

## D. Telegraph 11/9/15. R TRACTORS

the remaining property a new town will be wided for, to accommodate the employees

# THE SOIL.

WOODLANDS WHEAT AREA. 2 0/10/15

WOODLANDS WHEAT AREA. 24.1.15

AREA. 24.1.15

LESSONS OF FAILURE.

OF OUR STRUME IMPORTED.

III

OF OUR STRUME IMPORTED.

OF OUR STRUME IMPORTED.

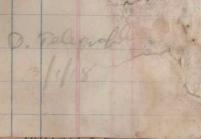
III

OF OUR STRUME IMPORTED.

OF OUR STRUME IMPOR

expected in the initial stages of a scheme of such magnitude.

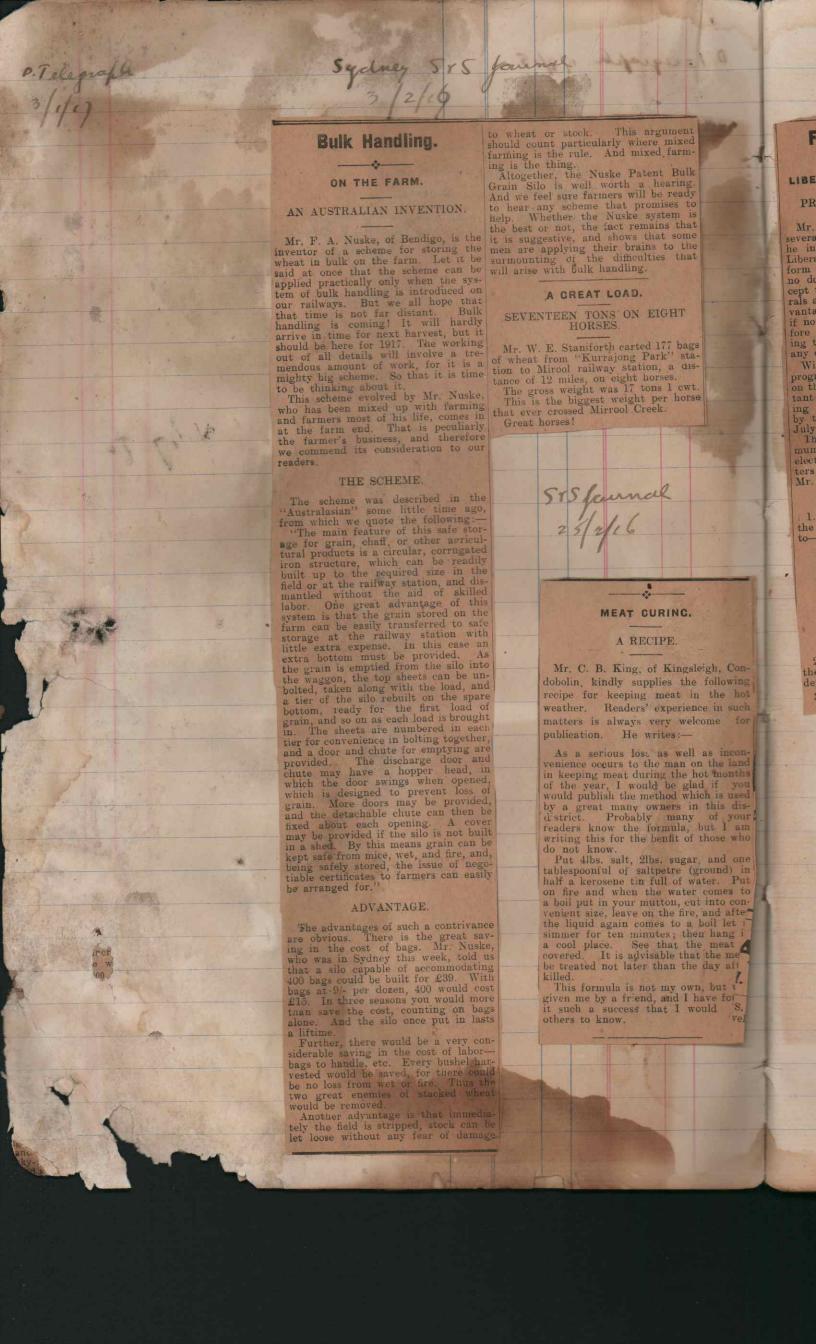
The superintendent is thoroughly satisfied with the caterpillar tractors as a ploughing power. "I look upon the caterpillar," he said, "as an ideal ploughing proposition. It is, of course, new to Australia, and at the beginning we had some trouble in wear and tear and stoppages, but we have now our own turning lathe and drilling machine on the spot, and the engineer can do everything necessary to keep them in going order that his at a mere fraction of the last six or eight weeks they have been going without a hitch, and I am convinced the caterpillar is the coming power for ploughing here on a large scale. The farm plant proper includes three catarpillar tractors; the first machine put life, park having been sent up merely for demonstration purposes, and is to be returned. Each craws two 11-furrow disc ploughs covering down 13th., and averages 2½ hours, the actual cost for fuel and labor since the machines have been in good order working out at 3s 10d per acre. There are also three steam tractors of the 3, and 16 horse-power respectively, but their have not proved so successful as the caterpillars, being too heavy for the soil. On hard ground, however, they quite held



MELBOURNE, Wednesday.—With the coming of the New Year the burden borne by the Imperial Government in regard to the purchase of Australian wheat is likely to heavily chase of Australian wheat is likely to heavily increase owing to the conditions under which the wheat was bought. Of the 3,000,000 tone of wheat which has been sold to Britain, only about one-fifth has been actually removed from the Commonwealth owing to the shortage of shipping space, the remaining four-fifths being still stored here. From December 21 the full cost of storage of this wheat is paid by the imperial authorities, and a very large monthly sum is involved in addition.

A further barden which falls to the share of the imperial Governmen, from the beginning of this year is the Bearing of any loss due to deterioration of the wheat thus stored from damage by weevils or any other similar cause. With regard to the new crop now coming the common of the share of any sulface of the share of the share the second of the share the share of the share of the share the





# Fighting Together.

## LIBERALS AND PROCRESSIVES.

## PROPOSED NEW PLATFORM

Mr. Wade states that as a result of several consultations with Mr. Heory, he intends to submit to the coming Liberal Conference the following platform for the coming elections. He has no doubt that the conference will accept the proposal, and that both Liberals and Progressives will have advantage of being in accord on he if not all—of the important issues before the electors, as well as in avoiding the clashing of their candidates in any electorate.

any electorate.

With few exceptions the Progressive principles alrea programme comprises principles already on the Liberal platform, and the impor-tant matters of social interest, includ-ing liquor reform, will be dealt with by the ensuing Liberal Conference in July.

by the ensuing Inberar Con-July.

This is not to be taken as the maxi-mum of issues to be submitted to the electors, but as an enumeration of mat-ters in respect of which Mr. Wade and Mr. Beeby are at present in accord.

## NATIONAL.

1. Rearrangement of the functions of the Federal and State Governments

(a) Enable the Commonwealth to effectively carry out national functions.

Prevent conflict between Com-monwealth and State industrial laws and awards. Prevent duplication of taxa-tion.

(d) Prevent the overlapping of administration.

2. The making of ample provision for the future of returned soldiers and their

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3. The full encouragement of all in-

dustries which the war has shown to be essential to national existence.

#### STATE.

## PARLIAMENTARY

Modification of party government Adoption of the referendum.

3. Proportional representation.

4. Abolition of life tenure in the Legislative Council.

#### FINANCIAL.

The full encouragement of all forms of private as against State enterprise.

2. Limitation of State enterprise to developmental works and general pub-lic utilities.

3. Restoration of the right of Parliament to initiate and control expenditure of public funds.

4. The complete separation of the finances of all State enterprises from general revenue.

#### ECONOMIC.

1. Maintenance of the living wage and a fair minimum standard of com-fort for all classes.

2. The removal from industrial and social legislation of all provisions which lessen efficiency or restrict output.

The encouragement of payment by

4. The full recognition of, and en-couragement of non-political trade-

unionism.
5. The encouragement of co-operation as against class warfare.

