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Masonic Temple.



Progress at Peace Conference Satisfactory

Continued from page 1.)

brought up again at tonight's meeting. The president's call on meeting. The president's call on Baron Makino, head of the Japa-nese delegation, today, had a bearing on this amendment

Responsibility for War--Question of Damages.

Paris, April 9. - The responsibility of the German emperor for the war and the means for bringing him to trial by one of the allied governments, probably Belterms of reparations for war dam-ages, whereby \$5,000,000,000 must hare's ear mustard, common musbe paid within the next two years, tard and false flax are the most and an inter-allied commission as common impurities.

Thus, two of the great obstacles which stood in the path of the rapid attainment of peace have been removed within the last . twenty four hours, and the period of extreme tension over the inaction and the failure to secure tangible results is succeeded by revived confidence over the great advance towards a permanent settlement.

agreement this afternoon on the eareful cleaning. Saar valley. The agreement leaves riet, with the privilege to the Germans of restoring Lens mines and thus relieving the Saar valley of produces weak plants that are less

itch, formerly Hungarian minister of war in the cabinet of Count Michael Karolyi, has committed suicide according to a German government wireless message.



Experienced mothers say Zam-Buk is best for children's injuries and skin troubles, because:

It is herbal-no poisonous mineral coloring. It is antiseptic-prevents cuts and burns taking the

wrong way. It is soothing-ends pain

quickly. It heals every time.

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Seed Grain, Seed Treatment and Seeding

By John Bracken, Professor of Field Husbandry, College of Agri-culture, University of Saskatchewan.

and quality of the crop will depend commended for late seeding. in a large measure upon the character of the grain used,

The characteristics of productive seed of any variety are high quality and high purity. By high quality is meant freedom from damage from frost, bin burning, sprouting, weathering, rust and immaturity, and absence of shrunken and broken kernels. By high purity is meant freedom from weed seeds, disease, other classes of grain and other varieties of grain.

Some Common Defects in Seed.

n seed grain are:

(2) Disease.

(4) Dead grains.

(5) Unsuitable varieties. The weed seeds most often found in wheat, oats and barley are wild gium, had been definitely decided oats, cockle, wild buckwheat, and upon by the council of four. This ball mustard, but in poorly cleaned follows the definite decision on the or uncleaned samples many others ly-

period of thirty years, beginning May, 1821.

Samples of seed wheat containing 2,880 wild oats per bushel, of seed oats containing 13,000 wild oats, and of seed flax containing over 30,000 weed seeds of seven different species per bushel, have been brought to our attention.

From these observations it is that we are about to sow. Some of the impurities mentioned cannot easily be removed from oats or barley or flax, bu practically all can

The smut diseases cause much loss annually to farmers. These handled will in addition remove changed but accords to France fungus plants not only lower the weed seeds, smut balls and yield of crops, but the quality as many of the dead and weakened Lorraine iron industry and to replace the production of the mines place the production of the mines function as seeds) are sown with the grain is shrunken or frosted, destroyed in the Lens mining dist- the seed, the crop is sure to be in- and some of the seed damaged, imfected.

This agreement removes one of withstand spring frosts after the and count out the weed seeds and

which General Jan Christian Smuts test the seed for both percentage be spent in producing the crop. is the head, has returned to Paris and vigor of germination. This is and confirms press reports that particularly advisable after a sea-

The following are the best available varieties for Saskatchewan

WHEAT

Red Fife. - High in quality, long in straw, late in ma-turing, a good yielder. It is suited to the lighter and earlier types of oil, to the drier parts of the provinee, to all regions where fall frosts are not feared, and where

ong straw is desired. Marquis.-High in yality, short straw, early in maturing, non-shattering, good yielder. This variety is likely to give more satisfactory eturns than Red Fife on heavy

not early enough and where the subsequent day. rop seldom lodges.

on account of its low yield it is not worthy of a place in districts where at all or produce only a feeble worthy of a place in districts where Marquis matures.

OATS.

Banner .- High yield, strong kept from drying out. straw, late in maturing, excellent quality-the old standard oat and

Gold Rain.—High yield, strong fection by spores from "smutty" ral times. Allow grain to soak wan in a dry year, while as much straw, medium early, excellent bags or other containers after our hours. Should the tempera as 2 1-2 bushels of wheat and 5

Nearly twenty million bushels of [Daubeney .- Medium to low in seed will be sown this spring on yield, strong straw, early maturand "sprinkled" with it. Saskatchewan farms and the yield ing, excellent quality. Only pe-

O A C No. 21 .- Six rowed, bearded, hulled, very productive, me-dium early. The leading and most oopular sort.

