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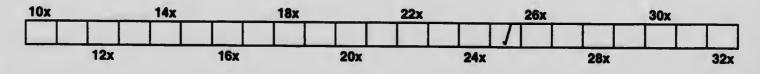
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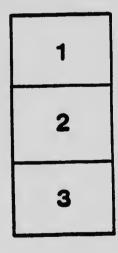
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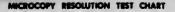
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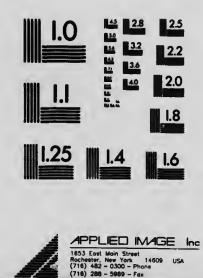
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DEPARTMENT OF TRADE AND COMMERCE

## **REPRINT OF ARTICLES**

DEALING WITH

# RUSSIAN TRADE

## PRELIMINARY REPORT

By MR. C. F. JUST

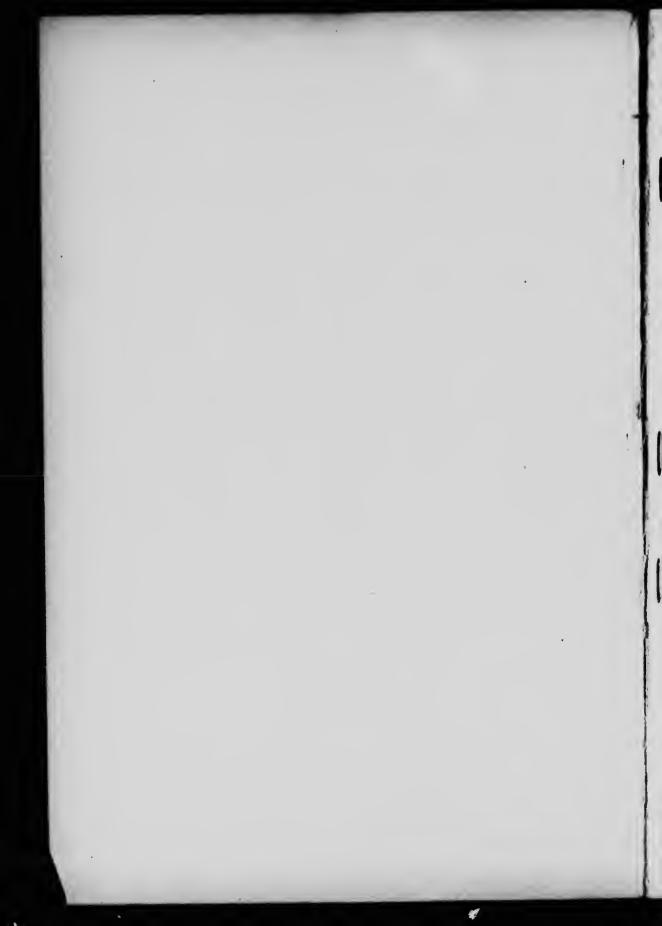
Canadian Special Trade Commissioner.

Published by Authority of Sir George E. Foster, K.C.M.G., M.P.,

Minister of Trade and Commerce.



OTTAWA GOVERNMENT PRINTING BUREAU 1936



SUPPLEMENT TO WEEKLY BULLETIN OF THE DEPARTMENT OF TRADE AND COMMERCE

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#### INTRODUCTION.

The great interest manifested by Canadian manufacturers and men of business in the prospects for trade with Russia has suggested the reproduction in a form convenient for reference of the various contributions on the subject of Russian trade which have appeared from time to time in the Weekly Bulletin. The information given has been revised and rearranged and fresh material has been added with a view to facilitating the study of the requirements and capabilities of the Russian market for Canadian products. An endeavour has been made to outline the special conditions under which trade is conducted and the steps which should be taken to meet and overcome those conditions. Important changes of detail may be expected to occur both before and after the close of the present war, but it is hoped that the data provided by this supplement will be of assistance to Canadian producers in a position to consider trade with  $\mathbb{R}^{n-1}$ . An intelligent study of the fundamental matters relating to Russian trade is  $\rightarrow$  recommended.



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## **REPRINT OF ARTICLES**

#### DEALING WITH

## RUSSIAN TRADE

### I

#### GENERAL SURVEY.

In submitting this preliminary report on the prospects for Canadian trade in Russia it is desired to claim the indulgence of those whom it concerns in view of the exceptional circumstances under which the investigation was conducted.

The hazards and fortune of war are as incalculable as they are unexpected and it is inevitable that many changes, administrative and economic, must occur before the close of the war to modify the outlook and recast the recommendations for lines of action which to-day may seem the best for those who are contemplating the Russian market as a field for future activities.

#### POLAND AND THE BALTIC PROVINCES.

Out of the present situation two or three factors emerge, which are peculiar to Russia and which will have their bearing upon the trade outlook. It may be pointed out that the peoples and the areas which have mainly suffered so far the waste of war are not true Russians and truly Russian. They are the border districts and the border races—the Poles, mixed Slavs, Russian-Germans, Letts, and Jews. Moreover these districts with their commercial classes, have hitherto served as the advanced base of the German economic penetration of Russia, where also the financial and industrial interests are either directly German or controlled by Germans. Warsaw has been the German gate of Russia, and Lodz a German Manchester, and Bialystoka, a Bradford in Russia. The non-German foreign imports into this region have passed for the most part through German commission import houses. It should take some years for Poland and the Baltic provinces to recover from the devastation of war and from the dislocation of trade and industry. A visit to these parts was impossible.

#### RUSSIAN POWER OF RECUPERATION.

On the other hand the real Russian and the real Russian people have remained so far untouched. It is doubtful whether any conceivable scale of waste and destruction of life in the present war on the side of Russia will affect that country's economic position for any appreciable period if the past be any reliable guide in such matters. The recuperative power of Russia has invariably proved equal to every call. She has tried with impunity, economic experiments which would have seriously affected most other countries. Wars and political and social upheavals have seemingly had but little effect.

Russia internally is rich and prosperous; her national resources are very great and of infinite variety and her present population of 171,000,000, constitutes an important factor in the production of wealth. Apart from agriculture, in which

75 per cent of the population is engaged, the manufacturing and mining industries, though very considerable within a restricted range of production, furnish only an insignificant output in relation to the country's actual needs. For this position the lack of the spirit of enterprise among the native Russian capitalists is said to be responsible. On the other hand, liberal provision for the education and training of skilled men for modern industrial conditions is being made.

### A SHARE FOR CANADIAN INDUSTRIES.

There is to be found in Russia, therefore, the unusual conditions of great opportunities for industrial enterprise for which the consuming power is at hand, side by side with opportunities for imports on an extensive scale, with the certainty that Russia's industrial growth will rather stimulate than retard the growth of imforts; for with the slightest rise in the standard of comfort of such a large population home industries can hardly expect to meet the demand at least not for a great many years. Primarily these factors should make Russia a great market, and if the conditions be rightly studied and understood Canadian manufacturing industries by the nature of their products which are adapted in so many instances to the requirements of a developing country like Russia, may reasonably expect to participate in the trade with that market.

## FOREIGN COUNTRIES AND RUSSIAN DEVELOPMENT.

The development of Russia has hitherto appealed to foreign countries in a varying but distinctive manner. Germany by reason of her proximity, and with the assistance of the large German-Russian population directly across the frontier, has been associated with almost every line of general commerce, but notably with general engineering, electrical lighting and power undertakings and insurance. Britain has shown mainly a predilection for speculative ventures, chiefly mining. Belgium has been largely identified with industrial enterprises, especially iron and steel works, street railways and municipal undertakings. France has been the banker for Russia and has absorbed the state and municipal loan issues, content with a low but safe return on the investment. With regard to other countries, the United States is known for her specialities of agricultural machinery; and a combine of her leading harvester companies have established their own works near Moscow. In this direction the United States have been a potent force in the development of Russian agriculture. Cauada, although associated with the United States on a smaller scale in the same direction, is by no means an unknown quantity in Russia. The indentity of her machinery exports to Russia, however, has been confounded with those from the United States, and notwithstanding their importance they are not treated separately in the official statistics. Possibly also their importation via New York, the Black sea and Hamburg has been responsible for this circumstance.

## TRADE METHODS AND GERMAN SUCCESS.

The experience and success of Germany during the last twenty-five years in building up the trade position which she occupied in Russia at the outbreak of the war, when she had 52 per cent of the import trade to her credit, has demonstrated the soundness and capacity of the market. The success of Germany has been principally due to enterprise based upon a thorough understanding of local needs and backed by efficient organization. Financial support from the German banking institutions, which are so largely interested in German industries, have no doubt also greatly facilitated the German commercial invasion, notably in the granting of long credits and in securing important contracts. On the whole, however, it should be admitted that German enterprise and organization have been the chief determining factors in that country's success. There

is nothing secret in those methods; they are not necessarily the possession of any one nation, and they may be elaborated and adopted by any of the allied countries.

In reply to inquiries as to the best way in which Canadian trade may be furthered, the advice has invariably been that Canadian traders should organize on the basis of a close, intelligent, personal study of the requirements of the Russian market and supply those needs on the terms and conditions demanded by the local customs. Most important of all, they should arrange to keep in touch with the consumer through a local house or agent, so that they may always know how their goods are suiting, and how they might be varied or improved under changing conditions. They should remember that the consumer is the best teacher, and that they can also learn from him information concerning their competitors which it is important to know. Whenever possible stock should be kept in London or if necessary in Russia. They should be prepared to give longer credit, and should bear in mind that a wise selection of clients will tend to bring the average length of credit within reasonable limits.

It is not unreasonable to assume that the reckless competition in granting long credit practised in the past is not likely to recur. One might safely give credit and large credit in Russia, but as in most other countries the granting of credit calls for discretion, and when granted under such conditions it is likely to be safe. The highest authorities in the banking and commercial world in Petrograd are unanimous on this point.

#### THE PERSONAL FACTOR-AGENTS.

As in every other relation of life in Russia so also in business the personal element is an important factor, which cannot be sufficiently emphasized. For the purposes of foreign trade the agent plays an unusually prominent part in Russia. The character, judgment and ability of a firm's representatives therefore are of the greatest consequence. An agent who has been found satisfactory should be highly prized and absolutely trusted-and not parted with lightly. The objection on the part of Canadians to deal through agents and their endeavours to get into direct touch with the consumer, excellent as it may be elsewhere, should be modified in developing business relations with the Russian market. The all-important question of the language, the pitfalls and difficulties associated with the introduction and handling of business, the intricacies of the custom-house clearance and of transportation, tend to make a trustworthy and efficient Russian-speaking agent indispensable. Other things being equal the agent should be of British nationality by preference (Jewish firms are best avoided owing to the legal disabilities under which they live in Russia) or if a Russian be taken then one possessing a knowledge of English and of British commercial lubits and customs. Such an agent may be obtained, but not easily, and if with the agent there could be associated a practical responsible Canadian, either permanently or periodically, for the purpose of supervision and of keeping in personal touch with the Russian business the arrangements should be attended with satisfactory results.

#### COMMERCIAL LAW.

Russian commercial law is being developed. New laws for the recovery of debts, and a general bankruptcy Act have been drafted and fully discussed and now await the final acceptance of the Imperial Duma. The law relating to contracts, and to payment by instalments have been brought already into line with the best modern practice. The commercial courts are often slow in performing their work and it is generally advisable to endeavor to settle by arrangement without having recourse to lawsuits. It is on such occasions that the value of having a good agent is felt, as more often than not, he will be able to save the situation by his knowledge of the circumstances and by tactful but effective pressure.

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#### HOW TO TRADE WITH RUSSIA.

The condition of the Russian market differs from that of every other Europeau country in that the expenses of initiating and conducting business are relatively excessive. The general opinion of independent authorities including leading bankers in Petrograd is that Russia is no place for the single firm which desires to run independently, as to do so in all probability would be to court failure; unless always their particular articles were likely to be of universal use and to command such a sale as to make the initial expenses a matter of indifference. Another factor against the small single firm is that when Russia once buys, she buys on a large scale. The best authorities on the question therefore advocate the plan of associated groups, or syndicates of powerful firms whose products do not compete but are complimentary to each other. Syndicates of this class entering the market, have the best prospects of success. Obviously under these conditions the incidence of the expenses for each participator would be considerably lighter in every direction, and the work of building up an efficient organization in the chief centres would be greatly facilitated. This is the German plan of approach and has justified itself in numberless instances; it has also been of great assistances generally in advertising German industrial pro-

## ASSEMBLING AND AUXILIARY WORKS.

In the case of the import of bulky articles like machinery, special and general, for which Russia is such a promising market, particularly for machinery with heavy structural sections or parts which could be obtained, finished and fitted locally in Russia, the question of an assembling shop or auxiliary works is one that could, and indeed should receive serious consideration from a syndicate of firms as mentioned. This feature is of importance to firms in distant countries like Canada. In the first place as the Russian duties are high, and are levied on weight, the saving in duty and foreign competition: secondly, the setting up in the country of a quasi-permanent establishment employing Russian labour and Russian material would not only give local satisfaction, but favourably dispose the Russian authorities, in the event of the firm tendering for Government contracts. It should be remembered that under the Russian administrative system the Government is easily the first purchaser in the country and is permanently in the market.

#### RUSSIAN FOREIGN TRADE.

The statistics of the foreign trade of European Russia show that the total average value for the last five years does not greatly exceed the figure for 1913, the record year of Canadian trade.

The following figures are supplied by the Russian Customs Department:-

#### TABLE OF RUSSIAN TRADE.

Year. 1908 1909 1910 1911 1912 Average	Exports. \$ '000. 486,000 701,000 709,000 777,000 734,000 \$681,500	Imports. \$ '000. 366,000 370,009 480,000 525,000 525,000 531,000	10tal. \$ '000. 874,000 1.106,000 1,200,000 1,304,000 1,247,000	292,000 218,000 252,000 206,000	Duty on Imports. \$ '000. 132,000 128,000 145,000 155,000 154,000
1913	731,000	\$468,000 648,000	\$1,148,000 1,360,000		\$143,000 195,000

Too much should not be made of this comparison. Nevertheless it is one full of interest and of suggestion for both countries. The Russian Ministers of State with whom interviews were obtained for the purpose of discussing Canadian prospects in regard to Russian trade, were greatly impressed with these evidences of the wealth of Canada—a country which resembles iarge parts of the Russian Empire. They expressed the opinion that the foreign trade of Canada was at once a high tribute to the energy and enterprise of her people and to her well balanced economic system.

A detailed analysis of Russian imports is reserved until later. Tables of Russian trade statistics are printed in the appendix and may be useful to Canadian firms who desire to study the situation.

#### DIVISION OF PRESENT TRADE SURVEY.

For the purposes of the present survey of the trade outlook in Russia the subject so far as possible will be dealt with by main territorial divisions of the country, corresponding to the several consular districts in charge of the British consuls general, viz.: The Petrograd district, extending to the Urals; the Moscow district, including Central Russia; the Odessa division and South Russia, and the Omsk and Vladivostok divisions, covering Western and Eastern Siberia.

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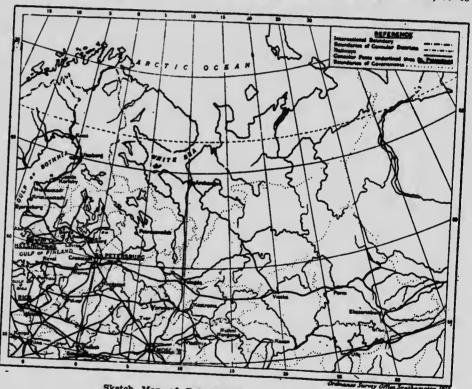
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## II PETROGRAD AND THE NORTHERN DISTRICT.

The Petrograd district comprises an area of nearly 900,000 square miles, stretching from Reval, the open winter port on the gulf of Finland, and from Archangel to the Urals. The main line of the railway to Siberia forms roughly its southern base. The population of this district is some twenty-one millions.

Outside of Petrograd, with a population of two millions, large towns are not numerous, the largest fourteen centres having populations ranging from 12,000 to



Sketch Map of Petrograd and Northern District.

70,000 inhabitants. This feature of the urban centres is characteristic of the whole of Russia when the rural agricultural population forms 75 per cent of the total

#### PRIMACY OF PETROGRAD.

It would be difficult to exaggerate the primacy of Petrograd as an administrative, conomic and social centre. The extreme centralization of government in Russia has influenced every possible kind of national activity. Scarcely anything of importance is initiated or settled without reference to the Government and the commercial

organizations which are grouped or which centre in the capital. Banks, boards of the great undertakings, industrial and mining, of shipping, and the representatives of foreign interests have invariably their headquarters in Petrograd. Here their plans and policies are originated, discussed and given effect, their purchases controlled and carried out. In short, there is no other place where the pulse of the whole Empire can be more surely felt than in the Russian capital.

Petrograd sets the fashion and dictates the taste of the country in a degree that oven Paris does not achieve. It purchases the best goods and pays the best prices. Money commands and obtains everything that is desirable within the four quarters of the globe. Moscow may be more national—it is called the "Moujiks capital" but Moscow, like the smallest city, looks to Petrograd for inspiration and guidance. Every average Russian visits Petrograd, if ho can, to gaze on her palaces, to worship at the magnificent shrines and to taste the pleasures of the city, tho "window looking out upon Western Europe" which its prescient founder, Peter the Great, croated amid the swamps of the Neva for the advancement and development of the Russian Empire.

