

Register 6-1-27

SOUTH AUSTRALIAN RELIEF WORKER.

News of Miss Darnley Naylor.

Miss Margaret Darnley Naylor, who has recently joined the staff of the Save the Children Fund in London (says The British Australian) is the daughter of Professor Darnley Naylor, of the University of Adelaide, and is one of the younger generation of Australian women who are actively interested in social welfare and relief work.

After leaving the University of Adelaide, she came to England in 1921, to join her father, who had become Secretary of the National Union in South Australia. In this capacity she has come to know with many phases of work in the relief work in the Commonwealth.

She took a very active part in the relief work in the Commonwealth, and has been a very active part in the relief work in the Commonwealth. Since she left the League of Nations.



Miss Margaret Darnley Naylor.

able, early this summer, she has attended several international conferences. She was at the Federation of Women's Societies' Conference in London for the first time a speech was given by a delegate from Australia.

Miss Darnley Naylor attended the Children's Summer School at Vienna, and the conferences of the same nature which took place in Vienna in 1926.

Since her return to England, Miss Darnley Naylor has been hard at work for the Children's Fund, and will shortly be on a tour through England, speaking in the schools on the work of the Children's Fund. She also is a member of the British Overseas Committee of the International Suffrage Alliance. Miss Darnley Naylor has decided to become a citizen of Australia. Since being in Australia she has become a keen supporter of the British Labour Party.

News 3-1

CHIEF JUSTICE

FAREWELL JANUARY 30

Changes Caused by Absence

To say goodbye to Sir George Murray (Chief Justice), who is leaving shortly for a trip to Great Britain accompanied by Miss Murray, a farewell dinner will be held by members of the Bar at the South Australian Hotel on January 30. The Hon. W. J. Denny (Attorney-General) will preside.

During the absence of Sir George Murray, Dr. F. W. Richards, K.C. (Crown Solicitor) will be appointed Acting Judge of the Supreme Court. His appointment has already been approved by Cabinet. Mr. Justice Poole will fill the position of Acting Chief Justice.

As Sir Murray's absence will coincide with the visit by His Excellency the Governor to Great Britain, Mr. Justice Poole will also be Deputy-Governor. Mr. A. J. Hannan (Parliamentary Secretary) will be Acting Crown Solicitor while Dr. Richards is on the trip.

MAN ON THE LAND.

WHEAT VARIETIES.

Characteristics Described.

II.—By Dr. A. E. V. Richardson, M.A. (Director, Waite Research Institute).

Federation is a variety produced by Farrer from a cross between Yandilla and Purple Straw. This is without question the most popular and prolific variety in cultivation. The production of this wheat was the greatest of Farrer's triumphs in wheat breeding, for none of his many successful crosses have enjoyed for over a decade such popularity as Federation. Indeed, the colour of our harvest fields has been gradually changed from the golden yellow tint characteristic of wheats formerly grown to a dull bronze through the increasing popularity of Federation. In 1924 approximately 60 per cent. of the wheat area of Victoria was sown with Federation. In the Wimmera district over 80 per cent. of the wheat area is devoted to this variety. This popularity was won by sheer merit, for Federation, seen in the field for the first time, is decidedly unattractive, especially when grown side by side with the showy wheats of the Purple Straw type. Most farmers in growing it for the first time have expressed great surprise at the yielding capacity when the wheat was taken off, for the yield invariably exceeded expectation based on pre-harvest estimates. As a matter of fact, Farrer's main aim in producing Federation was to obtain a variety suited to the Australian methods of harvesting with the stripper. As might be expected, there are numerous strains of Federation developed from the original of Farrer's. Hard Federation, produced by Pridham, of New South Wales, is slightly earlier, and has grain of better quality than Federation, and in some districts it yields as well as Federation. Wannon, a selection of Federation produced by the Victorian Department of Agriculture at Longerenong College, has shown improved yielding capacity over Federation. During the last few years many of the crosses bred have a strain of Federation in their pedigree. Federation is a medium, short-growing variety, with hollow, thick-walled straw, which does not lodge. The ears are of moderate length, square to slightly tapering, bald, glabrous, dark-brown in colour, and of moderate density. Sprinkles are large and spreading, with low, medium-sized grains of soft, mealy consistency. The grain is of low milling strength, and poor in gluten. It is susceptible to rust, flag smut, and, to a lesser extent, takeall. Notwithstanding these drawbacks, it is a prolific grain variety. The grain is liable to suffer from bleaching, especially during showery harvest weather, owing to the fact that, unlike many of the older wheat varieties, the ear stands upright when ripe, and readily allows rain to penetrate. It is a mid-season variety, a heavy yielder, and holds the grain well.