Hannchen .- Two rowed, bear ded, hulled, a "nodding" barley very productive, later than O A C The heaviest yielding two rowed barley. A good variety where long straw is desired and where a few days later in maturing is no Canadian Thorpe .- Two rowed

The most common defects found bearded, hulled, an "ereet" barley very productive, later than OAC 21, stiffer in the straw than Hannchen, and a better-looking grain. (3) Small and shrunken seeds, Suited to heavier and richer soils. resed of weakened vitality.

Spaing Rye—Common.

 F_{LAX}

Saskatchewan.

Premost.—Brown seeds, purple lossoms, productive, medium ear-

WINTER RYE-N.D. No. 959 or

Solo .- A heavy yielding rather

Arthur.- A heavy yielding, me lium early variety. Golden Vine .- A popular small seeded, medium early sort.

THE VALUE OF THE FANNING MILL In a cleaning test recently completed the large plump seed re-moved by hand from a sample of very apparent that all of us should examine very earefully the seed 47 pounds more than the small No. 1 Northern produced 4 bushel shrunken grain the sample contained. The fanning mill could not make so good a separation and the average increase from cleaning The council of four reached an treement this afternoon on the careful element of any seed by over the yield of the shrunken

A good fanning mill properly Small shrunken or weak seed pure, or dead, the use of the fanning mill is essential if the best results are to be obtained.

This agreement removes one of the most difficult obstacles to the conclusion of peace.

Withstand spring flows where the diseased grains in a pound of the chief danger lies in using grain to be sown, and then make

mined by giving a definite number Pioneer.—High in quality, long keep them moist and at the temand weak straw, earlier than Marquis, fair yield. It is a good wheat

From such a test one will gather Prelude.—High in quality, short straw, earlier than Pioneer, bear-tage germination and the relative

growth. Of course the seed under test

40 per cent. solution of formade-inconvenient fall in temperature hyde. One pound (16 ounces) of the water. this solution well stired in forty imperial gallons of water gives the may be put in a pile on the floor immersed for 15 to 20 minutes

Given the right strength of solution, only two other things are essential to kill the spores: (1) the minutes in the second barrel, or by "floating" them off the sur- mains a further 10 minutes. Unface of the liquid-the solution will der no circumstances extend of each seed must be moistened.

posed, and may be used as long as more easy it will be found to main-six rowed barley, 1 3-4 bushels; earlier. the supply lasts.

If the grain is "sprinkled" be used. As the solution is being applied, the grain should be shoveled or turned over and over in or der to insure uniform and thorough moistening of the whole surface of ed up in a pile and covered with hours, when it should be uncovered and spread out thinly to dry.

In treating flax, the sprinkling on land that is in good condition on land that is left unsown heavy or light. one spray is preferred and the after the first of May, and oats seed should be stirred continually and barley after the middle of fallow, breaking or stubble.

May, the lighter the yield is likely (3) The time of seeding operations are similar to those fol-to be. In the dates of seeding her early or late. exception that flax must be raked ing the last three years, April 20 der to prevent the seed "caking"

he commercial quality copper sul phate should be dissolved in fifty mperial gallons of water, by sus- en district varies with: pending it in a bag for a period of "dipping" or "sprinkling" may be practised. The same care should be taken to remove smut balls and to insure the wetting of the whole therefore, the later it may be surface of all seeds. If the seed s''dipped'' it ought not to be left sown and yet avoid frost.

Since the writing of this article and confirms press reports that complete nationalization is a practical Bolshevist ruse.

Since the writing of this article was commenced a sample of "lean and vigor of germination. This is and confirms press reports that complete nationalization is a practical Bolshevist ruse.

The members reported that the factor government was well installed and said that during the showed an obvious disposition in the bin have been suspected. Unsuitable Varieties. — A very showed an obvious disposition in the proportion of the Saskatchewan Department of the National Polynously has come to for a period of three hours after treatment, and then permitted to dry as quickly as possible. If allowed to remain for too long a period the Department of Agriculture she was commenced a sample of "lean down that the defence one-half pound) has come to have been suspected. Unsuitable Varieties. — A very small proportion of the Saskatchewan Department of Agriculture she annual loss in Saskatchewan approximates one quarter of a millustone should be sorned with blustone should be sorned with thustone should be sorned with the time required, to manual loss in Saskatchewan approximates one quarter of a millustone should be sorned with thustone should be sorned to the different conditions that exist in this province, the conditions that exist in this province, the different conditions that exist in this province, the different conditions that the operation of the saskatchewan approximates one quarter of a millustone should be sorn that has been treated with blustone should be sorned to the different conditions that exist in this province, the different conditions that exist in this province with the class of preventable.

Last year the Saskatchewan Department of Agriculture she different conditions that exist in this province that the class or variety de very long before it is sown. In actual practice, treating the day bushel sown placed sixty times these numbers on the land. And yet practically all could have been removed with a fanning mill.

The Germination Test.