#### START IN PETROGRAD.

It will be readily understood that for foreign firms wishing to establish connections with the Russian market Petrograd has peculiar attractions and the best recommendations. Petrograd and Moscow are the chief importing centres of European Russia, just as Odessa is its chief exporting centre, with the one reservation made in regard to agricultural machinery, the imports of which go chiefly to Odessa and other Black Sea ports.

Moscow, it should be observed, differs from Petrograd in that it is an importer chiefly of cheap staple articles for peasant class consumption, whereas good medium and first-class articles are characteristic of the capital. Libau, Riga and Warsaw were the chief gates for the entry of supplies for Central Russia, with Moscow as the chief distributing point. The effects of the war, however, must inevitably arrest this trade temporary and transfer supply to other countries and along new routes and lines of transportation. Petrograd should undoubtedly increase her hold on the foreign imports into Russia.

It follows from what precedes that Canadian firms should go to Petrograd for their initial business arrangements, whether they establish themselves through-

- 1. The existing merchant houses in the Russian trade in Great Britain, which have long had their trade connections throughout Russia.
- 2. Through agents with del credere (sole agent, guaranteeing accounts).
- 3. Simple local agents (Russian and English) working on a commission, selected for their trustworthiness and capacity, or
- 4. Through branches of the parent houses in Canada working independently, or in the grouped or syndicate form.

All have their advantages according to circumstances. A preliminary visit in all cases is strongly recommended as the conditions in Russia are of such a character that nothing short of actual contact with them will serve to a right comprehension of the possibilities of the market as well as of the difficulties to be encountered.

For Canadian manufacturers and merchants the present time is rather one for studying and maturing plans for entering the Russian market after the war than for innmediate dealings; for ascertaining to what extent the goods they make or handle can be adapted to the market or can be substituted for German products. The list of such German articles on page . will be helpful in this respect.

#### TRANSPORTATION ROUTES,

The question of shipping facilities to be provided after the war is an important question which calls for early consideration, and in this connection, unless a Canadian line be inaugurated, suitable arrangements with existing lines such as the East Asiatie

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Steamship Company which serves Libau, Riga and Reval, and calls at present s Halifax, N.S., and the Russian American Steamship Company, might be considered Transhipments in London by way of the existing English services of the United Shipping Company, of Wilsons in Hull, etc., or of new lines in Great Britain, which it is understood, are already under consideration, may offer also further alternatives

#### THE RUSSIAN TARIFF.

The position in regard to the Russian customs tariff calls for attention. The abrogation of the "conventional" duties, owing to the war, has resulted in the general tariff going into force for all allied and neutral countries, Germany and Austria being penalized with a surtax of one hundred per cent. The Russian Government, however, has seen fit to increase the "general" tariff, already one of the highest, by a further ten per cent, with the exception of a small number of articles, of which "sulphate of ammonia, portable engines connected with complex threshing machines and steam ploughs, spare parts for agricultural machines and apparatus imported together with such machines and apparatus," are of interest to Cunada. Further increases are not

What the future may have in store it is impossible to conjecture. It at least seems certain that all the allied countries will be favourably placed after the war in regard to customs duties, as compared with enemy nation competitors in the Russian

#### WAR CONTRACTS.

The successful participation of Canada in the contracts of the Russian Government for munitions of war, railway rolling stock, and it is believed for locomotives and other materials, has created lively interest in Russian official, banking and commercial circles, and should prove an excellent advertisement of the eapabilities of tho

His Excellency, Mr. Richlov, the Minister of Ways and Communications. expressed his pleasure at being able to place an order for his department with Canada, and he was greatly interested to hear of the variety and efficiency of Canadian works. It is true that the Russian law prohibits the purchase by the State of supplies of this kind from abroad, without a special decree being obtained, and Russian rolling stock works are extremely opposed to any departure from this rule. It seems, however, inevitable that these purchases outside the country must continue at least for the present in view of the exigencies of the war position and of the rapid development of the Russian railway system, which is only a little longer than that of Canada, and which is imperatively demanded to supply the deficiency in the means of communication. It is not an unreasonable demand to make that in the future the Allies of Russia in the present struggle should be exempted from the present disabilities in regard to public contracts. and that their products should be admitted on an equal footing with Russian products

## KIND OF ARTICLES REQUIRED.

The requirements of the Petrograd district in imported articles, cover a wide range of manufactures and of natural products. Many of these, probably, lie outside the abilit . Canada to supply. For immediate purposes, however, the list given on page 21 overs roughly the classes of Ca. adian products, in which there should

## AGRICULTURAL MACHINERY AND IMPLEMENTS.

The relative importance of the Petrograd district for agricultural machinery and implements is less than that of Central and Southern Russia. In the Baltic provinces, however, with Riga and Libau as ports of entry, where extensive farming is wide-

spread, the market is comparatively large. Here Germany has long been in control. and as one of the results of the war, good opportunities should exist for Canada in that district. Sickles and scythes are in almost general use in Northern Russia, where the greater part of the crops are harvested with these implements.<sup>\*</sup> The trade was, however, chiefly in Austrian hands prior to war. American and English goods are also imported, the former retailing at 50 cents per sickle, while the English and Austrian varieties are chepper. Specimen samples have been obtained and may be inspected at the Department.

#### MOTOR CARS AND LORRIES.

Motor cars have been sold in ever increasing numbers in the past, despite the bad roads outside of the towns, which are not unlike the Canadian protect trails. The replacing of worn-out and commandeered cars alone should represent a large trade. There is a good futuro also for the improved cheap car as runabouts for general urban and rural intercommunication, e.g., for the use of managers and forcmen, between town offices and outlying factories in industrial districts. A 20-horse-power car costing \$1,100 delivered will probably be the most serviceable and popular type. It is recognized that the greater expense of the upkeep is more than offset by the lower initial cost. It is essential to the success of such a car that spares be provided, in order that the owner can keep his car uninterruptedly on the road. An ideal car of the better type, and of 20 to 40-horse-power would be one to retail at \$2,250. A well-known German firm did a large business in this model. They were generally sold on two years' credit, with interest added at 8 per cent. The agent's commission for cars has been from 10 to 20 per cent, according to the class and general character of the car. It is said that arrangements are now being mado to push a popular American cheap car with the assistance of the American agricultural machinery agents, throughout Russia. Motor lorries in Petrograd and other centres are coming much into favour. A lower set and more compact type of car is however required than the German kind now in use, in order to secure better loading and unloading facilities. Prices should range from \$2,800 to \$3,500 delivered.

#### RAILWAY STOCK AND LOCOMOTIVES.

Nominally the invortation of all material for the construction and operation of railways is prohibited. Purchases outside of Russia must be authorized by an order of the administration. The present relaxation of the general rule, however, is rendered imperative owing to the shortage of rolling stock, which the Russian car shops are mable to supply. One authority puts the requirements of the private and State railways from 1913 to 1917 inclusive, at a minimum of 145,000 wagons and trucks. This is quite beyond the capacity of the native works. The belief is that the future will witness some modifications in favour of the allied countries contracting for such materials. Petrograd is the only place where business matters of this character can be transacted whether for State or private lines.

## BOILERS, OIL MOTORS, GASOLENE ENGINES, LIFTS.

For boilers of special types there is probably a market. The Russian competition in other kinds, however, monopolizes the demand. The openings in oil motors and gasoleno engines in the north have hitherto been the subject of keen competition between the Germans, French and Swedish firms, Germany securing the greater part of the business. In lifts (elevators), for business and apartment blocks, the United States and Germany have been to the fore.

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<sup>•</sup>The imports in 1914 were valued at 1,721,000 roubles.

#### MACHENERY.

For Canadian specialties in machinery for saw-mills, flour-mills, and woodcutting, there are undeniably good openings. Nothing but the highest class of machinery can hope for success. The personal presence on the spot of responsible xperts of the firm concerned is most essential. Demonstration is also to be thought of, as it is useless to expect to sell machinery of this class from an illustrated catalogue. Price is not the determining factor so much as the possession of the suitable article, and especially of facilities to meet the local customs and, above all, the ability to deliver promptly. The business is concentrated in Petrograd where the purchasing commission houses for the dealers and users in the interior have their headquarters, as well as contractors, great industrial concerns and mining corporations to say nothing of the Government spending departments, which are the largest customers in most lines in Russia. Negotiations can therefore be most conveniently carried out and the settlements effected in Petrograd. In saw-mill and wood-working machines, Sweden has been the provider next in importance to Germany. In flourmill equipment, Germany, Great Britain and Sweden. In mining machinery, Great Britain. It is stated that the change now proceeding in the character of the mining in the Urals, i.e., from surface workings to deep mining, is necessitating the employment of totally new classes of machinery. Certain Canadian specialties like rock drills, etc., in this regard should therefore, now have an opportunity. The great Russion corporations, like the Demidoff Heirs, the Shouvaloffs and the foreign-owned mining companies are controlled from Petrograd.

## GRAIN ELEVATOR EQUIPMENT AND APPLIANCES.

The policy of the Russian Government to assist actively in promoting both the interest of the grain trade and of the peasantry, by the construction of terminal country elevators, should be of practical interest to Canadians.

A series of 110 elevators, large and small, have been planned for Southeast Russia clone. Contracts have been let and others are pending. The details of the equipment can be seen in a museum which has been opened in Petrograd by the State Bank making the advances, where working models and the various appliances can be studied

### ELECTRIC POWER AND LIGHTING.

The practical monopoly of Germany in the electric power and lighting industry suggests openings for Canadian and British interests in the future. Canadian enterprise in other countries has attracted Russian attention, and questions were repeatedly asked as to the possibilities of Canada's intervention in a number of clectrical power and traction schemes, which are more than overdue not only for Petrograd but also ior other important centres in European Russia.

#### CHEMICALS.

Owing to the gradual development of Russian manufacturing industries, the import in heavy chemicals is more or less limited to the crude and more elementary The value of chemicals annually produced in Russia is estimated at 150,000,000 roubles. A large producing industry, particularly in the Central Volga district, provides the materials required for the manufacture of the more essential bulk chemicals, such as sulphuric acid, soda and caustic soda. Three-fifths of the Russian imports of chemicals previous to the war came from Germany. Among the most important are glauber and strassfurt salt, sulphur, cream of tartar, heavy spar sulphur, compounds of sodium, citric acid, salt and quinine. For the suggested list of chemicals from Canada the demand is certainly large in the Petrograd district.

There is a growing demand for ca' ium carbide and cyanimide. Coal tar products, e.g., pitch, carbolic acid, creosote, aud even sulphate of ammonia, are wanted, the last named more in the north district than elsewhere. Shipping facilities will determine the possibility of competition from Nova Scotis. But it may be pointed out that the East Aslatle Steamship Company and the Russian-American Company call at Halifax.

For the basic slag produced by the Cape Breton iron works, a large sale might be found in the Baltic provinces as a fertilizer.

#### DRUGS AND PHARMACEUTICAL PREPARATIONS,

In practically all drugs and medicinal preparations of the European pharmacopela Russia depends on outside supplies. Nearly 90 per cent, according to the London Chamber of Commerce, comes from Germany. The articles given on page 28 find a ready sale and have been imported hitherto entirely from Germany.

The making up of prescriptions and the compounding of drugs is in the hands of apothecaries, who must be distinguished from chemists, and whose prices, though fixed by the administration, are high. Chemists are more numerous than apothecaries. Chemists trade in simple drugs, patent medicines, cosmetics. etc. The sale of patent medicines is largely on the increase, partly owing to the greater cost of medicine made from doctors' prescriptions and partly through energetic advertising. One of the most valuable of Canadian patent medicines was only recently introduced into Russia. All such preparations have to be approved by the Pharmaceutical Board of the Department of the Interior before they can be publicly offered for sale.

#### TANNING MATERIALS.

There are very important openings for tanning materials. The chief supply has, as usual, been handled by Germany. Canadian hemlock, birch bark and chestnut extracts should do well. Oak bark, valonia, galls and other substances in use can also be confidently disposed of. Russian tanneries producing leather footwear require mainly decolourized extracts for a speedy process of tanning, which enables them to turn out a cheap leather.

#### MISCELLANEOUS MANUFACTURES.

Leather.—A reference to the statistics at the end of this report shows how important the Russian market is for leather of almost every class, with the exception, in normal times, of cow leather for making the rough peasant boots. At present, and probably for a considerable time to come, even this latter kind will find a ready sale at good prices. Under ordinary circumstances, Russian boot and shoe factories are permanently in the market for leather for uppers. The chief demand is for box ealf, chrome tannings in different qualities, patent leather. glacé kid, and now also for vegetable tanned sole leather. American "chevreau" is also popular. Canadian leather manufacturers can build up a steady and satisfactory trade if they copy continental and American firms in supplying standardized selections as regards quality and material and in supplying moreover the market with trimmed and attractive looking skins. Calfskins have been imported from Germany to the value of \$4,000,000 in one year; in 1913 the price of the German article, including duty, was 28 cents per square foot, a credit of sixty days being allowed to regular customers. Hides for carriages, furniture, valises, cases and portmanteaux are always wanted.

Boots and Shoes.—The imports of boots and shoes are large and as they are mainly derived from Austria (ladies' wear) and from Germany, the opportunity of alternative sources of supply in the future is obvious. American footwear of the better class had already been successfully introduced before the war by the characteristic method of special stores. These imported goods are generally the expensive, fashionable kind and find a sale among customers to whom price is r r as consideration. The Russian town dweller of the female sex is usually the store and a stylish, source and store and stylish.

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well made boot or shoe, despite a high cost, is growing in request. The cheaper goods are produced in Russia, and Petrograd has easily the largest boot and shoe fac tories in the country. The general inelemency of the elimate makes a good article acceptable, and the opinion was expressed that the American shoe had not only comto stay, but would gradually become an important trade, although it was an article for well-to-do persons rather than for the masses. The Russian practice of wearing rubbers for never less than eight months in the year calls for light footwear 10.50 roubles, and of boots from 14 to 15 roubles per pair have been obtained for the information of Canadian manufacturers. These prices are but slightly over those of pence times. Competing with the American shoe is the Germa: "Standard" make selling at \$7.20 per pair. American lasts are comewhat in vogue.

#### ARTICLES OF CONSUMPTION.

Fresh Apples.-The production of allmentary products in Russia is so vast and varied that there is little which Canada can usefully offer. For the local trade of Petrograd, apples of the finest quality form an interesting exception. there, as indeed all other foreign fruit, reached Russia via Hamburg, and were bought Hitherto at the fruit auctions by the buyers of the Russian fruit importers stationed there. It is stated that Germany secured annually a commission on a total of nearly forty millions of roubles worth of fruit destined for Russia which were imported through the free port of Hamburg. Boxed apples are the only kind which are wanted by the Petrograd trade, and of these some 150,000 cases are taken from the United States, Canada and Australia annually. The dealers are anxious to get into direct touch with Canadian growers. Canned "gallon" and evaporated apples were considere l articles which should also find a market. Of canned fish, there is already probably enough and to spare, but one of the largest provision dealers in Petrograd has been interested in Canadian pink salmon. It is believed that this article might be made a popular alternative to the eanned variety of sardine, which is consumed in great quantities in Petrograd, and there are further possibilities in con-

## A CANADIAN FORWARDING AGENCY FOR RUSSIAN TRADE.

British trade with Russia has undoubtedly suffered both materially and in prestige from the fact that the whole of the foreign forwarding business of Russia has been allowed to drift into foreign hands, mainly German, who have practically controlled the position. It has been attended with disagreeable surprises since the war began. Any development of Canadian trade with Russia should be free from such influences, and should be in Canadian hands. It is believed that in the Canadian forwarding agencies lies the instrument for this purpose. A fusion of these interests for Canadian purposes in Russia is a sine qua non, if successful results are to be reached. And if with the usual forwarding business, there could be combined banking facilities for small transactions with the joint support of the Canadian chartered banks, the means for financing, a respectable volume of trade in the aggregate with Russia, on the lines of the extended eredit which that market calls for could be automatically provided. In this way one of the greatest difficulties in the path of promoting trade with Russia might be solved. An inexpensive organization at the six chief centres of distribution in Russia could be built up on these lines without delay, with the co-operation of the existing trustworthy British forwarding houses possessing long local experience.

