill, R. (1886).—Director of Knitting Mills at Portland.

Peake, H. (1887).—Farming at Cleve.

Shakes, Val. (1888).—With Goldsbrough, Mort, and Co. at Abattoirs.

Hearman, D. J. (1889).—Middalya Station, Carnarvon, W.A.

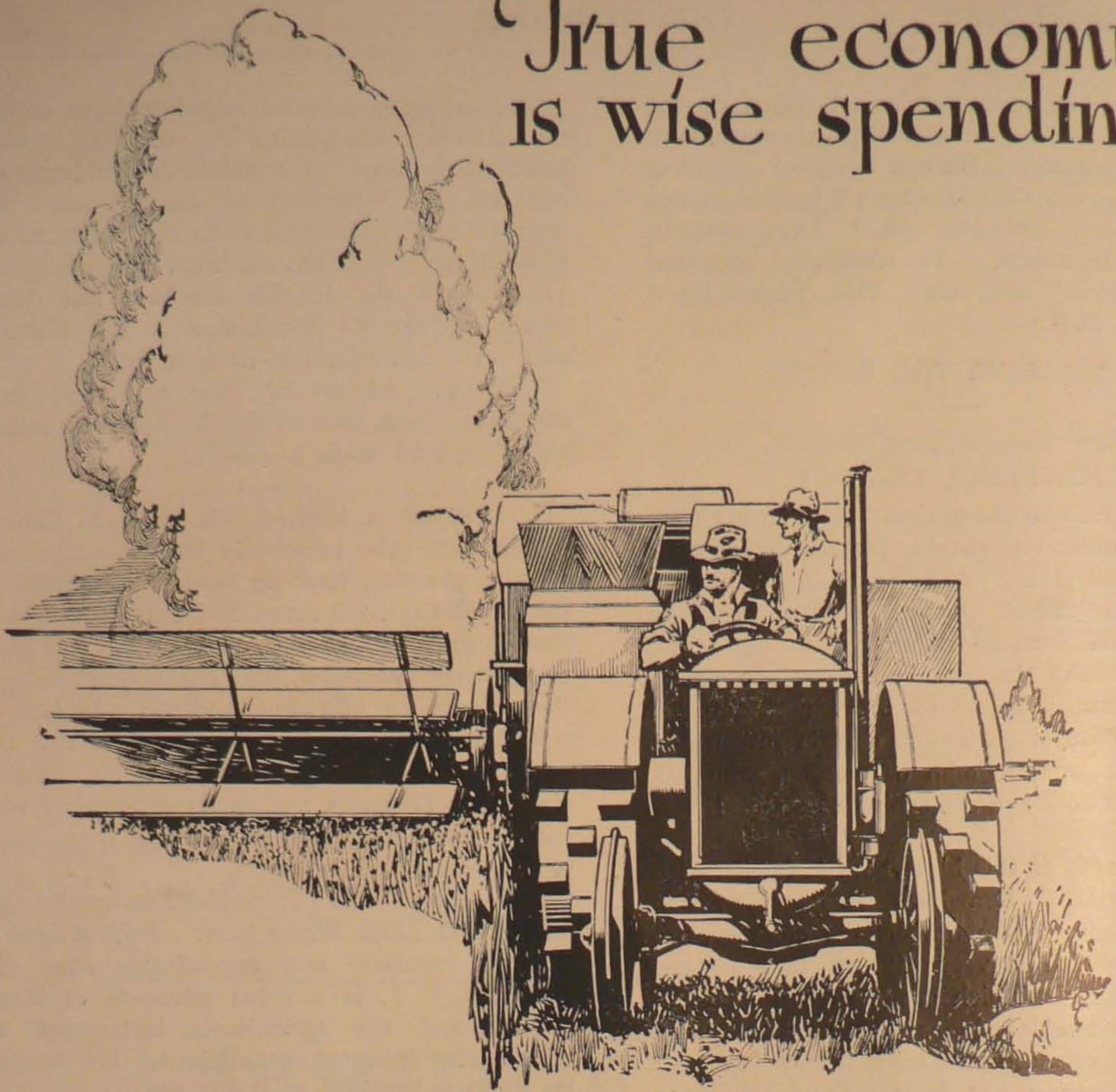
Giles, H. M. (1889).—Orchardist at Woodside.