Fairbanks, Gallipoli, and Gluyas.

Fairbanks is a crossbred variety bred by Farrer by crossing Zealand with Maffra; an early maturing variety grown largely for hay, especially in the Riverina. It is a tall-growing variety, with hollow straw, and long, light, yellow, tapering glabrous ears with a few short awns. The ear is lax and open, with large, spreading, irregular spikelets. The grain is large, yellowish, opaque, soft, and starchy. Gallipoli is a crossbred variety produced by the writer by crossing Clubhead with Yandilla King. This is a short-growing mid-season variety, with shallow, thick-walled, strong straw. It has a bald, brown, glabrous, dense, moderately long, compact, clubbed ear, with large, but not spreading, glumes, and yellow semi-transparent, large oval grain, with very long embryo. The original crossbred held the grain very closely; somewhat like the Yandilla King parent, but several selections have been obtained, in which the grain is readily threshed. This variety has given heavy yields at Werribee and Longerenong, and at various experimental plots in the wheat belt. It has a high percentage of grain to straw, and its short straw and prolific character make it suitable for hot, dry districts. Gluyas is an early maturing variety of wheat raised by Messrs. Gluyas, of South Australia, as a selection from Ward's wheat. It is a beardless, glabrous, dark-chaffed, and light-grained wheat. Although the straw is semi-solid, it has great tendency to lodge. The ear possesses a few irregular tip-awns, and is of medium length, lax, with spreading spikelets. The grain is large, and usually soft and starchy. It is fairly immune from fungal diseases, and possesses high rust resistant qualities. It is a vigorous, moderately tall, early maturing variety, especially suited to the drier areas. Its great drawback is its weak straw and its tendency to lodge. As the grain ripens the dark bronze-coloured ears become pendulous, but do not shell on account of the firmly closed enveloping glumes. A bearded form of this, somewhat earlier in maturity, is grown under the name of Bearded Gluyas.

Graham and Huguenot.

Graham is a crossbred variety produced by the writer from a cross between Indian 8 and Comelback. It is a tall-growing mid-season to late variety with hollow, thick-walled straw. The ear is pale yellow, bald, with tip-awns, glabrous, square to lightly tapering, lax, with large spreading, regular spikelets. The grain is large, yellow, dark, and translucent. This variety has given good results in departmental tests. It is a good grain yielder, and a good hay wheat. Huguenot is a variety produced from Medeah by J. Correll, of Arthur River, Western Australia. It is a tall-growing wheat of the macaroni or durum class, quite free from the long, coarse beards characteristic of Medeah. The straw is practically solid, and very sweet in character. It stands up well, frequently growing to a height of 6 ft. It stools sparsely, so that it must be sown very thickly. In early growth it is erect and of light green colour. The head is very dense and compact, bald, light brown, with bluish-black markings, and large, compact, very regular spikelets. The grain is long, hard, horny, angular, slightly pinched, dark yellow, and adheres closely to the chaff, making the wheat difficult to thresh. It has a high gluten content, but the colour of the flour is objectionable. It is highly resistant to fungal diseases. It yields heavy crops of fodder and hay, but its grain yield is low. It is essentially a hay and forage variety. The price of the seed is much higher than that of other varieties. The proportion of grain to straw in this variety is low.

King's Early and Mac's White.

King's Early is a selection made by Mr. Joseph King, of Georgetown. It is a vigorous, early maturing, tall-growing variety, with semi-solid straw, largely grown for grain in the hot, dry areas of South Australia. The ears are light yellow, tapering, bearded, glabrous, and lax, with large spreading spikelets. The grain is large, soft, opaque, and semi-transparent. Two types, based mainly on colour, were isolated by Professor Perry of King's, of Roseworthy College—King's Red, with brownish red grains, and King's White with light yellow grains. Despite the semi-solid character of the straw, this variety tends to lodge in favourable seasons. In spite of its beard, it is valued as a hay wheat on account of the solidity and sweetness of its straw, and its capacity to retain its colour well. Mac's White is said to have been obtained by Mr. W. McDonald from a consignment of wheat imported from New Zealand. This is a popular wheat in the newer Victorian mallee, where it is valued on account of its strong growing qualities and its capacity to grow above the ubiquitous mallee shoots that are so prevalent in the earlier stages of mallee settlement, and because it provides a good bulk of straw and hay for stubble burning. After harvest a good stubble burn assists in the control of mallee shoots. While it yields well, it has a strong tendency to shatter its grain, and must be harvested as soon

as possible. It is a tall-growing variety with hollow, but slightly solid, straw. The ears are long, open, tapering, bearded, white, glabrous, with large spreading spikelets. The grain is large, yellowish, white, soft, and mealy.