It is important that the crop producer know not only the proportion of his seed that will grow,

The Germination of his seed that will grow,

The continuous devery long before it is sown. In actual practice, treating the day before it is needed is the common rule; the longer it is left unsown after being treated, the less vigir-ous the germination. This is practically true if bluestone is used. Every care should be exercised to see that "treated" grain is not reinfected by being handled in smut infected bags.

The continuous development of the resistance of the crop to spring frosts.

The less frost in spring frosts. The less frost in spring a crop will stand the later down. If good seed is used, most cereals will survive after heavy spring frosts, but it has been observed that wheat and rye are rather more resistant to low temperatures than oats or barble.

The continuous development of the crop is should be encouraged before the them with blackleg filtrate.

The use of blackleg remedies is used. The use of blackleg remedies aloss of this kind by vaccinating should be encouraged before the them with blackleg filtrate.

anut infected bags.

Treating grain increases its ley.

(7) The liability of the district. vigor of germination can be deter-Smut Machines .- Many machiof the grains opportunity to grow. nes for the treatment of grain for Farly seeding is

> time consuming. It is only advis- crops. able for the smuts the other treat-

"Pretiminary Treatment should be protected from frost and tity of cold water in a barrel or wheat from 3-4 busels to 3 bushels: ept from drying out.

SEED TREATMENT FOR DISEASE.

SEED TREATMENT FOR DISEASE.

Water until the thermometer regis- 3; winter rye, 1-2 to 1 14; flax, ters 86 F. and not more nor less. from 20 to 50 pounds, and peas, quality—the old standard oat and a general favorite still.

Victory.—High yield, strong straw, late in maturing, excellent quality. A keen rival of Banner.

Gold Rais — High yield strong fortion by great favorite still.

The Formalin treatment when I lise a reliable thermometer. Fill the grain bag three-quarter full with grain and tie it up loosely. As little as 1-2 bushels of wheat with grain and tie it up loosely. In merse bag with grain into this to have given good returns on light water, moving it up and down several properties. quality, yellow color—an excellent treating is prevented. It will also ture sink below 68 F. allow five bushels of oats are sometimes used medium early variety.

aid in the control of flax will.

Formalin is a trade name for a shly in a heated room to avoid the

"Final Treatment-Bring the temperature of water in a second proper strength for treating cereal barrel up to 112 F. Remove bags grains. The seed may either be with grain from the "soak" and "dipped" in this solution, or it transfer to the second barrel. Keep Meanwhile, have water in a third unbroken smut balls must be re- transfer the grain quickly into the moved either by the fanning mill third barrel. Here the grain renot penetrate to the centre of an time stated, or shorten it. Neither unbroken smut ball, hence this pre-caution must be taken to remove of temperatures, or the treatment them-and (2) the entire surface will not be successful. Should the temperature in the third barrel not be left in the solution for more is put in, raise the temperature by katchewan. than four or five minutes before carefully adding hot water from about one gallon per bushel should expired, take out the grain, drain and spread out to dry.

DATES OF SEEDING. Conclusive data on the subject of time of seeding in Saskatcheeach grain. After sprinkling with formalin the grain should be heaped up in a pile and covered with bags or blankets for about three sown as soon after April 10 as the land is fit, and oats and barley in April 25. We have observed that owed in treating wheat with the trials at Saskatoon carried on durover occasionally as it dries in orwheat on fallow and April 30 on or clinging together in lumps and thus causing trouble in the drill.

The Bluestone treatment will wheat on fallow and April 50 on fall plowing. Oats, barley and flax produced the most when sown between April 20 and May 20.

() The number of seeds in a bushel.

Relatively larger quantities should be used (1) on heavy solls. ontrol the covered or stinking Winter Rye on fallow yielded (2) on fields such as the fallow smut of wheat, but is not satisfactors when sown the first few days which contains a good store of tory for the smuts of other crops of September and on fall plowing moisture, (3) in all areas subject to early fall frosts, and (4) when per than on heavy land. Early

eight to twelve hours in a barrel of frosts—the greater the danger the Smaller quantities may be used good motto if the soil, has been water. With bluestone, either earlier the seeding should be done. (1) in dry areas, (2) on light managed in such a way as to have earlier the seeding should be done. (2) The amount of water stored soils, (3) on stubble filds which the moisture, within 1 to 3 or 4 in the soil-the drier the soil the contain but a limited supply of inches from the surface. earlier the crop will mature and, -

in the solution for more than two soil—the more rank the growth, (3) The productiveness of the

growth. Both the percentage and bulk, and of course allowance for to hot winds in late summer—the

Early seeding is desirable (1) A box of moist soil or two layers disease are on the market. They in all areas subject to early fall A box of moist soil or two layers of dampened blotting paper will serve this purpose. It is only necessary to count out a number of cessary to count out a number of soils, on fallowed land, in moist regions, where fall frosts are feared and in those areas where a short straw is preferred.