## ' TADE OPENINGS IN THE RUBBIAN EMPIRE.

The following is a list of goods manufactured by German firms and now in demand in Russia which has been compiled from reports supplied recently by His Majesty's consular officers:--

Agricultural machinery and implements. Aluminium cooking utansils. Asbestos. Ball bearing. Bicycles and bicycle accessories Blades for cold saws. Blowsre Sandblast apparatus. Boat, motors. Boats, motor. Bolier fittings Bicam silds valves. Blow-off cocks. Stsam pipe ivolating valves. Water isvel ndicators. Boot polishes. Boots. Brushes for dynamos-Carbon brushes and contacts. Brushes, hair, tooth, clothes Calculating machines. Cash registers. Cellulose factories, installations for-Woodgrinding plants. Machinery for pulp manufactures. Chains Galle chains. Link chains. Chamot fabrics. Chemicals. Chucks for lathes. Circular saws. Combustion engines, internal. Cotton goods. Cruds oil engines. Cutlery and steelwars. Cutters, milling. Docks, floating. Drawing ink. instrumsuts. Dredgers. Dressing plants. Drills and drilling tools. Drugs. Dry dredgers. Duplex pumps. Dynamo governors. Dynamos. Economisers. Edge mills. Electrical apparatus. Electric lighting accesories. Electric inachinery. Electrical inachinery. "railway ing allation. "tools and articles." " welding and cutting installations. Electricity meters. Electro-motors. Emery. wheels. Enamelied ware. Engines, fire. Exhausters. Extinguishing apparatus fire. Feed pumps. water meters. Fertilizers. Files. Fire-brick goods. Firs engines. 89339-21-R

Fittings-Lead apparatus and fittings. Boiler fittings. Fittings for gas pipe heating plants. Blast furnace accessories. Cast steel fittings. Water fittings. Friction couplings. Furnaces Heating and herdsning. Tempering. Furniture. Gas meters. " purifying plants. " suction fans. Gaugs glasser, watsr-gaugs glasses. fliass and chinaware. Gloves. Governors Shaft governors. Temperature regulators. Revolution governors. Graphits. Guns, rifles, revolvers, stc. Haberdashery. Hammers, pneumatic. Hardware and tools. Hats Hoists. Horse-power indicators. Hydro-extractors. Ink and drawi .s ink. ribbons for typewriters. Jawellery. Knitting machines. Lamps, arc. Lathes. Launches, motor. Laundry machinery. Lead, rolled. Leather and leather soods. beits. Lifts-Press-button apparatus. Hoisting machinery. Blast-furnace lifts. Paternoster works Linen collars and shirts. Liquid meters. Lock, locomobile, Lubrianting oils and greases. Machine tools for metals. toothed wheels. wood. Makers' name plates. Manometers. Material testing machines. Mining machinery. Motor cars. Motors petrol. Musical instruments. Narrow-gauge railways of all kinds. Oil cooking stoves. Oil factories, machines for. **Optical** instruments Packings, stuffing box. Paint brushes. Paints. Pelton water wheels. Pens Photography, requisites for.

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## TRADE OPENINGS IN THE RUSSIAN EMPIRE.-Concluded.

Pipe lines— Sheet metal tubes. Fittings for pipe lines. Colled pipes. Ploughs, singls-horse hillsids raversible. Proughs, steam. Prasses. Pressure gauges. " reducing valves. Printing machines. Pulicy blocks. Punching machines. Punching machines. Pyrometers. Rawhids gears. Ready-made clothing. Reamers. Refuse destructor furnaces. Riveting machines. Rubber goods for household and hospital purposes. Ruises. Saw-mill machinery. Saws. Scientific instruments. Separators, magnetic and electro-magnetic. Serges.

Sewing machines. Sheaves, rope. Sheaves, rope. Sheave lead. " metal working machines. " tin. Shoes, Slaughtering yard installations. Soap, medical and toilet. Sporting requisites. Stationery. Steel indicators. Steel wire. Stop valves, Steel wire. Stop valves, Street rollers. Surgical instruments. Tannery machines. Textiles. Textiles. Textiles. Textiles. Turbine pumps. Turbine pumps. " water. Typewriters. Umbrelias. Watches and clocks. Woollen and cotton underclothing.

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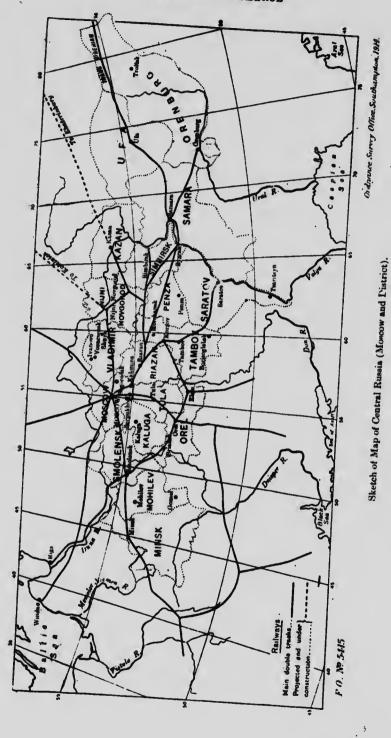
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#### MOSCOW AND CENTRAL BUSSIA.

Central Russia, with Moseow, the ancient capital of the Czar, as its focal point, is the richest and the most thickly populated part (93.73 to the square mile) of the Empire. This region contains eighteen governments eovering an area of 480,000 square miles, less than one-half of the Petrograd district, but with more than twice the population, viz., 45,000,000. It is roughly two-fifths of the total area of European Russia and stretches from Minsk in the west to the frontiers of Sibera and of Central Asia, a distance of 1,500 miles. A clearer idea may be obtained if Central Russia be compared to an area equal to Germany, France, Switzerland, Belgium, Holland and Denmark, and a population equal to that of the United Kingdom. As may be expected, the eities and towns in this region are both larger and more numerous than elsewhere in Russia. Moscow had, in 1912, a population of 1,617,000, and there were also at least ten cities with populations ranging from 40,000 to 80,000; ten of from 100,000 to 170,000, and one each of 190,000, and of 225,000 inhabitants. Railway communications are, for Russia, relatively well developed here and to the south, but compared with Canada, the mileage is relatively small. In 1914, Russia had 321 miles of railway per 100,000 inhabitants, or one mile for every 3,125 of the population, against Canada's one mile for every 200 of her inhabitants. Russia, however. is beginning to realize the economic significance of railway expansion, and from other points of view the lessons of the present war may be expected to neeclerate railway building.

#### MOSCOW A BUSINESS CENTRE.

As a place of business Moscow occupies a unique position. The interests located there control and serve the enormous area of which the eity forms literally the geographical centre in all matters of supply and demand for a mainly agricultural country, and it is through the Moscow merchants and agency houses, that foreign imports are brought directly before the consumers. With characteristic enterprise the Moseow merchants have also organized and largely control the Siberian trade. Many of the most successful of her eitizens are Siherian born, who find it desirable to reside in Moseow to direct the financing and the purchasing end of their business operations. Finally, industrial Russia may he said to centre in this eity, where the Moseow Manufacturers' Association which forms almost n party in the State, exercises a potent influence on the tariff policy of the country. Moscow capitalists are responsible for the Russian textile industries, which are to be found mainly here, the iron and steel industry, and many other manufacturers. It was Moscow's initiative also that started cotton-growing in the Caucasus and Central Asia, which now supplies a considerable portion of the raw material of the country's cotton trade. The air of business which pervades this strange hut fascinating city is very attractive to a westerner. Business men are more accessible than elsewhere. They seem to have a grip of affairs and pursue methods of dealing which lead to quick decison and execution. These qualities coupled with a strong local patriotism form the driving power of Moseow's eitizens, which cannot fail to secure for the city an ever-increasing influence in the political and economic development of Russia.



The dissimilarity of the Petrograd and Moscow markets has already been pointed out. Broadly, Petrograd disposes of a higher class of article at corresponding prices. Moscow's clients belong to the peasant class, to the inhabitants of the rural towns, whose wants are restricted, and who are in the stage when new wants and habits are forming. This does not necessarily lessen tho range and variety of the articles desired, but rather the contrary. The attractiveness of the articles, how-ever, rather than the quality appeals, and cheapness is an all-determining factor. This attitude has been clearly grasped and exploited by the German trader, and in this connection, nowhero is the evidence of the German adaptability. and of the German "trade penetration" of Russia more apparent. Moseow's stores were, and are still, full of German goods. Large numbers of these stores are obviously German, while the representatives of German houses in the district must be numbered by thousands. Many of the more important of them are, for the moment cager to take up British and other agencies, but probably only to sidetrack them at the first opoprtunity, when the return of the German becomes possible. In Moscow's best departmental store, the largest in Russia, founded by Scotsmen in the fortics of last century, and still conducted under British management, probably 60 per cent of the foreign goods on sale were of German manufacture. The range of retail prices paid and the quality which satisfies even the good elass in Moscow precluded the nearest corresponding Euglish goods from competing. This establishmer, was visited, and a number of samples were secured, which it is hoped may be of value to Canadian manufacturers. The firm is open to buy Canadian boots and shoes, brush goods, wringers and washing machines, lawn mowers, handles, tools, moulded glassware, enamelled ironware, k tehen utensils of wood, kitchen ranges, gas cooking stoves for flats, hand bags, grip frames and fittings, nickeled bath fittings, office requisites and filing cabinets, cornice poles and plates, curtain rods, electrical fittings and lamps, novelties, soda fountains and freezing machines, certain canned vegetables, eanned " gallon " apples and evaporated apples. Prices should be quoted e.i.f. London or Liverpool.

On the general question of the opening for Canada in the Moscow district, the substance of the two typical interviews which follow will be suggestive. The first of these was with the manager of one of the oldest British trading houses in Russia, the second with a highly respected Canadian gentleman who, for years has been in charge of important Canadian machinery interests in Russia.

The former stated that, generally speaking, Russian trade might be summed up in a word "giving faeilities." It was not necessarily a cut trade, but the Russian was often inclined to eliminate the calculation of costs and charges and to say "I will pay you so much for an article if you deliver it to my door."

The question of finance was, of eourse, difficult, but what was being stated as to tho lengths of credits necessary was much exaggerated, or at all events, exceptional. unless perhaps for certain classes of agricultural machinery. As long as the -ight agent was provided he would scleet the right eustomer for business on satisfactory terms—allowing, however, always for the market. Taking the suggested list of Canadian articles (see page 27), his observations were, briefly, as follows:—

Provisions.—The Moscow district was self-supporting and anything Canadian that might be imported would never be for the masses, but for the few thousands of the better class—it would be a luxury.

Chemicals.—Anything of this kind would be marketable if the prices of the Canadian articles could meet competition. Chemicals were wanted and the competition of Germany could not be in future what it had been in the past.

Metals .-- The same remarks were applicable. Metals a cash trade.

Leather.--All kinds would probably find a ready market. Leather belting and balata belting were also probable articles of import.

Boots and shoes .- For the townspeople. make than the English, and even lighter possibly than the American. Rubbers an The quality in demand is lighter i worn here or eight to nine months in the year. Stock should be carried here of

Hardware .- There is a market for all kinds of hardware, but stock must b carried.

Pulleys, split .- Moscow a good market for this commodity.

Organs and Pianos .- No opening at present is in evidence.

Asbestos Goods .- A market is present.

News and Printing Paper.-There was probably a better market in South Jussia. say in Odessa, in competition with Finland, which could not possibly supply the total requirements; the quality of the paper used here required improving, and a good line once introduced and approved would be difficult to oust. People read more; education was spreading. The natural increase of the population moreover was a market in itself. The consumption of paper in Russia increased 30 per cent annually. The same remarks applied to wrapping and packing paper. paper also of an improved character was much needed. Writing

Typewriters.-A good machine but cheaper than the standard makes was likely to

do well. Probably one retailing at about \$65 should have goed prospects.

Radiators .- Although radiators are now coming from Sweden and Denmark there is a market for Canadian radiators.

Tools and axes .- The Russian single-handed axe-not the Canadian variety-is used for all purposes. Sickles and seythes have hitherto come from Austria.

Enamelled ware.-Must be light. This should be a large article for popular use. suitable for the cooking stoves used, and wood firing.

Agricultural machinery .- This is capable of indefinite extension, the light type of machinery supplied by the United States and Canada is what is required. Motor ploughs are new, but promising, particularly in the South-east and in Siberia.

The firm in question handles as exports sugar and molasses, fuscl oil, refuse from vodka distilleries for commercial uses, spirits, potataoes, flour, dextrinc, hemp and

The Canadian gentleman referred to above considered the list of articles a useful ono for Russian needs, provided Canada could produce them for export. Hitherto Canadians had not aspired to do this but had been content with the local market. except in a very few lines, like agricultural machinery, etc. There was no question but that the Russian market was a large one potentially. study the processes available respecting the recovery of debts and to provido against the Care must be taken to giving of unconsidered credit. Canadians must go to work, however, in a special way just as the Germans have done, for if they did so they would probably achieve similar results. The principle of firms combining in groups or syndicates in order to work the Russian market was a good one, but those who wanted to make a success must cover over and investigate for themselves. Doing business direct frem Canada was of little avail. In any case catalogues in Russian, and in the weights and measures and eurrency of the country were indispensable. The English threshers, as against American and Canadian, were so far the best for Russian conditions. Portable engines were wanted, and a prominent Canadian firm was attempting something in this line and in threshers the results of which effort had yet to be seen and gauged. Scythes and sickles, mainly Austrian, were important articles for Northern Russia, where the

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#### SUPPLEMENT TO WEEKLY BULLETIN

greater part of the crops was reaped with them. Cauadian boots and shoes should sell well for town wear. Prices are about double the Canadian retail prices—a \$4 article selling for 15 roubles and a \$5 for 20 roubles. News and printing paper should be able to compete in South Russia with the Finnish product. If Cauada could turn out the Russian kind of door furniture, handles and locks, and other similar articles this might be a substantial business. Canadian butts and hinges should also sell. For metal laths and for steel ceiling plates there should be a future, but this trade would require to be pushed with intelligence and persistence. These materials had beca employed with effect and had given full satisfaction. The enamelled ware in use was all German and Austrian, of good quality. The Cauadian article must be equally good in order to obtain a sale. The old competition would not have to be faced in tuture.

It is the opinion of this gentleman as well as that of many others, that the Russian will resume business with German firms, if the same conditions are offered as previous to the war. The mass of the people do not appreciate the difference between a German and other foreigners. The Russian country merchant is influenced by price and buys from the man who on the whole is cheaper. The tariff is not likely to be modified, the reduction of duty is not of so much consequence to Canada as an advantage over German competition. It is to be feared that the purchasing power of the nation will be reduced after the war. Trade credits have, he thinks, been exaggerated. With the best and most reliable people, who must be sought out, a reasonable length of credit can generally be arranged. At present, cash payments are very general, and this will not be without its effect when general business is resumed.

#### RUSSIAN MARKET FOR AGRICULTURAL MACHINERY.

The use of agricultural machinery and implements in the Moscow district continues to grow very fast. This feature is common to European and Asiatic Russia. It has been promoted and stimulated by every sort of government encouragement, educational and financial, while the provincial councils, (Zemstvos) and co-operative associations have also done their share. A progressive increase may therefore be looked for. The manufacture of simple agricultural machines and implements is, as it should be, the greatest single manufacturing industry of Russin, but notwithstanding the constant multiplication of the works the industry is quite unable to keep pace with the constantly growing demand.

#### IMPORTS OF AGRICULTURAL MACHINERY.

Moscow is a leading centre for the agricultural machinery trade, and the principal American and Cumudian manufacturers have their headquarters here.

#### FLOUR MILL MACHINERY.

Of late a large demand has arisen for flour milling machinery, (roller process) in small units, for the numerous mills, that are springing up, especially in Siberia; and as Russiar orks are only able to turn out the stone mills, the trade is worth eultivating. Britain, how: using to some count,

#### THE AMERICAN COMPETITION.

The American combine for harvesting machinery, known as the International Harvester Company have opened large works in the neighbourhood of the city which, for the arrangement of shops, equipment, and methods of manufacture are quite remarkable. When in full working order, probably in three or four years' time, the output, it is estimated, will take care of one-sixth of the Russian annual requirements in harvesting machines. Backed by enormous capital, the company is able to adopt methods of business which, it is thought, may prove a serious competition both to the older native works and also to foreign importers from the United Kingdom and Canada. The company became entitled to the government bonus of one rouble per pood (36 pounds) on complicated agricultural machinery made in Russia. The bonus came into force in 1913, and it is estimated that the bonus earned by the company in that year was about one million roubles (\$500,000). This sum at, say, 30 roubles per machine represents an output of 35,000 harvesters alone.

The position of the works from the point of view of the cost of auxiliary material, coal, iron, etc., is not as good as might be desired, but there are compensations in the supply of labour and shipping facilities. The company imports from the various works concerned in the United States the parts of these machines, and the Moscow plant in this way is to a considerable extent an assembling works.

#### CANADIAN AUXILIARY WORKS.

In view of the possibilities for Canadian agricultural and other machinery in the Russian market, and for the purpose also of safeguarding the existing trade, it seems that the establishment of some sort of auxiliary or assembling works in Russia is a subject worthy of the attention of Canadian machinery interests and their financial associates. It has been ascertained that the Russian Government is seriously considering ways and means for encouraging the setting up of additional works of the type of the International Harvester Company referred to, and that any serious proposals of this kind from Canada will receive generous consideration by the Government.

#### FURS.

Moscow has always been the chief fur centre for Kussia, and the tendency towards a transfer to Moscow of the business of subsidiary fur markets, like the Irbit and the Nijni Novgorod fairs is steadily growing. Canadian fur dealers will probably be interested to learn of the movement, which has been initiated by the fur section of the Moscow Chamber of Commerce and Industry, to render the Russian fur industry in future independent of the Leipzig market. Leipzig has hitherto taken the main supply of Russian raw furs; has treated and finished them and resold the finished product again to Moscow. In future, Moscow purposes to do more of the finishing process herself and is endeavouring also to get into touch with London, New York, and other important fur producing and fur importing centres, for the purpose of direct business dealings without the intervention of Leipzig. The president of this section desires it to be known that the committee will be glad to hear from Canadian fur interests and will gladly furnish information that may prove of material interest and tend to forward the objects which the chamber has in view. Moscow can supply finished furs such as required, squirrel tails, ermine, marten, stone and baum marten, hares, Persian lamb, ctc. Russia is a very large buyer of fur goods.