## PRIMARY PRODUCERS.

1. Guaranteeing to primary produc-ers the full product of their labor.

2. The limitation of all interference with commerce and the prices of commodities to the operations of trusts, combines, and trade rings which are detrimental to the gene al public.

3. Decentralisation.

4. Improved facilities for transport, including bulk handling of wheat.

5. Developmental railways to

6. The maintenance of non-political control of the railway system.

7. Maintenance of the living area principle, with a right to the freehold.

8. Extension of advances to settlers.

9. Liberalising of the present condi-tions of residence attached to Crown lands, with such restrictions as are necessary to prevent lands being taken up for speculative purposes.

Mr. Beeby states that he also intends to recommend to the Progressives the adoption of the same fighting platform on the subjects covered.

on the subjects covered.

The platform, he added, so nearly approximated to that of the Progressives as adopted at their last conference that he felt confident of its acceptance. Unity of purpose of the two parties on vital issues was a valuable achievement, which would greatly assist in the consolidation of the anti-Government forces.

### "OBJECTIONABLE PLANKS.

"OBJECTIONABLE PLANKS."

Mr. A. E. Hunt, president of the Farmers and Settlers' Association, referred last night to a report in Tuesday's "Daily Telegraph" of a Liberal meeting at Wagga, at which the abolition of the Upper House and the initiative planks of the Progressive platform were condemned. The following telegram was also read at the meeting from Mr. Wade:—"Without doubt the two objectionable planks will be removed."

Mr. Hunt explained that the only body which had power to make and alter the platform of the Progressive party was the Farmers and Settlers' Association at its annual conference. He had communicated with Mr. Wade in regard to his telegram, and the leader of the Liberal party had assured him that the matter contained in the telegram was his (Mr. Wade's) personal opinion only. He did not make the statement positively.

## WHEAT FOR BRITAIN.

## LOW GRADES ACCEPTED.

Two large cleaning machines for the destruc-tion of weevils are undergoing trial at the Enfield wheat stacks. Some adjustments have been found necessary, and it is expected that they will be in full working order next month.

they will be in full working order next month.

Farmers will regard it as significant that the whole of the Enfield stacks have been taken over by the British Wheat Commission. It was though quiet recently that a great deal of this wheat would have had to be disposed of for stock feeding at from 3s per bushel, as much of the grain was thin and light and weevil infested. Poultry farmers had been promised unlimited supplies from these stocks by Mr. R. S. Drummond, manager of the State Wheat Office. The British Wheat Commissioner, however, upon inspection, decided that it could be cleaned and made acceptable as part of the Imperial Government's purchase at 4s 9d per bushel fo.b. In a word, while it could be used for bread it should not be fed to poultry. Local millers would not look at such grain.

grain.

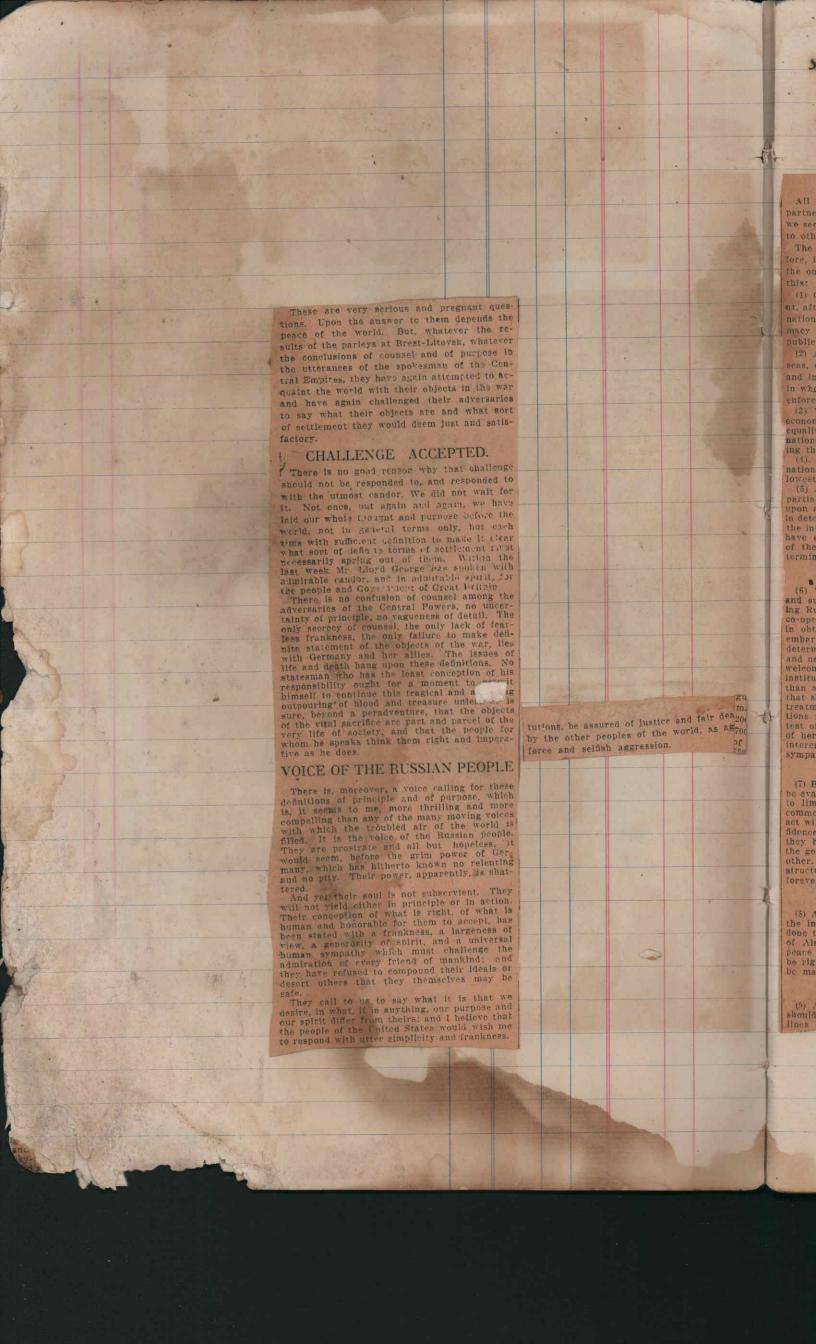
It is noteworthy that in experiments conducted by Professor Lefroy in collaboration with the Department of Agriculture, dirty, repulsive, weevil-riddled wheat has been cleaned after the destruction of the weevils and brough up to a fairly bright acceptable sample. Break made from this has turned out a first-class criticle.

## NEW HARVESTING DEVICE.

WARIALDA.—Great interest is being evinced by farmers in a new device for picking up crops laid flat by wind and rain, in the shape

by farmers in a new device for picking up crops laid flat by wind and rain, in the shape of a false comb for attachment to any stripper, harvester, or reaper thresher. The inventor is Mr. H. E. Lockwood, of Delungra, and the merit of the design lies in a wonderful flexibility and free movement of the prongs forming the comb, and the fact that any prong broken or bent can be replaced by a "spare" in less than a minute.

The invention has had a severe trial on a crop of barley grown by Mr. S. Hutchings, at Delungra. The paddock of barley contained 40 acres, from which a yield of 500 bags was originally expected. On New Year's Day a gale and 3 inches of rain laid it completely flat. When the weather dried an attempt to recover the crop falled; and it was abandoned and an attempt made to burn it, and then stock were allowed into the paddock. Finally, there was no more sign of crop to the casual observer than on a stock route; but plenty burrs, thistles, "bare poles," "fat hen," milk thistle, and other vines and weeds. Spectators who went to see the machine at work passed through the paddock without knowing that there was a crop there at all. Into this tangle of rubbish was gathered up, passing along the carrier into the drums, but the final result was a fine sample of barley, slightly discolored, which would make a good third. Sometimes there was a choking of the point of a prong, and the horses had to be stopped. Mr. Lockwood has recovered 110 bags from half the paddock, and on one afternoon he secured."