cessary to count out a number of the same time insure the wetting of the entire surface of each seed. The suitability and durability of the various makes are usually not seldom do damage to the crops. (2) on light warm soils, (3) .. The Hot Water Treatment will fall or spring plowed or stubble control all the smut diseases of ce-fields containing little moisture for all regions where Marquis is germinate on the 4th and each reals, but is very laborious and and (4) with all early maturing

The normal amounts of seed ments will not control, viz., the used on medium soil types in Cenloose smuts of wheat and barley. tral Saskatchewan are for wheat ded, shatters easily, low in yield. This variety may be found satis. The best seeds he is about to use. The best seeds of Botany. Central Experimental 2 to 3 bushels; barley, 1 1-2 to 2 factory in regions north of the will germinate first and develop Farm, Ottawa, the hot water treat- 1.4 bushels; Ginter rye, 3.4 to 1 present wheat growing area, but the most vigorous plants, while the ment for the loose smuts of wheat 1.4 bushels; flax, 25 to 35 pounds,

The amounts used in different Bring the temperature of a quan- parts of the province vary, with tank up to 86 F., pouring in hot oats from 1 to 5; barley from 1 to

RELIGIOUS ARTICLES

Beads, Prayer Books, Crucifixes, Statues, Religious Pietures, framed or unframed, Medals, Scapular Medals or lockets, Gold Crosses and Chains, Catechisms, Candles, First eommunion Candles etc., etc.

GRAVE CROSSES

WESTERN CHURCH FURNITURE SUPPLY CO., LTD. 2227 - 11th Ave. Regina, Sask.

tain the temperature. After 10 minutes in the third barrel have 28 pounds; and peas, 2 1-2 butles. In a dry season at Saskatoon 20 pounds of flax, 1-2 bushel of winter rye, and 1-2 bushel of wheat each produced a larger yield than any thicker seeding, but in a "wet" year when the frost came early in the fall our largest yields of wheat and oats were secured when 2 1-2 bushels and 4 bushels

respectively were used. The amount of seed that should the three or four weeks following be used under any given set of place in the soil where eptimum conditions varies with:

(2) The preparation, whether

(3) The time of seeding, whet (4) The danger of fall frosts.

(5) The proportion of the seed

ment is to be used, five pounds of with peas proved the best time to the seeds are above the normal mination is low, heavier seeding is too shallow seeding.

(1) The probability of early fall should be practised.

If the seed is "dipped" it should sink below 122 F. after the grain soils of northern Alberta and Sas [water, (4) where there is no danger of fall frosts and (5) when the The rates that have given the seeds are small in size but normalthan four or five minutes before being removed and spread out to dry. Formalin does not weaken in strength as is ordinarily sup
larger the volume of water the largest returns in our rates of seeding trails on fallow are: larger the volume of water the water directly on the grain. The largest returns in our rates of seeding trails on fallow are: larger the volume of water the wheat, 1 1-2 bushels; oats, 3 bus.; but thickly seeded ones mature

> DEPTH OF SEEDING. Wheat, oats, barley, rye and and one-half to three inches in depth and flax a little shallower buth the depth should vary with (1) The depth at which firm, noist soil is found.

(2) The kind of soil (3) The time of seeding.

In order to grow, seeds must have heat, air and moisture. The amounts of all these can be ob-(1) The kind of soil, whether tained is generally the best depth to sow. In this country, moisture is the most important of these fac tors and, therefore, generally controls the depth to which seeds should be placed.

Very often the soil is not pro perly prepared and as a result the surface is dry to a considerable depth. Under these conditions the best depth to sow cannot be fore told. In loose soil the seed should be sown deeper than in firm soil On fall or spring plowed land it should be sown deeper than on falseeding should generally not be size and, therefore, relatively few done as deeply as later seeding The best time to sow in any givper bushel. If the percentage gerOn stubble fields a common fault

"Sow into the moisture" is a

Blackleg Remedies

Bolshevism in Austria

The mission to Hungary, of hieb General Jan Christian Smuts to Hungary, and the mission to Hungary and the more rank the growth, the longer the crop will take to as the facilities at our disposal permit, the longer the crop will take to as the facilities at our disposal permit, the longer the crop will take to ripen, hence the earlier it should be neither greater nor less than that given above. The seed should not be regarded to the case of blackleg for which no the take to ripen, hence the earlier it should be neither greater nor less than that given above. The seed should not be sown.

(4) The type of soil—a heavy soil is a cold soil, a light soil a warm one. Crops ripen later on heavy soils and, therefore, need to careful estimates furnished by and vigor of gremmination. This is the Department of Agriculture the culture sold vaccine in the pellet

Blackleg causes an annual loss of animals in the herd begin to die.

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