#### THE ASSISTANCE OF INTERMEDIARY FIRMS.

The Russian banks are greatly interested in the determination of Canada to enter the Russian market. The directors were unanimously of the opinion that the grouping of suitable Canadian firms with their own representatives in Russia was to be recommended. They were equally agreed that such undertakings would find in the good

intermediary houses the most effective instrument for pushing business throughout Central Russia. On the whole this method was to be preferred to intermittent efforts to get into touch with the large firms, which might buy once in a while, but which would be more likely to buy regularly, if the selling firms interested were in the hands of regular agency houses. These intermediary firms are quite characteristic of Moscow trade; they facilitate business and are able to adjust differences and overcome difficulties with customers to a degree, of which their principals have little conception. The banks promise every assistance in suggesting suitable houses and in giving helpful advice whenever needed. The names of a certain number of firms of this character have been collected at the various centres visited.

#### CHAMBERS OF COMMERCE.

That Russian business circles are feeling their way towards a closer relation with allied countries is shown by the formation of various organizations such as the Russo-British, the Russo-Italian and the Russo-French Chambers of Commerce. These have been followed by the formation in June of a Russo-American Chamber in Moscow under influential auspices; on this occasion, it is understood, steps were also taken that will ensure the creation of a strong Russo-American banking institution. Russian economists and commercial men instinctively feel that in the United States may be found that support of which Russia stands so much in need, and which must be forthcoming, if the development of the country is to not be be seriously arrested. The position of Germany, whatever the result of the war, will probably never be the same again in Russia, owing to (1) her economic exhaustion. (2) her inability to rely upon the foreign money markets to finance her foreign trade on the old system; and (3) to the burdens of heavy taxation which will impair her power of competition. With so much of the wealth of the civilized world flowing into the United States as a consequence of the war, that country will be in a position to give this support. Moreover, her citizens have the will, the practical experience and enterprise as well as the means for seizing the opportunity, and thus to redress the balance upon lines which are likely to be mutually beneficial. In this event, Canada may expect to benefit indirectly owing to her transatlantic position and to her internal conditions, which offer to Russians the best opportunities still available for emigration and settlement within the British Empire, to-day Russia's best friend and ally.

### LIST OF CANADIAN ARTICLES FOR THE RUSSIAN MARKET.

#### Machinery Manufactures

Agricultural machinery. "implements." Threshers. Tractors, steam and gasolene. Cream separators. Binder twine. Automobiles. Motor iorries. "accessories. Roiling stock. Pressed steel frame (cars). Locomotives. Steel rails and fastenings. Boits and nuts. Boilers. Oil motors.

Carbide of calcium. Acetate of llme Acetone Sulphate of ammonla. "soda. Patent medicines.

Marine gasolene engines. Hoists. Machinery-Saw mlils Flour milis. •• Mining (rock driils). Oil weii driiing. •• Woodworking. Electrical power and lighting. \*\* 64 Switches. Switchboards. Transformers. Stumping machines. Wringing Washing .... Grain elevator equipment. Steel pipes for oli-well pipe lines.

#### Chemicals.

Coa' tar products-Pitch. Carbolic acld. Creocote. Drugs. Tanning extracts.

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## LIST OF CANADIAN ATTICLES FOR THE RUSSIAN MARKET-Continued.

#### Articles of Consumption.

Evaporated apples in rings. Ches "sun-dried, whole or in guar- Lard	tolr products
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#### Miscellaneous Manufactures,

Leather for uppers, Chrome—Patsnt. Carriage leather. Harness " Leather belting. Boots and shoes. Belting—Balata. "Duck. Brooms and brush goods. Ceilings, metal and steel. Expanded metal (building). Metal laths. Enamelled ware. Hardware—Builders', furniture, carriage, locks. Nafes and steel doors. Fitings, steam, water, gas. Pulleys, wood split. Electrical fitings and lamps. Office requisites.

Fling cabinets. Organs (pipe). Planos. Paints. Asbestos goods. News and printing paper. Rubber footwear. overshoes. Corsets. Radiators. Typewriters. Sewing machines. Furs. Glue, fish glue, liquid glue. Handles for tools. Toois, axes, etc. Skates.

Metals, etc.

Aluminium and aluminium castings. Billets, blooms, rods, bars. Wire nails. Nickel, Graphite.

Habbit metal. Wire of all kinds. Barbed wire. Cobalt. Corundum.

LIST OF DRUGS AND CHEMICALS IMPORTED BY RUSSIA FROM GERMANY.

Acetanilid. Acetannia, Acida, Aceto-Salicylic, Carbolic, Citric, Oxalic, Pyrogallic, Salicylic powder. Salicylic Crystals Tart. Crystals and Pulv. Argent viv. (Spanish). Argent Nitras Crystals. Fused. Aspirin. Auri Chlor. Bals. Copalbæ filtered. Opt. B. F. and Peruy. Bismuth Carb. Salicylas and Subnit. Caffein, Pur, and Citras B. P. Cassia-Fistula. Cassa Lignea Quill. Carmine Pur. Caroyph. Chloral hydrate. Cocaine. Codela Crystals. Hydroch., Phosp. and Sulph. Cremor Tart, pulv. Essence Bergamot, etc. Guarana. Hydrarg. Creta Ammon. Oxid. Rub., Perchlor, Subchlor. Alcohol, absolute.

Aloes, cap, opt. Agar-agar. Animon. Bromid. Carb. Iolid. Antimon. Antipirin. Hydroquinone. Ichthyol Ammon. Iodine dry and re-sublimed. Litharge Lichen. Magnes. Carb. Levis. Menthol. Morphia, Acet., Mur. Sulphate crystals. Musk, China and artificial. Oplum, Tky., Pulv. B. P. Persian Opt. Oss Seplæ. Phenatecine Piperazine. Plumb Acet. and Carb. Potass Ccior. crystals. Pulv. Iodide, Permang. Crystals Pav. Protargol. Spermaceti. Strychnine Crystals. Sulphonal. Vaseline. Synthetic Oils, etc.

This list of drugs and chemicals was taken from a recent number of the London Chamber of Commerce Journal.

#### IV.

#### ODESSA AND SOUTH RUSSIA.

The Odessa consular district comprises thirteen governments, covering an area of 325,000 square miles, and a population estimated at forty-one millions.

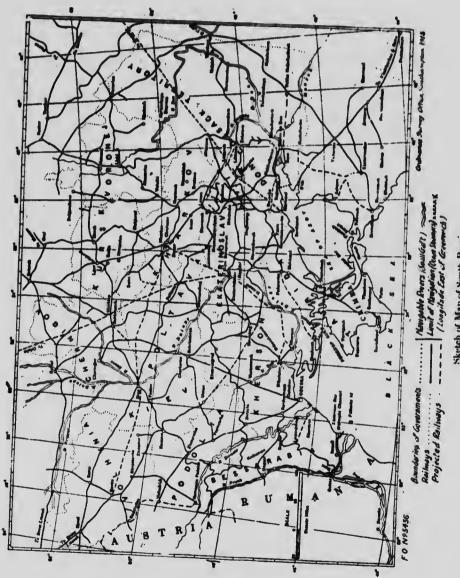
The district divides naturally into a continental and a maritime division, but the general physical aspect of the country is that of endless rolling plains, inclosing in the western parts towards the Austrian frontier and in the lower valley of the Dneiper the most important hardwood forests of Russia. Great interest attaches to the prodigal variety and richness of the local natural resources. This is the famous "black earth" region of Russia, which grows such wonderful crops. Agriculture gains indirectly by the prominence given to the sugar beet, and almost the entire sugar consumption of Russia is produced here. There is also tobacco growing, which industry is widespread, fruit of great variety, oil and the vine. The Donetz basin contains the greatest coal measures of Russia, which are being actively developed, and around which has grown up the iron and steel industry on a great scale, mainly with the help of foreign capital, with well developed engineering, metallurgical, chemical undertakings and a multitude of co-related industries. In the cast and south-east are important salt mines, the great petroleum fields and manganese deposits, the greatest in the world, and the highly mineralized ranges of the Caucasus. The largest eities are Odessa, with a population of 610,000, and Kieff, with 590,000. As to other important centres, there are three cities each with populations of about 250,000, three of 120,000 to 150,000, six of 70,000 to 90,000, and at least twelve of 50,000 to 60,000 souls. Lastly, there is the Black sea, lined with busy and growing ports, with valuable fisheries, the one great outlet of Russia in "warm" water, over which the bulk of her exports find their way abroad.

#### FOUR CENTRES FOR TRADE.

For Canadian purposes, Southern Russia is a more complicated proposition than the other great divisions already dealt with. No one city in the region can be said to serve as a common centre, as do Petrograd and Moscow. There are rather four such centres for the four districts into which the region most usefully divides—two maritime, two inland—Odessa and Rostov on the Don, Kieff and Kharkov. These points were visited. The primacy among them falls to Odessa, the chief all round port and strong financial centre, with important diversified industries, serving a fertile hinterland filled with the most progressive agricultural population which Russia has to show.

#### THE UBIQUITOUS GERMAN.

For the products, which Canada has to offer, Odessa is an excellent centre in itself, with this drawback that here more than elsewhere is the pressure of German influence to be felt. Odessa has been largely a German commercial outpost, and it has been greatly helped to this position in the past by a mistaken railway policy, now happily being corrected, which bound the town and its fortunes more closely to Austria and Germany than to Russia. One-third of its population are Jews, and there are, or were, 30,000 foreigners, mainly Germans. It is not difficult to imagine, in these eircumstances, that the imports of manufactured goods have been mainly from Germany; many of them are of the cheap and showy elass which suit such a market. The lack of well developed, regular lines of steamships with the Black Sea has acted as an additional handicap to Jreat Britain and the remoter countries.



# CHARACTERISTICS OF BLACK SEA TRADE.

The explanation in part is that the trade of the Black sea moves in one direction only, namely: outwards, and that the character of that trade, namely: staple products, such as grain, ores, etc., suit only the tramp class of shipping. The shipping statistics of Odessa for 1913 give inward cargoes of 350,000 tons and outward cargoes of 1,200,000 tons, and this is a favourable proposition compared with the other rival ports along the Black sea and Azov littorals. An analysis of these imports is interesting and will illustrate the point that is being made. Of the 350,000 tons of cargo actually received at Odessa, 200,000 represented coal; 40,000 tons fruit, oranges, lemons. etc.; 40,000 tons various raw materials for the soap, candle, chemical and other primary local industries; 6,500 tons tanning materials; 820 tons mineral pigments and colours; 820 tons white lead and zinc; 174 tons tinned iron and enamelled ware; 300 tons scythes, sickles, etc.; 550 tons hand tools; 2,370 tons agricultural machinery; 1,450 tons locomobiles and other machinery; 350 tons spare machinery parts; 150 tons paper; 4,734 tons iron, sheets, hoops and other fashioned iron.

The exports were briefly 1,000,000 tons of cereals of all kinds; 65,000 tons of raw beet sugar; 100,000 tons of timber including staves, and about 5,000,000 gallons of proof spinit.

#### IMPORTS OF FARM MACHINERY.

The Black Sea basin takes more foreign agricultural machinery than the rest of Russia. The great bulk comes from the United States in whole cargoes by ships on time charters—hitherto arranged by a Hamburg firm. The ships arrive between the months of January and March and discharge mainly in Azov ports, the goods being distributed from there.

#### INTERMEDIARY FIRMS.

Odessa is a veritable hive of agency and commission firms, which are well organized for their business. It is commonly reported, however, that an undue proportion of firms are of doubtful financial strength, and that the war is only too likely to affect the standing of many more. Caution will therefore be required in entering upon engagements for this, as well as for the general reasons already mentioned.

# AGRICULTURAL IMPLEMENTS AND MACHINERY.

A large and constantly growing trade hitherto has been done from this centre in harvesting machinery, horse rakes and tedders, in which Canadian makes have had their fair share. The peasant elass is solvent and unusually intelligent and enterprising, and the prospects are therefore encouraging. In ploughs and other simple machines, the Russian works handle the bulk of the trade. The British Consul General states that Germany had formerly done a good business in ploughs, both single and multiple, probably among the German-speaking colonies, which were founded under Nicholas I, and even earlier—and further that American and German manufacturers held the trade in seed drills and corn planters; local factories, however, were now making large quantities. Harrows of the disc pattern have met with approbation, and are being supplied by the United States and by Canadian and German firms. The better class of chaff and forage cutters come from the United Kingdom and Germany, but local factories are now turning out large numbers of an inferior quality. A good business is also to be done in pumps. Steam pumps come mainly from Germany, hand pumps from the United States and Germany.

An American Informant has supplied the following particulars on miscellaneous articles.

## MISCELLANEOUS ANTICLES.

"Post hole diggers are furnished by America and Germany, and prices vary from \$30 to \$85 per dozen. Forks are imported from the United States, France and Eng land; they range in price, according to size, from \$1.90 each to \$11.25 a dozen. There is a great demand for forks in beet culture and in digging potatoes. Hoes come principally from England and sell for 25 cents to \$1 apiece. Sprayers are furnished by America, Germany and England; the latter appear to control the trade. Forges, which are in great demand, are made principally in Russia. America, however, has been able to enter this market. They are disposed of retail for \$14.25 to \$30.75. Rakes are a profitable article of export for America, though the Germans and Swedes are doing a brisker business in this commodity. The American make sells for \$5.20 m dozen or about 57 cents each. The German makes are much cheaper. Pduning knives are in demand, Russia and Germany filling this want at prices ranging from 374 cents to \$1 each. The American knife comes much higher, retalling from \$1 to \$2.50 each. In shears, the French lead, with Germany second. American shears retail at \$6 per dozen for the 7-inch length, and \$6.90 for the 9-inch length. American siekles retail at 50 cents. English and Austrian are lower in price. American lawn mowers come at \$5.70 to \$10, according to size."

#### POWER FARM MACHINERY.

Tractors are coming into the district in increasing quantities and are used for plonghing. They should have the light American class of wheel for travelling over soft soil; the heavy English wheel is not suitable, and adds unnecessarily to the cost. Complaint is made that they "pack" the soil. A few of the "enterpillar" type have also been introduced and are quite effective.

## AN IDEAL PLOUGHING OUTFIT.

The machinery expert of a firm of English traction engine engineers, who has had experience with all kinds of power ploughs, stated that the ideal ploughing ontfit for South Russia was a 60 h.p. erude oil traction engine, and an 8 gang plough; it could be handled well by three men, and should plough with ease 10 dessiatines (27 acres) a day. A dessiatine an hour was what the Russian landowner now looked for. The steam tractor, it was admitted, was more elastic than the oil-driven engine, and perhaps better suited to the labour conditions available; the oil engine, however, had the advantage of fuel, and the fuel question, it was thought, must ultimately govern the solution. Straw for fodder is now growing in appreciation; it was previously burnt, and complaints were heard as to the waste of straw firing. Wood was too expensive, and coal, with the hunling, doubled the cost. Hauling water from wells is also an expensive item, as oxen have to be kept continually at work, especially if the water supply be at a distance.

This gentleman added that the power ploughs of a well-known Canadian maker had been used and it was now believed that plenty of them could be sold if they were handled by an efficient agent. This Canadian plough was certainly not inferior to the best American plough of that class, which was selling freely.

There is inquiry for alternative sources of supply to Germany for oil motors, gasolene marine motors, Diesel engines and pumps.

#### AUTOMOBILES.

The turnover in automobiles in Odessa has been large. The best known German and other makes have sold well. British makes were less freely offered. But the opportunity for the cheap standardized vehicle would seem to have come and the subject is already engaging the attention of well known American makers. The

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# SUPPLEMENT TO WEEKLY BULLETIN

country roads in the south are worn more evenly by the traffic than elsewhere in Russia, owing to the character of the farm wagons employed, and motor cars have therefore less to fear from the shocks of rough travelling. The rich farmere are becoming purchasers of cars, and the market therefore is distinctly widening.

# CHEMICALS AND DRUGS.

The gowing use of fertilizers shows that even the "black earth" has its llinits in fertility. The sugar regions lu the Kleff division also require large supplies of fertilizers annually. They have come previously via Riga and Libau, and also via Odessa, from Bremen and Hamburg. Thomas slag and sulphate of ammonia should interest Cauadian producers in the Maritime Provinces. For the other coal tar derivatives, carbollo acid, ereosote, pitch, etc., there is also a market.

For drugs and pharmaceutleal preparations, largely in German hands hithorts, Odessa is an Important market; the consumption has trebled in the last ten years and is valued at 3,500,000 roubles annually. Patent medicines sell woll.

#### TANNING MATERIALS.

Tauning materials find a ready market in the local industry which is large. Hendock oxtract is not used, as has been previously explained, but mainly "decolourized" extracts.

Mineral pigments and dry colours are sought, but they must be unmixed ,owing to the heavy duty.

American boots and shoes, here as elsewhere, are rapily growing in favour for town use, and dealers will be pleased to consider the Canadian article as Austrium and German products will have to be replaced. Odessa has a large departmental store, not unlike the one in Moscow, and this should serve for the general introduction of Canadian articles for the household, and along hardware lines, etc.