Jany 10th 1918

### THE CONDITIONS.

All the peoples of the world are in effect partners in this interest, and for our own part we see very clearly that unless justice be done to others it will not be done to us.

The programme of the world's peace, therefore, is our programme; and that programme, the only possible programme, as we see it, is this:

(1) Open covenants of peace, openly arrived at, after which there shall be no private international understandings of any kind, but diplomacy shall proceed always frankly and in the public view.

public view.

(2) Absolute freedom of navigation upon the seas, outside territorial waters, alike in peace and in war, except as the seas may be closed in whole or in part by international action for enforcement of international covenants.

(3) The removal, so far as possible, of all economic barriers and the establishment of an equality of trade conditions among all the nations consenting to the peace and associating themselves for its maintenance.

(4) Adequate guarantees given and taken that national armaments will be reduced to the lowest point consistent with domestic safety.

(5) A free, open-minded, and absolutely impartial adjustment of all colonial claims, based upon a strict observance of the principle that in determining all such questions of sovereignty the interests of the populations concerned must have equal weight with the equitable claims of the Government whose title is to be determined.

BUSSIAN TERRITORY

#### RUSSIAN TERRITORY.

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(6) The evacuation of all Russian territory and such a settlement of all questions affecting Russia as will secure the best and freest co-operation of the other nations of the world in obtaining for her an unhampered and unemberrassed opportunity for the independent determination of her own political development and national policy and assure her of a sincere welcome into the society of free nations under institutions of her own choosing; and, more than a welcome, assistance also of every kind that she may need and may herself desire. The treatment accorded Russia by her sister nations in the months to come will be the acid test of their good will, of their comprehension of her needs as distinguished from their own interests, and of their intelligent and unselfish sympathy.

BELGIUM'S CASE.

## BELGIUM'S CASE.

(7) Belgium, the whole world will agree, must be evacuated and restored, without any attempt to limit the sovereignty which she enjoys in common with all other free nations. No other act will serve as this will serve to restore confidence among the nations in the laws which they have themselves set and determined for the sovernment of their relations with one another. Without this healing act the whole structure and validity of International law is forever impaired.

#### FRANCE.

(8) All French territory should be freed, and the invaded portions restored, and the wrong done to France by Prussia in 1871 in the matter of Alsace-Lorraine, which has unsettled the peace of the world for nearly fifty years, should be righted, in order that peace may once more be made secure in the interest of all.

## THE BALKAN POWERS.

(3) A readjustment of the frontiers of Italy should be effected along clearly recognisable lines of attornality.

among the nations we wish to see safeguarded and assured, should be accorded the freest opportunity of autonomous development.

(II) Roumania, Servia, and Montenegro should be evacuated; occupied territories restored; Servia accorded free and secure access to the sea; and the relations of the several Balkan States to one another determined by friendly council along historically established lines of allegiance and nationality, and international suarantees of the political and economic independence and territorial integrity of the several Balkan States should be entered into.

(12) The Turkish portions of the present Ottoman Empire should be assured of a secure sovereignty, but the other nationalities which are now under Turkish rule should be assured an undoubted security of life and an absolutely unmolested opportunity of autonomous developments, and the Dardauelles should be permanently opened as a free passage to the ships and commerce of all nations, under international guarantees.

(12) An independent Polish State should be erected which should include the territories inhabited by indisputably Polish populations, which should be assured a free and secure access to the sea, and whose political and economic independence and territorial integrity should be guaranteed by international covenant.

### LEAGUE OF NATIONS.

cather of the purpose of affording must be formed under specific covenants for the purpose of affording mutual guarantees of political independence and territorial integrity to great and small States alike.

In regard to these essential rectifications of wrong and assertions of right we feel curselves to be intimate partners of all the Governments and peoples associated together against the imperialists. We cannot be separated in interest or divided in purpose. We stand together until the end.

For such arrangements and covenants we are willing to fight and to continue to fight until they are achieved; but only because we wish the right to prevail and desire a just and stable peace such as can be secured only by removing the chief provocations to war, which this programme does remove.

only by removing the chief provocations to war, which this programme does remove. We have no jealousy of German greatness, and there is nothing in this programme that impairs it. We grudge her no achievement or distinction of learning or of pacific enterprises such as have made her record very bright and very enviable. We do not wish to injure her or to block in any way her legitimate influence or power. We do not wish to fight her either with arms or with hostile arrangements of trade if she is willing to associate herself with us and the other peace-loving nations of the world in covenants of justice and law and fair dealing. We wish her only to accept a place of equality among the peoples of the world—the new world in which we now live—instead of a place of mastery.

Neither do we presume to suggest to her any alteration or modification of her institutions. But it is necessary, we must frankly say, and necessary as a preliminary to any intelligent dealings with her on our part, that we should know whom her spokesmen speak for when they sreak to us, whether for the Reichstag majority or for the Military party and the men whose creed is Imperial domination. We have spoken now, curtly, in terms too concrete to admit of any further doubt or question.

JUSTICE TO ALL PEOPLES.

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JUSTICE TO ALL PEOPLES.

An evident principle runs through the whole programme I have outlined. It is the principle of justice to all peoples and nationalities, and their right to live on equal terms of liberty and safety with one another, whether they be strong or weak. Unless this principle be made its foundation no part of the struggle of International justice can stand.

The people of the United States could act upon no other principle; and to the vindication of this principle they are ready to devote their lives, their honor, and everything that they possess. The moral climax of this, the culminating and final war for human liberty, has come, and they are ready to put their own strength, their own highest purposes, their own integrity and devotion, to the test.

## STATEMENT APPROVED.

The Washington correspondent of the United Press Agency writes:

"There is enthusiastic approval of President Wilson's statement of war aims. Officials of Congress believe that it will eventually work for a basis of peace. There are differences of apinion as to whether the statement will materially hasten peace. Congressmen consider that its importance lies in the appeals which the mossage makes to Russia."

## SUPPORT FOR WAR AIMS.

Congressmen and Gövernment efficials agree nat the main purpose of President Wilson's essage was to bind Russia to the Allies.

Sunday Times AND THER AIMS The J. In an magistr the Ben cial org Justices' A Nationalist Replies to Mr. dions are Sydney Mail, July 24, 1918. Trethowan's Comments Nationalist Branch Member writes:

In your issue last Sunday Mr. Trethowan states that the National Party was formed to "merge three elements in politics—the Liberals, the Progressive Party, and those members of the Labor Party who hold moderate views and are loyal to the Empire during the present war crisis."

He goes on to refluence-latent p In ot WHEAT SILOS IN peace is Bench, HE Kaleski tip-wagagainst gon (a working model vernmer of which was, last power beek, shown at the Ashave dembly-room in the Deartment of Public Instruction) is built with Sydnche weight so balanced that the floor of a tentron waggon is tipped like Grout a tip-dray—only on a unn much easier cant—with-Befo out any difficulty, by using a screw-jack. The answ wheels are locked with special brakes, and the undercarriage of the wagand that Groi with special brakes, and the undercarriage of the wagon is rigid, apart from the turntable. The front of the undercarriage is attached to the deck of the waggon by two arms, working on a swivel at each side, which fold up when the waggon is movable, and can be adjusted or made for an ordinary "top-decker." At the end is an escape hole, and when the waggon is tipped and the wheat allowed to run out. In active practice the farmer would load his waggon on the farm, either from the bags or from his silo, and then bring it in bulk to the railway siding or elevator. Here a ramp, built high enough to allow wheat to be run into a truck on the adjacent railway line, would contain a weighbridge, and weighed. The wheels, back and front, being locked with a patent of the waggon would be driven up the ramp and on to the waggon would be fipped, the door at the end opened, and the wheat allowed to pour out into the railway truck. AND OTHER LAN to the Empire during the present war crisis."

