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WHAT RESEARCH WORKERS ARE DOING

PROSPECTS GOOD

STRIKING results in stimulating wool growth of Merino sheep have been attained, both from scientific and economic standpoints, according to Mr. H. R. Marston (acting chief of the Division of Animal Nutrition), who has returned from a three-weeks' visit to Queensland.

Experimental supplementary feeding with cystine-rich protein concentrates at Meteor Downs Station during 1929-30, utilising groups of 200 lambs dur- rated animal is enormous. ing their first year of growth, he said Institute so treated cut 17 lb. of wool could be stimulated by about 30 per half that realised by increased wool growth.

The classing of the fleeces taken in-(Mr. Fryer) who attended the shear-

from the

well

bolder

as



H. R. Marston character. in the treated animals.

Economic Value Confirmed

Results of the experiment, conre tinued another year, confirmed those we of the first year, and enabled them to pa judge whether the animal increased its wi power of conversion of food materials iri to wool fleece after extra strain im-ability to pursue it. th posed by the rapid period of body growth was relieved. Figures showed a of difference even greater than the preir vious year-a mean of about 32 oz. of wa wool, or more than 30 per cent., being m realised from experimentally-treated This return was gained by

strated that, by careful choice of pro-Neal Smith and Thomas Oliver Mitchell. Melbourne. tein materials-which are by far the most expensive both biologically and economically—the total cost of handfeeding can be more than accounted for by the wool grown over a period of poor-fodder conditions, or during time of extreme distress of drought, he added.

Funds for Further Work

An extensive programme of work had been started under funds provided by various organisations for research on Nutrition Laboratory, Victoria-drive. pastoral problems.

The Commonwealth Bank had alletted the division £1,000 for the erection of yards and buildings, in which to study hand-feeding for sheep drought relief. The Empire Marketing Board had offered, through Dr. Rivett (chief executive officer of the Council for Scientific and Industrial Research) during his recent visit to England; £3,000 a year for five years, provided private sources in Australia raised a wimilar amount. "The Pastoral Research Fund, of which Mr. Geo. Aitken is chairman, immediately offered us practically the whole of their interest on money collected by voluntary levy-\$2,000 a year"-Mr. Marston said, "and have since given an additional £100 a rear.

Dalgety & Co., the Australian Mercantile Land & Finance Co., and the New Zealand Loan and Mercantile Agency Co. have each offered £200 a year, so that already £2,700 is subscribed. The remaining £300 a year is expected to be

forthcoming shortly. "This shows that the work is appretated in quarters most vitally confeeding for drought rellef can be proceeded with without restraint."

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Figures would be published showing the minimum amount of materials from various market sources necessary to compound drought or supplementary rations to maintain animals, and also assess the extra wool growth during hand-feeding.

Drought-feeding rations might thus be compounded by the pastoralist himself, choosing this or that concentrate, grain, or fodder from fluctuating markets to meet his needs, with confidence of economic returns.

Weaner Cuts 17 lb. of Wool

"The efficiency of the most carefully bred sheep, although enormously above that of more common stock, is still low," Mr. Marston went on.

"The possibility of enhancing it by artificially dilating the capillary beds are being studied with promising prospects. Surgical removal of the pineal gland-a body the size of a pea, at the base of the brain-will promote a greater supply of blood to the glands. The change in wool growth by the ope-

"A weaner from the Waite Research yesterday, showed that wool production with a 5-inch staple, during the first cent, and the cost of feeding less than year of its growth. The operation is arduous and difficult, can be done only by a skilled brain surgeon, and consequently holds little hope of economic The classing of the fleeces taken in application. Efficiency, however, may dicated in terms of the expert classer be increased, and other means, mainly ing "that apart pharmacological, are being sought to the in-themselves to station practice."

ws 27-2-31 FREE TRIP TO LONDON

tary-fed animals. Chance for University Students

staple, and much Each year the associated steamship combetter defined panies grant three first-class return passages to London to students of the Uni-The tendency of the whole clip was versity of Adelaide wishing to continue cli to change from a tender 64-70's in the post-graduate study abroad. The passages controls to a well-grown 64's quality are available from June to November.

Recommendations are made by the council of the University Applications for free passages for 1931 must reach Mr. F. March 14. Applicants must state full par-

1eus 28-2-31 Scholarship Winners

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among the passengers for Adelaide by the Ceramic which will berth at the a lot about shaping soft glass. In Outer Harbor this morning. Sir Charles fact, I was often my own glass blower." AUSTRALIAN FRIENDS will take charge of the experimental work being carried out at the Animal

News 2-3-31

Mr. W. J. Young, C.B.E. (general mana-in commerce given by Professor Gre- at Melbourne University." ger of Elder, Smith & Co., Limited), has gory last August has been received During the great war he was attached been reappointed chairman of the State from Adelaide University. This lec- to the Australian Imperial Forces, and been reappointed chairman of the State from Adelaide University. This leccommittee of Science and Industry Re-ture entitled "Current Problems in Inwas the pathologist at the Third Austraternational Finance," was published lian General Hospital on Lemnos Island.
in "The Advertiser" in a series of While there he constructed and installed

MR. WALLACE V. LUDBROOK

of Norwood, who is studying plant pathology at the University of Wisconsin. America, under a studentship of the Commonwealth Council for Scientific and Industrial Research, has been notified that he has secured the degree of Master of Science. gained his Bachelor of Science degree at Adelaide University before leaving for America a year ago.