Wight, F. S. (1890).—Clerk of District Council, Mannum.

Harvey, S. K. (1891).—In the Department of Mines and Industries, Pretoria, South Africa.

Leake, R. M. (1891).—Farming at Moorawoppin, W.A. Remembers the first vineyard planted at the College, 1892, by Professor Perkins. This section on the sandhill, west of the

# True economy is wise spending-



Proof of the wisdom of investing in Cross Power Kerosene and Golden Shell Oil for the harvest is afforded by the following facts:—

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4. Golden Shell Oil maintains an unbroken oil film on all working surfaces under the most severe conditions.
5. Golden Shell is working efficiently with the first turn of the engine.
6. Cross and Golden Shell provide a clean and uninterrupted working that will bring in the harvest on time.

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GOLDEN SHELL OIL are available  
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# CROSS POWER KEROSENE GOLDEN SHELL OIL

cellars, is being re-established and placed under irrigation, with the three principal drying varieties—sultanas, currants, and gordos. The original vines were therefore thirty-eight years old.

R. M. L. mentions that the College in those days consisted of 800 acres, and the land worth £3 per acre. Super had not come in to use then, although it was used at the College. The average yield for the district was four bushels, and that of the College twelve bushels, and wheat was then at a low price. Hay brought 25s. to 30s. per ton in Gawler.

Nichols, H. H. (1892).—Farming at Forreston, near Gumeracha.

Castine, C. C. (1892).—Manager of Castine, Edwards and Motten, Gunsmiths, Adelaide.

Graham, W. L. (1893).—Farming at Narrogin, W.A. Holds the record for the Mile at R.A.C. 5 minutes 1.5 secs.

Buring, Leo (1894).—Recently resigned from Lendeman's, Ltd., as Managing Director, and has taken over premises in Sydney, and is conducting a wine retail business.

Hodge, M. F. (1895).—Licensed land valuator and agent, Grenfell Buildings, Grenfell Street, Adelaide.

Pritchard, A. G. (1895).—Farming at Murrayville, Victoria.

Read, W. B. (1896).—Living in Newcastle, N.S.W. On the office staff of B.H.P. steel works.

In a previous communication Mr. Read supplied the following historical information:—

Kirkton Vineyards are situated on the banks of the Hunter River, some 150 miles north of Sydney. In 1827 the late John Bushby was given a grant of 2,000 acres in the Hunter River Valley. This was in recognition of Sydney's first water supply. To-day it is known as Bushby's bore, but no longer Sydney's water supply. It is used at Botany in the large wool-scouring works containing combing mills and fellmongering. Mr. Bushby immediately imported from the Rhine and France 360 varieties of rooted vines and had them planted. He then selected those which suited the soil and climate. These were the first vines planted in Australia, and since then cuttings from this vineyard were planted throughout the Hunter River. The property remained in the hands of the descendants of the late John Bushby until 1904, when it was bought by Lindeman, Ltd. Kirkton makes a very delicate light-dry wine, chiefly of the Claret and Hock type,

a large proportion of the wine being used for the manufacture of sparkling wines. The wines need careful handling, and each cask is topped fortnightly. The last of the old vines, 96 years old, have been grubbed out in recent years. They produced a payable crop up till 1918.

Laffer, H. E. (1897).—Overseas' Representative of the Wine Export Marketing Board, with headquarters in London. Is at present in Canada in the interests of the Board, familiarizing himself with the requirements and market conditions prevailing in the Dominion.

Milne, G. S. (1898).—Officer in the Customs Department at Cape Town, South Africa.

Angove, T. C. (1899).—With Mr. R. H. Martin (1900) has just returned from England after a business trip in connection with their wine interests.

Gurr, G. C. (1899).—Manager of the Sewage Farm at Islington.

Caw, A. B. (1900).—Farming at Kojonup, W.A.