He goes on to say in a later portion of his interview that his organisation (the Farmers and Settlers) has determined to preserve their "separate entity." As the latter is well known to have been the attitude of the Farmers and Settlers' Association for several years past, the question to most reasonable people is how can the farmers and settlers maintain their "separate entity" and at the same time "blend" with the old Liberals and Laborites in the formation of the National Party. It would appear that Mr. Trethowan and the Farmers and Settlers want to be considered an important, and, in fact, dominant part of the National Party, whilst declining to become part of it.

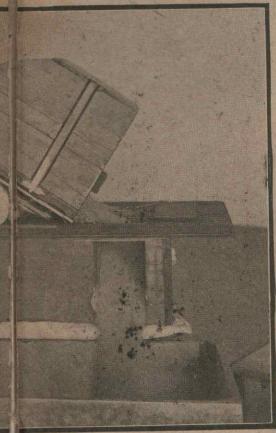
In further proof of the unreasonable-In further proof of the unreasonableness of their attitude, it is only necessary to point out that they have put forward the claim that they, the Farmers
and Settlers' Associations, not necessarily representative of the farming and
rural interests in the electorate, should
be permitted to exclusively select a Progressive candidate, and then call upon
the other sections of the National Party
—the old Liberals and Laborites—to fall
in behind, organise, and return their
candidates. In Mr. Trethowan's further statement that "the National Party has reverted to the old Liberal Party, and that the democratic wing of the Labor Party has been lost sight of," is nothing more no less than a mischievous suggestion which would appear to have been put forward with no other object than to cause friction and trouble.

Further, when some definite steps are taken, as they must be taken by the National Party, to prevent profiteering, in, say, such matters as the purchase of wire netting, galvanised iron, bags, farming implements, etc., and which can only be done by the extension of Government action and control, then it will be found, as has been the case in the past, that it is Mr. Trethowan and his friends that prevent the democratic intentions of the Government carrying these muchneeded matters into effect.

The statement that the old Liberal constitution has been adopted by the National organisation, and that the method of choosing delegates to the recent National Conference was irregular, and with the object of registering the wishes of the central organisation, is just as untruthful as the previous statement.

I, as a member of one of the Nationalist branches, know that the constitu-National and Liberal A DRAUGHT-EQUALISING TIP Invented by Mr. R. Kaleski, it is expected that this waggon will prove a most value of the bulk handling of wheat scheme when it is introduced. It is as been returned the system would be the handling of the wheat on the farm, and its insport to gon is designed to overcome this difficulty. The inventor believes he compute while the attachment for an ordinary waggon can be provided, he as innates, for Association has approved of the waggon. It so this should be a some proof of the waggon o I, as a member of one of the Nationalist branches, know that the constitution adopted by the National Party is different in a number of vital aspects from that which governed the old Liberal movement. Further, I know that the branches throughout the State were asked in each official communication to appoint delegates, and no pressure or suggestion was put forward as to what delegates should be appointed. We were left entirely to our own freedom of choice in this matter, as were all other branches in my district, and from whom I have taken the trouble to inquire. The suggestion that delegates from the Farmers and Settlers should have been invited to National Conference, Mr. Trethowan nows when he put it forward, icable, and would be strongly.

# IN RIVERINA LAND TOPICS.



IG TIP WAGGON.

ALISIN

and its traction in the control of t

a most valuable factor in the efficient and economical work-as been recognised that, for a time at least, a drawback to unsport to the railway élevator or siding. The Kaleski way in put the vehicle (ten-ton capacity) on the market for £70, imates, for £12. We are informed that the Master Carriers' proof of its practical value. The patent rights have been te that it would be to the interest of farmers if it was con-renment,

addition to being used for carrying and tipping wheat in bulk. by utilising another top the waggon can be used for spreading gravel, lime, manure, etc. In this case the working principle is the same, but the back of the top of the waggon can be adjusted to allow different fixed quantities of the material to escape. As the waggon moves along the road or paddock the gravel, or lime, or manure slides out of the tipped top of the waggon, and is spread evenly by the steel-edged bottom of the adjusted back of the waggon. The latter is opened according to the depth it is desired to lay the material. In this respect, as in the unloading of wheat, the model waggon worked splendidly, and in the making of roads especially this waggon should prove an enormous labour-saver. In addition to the equipment for tipping, the waggon includes several other ingenious patents. The wheels are hollow, and are made of half-inch steel, with solid sides. The tyres are seven inches wide, and may be made as wide as desired. The wheels are wider at the box than at the top, to eliminate any danger of bogging in soft ground. An even pull on the back wheels is secured by a chain attached to a block beneath the pole. Two sets of cones or rollers in the box are designed to equalise the draught, and cut out the riction, and Mr. Kaleski claims that they make the running 50 per cent. lighter.

# ONE BIG UNION

## Local Autonomy Question

Mr. P. Adler, secretary of the Blacksmiths' Union, referring to the One Big Union proposal, this morning said:

In the issue of "The Sun." 14/8/"13, Mr. Garden, secretary of the One Big Union (or, to give it the proper title which is now available, "Workers' Industrial Union of Australia"), denied a statement made by me to the effect that the grand council would govern the union. I now have a primted draft of the scheme as adopted at the congress, and issued by the authority of Mr. Garden, and clause 3, dealing with the government, sets out in sub-clause (i) the following:

"Local Autonomy.—Local autonomy shall be exercised only on the following conditions: No section, mixed section, division, department, or council shall take any action involving any portion of the union without having first consulted the supreme governing body of the union, and received the approval thereof. No section, division, or department, or provincial council shall take any action involving any portion of the union without first consulting those affected or likely to be affected and receiving their assent, and the approval of the next higher governing body of the organisation."

Tor reasons best known to himself, Mr. Garden failed to quote the whole sub-clause when attempting to contradict my statement, but after having carefully perused the wording. I can only say that while the clause is ridiculous because of its ambiguity, and conflicts with previous sub-clauses regarding "councils," it leaves me more confirmed in my belief that the Grand Council would be the body to govern actions from whatever centre it was located in, and that the unions have no "local autonomy" provided the council whises to exercise the power given to them. However, the sub-clause quoted is only in keeping with the whole of the constitution as set out, and if we are to judge the future of the organisation by the results already approach of the organisation by the results already will be non-existent, and all human kind is made in the same mould and living under

Miners' Board Accepts

# THE WORLD'S PEACE

# AMERICA'S POLICY DEFINED

DAYS OF CONQUEST GONE

THE PROCESS OF PEACE.

Whether their present leaders believe it not, it is our heartfelt desire and hope th some way may be opened whereby we may privileged to assist the people of Russia attain their utmost hope of liberty and order

Peace.

It will be our wish and purpose that processes of peace when they are begun all the absolutely open, and that they shall inveated permit henceforth no secret understand of any kind.

and permit henceforth no secret understand of any kind.

The day of conquest and aggrandisen is gone by: so is also the day of se covenants entered into in the interest particular Governments and likely at spunlooked-for moment to upset the peacesthe world.

It is this happy fact, now clear to view of every public man whose thou condonestill linger in an age that is and gone, which makes it possible every nation whose purposes are consist with justice and the peace of the worl at avow now or at any other time the objoint has in view.

We have entered this war because view has in view.

We have entered this war because view has to the quick and made the life of us own people impossible unless they is corrected and the world secured once stall against their recurrence.

What we demand in this war, therefor sinothing peculiar to ourselves. It is that he world be made fit and safe to live in; all particularly that it be made safe for empeace-loving nation which, like our own, with live its own life, determine its own if

WASHINGTON, Wednesday President Wilson to-day delivered the followmessage to Congress:-

Once more, as repeatedly before, the spokesmen of the Central Empires have indicated their desire to discuss the objects of the war and the possible basis of a general peace. Parleys have been in progress at Brest-Litovsk between representatives of the Central Powers, between representatives of the Central Powers, to which the attention of all the belligerents has been invited for the purpose of ascertaining whether it may be possible to extend those patters into a general conference with regard to terms of peace and settlement.