#### PRINTING PAPER.

News and printing paper is supplied by Finland. Better classes of printing come from the south of France, via Marseilles. The commonest newspaper costs 8 to 9 kopecks per Russian pound delivered in normal times, but is selling now at more than double that price. It is believed that direct shipments at reasonable freight rates should enable Canadian mills, favourably placed for export, to compete in the Black Sea ports.

#### TYPEWRITERS.

A cheap typwriter would suit this market. American makers of standard machines have recently arranged to put one on the market, which is identical with those new in use, but with the *de laxe* additions, which are governed by many patents and royalties. This machine is offered, in a different style, at 50 roubles under the standard article, and is already selling well. In Russia, as perhaps elsewhere, the profits of the typewriter business is not to be obtained on the machines sold so much as in the sale of typewriting supplies.

Sewing machines have come largely from Germany. The future should hold opportunities for Canadian makes. Only those worked by hand are in demand.

It is believed that the success of Canada in the Black Sea region will largely depend upon direct shipping facilities, a point which will be dealt with later.

#### KIEV.

Inquiries at this important point gave, on the whole, not greatly dissimilar results to those already mentioned in the preceding remarks. Financially Kiev is in a specially strong position. The native Russian purchasing and intermediary firms 89339-3

are energetic and well organized; the Jewish element, although influential, is not large. German competition has held a strong position in this place in the past, and German engineering and German capital had a good deal to do with equipping the great industry in this district—the sugar industry.

#### SUGAR FACTORY SUPPLIES.

This special feature of Kiev suggests that for Canadian firms engaged in the manufacture of sugar factory requirements and supplies there might be an opening here if their specialities were introduced through the right local houses. The same remark applies to the special machinery and implements used in connection with the cultivation of the beet, to which the region is so largely devoted; and there is further the markot for fertilizers, which are imported in great quantities. Considerable amounts of red and white lead are also annually required for the hundred odd sugar-making establishments, belting for transmissions, paints, etc.

#### STEEL SECTIONS.

The supply of many machinery parts and castings for sugar machinery, which require renewing, is also an item to be considered, especially the steel cutting or slicing sections, for which an alternative source of supply to Germany is much desired. Of the last named some 250,000 are wanted annually—at the price of about one rouble each.

Particulars and samples have been secured for the information of Canadian manufacturers who may be able to enter the market.

#### KHARKOV.

Nicolaieff was visited, for a few hours. This city is a flourishing port on the river Bug, a few miles above the point where it discharges into the Black sea. The city has 125,000 inhabitants. Here are the naval shipbuilding yards of the Government, where war vessels of the largest types are under construction. Openings were pointed out for the supply of the smaller electrical motors for the battle cruisers and other ships, for which Germans had originally contracted. Nicolaieff's other chief industry is the export of grain, in which the port now surpasses Odessa. Like several other ports on the Black sea, Nicolaieff has become independent of Odessa, and this circumstance explains the relatively slow growth of Odessa in recent years.

#### MINING AND AGRICULTURE.

Kharkov, the administrative centre of the coal and iron mines of Southern Russia, is at the same time the great agricultural fair centre of the south. Four important fairs are held here annually. It is a place, therefore, for supplying the varied needs of the contiguous, wide-flung, close-settled, rich agricultural regions of which the Kharkov and Voronesh governments are the best. A number of large manufacturing houses of agricultural and general machinery, hardware, etc., have their headquarters here. It is unnecessary to reiterate details of the openings for articles, which are common to other districts. In passing, however, the promising outlook for tractors, particularly for ploughing, may be mentioned, and the room there is for improvements and simplification in the construction of these machines, which may tend to make them "fool" proof. The trade is, however, difficult to finance, and requires an efficient staff of experts. Agents, therefore, look for a liberal backing from the manufacturers.

American boots and shoes are making progress, and business seems to be possiblo for the Canadian article.

The motor car habit is growing, because cars have stood the bad roads better than was expected. On the country estates they are becoming numerous.

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# SUPPLEMENT TO WEEKLY BULLETIN

#### FUTURE COMPETITION.

There was a feeling of apprehension abroad as to the outlook for Canadian and other rival agricultural harvesting machinery, after the American combine had perfected their arrangements for output. It was considered that Canada's remedy would probably be found in equipping auxiliary works in the country. possibly with the co-operation of English makers of machinery of other non-compoting types. In other machinery specialities Canadians, it was said, would do well to co-operate, and so reduce the chief and expense of entering the market. There was probably disappointment ahea for the individu 1 firm, except in rare cases. The view of one leading dealer regardin : future German competition was that it would necessarily be formidable, owing to the position which the Germans had held for years, the class of goods which they had supplied, which will also correspond to the reduced power of expenditure of the Russian peoply a ter the war, and perhaps most of all to the support of the middleman, the Jew trader who has no nationality, and whose interests hitherto have been chicfly pro-German. Allied countrics, it was stated, would require not only to be in a preferential position as regards tariff, but also ready to supply what was wanted in suitable lines. It was scarcely conceivable that the German trade position could be entirely superseded.

#### ROSTOV.

Geographical position and the enterprise and the energy of its population are responsible for the rise of Rostov, in Southeastern Russia, within the last thirty years from a straggling Coseack village to one of the best built of modern cities, with 250,000 inhabitants. It is the natural outlet of the fertile grain growing and stock raising region of South-eastern Russia, which is drained by the Don and Donetz rivers. Improvement works, including locks, on the Donetz recently completed, have brought the valuable coal measures in that river basin within reach of the seaboard, by water transportation. Three railway systems, converging at Rostov, tap the hinterland, including the Northern Caucasus. and it only remains now to link up, by a short caual, the great Volga river with the Don, a work which is to be resumed immediately after the war, to complete ideal conditions of transportation for Eastern Russia in Europe, and to add to the good fortune of Rostov.

# LEADING MARKET FOR FARM MACHINERY.

Rostov is the largest centre for the agricultural implement and machinery business in Russia. Half a mile of continuous showrooms and warehouses, which lino both sides of the handsome Sadovaya (Garden) Boulevard, filled with foreign machinery and imported goods, demonstrate the importance and variety of the trade turnover. Branches of these firms and a conplete organization of agents are maintained throughout the dependent districts. Rostov's business houses have a regular trade with Astrachan, and supply goods to the Trans-Caucasian districts, and even to Northern Persia. It is the first wool market in South Russia; it purchases and distributes the entire wool clip of the Caucasus and the merine and "Donskei" wools of the south, the last of which, the Donskei, is shipped almost entirely to the United States and Canada for carpet making.

With the steady conversion of the steppe from horse and stock raising into arable farming, the demand for machinery is constantly growing. The soil, and the general labour conditions all favour the employment of the most advanced machinery and nowhere is the use of power farm machinery more developed. Rostov houses alone, in 1914, disposed of 600-power thresher outfits, valued at nearly \$2,000,000, as against 500 in 1913. Of these, 400 sets were British, and the remainder mainly German. The terms upon which these are sold are generally one-half the cost to be paid in the first year, one-quarter the second year, and the final quarter in the third

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A great portion of the agricultural machinery sold never reaches Rostov Imported at a period of the year when the sea of Azov is closed by ice, the machinery goes to Novorosisk in the Black sea, and is distributed thence. During the summer boats drawing not more than 24 feet can enter most of the Azov Sea harbours. Don is now being dredged to that depth as far as Rostov and in the meantime me on lighters effect the discharge and loading of the larger vessels, which cannot now enter the river.

Canadian farm machinery is well to the fore, but there are openings for further eapable and reliable firms. The importing firms are, on the whole, well known to be financially strong, and they buy on open account. As a consequence a stock of machines must always be on hand, the firm paying as it sells. Credit to purchasers varies from six months to one year; heavy machinery from two to three years, payable in certain agreed proportions, with interest at  $6\frac{1}{2}$  to 7 per cent.

An opportunity has now arisen for supplying the reaper sections and the steel attachments hitherto imported from Germany in large quantities. The prices given were 41 to 41 cents each for sections, and 21 cents for the attachments. Both are duty free.

#### BINDER TWINE.

The scarcity of binder twine has been a most difficult one this year, and has seriously interfered with the sale of binder machines. The price of twine is threefold the usual price, i.e., 20 to 24 roubles per pood (36 pounds), as against 7 and 8 roubles. The Government is reported to have made contracts with an American Company for from three to seven million poods of twine, delivered in New York. Enquiry as to the prospects of Canadian manufacturers engaging more extensively in the manufacture of this article was repeatedly made.

Apprchension regarding the future of the harvesting machinery trade was general among the dealers in Rostov; the competition of United States firms was a matter of general complaint; it being felt that the war had only postponed an awkware position.

#### FLOUR MILL EQUIPMENT.

Flour milling machinery in small units is also in good demand, as well as gasolene and oil motors for operating them. The Diesel oil motor type seems to hold the market. German and Swiss makes predominate. There is an opening for a good two-eylinder motor, a cheap one to compete with the Benz make of from  $3\frac{1}{2}$  to 30 b.h.p. and also for one of the Diesel type, for larger power users. For country purposes the question of fuel is all important, coal and oil being dear and in uncertain supply Competition has been keen in Rostov in this line and at least twenty firms were carrying agencies before the war.

#### FISHING NETS.

An article in which Cauada might take an interest is fishing nets, hitherto supplied from Germany. The measurements are 25 to 75 meshes broad, made in meshes of 10 to 44 millimetres wide, of hemp or cotton of various thicknesses. Annual pur chases amount to 75,000 pieces, 160 metres each in length.

Larger nets 150 meshes broad, in meshes 16 to 57 millimetres wide. Annual pur chases, 325 tons.

#### MINERS' LAMPS.

The coal mines administration in the Donetz basin are looking for an alternative source of supply for the German-made miners' lamp which is used, known as the "Wolff" pattern. A suitable lamp of similar design burning mineral oil could be passed and adopted. The "Wolff" lamps were supplied at 3.50 to 4 roubles each.

Efforts to make them in Russia have not been conspicuously successful, at the enhanced price of 5 roubles. A sample lamp is being obtained for the Department. Thirty thousand are disposed of annually.

The previous notes respecting motor cars, leather and leather articles, chemicals and drugs, etc., may be taken as applying equally to this point.

There is, nowever, a good local demand for aluminium goods, household utensils, spirits and paraffine stoves (of the Swedish variety), lanterns, and especially for hurricanc lanterns.

#### GRAIN ELEVATORS.

Of special interest to Canada is the extensive programmo for the building of grain elevators upon which the Russian Government is now embarked. The objects in view are to facilitate the movement of the grain erops and at the same time to afford the farmer some assistance in warehousing and disposing of his crop, without the losses and sacrifices to which he is now exposed, owing to the absence of anything like adequate storage and owing also to unscrupulous middlemen.

The scheme for Southeastern Russia comprises no less than 110 elevators of various sizes, which are to be completed by 1920. Twenty-one of these elevators are to be in the Don territory, exclusive of two of 25,000 tons capacity to be built in Southeastern Russia under the Department of Trade and Finance. The Vladikavkaz Railway Company let a contract, just before the war, to a German firm for a larger elevator on the riverside, but this has now been cancelled, and the company are looking for other competent contractors for the work. One modern elevator ouly exists at present in the port. It was completed quite recently and is a suction elevator built by a firm in Dresden, but it does not seem to have been the success expected—which local report attributes to faulty construction.

Particulars of the Government elevator scheme are to be obtained in Petrograd from the Commission des Magasins à Grains of the State Bank, which is charged with the financing of the elevator programme.

# PROBLEM OF SHIPPING FACILITIES.

The problem of Car "ade development with Southern Russia on anything approaching a satisfactouppears to be largely one of direct shipping facilities between Canada and the 1 ... sea. The existing lines making connections for cargo are practically speaking, wholly indirect, and involve transhipment, either in the Thames, Hull or a Dutch port. Transhipment is always a handicap, if it does not ultimately kill trade, freight charges being thereby almost doubled. It may be urged that if a direct service with the United States has not proved possible, what chance can there be for a Canadian steamship service direct with Russia. A purely eargo service, however, does not preclude utilizing and developing the opportunities for Canadian trade at intermediate ports, and there are at least two if not three such points in the Mediterranean, which, both in going and in coming, could be made to serve that purpose and thus help to maintain a direct service with the Black sea. When investigating the possibilities of the Western Mediterranean for Canadian trade some years ago, it was found that the prospects of freight for a line of steamships were by no means discouraging, and with the Black sea now added, the position would appear to be very materially " proved. The route suggested might be somewhat as follows: Barcelona, Piræur, smyrna or Constantinople and Odessa, and a connection with Novorosisk. There might be a slight variation according to circumstances on tho rcturn voyage. Outward freight would consist of agricultural and general machinery, manufactures, dried cod-fish, wheat and flour, pulp and paper, sawn lumber, coal distillation products, pitch, carbolic acid, creosote and sulphate of ammonia, chemicals, etc.; return freights from the Black Sea, raw beet sugar, as the main standby, tobacco. hides and skins, wool, liquorice root, salt, hemp, etc., with fruits, dried and fresh and other products from the Mediterrancan.

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A monthly service at first, with boats of from 5,000 to 6,000 tons should suffice. Manganese and ore shipments from the Black Sea would be inadmissible except for tramp vessels.

#### PASSENGER SERVICE FOR EMIGRATION.

It is believed that the problem would be probably solved if it were decided to organize a passenger service, from the Black sea with Russian emigration as a basis. There is every possibility of a large emigration from South Russia after the war, and it is well known that Russian emigrants invariably prefer to travel by other than Russian ships. The line might connect with an Italian port for the same purpose and for freight. It is useful to recall here the intention of the German lines to organize a service of this character from the Levant, shortly before the war, which is not likely to be revived.

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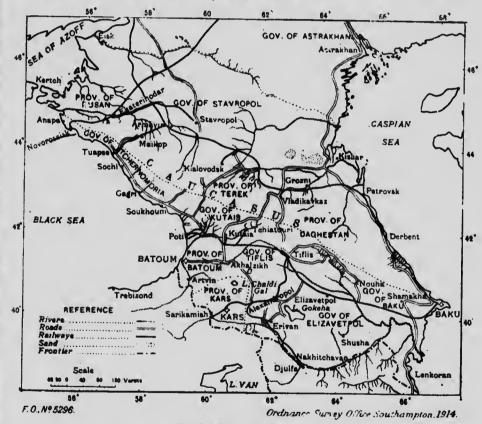
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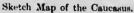
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# V

#### THE CAUCASUS.

The following notes on the Caucasus, which was not visited in person by the writer, have been assembled with the aid of the British consult of from other reliable sources. They will serve as an indication of the general position and the possibilities of that market for Canadian manufacturers.





The Caucasus region covers an area of some 250,000 square miles and is divided into two districts of unequal size: the Northern, which is the larger, with an area of 145,000 square miles, is of great agricultural importance; the Southern, consisting of the foothills and ranges of the Caucasus, with much mining, great petroleum fields and valuable forests.

#### IMPOR'S INTO THE CAUCASUS.

The chief foreign imports into the Northern Caucasus are agricultural machinery and implements. The whole trade is in the hands of foreign firms in Rostov on the

Don, who have branches in the province of Kuban and Terek and the Government of Stavropol. The bulk of these imports never see Rostov, but are shipped direct to Novorosisk, its winter port on the Black Sea, and distributed thence.

The United States possess the lion's share of this trade, but Canadian machinery enjoys a reputation, which secures for it steady growing sales. Figures of the total imports are at present unobtainable. Those, however, received from the United Kingdom alone in 1913 wero 3,500 tons of agricultural machinery, 3,290 tons of locomobiles and threshers. There were also 1,050 tons of machinery and parts, 425 tons boilers and fittings, 105 tons motors and fittings, 250 tons hardware, 15 tons leather belting, 14 tons hair belting, 24 tons crucibles, 1,040 tons Bessemer coils, steel wire, 950 tons sewing machines, etc.

#### ENCOURAGEMENT GIVEN TO IMPORTATION OF MACHINERY.

The climatic conditions of the country, which are considered the best in Russia, the extremely fertile soil, and the labour position all favour an increased employment of machinery. The local Zemstovs do everything to encourage a high standard of farming. They maintain implement and machinery stores, and furnish the latest and best implements to the peasants on easy terms of payment.

#### MOTOR PLOUGHS.

Motor ploughs are being introduced and are believed to have a great future. The chief supply of ploughs came from Russian works, but Germany and the United States have disposed of a good many modern ploughs, as well as pulverizers, machinery for small grist and flour mills, and the oil motors for driving the same, iron shovels, forks, etc.

#### OIL WELL SUPPLIES.

With reference to oil well supplies and machinery for the oil fields, the greater portion of these come from abroad and are handled by local dealers and agents, although it is understood the English companies sometimes obtain their more important machinery direct when no agency has been granted locally.

In an American Consular Report published since the beginning of the war, it is stated that "a large business is done in oil and water drills. The American rotary drilling system has recently been introduced and is rapidly becoming general; also pumps from the smallest size for household use to the large centrifugal pumps for irrigation find a ready sale, but the supply on hand is low. Grist mills, corn shellers, milling machinery, oil presses, rice hullers and dressing machines, screw cutting machinery, compressors, lathes, and belting are always in demand."

#### PROSPECTS FOR SAW-MILL MACHINERY.

For Canadians the prospects for saw-mill equipment and supplies demand special attention on account of the great future of the lumber trade in this district. The above-mentioned authority also states "there are 250 to 300 saw-mills in operation in the Caucasus, employing 3,000 men; all these are run by water-power. American circular solid-tooth saws are chiefly used."