Paltridge, J. W. (1901).—Has a dairy farm at Mypolonga.

Weise, Bob (1902).—Farming at Bordertown. Recently was unfortunate enough to have his homestead burnt, caused by a fusing of the electric light plant. Included in the destruction were several trophies won at R.A.C. Our sympathies are extended to this old Student.

Fulton, D. (1902).—Managing Director of Woodly Wines, Adelaide.

Magarey, A. W. (1903).—Fruit growing at Berri.

Titley, B. J. (1904).—Farming at Point Victoria, Yorke Peninsula.

Billinghurst, S. C. (1905).—When Minnipa was sold Mr. Billinghurst secured the homestead block.

Wilcox, K. S. (1906).—Has a dairying property at Gawler River, S.A.

Shekleton, J. B. (1907).—Is still at Mount Charlotte, Hilltown.

Bruce, M. (1908).—Last heard of at Penong, Eyre Peninsula.

Tolly, R. D. (1909).—One of the Directors of Tolly, Scott and Tolly, of T.S.T. fame.

Tamblyn, W. K. (1909).—Has a block at Renmark.

Madeley, G. V. (1910).—Is farming at Moorak.

Webb, G. R. (1911).—Has a well-improved property at Warrnambool, Victoria.

Sibley, S. J. (1912).—Up till recently was in the Railway Department and stationed at Gawler.

Howard, H. H. (1912).—Farming at Petina, on the West Coast.

- Conway, B. (1913).—Has a vineyard and orchard property at Cadell above Morgan. Visits the College periodically.
- Orchard, H. H. (1914).—Horticultural Instructor stationed at Mount Gambier.
- LeMessurier, E. J. (1914).—Farming, Gurramulka.
- Catt, K. C. (1914).—Farming in Western Australia.
- Bagot, G. (1914).—Present address, Echunga.
- Koch, F. R. (1915).—Has a property at Wilkawat.
- Robinson, J. O. (1915).—Dairy farming at Meadows.
- Preston, D. H. (1916).—Farming in Western Australia.
- James, W. J. H. (1916).—Chief Inspector for the Phylloxera Board, S.A.
- Beaumont, L. W. (1916).—Farm Manager at R.A.C.
- Nicholson, A. J. S. (1917).—On Roopena Station, S.A.
- Samuel, C. G. (1918).—Is still in Kenya Colony, South Africa, growing coffee.
- Shepley, Ken (1918).—Recently returned from W.A. Dairying at Two Wells.
- Fairbrother, G. E. (1919).—Retail agent for Reynell & Co. in Sydney.
- Scrymgour, B. B. (1919).—Has a property at Murrayville in Victoria.
- Thomas, E. B. (1920).—Farming in W.A. Visited the College last year.
- Pellew, C. E. (1920).—Is still taking a prominent part in S.A. Cricket as coach of the Colt's team.
- Howe, F. L. (1921).—Farming in Western Australia.
- Close, J. A. (1922).—Recently appointed a Dairy Instructor in the Northern Districts of Tasmania.
- Wate, W. D. (1922).—Still farming at Lameroo.
- Castine, Ron (1924).—From reports Ron is at present on the West Coast, woolclassing.
- Winnies, A. R. (1924).—Teaching at Clare, and taking an active part in Bureau activities.
- Robinson, H. W. and Robinson, G. H. (1925).—Farming at Balaklava. Have a remedy "Robroc" on the market for oxalic acid poisoning in sheep.
- Spencer, Laurie (1927).—Has given up the University course in Perth, and is back on the farm.
- Harrison, W. (1927).—Has recently returned to Australia from Egypt.
- Drew, A. K. (1926).—Was in Adelaide for the Show.
- Geddes, C. O. (1926).—Present address, "Pomona," Melrose.
- Couche, Don (1926).—Is at present at Montpellier, after a tour of France.
- Hooper, A. C. (1928).—In the Laboratory of T. Hardy & Sons, Mile End, learning the technique of wine analyses.
- Henderson, R. J. (1930).—On Sturt's Meadows Station.