The Russian representatives presented not only a perfectly definite statement of the principles upon which they would be willing to conclude peace, but also an equally definite are

clude peace, but also an equally definite pro-tramme of the concrett application of those principles. The representatives of the Gentral

Principles. The representatives of the Gentral Powers, on their part, presented an outline of settlement which, if much less definite, seems susceptible of liberal interpretation until their specific programme of practical terms is added. That programme proposed no concessions at tall, either to the sovereignty of Russla or the preference of the populations with whose fortunes it dealt, but means in a word that the functions of the populations with whose for-tunes it dealt, but means, in a word, that the Central Empires were to keep every foot of territory their armed forces had occupied— every province, every city, every point of vantage—as a permanent addition to their ter-ritories and their power.

## PRINCIPLES OF SETTLEMENT.

It is a reasonable conjecture that the central It is a reasonable conjecture that the central principles of settlement which they at first susgested originated with the more liberal statesmen of Germany and Austria, the men who have begun to feel the forces of their own reople's thought and purpose, while the concrete terms of actual settlement came from the military leaders, who have no thought but to keep what they have got. The negotiations have been broken off. The Russian representatives were sincere and in earnest. They cannot entertain such proposals of conquest and domination. and domination.

The whole incident is full of significance. It is also full of perplexity. With whom are the Russian representatives dealing? For whom are the representatives of the Central Empires speaking? Are they speaking for the majorities of their respective Parliaments, for the minority parties, or the Imperialistic minority, which has so far dominated their whole policy and controlled the affairs of Turkey and of the Balkan States, which have felt obliged to become their associates in this war?

### WHO SPEAKS FOR GERMANY!

The Russian representatives have insisted, very justly, very wisely, and in the true spirit of modern democracy, that the conferences they have been holding with the Teutonic and Turkish statesmen should be held within open, not ish statesmen should be held within open, not closed, doors, and all the world has been the audience, as was desired. To whom have we been listening? To those who speak the spirit and intention of the resolutions of the German Reichstag of July 9 last, the spirit and intention of the Liberal leaders and parties of German to those who resist and defy that and intention, and insist upon conquest subjugation? Or are we listening, in fact, with upreconciled, and in onen and hope-central ctions?

Ogg's Forecast.

A REVOLUTIONARY CHANGE

(By "Gossip.")

John Cumming Ogg has given up the sun-spot theory. The maximum of sunspots does not mean the maximum of storms, floods, famines, robberies, wars, rebellions and delusions. And there were (and are) people who swore by the sun-spot theory. And J. C. O. has given it up, because it misled him. Poor old sun-spot theory. And now the forecasts are going to be quite correct. J. C. O. says, in a long and involuted series of "Seasonal Remarks":—

"It might be as well to now inform my many patrons that the Sun-spot theory has been entirely discarded, and this latest discovery fully inculcated in the framing of the detailed forecasts contained in this issue, covering the probable weather for the period dating from 24th January to 7th Aug-

Good-bye Sun-spots! But he is right about January to February. He says ("Seasonal Remarks") that the first month of 1919 is the precursor of an elemental upheaval in February," and it has started that way in Queensland. The eastern part of Australia is to receive "substantial relier" between January and April, and—we need it. Then he goes on to tell what is going to happen up till 1922. If he turns out to be right, we'll say he's in league with the devil.

Let me quote his opinion about wea-

Let me quote his opinion about weather forecasting. He says ("Seasona Remarks")

"And because of these conflictions says ("Seasonal

ther forecasting. He says ("Seasonal Remarks")

"And because of these conflicting anomalies most folk are too prone to exclaim that the cycle theories are exploded long ago. So is the system of forecasting the weather for only half a day in advance by means of the daily synoptic chart exploded for that matter of fact. At times the inaccuracy of the forecasts issued by the Federal Weather Bureau amounts to 85 percent, while on other occasions this is exceeded by a further 10 per cent.—

a shocking record indeed.

"Rather than declare either is exploded, I would prefer viewing it that it lies wholly with the competency of the interpreter to investigate deeper into data, and in the right direction."

That's up against somebody what? We're going to have a good deal of rain and flood, hail and tornadoes this month, and we can stand it all. The price of the Forecast for six months is 1/1, post free, from this office.

THE WHEAT POOL.

PROBABLE 4/2 NET TO FARMERS.

In referring to the operations of the State Wheat Board the Minister for Agriculture (Mr. W. C. Grahame) states that there is every prospect of a net return to the farmer on the 1915-16 crop of 4s 2d clear of all expenses. This portion of the department's work has been carried out by a separate branch, which it was necessary to inaugurate to deal with the enormous business which resulted from the operations of the pool. Approximately, \$0,000,000 bushels were delivered to the pool, and so far 15,600,000 bushels have been shipped away and a similar quantity used locally, leaving approximately half the crop in hand at the end of the year. This, however, has already been sold to the British Government, and will be shipped early during the coming year in vessels provided by the Imperial authorities.

authorities.

The financial operations of the State Wheat Office have been on a gigantic scale; the cash receipts during the year totalling close upon £6,000,000, while shipments which had been made, but which have not been drawn for, amount to another £2,000,000. The shipments not drawn for will be realised in London and set off against the advance made by the Imperial Government earlier in the year. The net indebtedness of the pool to the banks and Imperial Government, in espect of advances, made to enable paymants to be made to farmers, amounts to £2,000,000. The amount paid to the farmers at the rate of 3s payments a sum of £10,000,000.

# WAR MADE UPON PEST Bill

## MOUSE-KILLING METHODS ARE DESCRIBED BY EXPERT

## GAS SLAYS ITS MILLIONS

How in two months 36,000,000 mice were destroyed under his direction is told by Mr Ft G. England, agricultural

were destroyed under his direction is told by Mr R G. England, agricultural chemist, attached to the firm of Messrs Cuming, Smith and Company Proprietary-Limited, who organised a campaign of mouse destruction on behalf of the Victorian Wheat Commission.

"It was in February last that I was invited to a conference of advisory agents to the Wheat Commission, held for the purpose of discussing measures to cope with the mouse plague," said Mr England when seen today. "The conference decided to try the experiment of fumigating the wheat stacks with bisulphide of carbon, which had been found successful in all parts of Australia in destroying rabbits. With this method the great thing was to make the stacks air-tight. I conducted trials at Minyip, and it soon became apparent that the scheme was impracticable. When applied to the mice the gas was deadly, but the difficulty was to confine the fumes sufficiently within the stack. It was found, too, that the mice could not be driven out of the stacks as we had hoped.

THE DINKUM MIDNIGHT OIR

mice could not be driven out of the stacks as we had hoped.

THE DINKUM MIDNIGHT OID

"I stayed up several nights until midnight studying the habits of the mice, and endeavoring to evolve another scheme for their destruction. For a time I tried the idea of funigating bundles of old bags and pieces of hessian, about which the mice in the railway yards congregate, but this scheme, too, was only a partial success. I also fumigated sheets of iron and pieces of boards under which the mice crawled, and by stuffing up the spaces between these sheets or boards and the ground we succeeded in killing many hundreds of mice. But they were so numerous that it soon became evident that to cope successfully with them it would be necessary to kill them, not by hundreds, but by tons.

"One night when walking around the stacks of wheat near the railway lines, the sleepers and the track being carpeted with mice, I found that the animals could be driven ahead between the rails for a fairly long distance before they would scatter in all directions, despite the fact that they were so numerous that walking between the rails, it was difficult to avoid treading on them. It was through observing this that I conceived the idea of the system of double-fencing stacks from which we have obtained such remarkable results.

SYSTEM DESCRIBED

"The system which I have patented"

emarkable results.

SYSTEM DESCRIBED

"The system which I have patented at this. Two parallel fences formed of theets of corrugated iron laid on edge are erected, thus constructing a race bound the stack. The space between the fences forms an effective mouserap. This is because the wooden supports which hold up the fences are in each case on the outside. On the outside of the fences old bags are tacked, and by means of these the mice, in their eagerness to get at the wheat tack climb up the outside of the ence and into the race. Once in the ence they are trapped, for although it is easy for them to climb up the outside with the aid of the old bags of these eff timber which we so thought-ully provide for them, it is altogether different matter when they endeavor to scale the corrugated iron fence from the inside without such aids.