Major and Marshall's No. 2.

Major is a cross red, produced by H. Pye, of the Victorian Department of Agriculture, from Federation and Yellow. This variety has become very popular in Victoria, especially in the mallee districts, owing to its high yielding capacity in favourable years. It is a moderately tall-growing mid-season to late variety, with strong, coarse, hollow straw. The ears are light yellow in colour, glabrous, fairly dense, bald, with a few irregular tip-awns, square, with a tendency to clubness towards the apex. The ear is moderately long, with large, broad, spreading spikelets and yellowish-white, oval, opaque, soft starchy, medium to large grains. It yields well, but yields well in the cooler districts and in seasons with liberal spring rains. Marshall's No. 2 is a selection from Ward's Pacific made by H. Marshall, of South Australia. It is a late maturing wheat of good tilting capacity, but rather slow growing when young, with spreading habit, and broad, dark green, drooping leaves. The straw when ripe is hollow, slightly pithy, and develops a purplish tinge. The ears are long, tapering, very lax and open, bald, but with slight tip beards, creamy yellow glabrous. The grain is large, soft, white, plump yellowish in colour. It is fairly resistant to rust, and is popular in South Australia, New South Wales, and Queensland, and is a reliable general purpose variety.

Medeah, Minister, and Nizam.

Medeah is very similar to Huguenot in structure and general qualities, except that the ear possesses long, upright, coarse-toothed awns. It is suitable for fodder, ensilage, or hay. This variety was obtained from M. Vilmorin, Paris. Minister is a variety produced by H. Pye, of the Victorian Department of Agriculture, from a cross between Dart's Imperial and an unnamed crossbred. It is one of the best milling wheats grown, and is highly valued by millers. The grain is yellowish to dark yellow in colour, hard, translucent, oval, and of medium to large size. It has a good gluten content, and the flour possesses high water absorption capacity. It is a mid-season to late variety, with hollow straw carrying some pith. The ears are creamy white, glabrous, dense, with distinctly clubbed appearance. Spikelets are of medium size, regular, but somewhat spreading. It gives the best yield of those varieties of high milling quality, and its production marks a distinct advance in the direction of producing a prolific wheat of good quality. Nizam is a new crossbred variety produced by the crossing of Indian 17 with Federation. A vigorous tall-growing mid-season to early variety, with bald, compact, glabrous, well-developed ears, clubbed at the apex with bronze-coloured chaff devoid of awns. The grain is oval, medium to large, yellowish, soft, and starchy. This variety has done well in departmental tests, and also in the tests in the new mallee areas. It is a prolific yielder of grain in moderately dry seasons.

Penny, Purple Straw, and Steinwedel.

Penny is a selection from Squarehead, produced by Mr. Penny, of Western Australia. This variety has given consistently good yields in the mallee and Wimmera of Victoria. It is a strong, tall-growing wheat, with hollow, somewhat pithy straw. The ears are creamy yellow in colour, glabrous, well developed, compact and clubby, almost bald, but with tip awns. The ear is dense, with large, regular, somewhat spreading spikelets, carrying large, yellowish, oval, soft, starchy grain. It is a prolific grain yielder in the mallee and the Wimmera. Purple Straw is one of the oldest cultivated varieties in the Victorian wheat-belt. It is a fairly tall-growing, mid-season to late wheat, with hollow, purplish straw, and abundant foliage. The ears are of moderate length, creamy yellow, square or very slightly clubbed, glabrous, and possess short tip-awns. The ear varies from lax to moderately dense, and the spikelets are large and spreading with yellow, opaque, oval, rather large, soft mealy grain. It is very liable to rust and takeall, and owing to its liability to disease it has been gradually superseded by harder, less leafy and more prolific varieties. Steinwedel is a selection made by A. Steinwedel, of South Australia. An early maturing hollow strawed variety, extensively grown in South Australia and New South Wales, and to some extent in northern Victoria. It is a heavy yielder, but has a strong tendency to shed its grain, and should therefore be harvested as soon as it reaches maturity in order to obviate losses. The ears are pale yellow, moderately dense, glabrous, beardless, with slight tip-awns. The ear is of medium length, slightly tapering with broad spreading spikelets set irregularly on the rachis. The grain is rather large, oval, yellowish white opaque, soft, and starchy. Improved Steinwedel, a Dookie selection, does not scatter its grain as badly as the original selection.