Hydraulic motors for utilizing the power of the numerous rivers and streams in the Caucasus havo also an important future, according to the Chief Government Inspector for Factories at Tiflis, who invites correspondence in that regard.

#### SHIPPING FACILITIES NECESSARY.

The trade with this region would be greatly assisted were the direct shipping facilities with the Black sea of a more regular and satisfactory character. The only

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of direct service to Batoum from America before the war was that of the American to Levant Line, sailing under the British colours, which required improving in order to become really effective.

The British Consul at Batoum is of the opinion that with the introduction of regularity in sailings there is every likelihood of expansion of direct traffic with the American continent. It is well known that the Hamburg-American Company in the spring of 1914 set about competing for the traffic offering on this route, and commenced to run such a line between the United States and Batoum in opposition to the British scrvice in question. This project is now necessarily in abeyance. Hitherto goods have had to find their way to and from the American continent with trans-shipment at French, German or Dutch ports.

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# VI

#### SIBERIA.

#### GENERAL SITUATION.

For the purposes of trade development, Siberia falls into two separate divisions, viz.: Western and Eastern Siberia. In the western division, stretching from the Urals to a line drawn through Irkutsk, the local trade conditions and their controlling influences may be assimilated to those operating in European Russia. In Eastern Siberia, including the Trans-Baikal province, however, special geographical and economic factors tend to make this remote region one apart, and the trade of this district must therefore be dealt with by and for itself.

Siberia, as a whole, may be said to be peculiarly dependent upon foreign trade exchanges for her prosperity. The population of the country, now 13,000,000 is being constantly recruited by migration from European Russia, the net migration for the fifteen years from 1898 to 1912 having been no less than two and three-quarter millions. It is a fact moreover that the producing and consuming power of this population is relatively much higher than that of any similar proportion of the Russian people in the rest of the Empire.

#### EXPORTS.

The following figures for 1911 are characteristic of the exports of Siberian produce :--

	Poods.	Value in Roubles
Items-	(1 pood = 36 lb.)	(1 rouble=51'5 cents.)
Cereals	44,500.000	\$0,000,000
Butter	4,000,000	50.000,000
Hides		6,000,000
Wool.		1,000,000
Meat, poultry and game	2,500,000	7,000,000
Animal fats	500.000	3,000,000
Eggs	300,000 65,000	2,500,000

Of this trade the greater part must be credited to Western Siberia.

#### IMPORTS.

The following figures show the principal imports into Siberia :---

ems	(1  pood = 36  lbs.)
Dry goods.	1 100 000
Grocorics and nabernamery.	9 000 000
Fightron and steel.	6 500 000
JECTE Institutectures	8 000 000
Agricur arai machinery and implements.	5 600 000
Sugar. //	2,000,000
Chenicals and colour merchants' materials.	2,000,000
Salt	1,500,000

It is worth noting that in several of the above groups such as metal manufactures and agricultural machinery, Siberia already is but little inferior, as a consumer of imports, to European Russia.

#### HOME TRADE.

During the last ten years, the home trade of Siberia has grown from 60 to 150 million roubles annually. In the Akmolinsk province in 1911, the 105 fairs and

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markets carried on business to the extent of over 100,000,000 roubles. Trade expansion is also shown by a number of vital factors such as the carrying trade returns of the chief centres of distribution, the growth in the number of banks, forwarding houses, insurance offices, etc., and in the extraordinary activity of the building trade.

There is everywhere an increasing tendency toward intensive and advanced methods of exploitation of the chief products of Siberia. The growth of the butter and egg exports has been phenomenal, when one considers the problems of transportation and of markets. Bacon, a more recent article of export, is rapidly becoming a trade of first-class importance. The census figures of 1910 in regard to factories and their production, are significant of the general movement in progress. These statistics gave the number of factories as 14,160, with an output valued at roubles 75,000,000, an increase of 75 per cent in the number and of 150 per cent in production over the position in 1900. (The Russian roturns class as factories all small industries employing hands.) The chief increase in these establishments has been in connection with flour-mills, saw-mills, breweries, etc. Practically the entire equipment of these and similar undertakings was imported from abroad.

Apart from the agricultural wealth of Siberia, there are the forest, mineral and fishery resources, whose development presents great trade possibilities. It is estimated that one-half and the best half of the forests of Asia lie in Siberia. Four-fifths of Russia's gold output comes from Siberia. The yield there of pure gold has risen from 1,794 poods in 1900 to 2,7321 poods in 1911, and it is stated on good authority that with the completion of the Amur railway the present annual yield should easily be doubled, and this despite the restrictive character of the government mining regulations. Silver is widely disseminated, but little has been accomplished in silver mining because of the depreciation in the market value of the metal. On the other hand, copper deposits of great value have been proved, and are in course of development. Coal, moreover, exists in abundance throughout Siberia and is actively mined. The presence of iron deposits in the Steppe country and notably in the Maritime province of Eastern Siberia in juxtaposition with coal, is also an indication of the openings for trade, which the country must offer even under the present moderate rate of development.

#### VALUE OF TRANSPORTATION FACILITIES.

One of the most essential factors in the commercial and industrial development of Siberia, has been the facilities of distribution by railways and the developed water routes which are available. The whole hydrographic system supplements the trans-Siberian railway, and supplies for literally thousands of miles, north and south of the line, the most splendid means of cheap access to vast areas during the greater portion of the year. These facilities are being continually increased by the construction of new railways and by river improvement works, which are aimed at connecting the whole river system of the country for practical transportation purposes.

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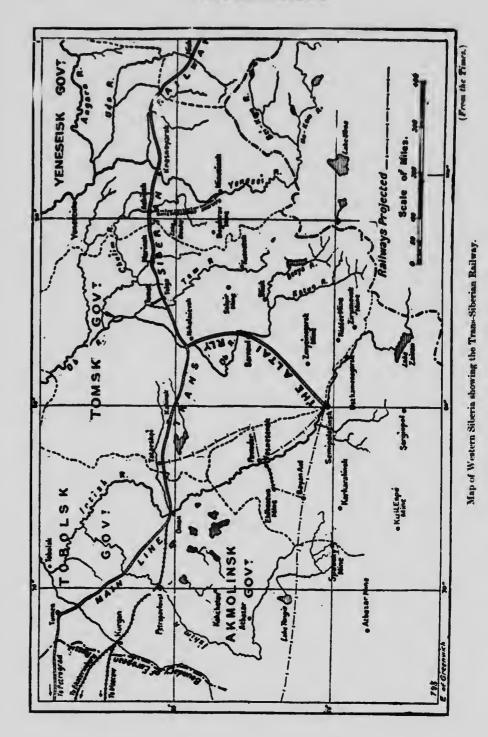
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# VII

### WESTERN SIBERIA.

Siberia being practically without manufacturing industries, it follows that there is a large and growing market for almost all kinds of manufactured articles, of which agricultural machinery and implements stand easily at the head.

In complicated machines, such as self-binders, reapers, mowees and rakes, the sales of the International Harvester Company's Moseow works dominate the position, and are supplemented by imports from the United States and Canada. These arrive via the Baltie and Black Sca ports. Ploughs are now mainly of Russian manufacture, roughly but strongly finished, all patterned after the Sack or Eckert (German) types. The walking plough is used almost entirely, combined with a sower, which drops the seed into the open furrow, the next following share covering it in. Two and three furrow ploughs of this description sell for \$17 to \$21, four to seven furrow, with seeder, \$20 to \$44. Germany has sold a great many ploughs of the better class, a trade which is now worth capturing. The shortage of ploughs in Western Siberia is already considerable, and dealers at Omsk were anxious to learn what Canadians could do in supplying the market, especially in single and double ploughs of the "Sack" type (original model or improved). Dise drills and diso harrows have become popular. In disc drills, a good article is manufactured by the large Anglo-Russian factory at Ekaterinoslaf (Ellworthys), which suits the soil conditions of Siberia. The discs are titted at small intervals, four inches instead of the usual six inches; they are also adjustable, an arrangement which is regarded as an additional advantage. In this particular the Russian dise drill is held to excel the imported article, a point to be duly noted by Cauedian manufacturers. Potato diggers are also in demand; they should be lighter than the ordinary American pattern and should be provided with a more stable delivery table. In regard to cultivators any improvement in construction which would render the teeth less liable to be clogged by weeds, would be welcomed and ensure good sales.

#### THRESHING MACHINES.

Small threshing machines, with horse gears, are used in great numbers and are generally in short supply. They are being successfully imported from Great Britain in competition with the local make. The prices at factory for the 4-horse-power size are 120 roubles; 6-horse-power, 140 roubles, and 8-horse-power, 160 roubles. Freight from factory to Omsk is about 50 roubles. Power threshing outfits come mainly from England and Germany.

#### PORTABLE ENGINES.

Of lato the competition of Germany, cspecially in portable engines, had become a serious factor. Oil tractors are preferred as the prevalence of alkaline water in Western Siberia is against the steam-driven engine. Lightness is a desirable feature; the heavy engines with their narrow wheels pack the soil and prevent growth of vegetation. Tractors of the "caterpinar" type have been introduced. A few sets of these for ploughing have been disposed of among the larger land owners and the prospects for increased business are good. The country, however, is still relatively poor, and the general use of expensivo farm machinery must be a matter of slow growth.

#### FLOUR MILL MACHINERY.

Flour mill machinery (roller process), to grind one thousand to three thousand poods of grain (600 to 2,000 bushels) in twenty-four hours is in increased demand, as well as the oil engines of the Diesel type, of from 30 to 50 horse-power, required to operate it. Extra heavy fly wheels are preferred.

#### CREAM SEPARATORS.

The rapid rise of the dairying industry in Western Siberia is responsible for a large demand for separators, which have hitherto been supplied by Germany and Sweden.

#### FARM WAGONS.

Farm wagons, built of ash, with oak hubs, in three sizes, are needed in large numbers, the old sources of supply, in the Caucasus and Northern Russia being quite unable to meet the present requirements, as Russian firms are engaged on war contracts; prices range from 75 to 80 roubles each delivered at Omsk. It is to be observed that these prices are exceptional, and not likely to be maintained in normal times. The freight charges on carloads from Black Sea ports average 8 roubles per wagon.

#### HARDWARE, TOOLS.

In regard to general hardware, tools, etc., visits to the large general stores at Omsk showed that goods of German origin arc carried, if not exclusively, at least to a surprising extent. Stocks everywhere are being rapidly depleted, and the question of replacing them is causing anxiety. In one typical store, with a business of 3,000,000 roubles a year, the following articles were noted as being urgently required: Common cutlery, skates, razors, barber's hair clippers, pumps (hand pumps especially), serew cutting lathes, stocks and dies, bolts and nuts, pulleys, valves and fittings for radiators, cleetric light fittings lamps, bell pushes and fans, meters. dynamos, leather belting, common oil burners, clothes wringers, drills and tools, files, frame saws, hand saws. drilling machines, common shovels and locomotive shovels, freezing machines, scythes, hay forks, enamelled ironware, tools of every class and builders' hardware.

#### SEWING MACHINES.

There is a promising market for sewing machines; outside of those made in Russia by a well-known American company, the greater number sold are of German origin. Supplies of the latter are now exhausted. The machines are bought on the basis of extended monthly payments. The following normal prices of these machines, delivered, duty paid at Omsk, are as follows: "Long shuttle," 17.71 roubles; "Ring shuttle," 24 roubles; "Central spool," 25.25 roubles; "Vibrating," 19.60 roubles. These prices are for machines with covers, or if without, 2 roubles cheaper. Terms are nine months' acceptance from the date of shipment, duty and freight to be paid by the purchaser.

#### TRADE METHODS.

As has been previously stated Moscow merchants control about 50 per cent of the trade of Western Siberia. These firms have branches in the principal centres, but the purchases for their stores are made in Moscow. The growth of the country and the establishment of strong local independent firms however are gradually bringing about a change and direct buying must ultimately become a general practice. Most of the foreign firms doing business in Russia pay little attention to the Siberian market and seem unaware of its importance. They are content often to hand over their representation for the whole of Russia to a single firm in Petrograd, with the result that their interests suffer. The practice of the agent is to appoint a sub-agent for Siberia,

and even supposing the last-named to be an active salesman, the fact that both intermediaries are looking for a substantial profit on any business effected, increases the cost of the article to such an extent that sales are restricted if not rendered impossible. German houses have abandoned this practice for several years. By trade grouping, hewever, and by sending regularly competent travellers, speaking the language, and earrying a full line of samples to the chief centres, they have been able to build up a direct trade on a satisfactory basis, by thus getting close to the consumer and meeting his wants.

#### EXTENDED CREDIT.

The granting of extended credit has also been an important factor in securing business in Siberia. There is little liquid capital in a country during the early stages of colonization and agricultural development. In practice, therefore, the foreign exporter must be prepared to carry on business with his own capital. Although the Western Siberian market is extensive, it is intrinsically safe, if care in the granting of credit be exercised and operations are limited to selected solvent customers.

#### TRADE GROUPING AND LOCAL AGENTS.

Financial strength to carry on trade is a greater necessity in Western Siberia than in European Russia, and trade grouping by outside firms wishing to enter that market is of first importance. While the profits are great, expenses are also high, and it is a wise policy to share them in testing a new market and its possibilities. The commercial penetration of Siberia by Germany has been remarkable. The German language casily takes precedence there for business purposes over English and French. Germany has been greatly assisted by the many German-Russian subjects, who have moved from the West into Siberia, and who possess an intimate knowledge of the country, its conditions and people and the credits that ean safely be granted to the individual, local dealers and landed proprietors, etc. Valuable agents could probably be found for Canadian purposes, as many are now at liberty to revise their positions in regard to the future. In interviews with the best of these local agents, it was urged that responsible representatives of grouped industries should visit the country and get into touch with conditions. This they thought was the only way to obtain that true understanding which should influence action.

#### AVERAGE CREDIT.

Apart from agricultural machinery, mining and general machinery, the average credit of 6-9 months from date of delivery of goods-which generally takes three months from remoter countries-might have to be faced, although it was stated a modification of these old terms might be arranged in future. There was no use in thinking of opening up business under other conditions. The trade was not cut and the cost of credit could be realized in the prices. Trial orders must not be ignored, but receive with the larger orders the closest attention. Such care would repay the exporter when once the customer had an acquaintance with his goods. Bank discounts on prime bills, three months, 6½ per cent; six months, 7-7½ per cent; nine months, 9-10 per cent, according to the character of the payers.

#### TRADE CENTRES.

The most advantageously placed centres in Western Siberia for business are: Omsk, Tomsk, Tobolsk, Novonikolaevsk, Krasnoyarsk, Irkutsk. The first and last three are situated at points where the trans-Siberian railway crosses the principal rivers of the country, which provide cheap transportation facilities over vast areas during the greater portion of the year. Omsk and Novonikolaevsk are of special importance as

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distributing centres for agricultural machinery, etc., and the Government maintain at those points agricultural experimental stations and official testing grounds for agricultural implements and machinery in the interests of the settlers.

#### FACTORS FACILITATING TRADE.

There are certain special factors at work in Western Siberia, which facilitate trade. Among them must be considered the spirit of combination inherent in the Russian peasant class, which has given birth to a co-operative movement of great importance. It is, perhaps the most promising feature of the new economic life of Russia. In 1912 there were already 22,000 co-operative associations of all kinds.

The following particulars are of interest:-

(1) The number of co-operative supply societies at the beginning of 1912 was 8,730, of which 291 were located in Siberia.

(2) Again, the dairying interest in Western Siberia is represented by a union, comprising 530 societies, with 120,000 members, who show every desire to deal only through the societies for every article of merchandise they use. The societies, however, bind themselves by their statutes to the sale of dairy appliances only.

(3) Credit associations, consisting of groups of peasants, to whom government aid is given in the shape of credit on the joint responsibility of the group, exist in large numbers and are multiplying in the newer districts, as they are opened up and settled.

(4) Finally, there are the official agricultural machinery and implement depots in nearly 300 centres of Siberia (220 in Western Siberia), which advance farm equipment at low prices to the poorer settlers, on easy terms of payment.

# VALUE OF CREDIT ASSOCIATIONS.

In regard to agricultural machinery and implements, the effect of the facilities offered by these aids, coupled with the policy of the International Harvester Company of Moscow, has been to cause many wholesalers to withdraw from business. While this is perhaps regrettable, in a sense, it has its compensations for the manufacturer who by selling to the credit associations, is on safe ground. His rate of profit, it is true, will be diminished, but in view of the probability of a larger turnover, the aggregate profits should be greater, as the consumption of agricultural machinery must inevitably rise with the growth of settlement and the increased prosperity of the settlers. The shorter credit demanded by these associations enables the manufacturer to work with a smaller capital. The strong point about the credit associations is that they possess the local knowledge, which enables them to sell to the "right" people and, most important of all, they possess the means of securing a relatively quicker liquidation of debts and of enforcing payment in doubtful cases, by tactful pressure through their members. Their losses from bad debts are said to be practically nil. The wholesaler, on the other hand, has still the best class of farmers with whom to trade, and in practice, prices do not fall below a figure offering a reasonable profit. This has been demonstrated in the business transacted by the official agricultural depots, which are finding by experience that the cost of administration, and average losses, will not permit them to sell at the low prices originally fixed. Their competition, therefore, has not been the ruinous one which was predicted at the outset, and time and circumstances will tend to equalize matters for all. The credit associations by their statutes are wisely limiting their dealing to a small number of articles, and the general merchant thus relieved of a portion of his business, which caused him anxieties and often losses, is left with the supply of the general requirements of his clients of the peasant class.