"It was once popularly supposed by the farmers that the mice could not ossibly be imprisoned by such ingrificant-looking fences; but the odents do not really possess the acroatic powers with which they are redited. The fence is three feet hiver and I was told that there weap this mouse born that could fact, when eight has a matter of fact, when eight has a matter over the top suspended a few inches over the

THE PYT THAT at each of the four corners of a stack a pit, about 2ft. in diameter with sheets of galvanise with the sides of kerosene in the race converge and the rit, and when tens of the are imprisoned the area. FRIGHTFULNESS MET WITH FRIGHTFULNESS



wheat stacks have to come control water and the chances of luring into the race are then greater advantage of this system is that leanses the stacks by preventing mice dying among wheat, which is e used in the making of food for an consumption. Also that dead can be taken away and disposed which jould not be done if poison it were used, as the task of colmic rodents would be a gigan-

"When the Victorian Wheat Commission a decided to try my scheme the co-operation of the Vermin Destruction Department was sought. Under my control inspectors from the department of to work at over 100 stations toward the end of May, and in six weeks we captured 600 tons of the rodents—roughly 36,000,000 mice. It has been ascertained that a kerosene tin will hold so wet mice, swollen with water, or 1100 dry mice which have been gassed. This knowledge enables us to make our calculations regarding the numbers destreyed."

trap the mice. The heap in fence erected around a wi

## BULK HANDLING.

#### RUSHING THE SCHEME.

#### DIFFICULT TENDERING CONDITIONS.

The inauguration of bulk handling of wheat, which has been dangled before farmers by various political parties for a decade or more, has reached the stage that the Government has called for tenders for the complete erection and installation, including all machinery, of a bulk-handling system for wheat, of a terminal elevator of a capacity of 3,000,000 bushels at Sydney, another of 800,000 bushels' capacity of Newcastle, and country elevators at selected stations having a total capacity of not less than 12,000,000 bushels.

It has been frequently stated that the cost of this installation will amount to something in the vicinity of \$2,000,000. The Government, having obtained legislative authority to proceed with this work, seems bent upon Josing no further time.

Tenders are only invited from Australian contractors, but they must be on hand by February 12. This is an extremely short notice for getting out the necessary estimates, and prospective tenderers claim that sufficient time is not being allowed for the preparation of bona fide tenders. Such conditions, it is complained, tend to choke off competition, and while not intentionally playing finto the hands of anyone who may have all the information at his fingers' end, certainly give to anyone so advantaged a big pull over other tenderers. One possible tenderer has not yet been able to see the plans and specifications, as apparently the only copy was otherwise in use.

Complaint is made that the required deposit of 15000 with each tender is very substantial, while the f100,000 guarantee of good faith is one that probably few firms could arrange at short notice. Added to this, it is a condition that "payment will be made in Treasury Bills at current rates." Arrangements have therefore to be made not only to raise a sum of 105,000 in cash, but to dispose of Treasury Jils, as these may be received by way of orgress payments.

It is asked, therefore, does the rush in calling in tenders, under the extraordinary conditions imposed, give the State a fair chance of ma

#### SOUTH AFRICA'S GREETINGS.

MELEOURNE, Friday .- The Governor-Ge ral of South Africa has forwarded the follow-ing reply to the Prime Minister's New Year greetings to the Dominions:—
"I am requested to convey the thanks of the

"I am requested to convey the thanks of the Government of the Union of South Africa to the Government and people of the Commonwealth for their kind greetings which are heartily reciprocated."

## FINE FATTENING FEED.

"Rape is unrivalled as a pasture for sheep in autmn, where it can be suc-cessfully grown. As a fattening feed cessfully grown. As a fattening feed in the field it is without a rival in point of cheapness or effectiveness. The vesting in a most effective manner, and with but little cost to the owner; and the manure from it is distributed over the field which produced the crop, and in a form which is readily available for

the plants of the succeeding crops.
"While rape, thus grown and fed, does not add fertility to the soil, unless in the plant food it brings up from the subsoil, it does not detract from the fertility when the sheep which eat is off are enclosed upon it. When rape can be successfully gravu as a pasture,

## FINANCIAL.

# THE STATE ACCOUNTS FOR THE PAST HALF-YEAR.

The New South Wales revenue would certainly have expanded considerably in the past tainly have expanded considerably in the past six months but for the strike, which in the two months of August and September caused a shrinkage of a great deal more than the decrease of £534,000 then indicated. But for the strike there would have been a substantial increase. As it is, the railways on the six with show an increase in receipts of £20,599, hat increase would probably have been ds of £300,000 if the strike had not occased, for the charges had been considerably and to. The tramway revenue has felt the d to. The tramway revenue has felt the te longer, and is still nearly £125,000 to the on the half-year. Beyond that, there has

#### PAYS TO ROLL WHEAT.

In view of the fact that the Ne-braska experiment station has found that rolling wheat increases the yield over five bushels an acre when roots are exposed through surface crack-ing farmers are considering this a profitable practice this spring. The experiment station has found that harrowing after rolling was not as good as rolling alone and that rolling alone may profitably be done after the frost is out.

The country agricultural agents have found but very little difference in yield where spring rains have been regular and timely enough to pack the soil and prevent checking. Where the ground is dry and the surface left checked and no timely rains have come to pack the soil, however, the usual increase in yield has followed from rolling. The agreements rolling. The agronomists caution against rolling ground when it is wet. If the soil is dry, rolling aids in forming a surface mulch and does not compact the surface.—American.

## NEW MACHINE FOR SOWING.

A demonstration of sowing wheat by at is called a "tillerer" was given Nottingham, in England, recently. The machine is designed as an improvement on the ordinary seed rill, th a view to assisting wheat plants had more stems above ground and roots beneath, and therefore to oduce heavier crops. In front of e seed outlers are small moulders and make small furrows. The seed dropped into the bottom of these at wider intervals than usual, re soil drops into the furrows he seed.

the rows of plants can be set of forks takes the place of the seed coulters, and the machine works like a horse-hoe, the forks scattering the soil into the furrows. Later on another set of forks is used, until the ground is levelled and the furrows the ground is levelled and the furrows filled. Finally, the moulders are placed in position again; and working half way between the rows, they earth up the plants in little ridges, one or two inches higher than the old level of the ground, and allow them ample face for artificially developed roots have or four inches above the original seed bed. seed bed.

this cost was ine of horse feed, and
intendent estimates
the figures, with a
the actual cost of
ng, seed, and ferightly over 11s per
s rent, supervision,
have, of course, to
te also for the interest, and depreciation, have, of course, to be added, and allowance made also for the cost of harvesting, so that a two-bag average, roughly speaking, may be regarded as essential to cover expenses. There have been items of expense this year, too, which might have been avoided, and which are evidence of slackness on the part of someone. For instance, a dozen teams were recently seen in Tullamore carting back to the railway seed wheat which had been over-supplied to the farm. Double freight and cartage has been paid on this wheat, an expense that might have been avoided with ordinary care. Chaff bags by the ton have also, it is said, been sent to the area and carted back again, and there are now, in a great stack on the farm, about 150 bales of wheat sacks, to talling some 45,000 bags, only about one-sixth of which can be filled with the realisation of the most sanguine expectations. These bags, ordered when an average crop of four bags to the acre was confidently expected, appear to have arrived before any intimation was received at the farm that they were about to be sent. Yet the department in Sydney—and everyone else as a matter of fact—knew a month ago that the crops were failing. This is the sort of thing that should not have been allowed to happen, and which has piled up expense at a time when economy was most necessary.

For harvesting operations eight Massey-Har-

pense at a time when economy was most necessary.