Rajar, Rance, and Turvey.

Rajar is one of the new crossbred varieties which has shown considerable promise in the mallee areas. An early maturing, vigorous variety, with somewhat short but compact bald ear. Chaff light creamy yellow with short tip-awns, wide spreading spikelets with many grains in the spikelet; grain medium large, yellowish-white, soft, and starchy. It is a prolific grain yielder in dry, hot mallee districts. This variety was obtained by crossing Indian E, with Telvadi's Rance, an early maturing crossbred variety which has given considerable promise in the newer mallee areas; ears of moderate length, dark brown, glabrous, bald, with slight tip-awns; ears moderately dense and somewhat tapering at the tip. Grain medium large, brownish yellow, slightly starchy to semi-transparent. A prolific grain yielder in hot, dry mallee districts, it was produced by crossing Indian E with Federation. Turvey is a variety grown fairly extensively in Victoria for hay. It is a tall-growing, vigorous stubbling variety with hollow purple straw. It possesses light yellow, glabrous, tip-bearded tapering lax ears with large regular somewhat spreading spikelets. The grain is large yellowish white, opaque, soft, and mealy.

Warden, White Tuscan, and Yandilla King.

Warden is a variety produced by H. Pye, from a cross between an unnamed crossbred and Red Bordeaux. It is one of the most popular hay varieties in Victoria. It is a tall-growing variety with hollow but thick-walled straw, mid-season

ST. MARK'S COLLEGE
UNIVERSITY OF ADELAIDE

ST. MARK'S HALL OPEN IN MARCH 1927
Admission will be allowed on FEBRUARY 27th
and continuation may be paid in order of admission

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LICENSED VICTUALLERS SCHOLARSHIPS

The Minister for Education (Hon. L. L. Hill) announced on Wednesday that the Government had accepted the offer of the South Australian Licensed Victuallers' Association of five exhibitions for competition each year among the children attending the public and private schools of South Australia. The exhibitions are of the value of £25 per annum each, and will be awarded on the result of the intermediate public examinations conducted by the University of Adelaide. They will be tenable for three years at a Government high school, or other secondary school approved by the Minister. Applicants must be under the age of 16 years on December 31 of the year in which they compete. The present Government recently increased the number of departmental exhibitions from 60 to 100. These are of a similar character, although they are less valuable. It is hoped that the public spirit and practical interest in education shown by the Licensed Victuallers' Association will be emulated by other public bodies.

Advertiser 9-1-25

THE DENTAL BOARD

The results of the election of dental members to serve on the Dental Board for two years, held yesterday, are as follows:—Dr. H. T. J. Edwards M.C. (elected); Mr. F. M. Swan, 74 (elected); Mr. Charles Newling, 28.

to late in habit. It stands fairly profusely, and produces abundant foliage. The ears of medium length, yellowish in colour, tapering, glabrous, almost bald, with a few short tip-awns. The ear is lax, and somewhat open, with large irregular spreading spikelets. The grain is very distinct in appearance from most of the varieties cultivated in Australia. The testa is reddish brown in colour, and the endosperm opaque and mealy. The grain is dull reddish brown in appearance, but is an excellent hay variety, and narrow. It is not a heavy grain growing good yields of fine quality hay which retains its colour well. On the Werribee plains large areas of a mixture of Warden wheat and Algerian oats are sown for hay. White Tuscan was formerly a very popular hay wheat. It is a selection from Purple Straw. It is a late-maturing variety, with fine quality sweet straw, which retains its colour well when cut for hay. The ears are light yellow in colour, glabrous, long, tapering, open, with short awns throughout the whole length of the ear. The spikelets are rather broad and spreading, and the grain yellowish white, soft, opaque, and somewhat pointed. Yandilla King is extensively grown in the wheat belt. It is a crossbred variety, having been produced from a cross between Yandilla and Silver King—a white-strawed variety of Marshall's No. 3. It is a late-maturing variety, with good spacing, propanated, and grows rather slowly in the early stages. The ripe straw is stiff, hollow, and upright, bearing long, creamy yellow, well-developed glabrous, somewhat open ears. Slight tip-awns are developed throughout the entire length of ear. The spikelets are large, spreading, and irregularly set, carrying grain closely adhering to the rachis. It therefore does not strip readily. The grain is yellow, rather dark, large, semi-transparent, medium hard, and of a consistently heavy quality. It has been regarded as one of the most prolific grain varieties in general cultivation.