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### SUPPLEMENT TO WEEKLY BULLETIN

#### OFFICIAL MACHINERY DEPOTS.

Particulars of the operations of the Co-operative and Credit Associations are not available, but those of the official agricultural machinery depots were furnished by the director of the Colonization Department at Omsk.

The Imperial Department of Agriculture maintains in Siberia agricultural implement depots for the supply of machinery and other articles to the poorer settlers on easy terms of payment. There are between 250 and 300 of these depots in operation, and the total sales have grown from 4,500,000 roubles in 1910 to some 7,500,000 roubles in 1913. The depots had machinery in stock at the end of 1913 to the value of over 5,000,000 roubles. The character of the turnover of these depots can be seen below in the list of sales effected during 1913.

The sales are generally made on the basis of payment of one-half of the value of the article acquired during the first year, the remainder being paid off in instalments according to the ability of the settler, which is governed by the result of the harvest he reaps.

According to a return issued by the Imperial Colonization Migration Commission. only 21 per cent of the debts contracted by the peasants at the depots between 1897 and 1907 remained still unpaid at the close of 1913, and the percentage owing on the sales at that date for:--

																					Per cent
1909	Was	••	••	••	••	• •	••	•••	••	•••	••	•••				••	• •				6.2
1910		•••	•••	• •	•••	••	••	•••	••	••	••	••	••	••	••		• •	• •	••	••	11.6
1912															••						20.4
1918															••						28.6
	••	••	•••	•••	••	••	• •	••	••	••	••	• •	••	••	••	••	••	• •		••	56.9

It will be seen, therefore, that the extinction of debt proceeds on what must be considered satisfactory lines, the actual loss due to non-payment being relatively negligible when the total turnover is considered.

STATEMENT OF SALES OF THE GOVERNMENT IMPLEMENT DEPOTS IN SIBERIA IN 1913.

	Number.	Value. (Roubles.)
Single ploughs	35,794	832.544
Double plought.	4.198	188,460
Ploughs and seeders combined	1.934	131.085
Cultivators.	497	24.084
Harrows.	1.010	25,330
Broadcast seeders.	264	32.001
Broadcast seeders and also drills.	473	68.524
Mowers.	2,955	429.477
Hay rakes.	2,962	
Reaping attachments.	1.206	185,341
Russian reapers.	3.023	29,549
Reapers (others)		507,465
Binders.	8,104	589,648
Factory made threshers with horse-power	1,150	454,857
Threshers (hand power), (home-made)	1,234	721,181
Winnowers and cleaners	1,845	409,289
Grain sorters and creaters	6,205	240,434
Grain sorters and separators.	347	83,529
Mill stones (sets)	576	46,169
Flax, hemp and cotton carding machines.	154	21,696
Chaff cutters.	374	14,830
Beating machines for flax and hemp	68	4,468
Hay presses.	15	2,845
Oil pressing machinery		34,949
Cream separators	343	28,453
Churns.	173	4,571
Wheels (wagon)	1,514	24.870
wagons	2,891	268.565
Fire engines (pumps),	45	12.113
weigning machines.	454	17.919
Sickle and scythe grinders.	1.801	23,677
AICS	7.218	7.232
Forks	3,271	1.811
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STATEMENT OF SALES OF THE GOVERNMENT IMPLEMENT DEPOTS IN SIBERIA IN 1913-Con.

•	Number.	Value. (Roubles.)
Shovels	1.362	627
	3.939	2,512
Scythes	24.159	73.497
Lubricating oil.	2.539	18.689
Various cleaning machines	7.109	4.528
Textile articles.	12.626	5.399
Wire and sinc sieves	22.005	27.711
Beiting (leather)	21.053	18.362
" (woven)	214.193	567.976
Roofing sheets of iron and steel	18.254	165.606
Binder twine (poods)	305.057	109.424
Tarpaulins, sacks (number)		51.401
Grain and other products	53,675	
Seed grains		123,265

#### 1913-Con.

#### Roubles.) 527 512 497

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# VIII

### EASTERN SIBERIA.

From Irkutsk eastwards, the continuity of Russian territory to the Pacific suffers by the intrusive mass of northern Manchuria, which thrusts the frontier far to the north. The trans-Siberian railway is thereby forced to take a circuitous route in order to reach the coast over Russian soil. This portion of the line (the Amur railway, now all but finished) will open up rich agricultural, mineral and forest regions. The direct communication with Vladivostok is across Manchuria by the Manchurian railway, which is leased by and under the military control of the Russian Government.

Eastern Siberia has a population of nearly two million, the greater part of whom are located in the Maritime and Amur provinces. Systematic colonization, under Government direction, has already done much to create the foundation of permanent settlement, which must precede any successful opening up of the country's natural resources.

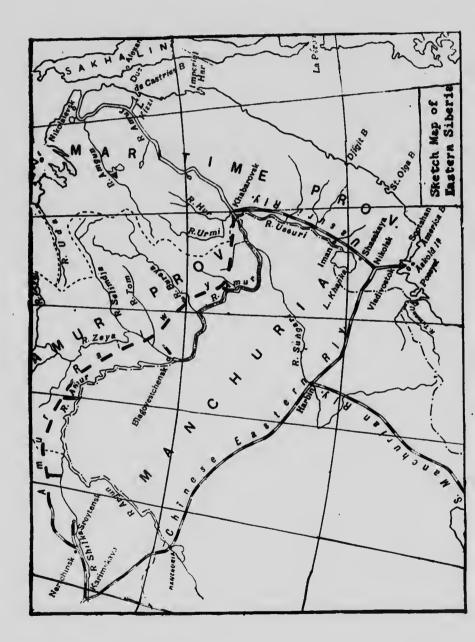
Geographical position is also largely responsible for rendering the trade position in Eastern Siberia subject to foreign influences, by way of the Pacific coast, to a degree unknown in any other part of the Empire. These influences, hitherto chieffy European, and German at that, may be expected to undergo chages and will be supplemented by North American contact, notably from the eastern, industrial portion of that continent. This is made possible by the opening up of the Panama canal, the new economic factor, which Canada enjoys on equal terms with her American neighbour.

#### VLADIVOSTOK.

The harbour of Vladivostok was crowded with vessels some of as much as 18,000 tons, which had passed through the canal. The significance to Russia of the port of Vladivostok during the last twelve months has attracted much attention to Eastern Siberia, and to the trade opportunities in that market. The interest thus aroused is not likely to disappear at the close of the war. The Russian Government moreover has made provision for the improvement of Vladivostok, and of other ports on the coast, and for steamship intercommunication, including a service on the Amur River. The relatively liberal tariff policy in force in Asiatic Russia, where the duty-free importation of a large range of articles is permitted, presents another favourable feature for trade. The Imperial Railway Administration have also recently agreed to put into force, at the end of the war, reduced through rates on merchandise shipped on through bills of lading via Vladivostok to points in the interior.

#### SPECIAL TRADING FEATURES.

The special features of the trade of Eastern Siberia are its detachment from exclusively Russian influences and traditions, and its concentration in a relatively small number of strong firms, technically Russian. These firms have a strong foreign outlook, owing to the geographical situation, and they conform generally to foreign business methods. The largest of them are in the nature of departmental stores, with headquarters at Vladivostock, Nikolsk, Nikolaevsk, Blagovestchensk, Zeya-Pristan, Stretensk, Nerchinsk. Tchita, Irkutsk, etc. They all do both a wholesalc and retail trade, and act frequently as contractors for large undertakings, public and private, of a varied character. Their financial strength is unquestioned. These firms are supplemented by foreign firms carrying specialities, required for the development of 89339-44



the country's resources, and also conducting a general import and export trade on a commission basis. Many of these latter were German and have now been closed up, and it is for enterprising firms of other countries to :cplace them, and their activities.

#### RANGE OF IMPORTS.

A survey of the range of the imports in 1909-1911 at Russian Pacific ports is applied by the statistical table which will be found in the appendix. It should be added that the trade in 1913 was on a much more extended scale, but the figures aro not yet obtainable.

Interviews with the leading merchants, and an inspection of the larger departmental stores, seemed to indicate encouraging prospects for Canadian trade, provided business be handled along the lines which have been already suggested. Stocks of imported articles were everywhere low and the necessity of replenishing them was urgent. The old (German) sources of supply being stopped, there is every desire to trade with allied countries, which are able to supply the market with alternative products, and the present time, therefore, is undoubtedly opportune for investigating the position, and creating the organization for closer intercourse in this section of Russia.

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#### SUGGESTED OPENINGS FOR CANADA.

The progressive settlement of Eastern Siberia must ensure a growing demand for agricultural machinery and implements, and for dairying appliances, flour mill equipment, ditching and stumping machines, pumps, etc. Stocks, however, must be carried at the chief centres so that the local dealer can display them. The Colonization Department is the largest buyer for the official depots, which are maintained in the country in the interests of the settlers. Saw-mill machinery, hitherto mainly obtained from Germany, is an article that has a great future if well pushed, as increased attention is being given to the exploitation of Siberian forests. Lumberman's tools could also probably be introduced with success. The largest firms operate free technical advisory bureaus which help in the selling of all kinds of machinery. Hand tools have a large general sale; machine tools are only used for industrial establishments and Government works. Small hardware has been monopolized hitherto by Germany, but certain classes of American hardware are now firmly established, such as locks, hinges, butts, etc. In axes and hetchets, the American axe is preferred to the Russian model. Japanesc manufacturers are actively canvassing for business and samples of their goods are being offered in every direction. In many of these samples the quality leaves much to be desired, and although prices are low, it is doubtful on the whole, whether this competition will continuc. A collection of samples of various staple articles is being obtained, to enable Canadian manufacturers to look into the question of producing a line of goods as regards use and price, suitable for the East Siberian market.

# MISCELLANEOUS MANUFACTURES.

The activity of the building trade and the character of the buildings suggest openings for certain Canadian specialities, including metal ceiling plates, metal laths, galvanized corrugated culvert sections, electric fittings and fans. Moreover, light iron shovels, suitable for the coolie labourer, and miners' shovels of a local pattern are needed. Another article for which there is a market is steel carriage axles. Cheap iron bedsteads, strung with a wire mattress, supplied hitherto by Germany, is in considerable demand and in short supply. Sewing machines, which came from the same country, are wanted, as also are domestic labour saving appliances, such as wringers and washing machines, freezing machines (Swedish) and ice-boxes (refrigerators). Germany previously supplied the better class with cooking stoves of an American model which are still required. Light enamelled ironware is also purchased in large quantities.

The cheap piano (upright) came from Germany but might now be replaced by Canadian makes. For pipe organs there is no demand.

Wire, barbed wire, wire nails, are all to a large extent imported and the Canadian article is favourably known; bolts, nuts, and rivets are also considerable items. Radiators and fittings were imported by German agents, who kept a skilled staff for their erection.

#### LEATHER GOODS.

Leather for footwear purposes should find a good opening, although the same cannot be said of carriage leather. The former should be packed in small bales to avoid damage in transit, and the hides should be stamped in indelible ink, with the maker's name and with the quality of the hides. Light boots and shoes for town wear are in demand and the American shoe is gradually superseding those of German and Austrian manufacture. White deerskin shoes, moreover, for summer wear and other varieties with white canvas or drill uppers and deerskin sole have also been lately introduced and are good sellers. Purchasers would be pleased to hear from reliable Canadian manufacturers.

#### PRINTING PAPER, PAINTS AND DRUGS.

The news and printing paper business is unfavourable for Canada owing to the high duty and the competition of the Russian mills in the Urals.

There is a good demand for dry colours and for paints, which must be unmixed, the importers having their own mixing mills. Dry copper oxide is an important commodity, which comes mainly from France. It is used for painting roofs. Red and white lead, zinc white, acids (sulphuric, hydrochloric, carbolic), creosote, carbonate of ammonia for aerated water, the chemical ingredients of cxplosives, and calcium carbide are also saleable in Russia.

The usual range of drugs are in great demand, and these it was pointed out should be supplied in "flakes," and not in "crystals."

Tanning materials (e.g., hemlock and chestnut), etc., are also wanted.

#### THE FRUIT MARKET.

With regard to fruit, the importing houses in Vladivostok spoke encouragingly of the opening for fresh apples and pears from British Columbia, and for evaporated apples in rings and quarters. Canned (gallon) apples should also sell. With the assistance of the regular steamship service, maintained by the Russian Volunteer Fleet, with Vancouver, a satisfactory trade in fruit could probably be built up. The market lies in the urban centres in the Maritime and Amur provinces. These districts are too remote from Turkestan and the Caucasus, whence Western Siberia draws its fruit supplies.

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#### TRADE METHODS OF COMPETING COUNTRIES.

The main characteristics, conditions and currents of trade with Russia have been outlined in so far as they are considered to be of special interest to Canada. A concluding note may be devoted to a review of the various trade methods which have been adopted by leading competing countries in regard to Russian trade, and also the possible alternatives for Canadian manufacturers and exporters who desire to obtain a share of this trade.

The principal countries from which Russia derives her imports have been Germany, Great Britain and the United States.

#### GERMANY.

German manufacturers, after due trial, have abandoned the practice of establishing branch houses in Russia; it proved unprofitable. They subsequently took up and developed the intensive working of the market with travellers, who covered not only the chief cities like Petrograd, Moscow, Riga, Kieff, Odessa, Rostov-on-Don, etc., but also the larger provincial towns. These travellers carried elaborate collections of samples of a wide range of articles, representing often different industries, and, above all, catalogues printed in R. stian with prices set out in Russian values. They quoted f.o.b. Russian port or a Russian frontier station, and were ready to meet the provincial wholesale dealer and the local stores by quoting similar terms with duty paid. and, if pressed, including delivery at the local station. As a further accommodation they conceded extended credits to suit the individual customers with the support of the German banks. German success in Russia was much helped by their ability to supply cheap articles for a market consisting so largely of a peasant population, who are anything but fastidious. Moreover they were also able by the circumstances of their competition and the clever adaptation of business methods to secure gradually the Russian market for better class articles.

#### GREAT BRITAIN.

Twenty years ago Great Britain practically monopolized the Russian market in manufactured articles, but she has since been overtaken by Germany owing to the disinclination to allow the long credits given by that country. Ultra-conservative methods of business and unwillingness to quote in Russian currency and weights and measures, or to follow the German example of quoting delivery at frontier with duty paid, hampered progress. It is said that the use of travellers in order to keep in touch with customers was neglected, and that British manufacturers declined to entrust their interest to export merchant houses. Thus the direct business became limited to the largest dealers in the Russian centres, and it might be said that the business Great Britain was doing in Russia until recently was due largely to the fact that British goods were actually demanded by customers, and not to their being actively pushed. Evidences of a salutary change in this regard are now at hand. That British trade with Russia is still as large as it is should be taken as a tribute to the intrinsic excellence of the goods supplied.

# UNITED STATES.

The methods employed hitherto by United States manufacturer have been one of the two following:--

Either to appoint a sole celling agent for Russia and Siberia, or to entrust their export trade to exporting merchant houses in the United States and Hamburg, this second method appearing to be most in favour. United States manufacturers have obtained better results with the Hamburg firms than with those in the United States as the former worked Russia somewhat intensively with travellers along the German lines, indicated above. For the American house thus relieved of Russian credit risks the business was easy and convenient, but it was necessarily of restricted proportions, the growth of which the manufacturer could not influence. Moreover, the advantage was not derived of the high prices obtained in Russia. The chief concern of the German firm was to give his Russian customer a wide choice of goods from all countries, as this ensured sales, and therefore he had no special reason to push the articles of any particular firm. Like his English colleague, the United States manufacturer was opposed to the granting of long credits and as a consequence the market was left to the German, who constantly improved his position.

#### THE ALTERNATIVES FOR CANADA.

Having regard to these facts, and in view of the new position that has arisen whereby German competition has been largely eliminated, it is of interest to inquire into the possible methods open to Canadian manufacturers proposing to share in Russian trade. They may be stated as follows:--

1. By correspondence. Business may be done in this way, but it can hardly be recommended as satisfactory. Correspondence would have to be in Russian or French; catalogues printed in Russian would be indispensable, with prices in roubles c.i.f. Russian port or on railway car, i.e., including sea freight and duty.

2. Through export merchant houses, Canadian, American or English. Business may be obtained in this way, the advantage to the manufacturer being that he takes no credit risks. The disadvantage on the other hand lies in the higher price, which is quoted to the Russian wholesaler, and the fact that the export house, as a rule, represents more than one manufacturer making the same articles, and is thus not particularly interested in any one manufacturer. This plan of action is only of interest to the manufacturer, who has no particular aim in increasing his Russian business and who wishes to avoid the risks and trouble which a more profitable but direct business would involve.

3. By appointing Russian firms, or available local British firms as agents. This is undoubtedly a much more satisfactory plan than the export house. First, because the prices to wholesalers will be less, and consequently the volume of business will be greater, provided always a solvent, energetic firm of agents be found. Agents are of two kinds:—

(a) Those who work on a commission basis, some of whom are ready to undertake a full or partial guarantee of accounts for a corresponding additional commission.