For harvesting operations eight Massey-Harris binders, four 6it, and four 8ft, cut, are now being built on the ground, and 22 5ft. Sunshine stripper harvesters are there all ready for work. These, with a few odds and ends such as fire fighters, harrows, etc., complete the plant on the area, the value being probably in the neighborhood of 115,000. This machinery is not, as has been stated, lying about all over the area, rotting in the weather. An immense shed, 100ft. long by 60ft, wide, covers the drills, ploughs, etc., not now in use, and another is in course of construction to receive the binders and harvesters when their work is done. Each of these sheds cost 1200, even with from obtained at the contract rate before the rise. The disposal of these will form a problem to be met when the area comes to be thrown open for selection, but they had to be built.

To minimise the loss accretion on the receive the reserved.

lem to be met when the area comes to be thrown open for selection, but they had to be built.

To minimise the loss accruing on the year's operations, the superintendent, when he saw the crops burning off so rapidly last month, recommended the purchase of some store sheep, in order to turn the wilted wheat into mutton. As a result of his recommendation there are now some 3000 sheep on the place, and after the binders have "patched out" for hay the crops, over an area of about 3600 acres, which will not pay to run the harvesters over, the sheep will be turned on to these. It is hoped to fatten them by January and turn them into a tidy profit which will reduce the debit balance to that extent. In the effort to induce efficiency and economy, the present farm management has introduced a system under which the outdoor work is done by gangs of ten men each, one of whom is appointed working foreman at an increased wage of 1s per day in recognition of the responsibility cast upon him. This system has worked well, as the cost of the work shows, for although good wages are paid for only eight hours' work per day the cost of the various operations has been kept within the recognized limit. This is due, of course, to the large area cultivated and the labor-saving machinery in use. For instance, the ploughing with the caterpillar tractors cost 3s 10d per acre, as against 3s, which was the lowest at which it could be done by horse traction during the past winter. The comparison may perhaps suffer when the cost of cutting and stripping is fallied up, for with this work each man has his team of horses. In any case it is thoroughly recognised that the system could not be applied on a small area. There are just about 100 men employed on the area, and the looking after of the affairs of these men keeps busy—sometimes to the border of perplexity—an office staff of four. Early in the year there were 400 men on the area. Everything on the area is carried out according to a system. Perhaps there is a little too much red tape, but this

tion.

But while admitting the efficiency and capability of the management, one cannot get away from the fact that the year's operations bear the brand of failure. This, however, does not prove the scheme itself to have failed. Rather the contrar. The experience of this year points to the assumption that under more lavorable conditions—either natural or induced by better cultivation—the crops would have

## A FAIRFIELD EXPERIENCE.

"Old Hand from the Bush," Fairfield, writes as follows in reference to the feeding value of Old Man saltbush:—
Some years ago I received a parcel of seeds of Old Man saltbush from the Lower Macquarie River, which I scattered about my garden, just scratching the surface with a rake. Nearly all the seed sprang up (the fowls destroying a lot), and I have about one dozen shrubs of it left, on which I have been feeding from 20 to 30 ducks since September last. The ducks eat the saltbush greedily, and require very little grain. Some years ago my father turned a stallion, scarcely able to walk, into a dried-up paddock with plenty of Old Man saltbush in it, and in six weeks time the stallion was very fat. Saltbush should be more generally cultivated.

## AUSTRALIAN SALT-BUSH.

ITS PASTORAL VALUE.

(BY.,F. TURNER, F.L.S.)

Since I described, as to their pastoral value, thirty-seven of the best species of Australian salt-bush, under instructions from the Govern-ment of New South Wales, and widely dis-tributed seeds of these important plants in the hotter and drier parts of the globe, stockthe hotter and drier parts of the globe, stock-owners in those countries have been greatly interested in this vegetation, and regard it as valuable auxiliary feed for stock. Many of my original figures and all of my original descriptions of these valuable pasture plants have been republished in America and other countries for the information of those settled upon the land. In recently issued publica-tions in the United States prominence is given to the feeding value of Australian salt-bushes to the feeding value of Australian salt-bushes and to American stockowners' appreciation American stockowners' appreciation The "American Sheepbreeder," inter s: "Australian salt-bush will turn of them. alia, says: out to be a great blessing to American farmers, and particularly sheep-raisers. It seems to thrive anywhere. . . We have it on our place in California. Stock are crazy for it. It isn't half so woody as sweet clover, and it grows thick in clumps. It seems to stand the hottest kind of weather, and . . thrives on light soils with little or no rain. The college folk say it is stronger in protein than alfalfa (lucerne)."

As the economic importance of saltbush is not generally known to the man on the land in mers, and particularly sheep-raisers. It seems

not generally known to the man on the land in Australia, I may be allowed to give a few particulars regarding this valuable indigenous vegetation. Chemical analyses of Australian salt-bushes made in this country and in Cali-fornia agree in assigning to them a high feed-ing value. Though different species vary confornia agree in assigning to them a high feeding value. Though different species vary considerably, it may be generally stated that the
best kinds, when freshly cut, contain about
75 per cent. of water, 4 to 6 per cent. of fats,
about 2.3 per cent. of albuminoids, 10 per cent.
of digestible carbohydrates, 3 to 4 per cent. of
woody fibre, with a very high percentage of
ash, of which half is common sait, ranging
from 5 to 10. In comparison with other
forage plants, salt-bushes are richer than
barley, maize, oats, or sorghum fodder, weight

from 5 to 10. In comparison with other forage plants, salt-bushes are richer than barley, maize, oats, or sorghum fodder, weight for weight, and are nearly equal to lucerne and the best meadow hay. Their nutritive ratio is 1 to 4, proving that they are a rich food, as they contain one part of flesh-forming substances to four of heat-giving materials, and thus furnish a well-balanced ration for fattening pasture animals.

Saltbushes, in addition to being valuable as feed for stock, are the most important indigenous vegetation to plant as fire-breaks for the protection of forests, homesteads, and crops. Several years ago I noted that where a fair percentage of saltbush grew in the pastures on the droughty inlands grass fires were not nearly as disastrous as they were on country where the saltbush had been eaten out. Moreover, the grasses and other pasture herbage recuperated more quickly after a fire where the saltbush was growing fairly plentifully, so from this circumstance alone it would be wise policy to conserve it systematically, and disseminate the seeds on those areas from which it has disappeared.

## MOLASSES FOR STOCK

MIX WITH SALTS

'Drought'' writes from the I

West:—

"Would you kindly let me through the columns of your jor about how much molasses give best results when using it with pool salt for sheep and cattle? I when giving salt, just in the ord way out in the paddock. I have using crude Epsom Salts at ablbs. to 100 lbs. Liverpool Salt. I you advise using Epsom Salts as as molasses with the Liverpool I just use the ordinary troughs. feed is very dry."

Mr. S. T. D. Symons, M.R.C. Chief Inspector of Stock, says the ordinary way molasses is feed to sheep and stock with good results by many stockownee the following proportions:—Molass lbs, Epsom Salts 10 lbs, and (Liverpool) 10 lbs."

The Wild Oat belongs to the family of grasses called "Avence" which includes some 50 varieties of cultivated oats, but as to what country it originally came from I'm unable to say, except that it is known in every land where cerals are grown, and at all times has been a menace and source of trouble to farmers. The, about 50 varities of cultivated oats are sprung chiefly from black oats and "Avena Fatua" is the specious now demanding our attention. It matures quickly and usually sheds the bulk of its seed before the sown crop of wheat or grain is harvested, thus re sowing its own crop for the following and often for succeeding years. Once it gets thoroughly established in a cultivation paddock its complete eradication is a matter of hard work for many years, requires a study of the plants history to effectively cope with it.
The wild oat is covered with a thick velvety oily coat, which if examined under a glass can be seen very plainly, this coat keeps out any small amount of moisture that would sprout and germinate any other varities of seed at unfavourable times to themselves and thus destroy them.

The two things most essential to its germination are moisture and warmth thus an oat buried say 5 or 6 inches below the surface may not germinate for years even though heavy rains fall, should be suffinot germinate for years even though heavy rains fall, should be sufficient warmth of the sun be lacking at that particular period.