Adu 3-3-31

OLD TINS

Used to Helping Himself

Sir Charles Martin, the new director W. Eardley (registrar) by Saturday of the Animal Nutrition Division of ticulars of the study which they propose the Council of Scientific and Industrial man who made, with spare tins, an problems are most acute. acetylene gas plant at Lemnos Hos- "Our work will be to ascertain the most

m the consumption of a greatly reduced council of the University of Adelaide ac large in the eyes of many Australians will obtain the knowledge for the pastoral-

nourished wool. They formed a well-Awarded by the University Council-when daylight failed, something had causes of depression in the woollen induswool. The control animals cut thinner St. Alban Scholarship (awarded by thelaboratory, Therefore, being by nature Sir Charles spent a month in South fleeces, which were shorter and more Freemasons' Lodge of St. Alban, of South a bit of a tinker, I had to adapt any-Africa on his journey to Australia. He

feeding for stimulating wool growth was tawarded by Adelaide Co-operative So his "tinkering" when he was in Aus-Theiler, the eminent veterinarian. thus confirmed and assured, Mr. Mars-ciety, Limited).-Ronald Beaumont Love tralia about 30 years ago, first as de- In the Union those on the land were John Ridley Memorial Scholarship monstrator at Sydney University, and confronted by many insect-born, diseases,

wanted a glass tap or equipment of nutritive fodder. that description, one could not simply The new director inspected the laborago to a telephone and ring up a manu-tory at Victoria Drive this afternoon, and to be made, and in that way I learned in conjunction with it.

Hdu. 6-3-31

1 wo 2-3-31

BENEFIT TO WOOL INDUSTRY

Sir Charles Martin Arrives

Tail, of scholarly bearing and quiet, deliberate manner, is Sir Charles Martin. C.M.G., D.Sc., F.R.C.P., F.R.C.S., who arrived from London by the Ceramic today to assume the directorship of the animal nutrition laboratory of the Commonwealth Council for Scientific and Industrial Research in succession to the late Prof. T. Brallsford Robertson

He will also be professor of biochemistry and general physiology at Adelaide University.

Sir Charles was profesor of pathology at London University, and director of the Lister Institute of Medical Research until December 31 last, when he was superannuated. An Englishman by birth, be spent 14 years in Australia as professor of physiology at Melbourne University. and returned to Britain 30 years ago. In 1923 he revisited Australia for a few weeks.

Since the war the Lister Institute had been largely concerned with the study of human nutrition, said Sir Charles. That research arose following food shortage among the different armies and the civil population. Years ago it had been thought enough if food were supplied in sufficient quantity to serve as fuel for energy and to repair waste, but research had revealed that small quantities of other "By the way," he added, "the term vitamin was coined in the Lister Institute in

Speaking on the work of the animal nutrition laboratory. Sir Charles said that Prof. Robertson had laid down a scheme which would take several years to complete. It seemed to be adequate, and would be continued. A tremendous programme of work was to be undertaken. It was creating much interest in Great Britain and South Africa

IMPERIAL CO-OPERATION

"An endeavor is being made to ascero undertake abroad and of their financial Research, is known to many Austra-tain the problems confronting each lians as director of war-time labora- dominion and so obtain economy of effort." tories, but to others he is known as the said Sir Charles. 'In addition, the work will be done in places where the individual

economical way to feed sheep in order to That, he explains, was a triffe, but a produce the maximum amount of the best At its meeting yesterday afternoon the could find such use for old tins, bulked with the problems of the producers. We

ists who will have to apply it." John Creswell Scholarships (awarded Sir Charles had to be drawn before Discussing the position of the manufac-The classer's report of the second by the Royal Agricultural and Horticul-he would say anything about that turers of woollen goods in Great Britain. an shearing was: "The supplementary-fed tural Society of South Australia) -Alec J spare tins episode in his career. "Ithe said the lack of demand for woollen animals cut much more bulky, denser Ashton. Awarded by the South Austra was simply a matter of necessity," he clothing by women and the advancement fleeces, with a bolder staple of well-lian Cricket Association.-J. E. Frayne said. "I was working long hours and of the artificial silk industry were the chief

tender, and of a lower yielding, and Australia).-B. M Jolly. thing that came to my hand, and the aid that he did not think that pasmore variable class. The difference in Thornber Bursary (awarded by the In-acetylene plant was the result. Attoralists in that country would obtain a appearance is more outstanding than stitute of Associated Teachers).-Ina Alice any rate, it was only for my depart-living were it not for the efforts of inves-The economic value of supplementary George Thompson Bursary in Commerce Sir Charles said he learned much of which had been founded by Sir Arnold

"The division has adequately demon-(awarded by the trustees).--Cedric Alired then as demonstrator and lecturer at while some parts of the country were I deficient in mineral constituents, which "In those days," he said, "if onewere necessary to ensure the growth of

Sir Charles and Lady Martin are facturing chemist or warehouse and will later on make tours to study the

Sir Charles expressed pleasure at being able to return to Australia. "I have not only the few friends of my own generation, but in addition I have a number of young friends." he said. "T had 1,000 A copy of the Joseph Fisher lecture men pass through my hands when I was

in "The Advertiser" in a series of While there he constructed and installed articles. Copies of the lecture now embraced in a brochure may be had at tory. His ability in this direction he attributes to his early years in Australia. After the evacuation of Anzac he served in Egypt and the Sinai Desert. Later he was in charge of laboratories on the

Lady Martin has accompanied her husband. They are staying at the Hotel