Its twin brother may perhaps be buried an inch below the surface which with the same amount of moisture would naturally receive more sun and probably start, while the third brother lying on the surface may calmly wait for years until it receives just the amount of covering moisture and warmth necessary to penetrate his oily coat. and warmth necessary to penetrate his oily coat.
Once oats are firmly established in your paddocks, your two best friends are sheep and cultivation, in fact, I doubt if in this country any man can be a successful farmer without sheep, as they prevent oats from seeding, and being cud chewing animals destroy all seeds when eaten, even if ripe, while horses will often pass them through the stomach without injuring the oat.

By cultivation I do not mean fallow alone. It is now becoming an accepted fact that fallow alone in many instances is ant to have the oats too deeply and as previously stated perhaps preis apt to bury the oats too deeply and as previously stated perhaps protect some of them for years, for this reason many farmers are now adopting the method of cultivating or scarifying their land as soon after harvest as possible, thus lightly covering the oats and other weeds and inducing them as far as possible to germinate with the first rains. Later on the land is fallowed and all growing oats are turned down. Some may say this entails too much work, but the first cultivation is done with an impliment which works up to 12 or 18 acres in a day, and besides covering the oats it opens up the soil permitting it to shooth early rains and thus making your fallowing again, and it to absorb early rains and thus making your fallowing easier and more beneficial to your self. Some competent authorities say that under beneficial to your self. favourable circumstances wild oats will remain in the ground from one up to ten years, and I am inclined to think this is correct.

I know of one instance on the road from Barellan to Leeton. In 1907 or 1908 this road was widened and some two shains were taken off an old cultivation peddock for this purpose and so far as my recollection goes no oats appeared on this road till 1916 which you will recollect was a very wet, warm year and most favourable to wild oats germinating. In this years they grew in profusion along the line of old cultivation on the road, showing just what land had comprised the old paddock.

Prior to that the road was included in a sheep paddock so that any oats
which may have grown between 1907/8 and 1916 were eaten off by the stock. Under some circumstances they grew to a great height, last year in our district a farmer sowed wheat on a fallow paddock which was very oaty, he had fallowed deeply and turned the ungerminated oato down early the provided year, and when equipped his fallow it appeared to be particular. previous year, and when sowing his fallow it appeared to be perfection, a heavy early storm fell just prior to seeding which with the Autumorun no doubt had an effect on the oats buried far down in the ground but they being deeply covered it took some time to stir them.
Alittle later the farmer sowed his wheat, more rain followed, and in a few days the wheat came up, just then a swarm of grass hoppers happened along eating the wheat down just as the oats appeared, the latter quickly overcame the wheat and by harvest time stood in places to a height of from 5 to 6 feet, scarcely a head of wheat was discernable in the whole paddock of some 60 to 70 acres.

Now had this farmer the previous year lightly cultivated his paddock to germinate those oats prior to turning them down deeply in the ground he would probably have had a moderately clean crop. But even fallow would probably have had a moderately clean crop. and a previous light cultivation may not start all your oats.

Some will come up during the Winter and Spring, sheep can deal with these if turned on the ground. Those that trouble you most are the ones that do not germinate the first Winter and Spring after fallowing, but appear in your paddock the following year just as you are about to sow. For this reason if early rains fall on your fallow, it should be harrowed at once to conserve the moisture and thus start as many oats as possible These should be carefully worked down with a before seeding time. These should disc or other impliment before you sow. Observant officers in our agricultural department say of I think truly too, that the reason why our country is becoming so oaty is because of our combined harvesters etc, blowing the chaff out over our paddocks. With the chaff most of the oats being light are blown out and evenly distributed to the coats being light are blown out and evenly distributed. In countries particularly Canada and The tributed to appear later on. United States, machines such as ours are not used, nearly all their harvesting being done with the reaper and binder and the straw mostly carted off the ground. As a proof of spreading oats by machinery on Mr Barbers farm on Binya, there is a 40 acre section, which was cleared in 1870 some 52 years ago. It was used as a hay paddock by the station and as agricultural machinery progressed, was probably first harvested with the reap hook and scythe, later on by an old mower and back delivery and so on tall the reaper and binder came into use, the remains of the old impliments I mention are still in existence, anyway, it was never old impliments I mention are still in existence, anyway, it was never harvested by modern harvesters and to-day it is a cleaner paddock then many of those in this district that were not cleared till so late as 1912 only 10 years ago. Wild oats in N. S. W. are worst in the North West but it is roughly estimated that one third of N. S. W. is affected, I do not mean that we are losing one third of our crop by oats but I say this that on this one third if we lose half our crop, and I do not think that is an over estimate to say, we would on the average price of wheat for the last two years lose quite a £1,000,000 yearly. Now just whinkwefwehld we would day if any government deliberately robbed us of £1,000,000per year, we are robbing ourselves and many of us make no effort to stem the tide. I would strongly urge you all to grade your seed taking out all black oats, keep sheep, cultivate your land first and fallow it afterwards, if only a few oats appear in your crop pick them out by hand as they mature quickly, they mostly show up early in your crop of wheat. Where a paddock is only lightly affected 30 or 40 acres per day can be picked by hand, in some instances more.
Our district is to-day ine of the cleanest in the districtut I notice
it becomes dirtier every year, thus reducing the average yield and value
of your land. Apart from cultivation, fallow, clean seed and sheep
the best methods of freng free from wild oats are to see that after you fallow no large clods are left on the surface, these often hold oats and unless melted by heavy rains, the oats which remain in these dry clods do not sprout. Keep as few dry trees in your paddock as possible, I know one paddock with many dry trees in it, the farmer cannot plow very close to these and even though the rest of his crop is moderately clean there is always a fringe of costs round these trees. I rectice they are there is always a frings of oats round these trees, I notice they are yearly increasing away from them, and getting a hold of his paddock. Do not at any time put in half your paddock and leave one half out for fallow, better put it all in, you cannot keep sheep in the half that is left and even though you may make up your mind to constantly work it, you will find that oats will grow and acced in grite of your find that cats will grow and seed in spite of you. If you have a good strong stubble and a good hot burn can be got early, you will kill a large number of oats lying on the surface, this however does not always come off. Referring to seed again the writer after 1919 drought saw a farmer sowing his crop, and having a habit of always looking at what a man is sowing he opened the box and found that 10% of the seed being sown was wald oats. I observed the paddock the following year and noted a large number of oats in the wheat, again last year, I looked and found that so prolific and pugnatious had these oats became that they were then half the crop in two years, they had claimed half his land. he weeke no hetelI asked the farmer why he did not winnow his seed and take as many oats as possible out. I knew he had a good winnower but he said he had not time to do so, but he had time to lose half his crop in two yeras. A grader is very essential to good cleen farming, it will pay for itself in from one to two years in the cracked and small grain you sow which is of no value to you, quite apart from taking your wild oats out. I note with pleasure that in many instances two or three farmers have banded together in keeping graders, this is a step in the right direction. Failing a grader, hand pick the crop you are going to keep for seed, it wont take you long to do so. I noted in our district last year that several farmers cut their wild oats and stacked them for feed, this is very understrable indeed and is only building up further trouble, never use wild oat hay. Apart from that they are not good nutricious feed compared fith other hay. Of cource it is only fair to the wild oat to admit it has some virtues, but its very warmest friend must admit they are very much out weighed by its bad qualities. To the man with early lambs the dirty oaty stubbles after harch rains is a fod send indeed, and to the wild oat being crossed with the stitiveted set we have recently derived the Sunrise oat.

Some say that sheep spread wild oats by carrying them in their wool. This could only happen were oats are allowed to become dead ripe before foods of the worl like it thistle or burn has. If they were in a high ripening crop with a full fleece which is unlikely, they certinally might carry some in their backs. Now these are my impressions of wild oats from personal observations and if wrong to your way of thinking in a any particular I welcome information.

In final conclusion I hight say there is an old saying that a man sows his wild oats he is right, well I can only say it must be a different variety to the one we have under review, because once you sow these you will he many years getting rid of them, your troubles are only starting in

George Gow

Dear Jeff Wouldy in mind hassing this or to Bile Rayment or anyme else who might care to way I am it may gain with your hours hard groupely yours half groupely and