(b) Merchants doing a wholesale business who take the financial risk and quote such prices as they think necessary.

There are many such agents in Russia. Before the war, the majority of the more desirable already represented manufacturers and were not free. It is believed that now the difficulty of securing suitable representatives may be overcome, although a great m ny of the best agents, who were of German nationality, have left the country.

4. A resident representative of grouped industries co-related but not intercompetitive, or of industries making similar articles, which have agreed to pool orders for the Russian market. This plan of a trustworthy Canadian representative equipped

with a technical knowledge and business experience of the articles he is to introduce, offers perhaps the most satisfactory solution of the problem. While the initial expenditure for such a representative would be large, by being shared it would fall lightly on the individual firms interested. After the arrangements for agoncies in the centres had been made, and were in working order, a periodical supervision at longer or shorter intervals should then suffice. There are two examples of this method in Russia which are working satisfactorily, one American and the other British. The former represents a combination of hardware and tool manufacturers for export, which included at the outset twenty firms, and has since been increased to sixty-two co-related firms. The organization is financed by a prominent New York banking house, to whom all payments by their agents in Russia are made. A representative visits annually the fifteen centres at which the combine maintain their agents, who are mainly merchant houses buying on open account and not on commission. The British concern referred to handles, in addition, general machinery, and maintains their local representatives, who are Russian-speaking Englishmen having a technical knowledge of engineering.

#### DISTRIBUTION OF FOREIGN IMPORTS.

The distribution of foreign imports into Russia is entirely in the hands of two or three classes of wholesale mcrchant houses, all of which are grouped in a few of the chief cities such as Petrograd, Moscow, Riga, Kieff, Odcssa, Rostov-on-Don, etc Moscow is pre-eminent as a centre of this character, and it is hardly an exaggeration to say that nearly fifty per cent of Russian foreign imports are handled directly or indirectly through that point. The general character of the imports handled by Moscow are of a class which appeals to a peasant market, and are represented by the cheaper qualities as against the business transacted from Petrograd, where the trade is of high standard and where Government purchases and contracts are exclusively settled for the whole empire. In the first instance, there are then in these large cities wholesale merchant houses, which employ travellers who work the surrounding provinces. The orders as received are combined and transferred to the foreign manufacturers concerned, the merchants themselves carrying very little stock. Wholesale houses in the provinces are few in number and of relatively small account. The wholesale dealers referred to, sell direct to the provincial retailers. The selling firms in question belong to the class which offers exclusively the goods of the foreign manufacturers they represent.

Another class of wholesalers have no travellers, and rely upon catalogues; they have their regular clientele throughout the provinces, mainly refailers, who effect their purchases by correspondence or in person, when they visit the various centres.

A few other firms have their branch houses in different towns in Russia, which send out travellers in their respective district to deal directly with users, but these firms specialize as a rule in a few lines. All wholesalers do a large retail trade with users of goods, such as factorics, railways, etc.

Travellers for the provinces carry ample collections of samples, together with catalogues. Their catalogues are of two kinds; some houses issue only a retail catalogue, and sell at these prices, less a certain discount; whereas others publish and issue a wholesale catalogue only at net prices to provincial dealers, these wholesale catalogues being restricted to the trade.

As regards forcign goods for Siberia, the trade is controlled largely by Moscow firms, who send out travellers to the main points only, if at all, and usually have one sub-agent or buyer stationed at Omsk, which is the chief centre for Western Siberia. The rapid development of Siberia, however, is leading to the establishment of independent local wholesale houses of undeniable financial strength which do both a wholesale and a retail trade, and deal directly with foreign manufacturers without intermediaries in Moscow; this is a factor to be duly noted and catered for.

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The Far Eastern business, namely in the Trans-Baikal and the Amur region, is in the hands of a few firms with headquarters at Vladivostok. It is quite a specialized business, and not touched by the ordinary Russian houses. These firms do a large trade with their magnificent stores and well-organized wholesale departments, sending out travellers who cover the whole of the Far East. Two of the largest, Messrs. Kunst and Albers and Mc rs. Tchurin & Co., have each a purchasing house in Moscow, and the former also a house in London. It is recommended that Canadian manufacturers on the grouped plan should be represented in Vladivostok.

# CREDITS. CONDITIONS OF PAYMENT.

In Russian dealings the question of credits is of great importance and calls for careful investigation. The Russian wholesaler is compelled to allow his customer credit in practically all lines. This credit period varies, and may extend up to twelve months. A cash payment c.o.d. of say up to twenty-five or thirty per cent is the general rule. In most cases, however, the wholesaler is satisfied if his client will pay railway freight and expenses to destination, although he usually tries to insist on a c.o.d. payment to cover his own outlay for sea freight and duty. For this reason Canadian manufacturers should be prepared to grant liberal credits to dealers in order to do business, say for seventy-five per cent of the cost at factory. They should endeavour to sell f.o.b. Canadian or United States port, to which dealers will generally agree, the dealers paying freight, insurance, etc. For the balance in question it will be found that credit should be given for three, six, nine or twelve months, according to the article and the respective customer. Thus the foreign manufacturer is asked to help to carry the trade, for the majority of the wholesale dealers have not sufficient capital to pay for their imports until the ultimate users of these goods, in the main the peasant consumer, is able to discharge his obligations to the retailer, which he can only do after the gathering of his crops. As has been seen, the German houses were assisted by the co-operation of the banks in meeting the situation. Careful investigation of the credit position of wholesalers is therefore of unusual importance even in the case of the large buyers. In this connection, the position of Jewish firms should receive attention having regard to the special disabilities under which members of that race labour in many respects in Russia. Jewish firms, however, are to be found more in Western Russia at points like Odessa, Kiev, Warsaw. etc., rather than in the interior of Russia.

It should be observed also that the commercial law in Rusas still in a formative stage; the recovery of debts is surrounded with difficulties. Ind procedure in the Russian courts, while just and sure, is slow, but a good deal is and may be effected by tactful pressure and compromise. An excellent bankruptcy Act has been framed and agreed upon, and will undoubtedly be very soon placed upon the statute-book. On the other hand, sales made on the plan of payment by instalments are to be considered safe, and are generally adopted in cases of transactions for machinery, etc., which remain the property of the vendor until the last cent has been paid.

The building up of an export trade is at best a slow process, and new-comers in a market like that of Russia will have to proceed warily and restrain their optimism. But there is no question that with ordinary caution and judgment it should be possible for them to make solid connections, and develop gradually a staple and profitable busines. 1 the Russian market in some of the very many lines of supplies which are indispen ... ole to the Russian people.

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# APPENDICES

Certain additional information on various subjects of interest to Canadian trade and commerce has been assembled in the course of this inquiry with the assistance of Russian trade experts and from other sources. To this information and to the tables of statistics of Russian trade which are appended, the attention of interested persons is specially directed.

# APPENDIX A.

# RUSSIAN MARKET FOR HARDWARE SPECIALITIES.

Although there is a number of factorics in Russia making hurdware of all kinds, as well as many peasant industries, etc., producing hardware by handwork, the total Russian production is small compared with the demand, with the result that Russia and Siberia offer an almost unlimited field to foreign manufacturers, who have been supplying the country with roughly 75 per cent of its requirements.

The principal lines are as follows :---

#### BUILDERS' HARDWARE.

Of the heavier kinds, such as stoves, window and door hardware, etc., the bulk is manufactured in Russia, and there is consequently very little scope for the foreign manufacturer. The lighter sorts of builders' hardware, such as various fittings, hinges, locks, door checks, etc., have been largely supplied by Germany, although a considerable proportion of this class of goods is of American origin, such as Vale locks, special locks and door checks, the business having hitherto been mainly handled through German firms in Hamburg.

In the industrial district around Moscow there are some factories and many thousands of persons doing handwork and manufacturing, for instance, stoves, stove fittings, doors, as well as the heavier kinds of hinges and the more simple forms of locks, door bolts, etc., which make it difficult for foreign countries to compete successfully. It is probable, however, that Canadian builders' hardware, even of the heavier kinds, could be sold in Russia, provided prices be reasonable. During the last few years there has been a great improvement in Russian building methods, better fittings are being used, larger houses are being erected, and more money being put into them than formerly. Another point is that the Russian climate more nearly approaches the Canadian than that of the rest of Europe, and although there are many differences in the habits of the people of Russia and of North America, yet the result is that the requirements of Russia are often similar to the American. At the same time it should be borne in mind that Canadian builders' hardware of the heavier kinds is under a certain handicap in comparison with that from the continent of Europe, owing to the types and designs being different in many instances. In this connection windows might be mentioned. In Russia they invariably open inwards, i.e., of the casement type, being double, whereas in North America the majority of the windows are of the up and down sash type. There is therefore no demand in Russia for sash

locks, balances, pulleys, etc., what is required being a metal rod, flat on one side, extending from the bottom of the window half up, and there attached to a knob, with another similar rod attached to the knob extending to the top of the window, so that when the knob is turned the lower rod is pushed downwards into a socket fixed to the window ledge, and the upper rod is pushed upwards into another socket.

#### BATHROOM SUPPLIES.

To take another in portant line, bathrooms and closet supplies, the general tendency in Russia is not a last few years has been for better and improved equipments, and in the best is fidings these fittings are usually of the white enamelled type. A large trace may therefore be done, and so far this has been more or less in the hands of the may therefore be done, and so far this has been more or less in the hands of the may therefore be done, and so far this has been more or less of hardware as a rule may together with washing-stands, baths, plumbere' fittings, etc., and the dealer supply and be latter usually obtains the order for the baths and bathroom equipment the end of the hit' rise ported small quantities, but should be able to do a larger trade. If is at  $r_{i} \to r_{i} \to \infty$  to that one reason why Germany has been so successful in the line is a it of Russian manufacturers of baths, plumbere' fittings, etc., have been of thermal according and origin, and have therefore naturally been inclined to obtain heir equipment and fittings from Germany.

# TOOLS AND CUTLERY.

It may be said that hitherto Germany has monopolized 80 per cent of the Russian import of these articles, owing mainly to the cheaper prices at which she has been ablo to sell. The manufacturers in the largo German manufacturing districts of Remscheid and Solingen for instance havo had a strong organization of travelling salesmen visiting Russia, and have furthermoro published catalogues printed with all prices made out in roubles, delivered duty paid at frontier station or port, and usually there has been included a list of railway freights from such station or port to the principal towns in Russia and Siberia.

Amongst the various lines included in this section of hardware the following of importance are worthy of special mention:-

#### SAWS.

There are comparatively few saws manufactured in Russia itself, thus leaving the trade in this most important line almost completely open to foreign countries.

Hand saws, hacksaw blades and such like, have hitherto been almost exclusively supplied by Germany, but it is probable that Canada could do a large business therein and also in the better kinds of cross-cut saws, provided arrangements could be made for experts to demonstrate same and explain them to customers, especially to the lumher companies, who are 1 rge consumers of theso kinds of saws. It may be objected that this would entail considerable expense, but it would be sufficient for manufacturers to get into touch with a few of the leading lumber and saw-mill concerns in the North Russian Caucasus, Ural and Siberian timber districts. If the saws were introduced to them with the help of experts, it should lay the foundation for future business, as some of these companies consume large quantities of these saws annually. It might be added that England does a good trade in cross-cut saws, some of their saws being popular in Russia.

#### MACHINE SAWS.

As regards machine saws, for woodwork, it should be mentioned that the American-made are superior in quality and design to anything produced in Europe, but that at the same time the prices aro sometimes two and two-and-a-half times higher that

those of other countries. On the other hand the usual method of setting saws in the United States is to swage the teeth, instead of setting them at an angle (spring-set). Some firms have already done a good amount of missionary work in introducing American swaged saws, and a number of the mills have of late shown an acknowledged tendency to change all their saws for the swage type, many of them being prepared to pay the difference in the prices of saws. It should be added that the quality of steel of swage saws is much superior to that of spring-set saws. At the same time, however, the mills will have to be taught how to use these special saws, and what is more important still, how to use the special tools used for swaging the teeth. As it is, the mills are somewhat afraid to use the tools, not properly knowing their use.

From the foregoing it will be seen that in order to bring about the universal use in Russia and Siberia of American saws missionary work must be done, and when their use has been well shown and taught, their sale could be switched over to the dealers, who would then carry stocks, whereas it is impossible to persuade the ordinary Russian dealer to stock an article for which there is not at least a good demand.

As regards saws for metal cutting, there is very little to be done, at any rate through the dealers, as although there is a considerable number of circular and band saws used in Russia, machine-driven, the types and sizes are so various that hardly any can be stocked. It might be added that the demand at present is small, although there are indications of its growing.

#### HAMMERS, HATCHETS AND ANVILS.

The majority of the hammers, hatchets and anvils are manufactured in Russia, but a number are imported, many being supplied by America, i.e., those required for special purposes or of the finer grades. There is a fair opening in Russia for this line, but prices should be kept low to do a reasonable amount of business.

# LEVELS, RULES, TAPE AND STEEL LINES.

The majority of levels, rules, tape and steel lines are supplied by Germany. but as they are also produced in North America, manufacturers should be able to do a good trado therein, the main reason for their non-success hitherto being the high prices demanded.

#### MEASURING TOOLS.

Measuring tools, such as calipers, micrometers, g. uges, taps, et ., are handled in Russia both by hardware dealers as well as by machine tool dealers. Both kinds of dealers have been handling both the cheaper German measuring wolls as well as the more expensive American. It may be said that the sales in American fine measuring tools are important, and that not much can be done to increase the turnover.

A number of wrenches and screw-drivers of American manufacture are sold in Russia, and are very popular, especially monkey wrenches, such as Coe's, Stillson's, bicycle wrenches, etc.

#### FILES AND EASPE.

There are two factories in Russic making files and rasp, i.e., the Putiloff in Petrograd and Thomas Firth, in Riga. A large number of files are also imported from abroad, and up till a few years ago the English files were considered the best on the Russian market. Not long ago the Americans started to sell files also, and owing to their excellent quality these files have now become very popular, the only trouble being that the American prices are high, even higher han the English. The result is that the majority of the American files sold are  $e^-$  the maller sizes, the larger being bought either of Russian make or supplied by Eng. ad particularly the former.

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#### VISES.

The heavier together with the plain hand and bench vises are made in Russia, but the cabinet-makers' vises as well as the fine vises of the smaller sizes are largely imported from such countries as can produce them at the cheapest prices. As regards vises for machine tools, most of these are received together with the machine tools themselves, and go direct to the consumer. At the same time the hardware dealers stock the more poplar sizes, and these are bought from the machine tool manufacturers, and as a rule are such as can be used on any make of machine tools.

#### CUTLERY.

Large quantities of cutlery are produced in Russia, and the imports from Germany have hitherto also been heavy. Cutlery of better quality is also supplied by Finland and Sweden, but the best of the dealers also carry stocks of the best English-manufactured cutlery, especially pocket knives, scissors, barbers' clippers and razors. In connection with the latter article it is interesting to note that the majority of hollowground razors sold are of British make, but are all ground in Germany, whence they are sent back to the United Kingdom. American and English safety razors are also very popular in Russia, but owing to the fact that the majority of the makers of standard safety razors charge such high prices, there is a number of cheap safety razors on the market, practically imitations of the well-known makes, and owing to their low prices these imitations sell well, doing much to lessen the sales of razors of better quality. The majority of such imitation safety razors are supplied to Russia

#### SHELF GOODS.

Bolts, nuts, screws, nails, rivets, washers, horseshoe nails, etc., are made almost exclusively in Russia, but some screws are imported both from England and Germany.

It is of the first importance to note that after the war there is certain to be a great demand in Russia for all of the above articles, and such Canadian manufacturers as can ship will be able to obtain large orders, provided there is no great delay in shipment, and prices be quoted reasonably low. At the same time Russian consumers will be prepared to pay the difference between the price of the home-made and the foreign articles. This is due to the fact that the Russian manufacturers of these articles have to a great extent given up their manufacture for the purpose of making ammunition, in many instances going as far as scrapping their plants, and it will be some little time before these manufacturers will again be able to produce anything like sufficient quantities of these goods to meet the demand. This is indicated already by the fact that since the war started prices for screws, nails, etc., have increased from 30 per cent to 40 per cent in price.

# ENAMELLED WARE, TINWARE, ETC.

The simpler kinds are to a large extent manufactured in Russia, but during the last ten years the finer grades have been getting more and more popular, together with aluminium ware for cooking purposes. Most of these have hitherto been imported from Germany.

It should be pointed out that the success of Germany in this line is due to the manufacturers showing themselves ready to adapt their goods to foreign requirements, and this has given them the advantage over the United Kingdom and the United States as far as Russia is concerned. Cooking utensils and the different kinds of enamelled ware, etc., are as a rule of entirely different styles in Russia to those customary in Canada and the United States, the principal reason being that in the latter country they are more usually adapted for use with gas stoves, the tendency being therefore to make them with small surface on the bottom, whereas this is

not the case in Russia, gas stoves being not yet much used. Canadian manufacturers will therefore have to be in a position to export ware of the styles required in Russia before they can hope to achieve good results.

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### HOUSE FURNISHING GOODS.

House furnishing goods, such as coffee grinders, food choppers, rat traps, etc., belong to those classes if articles in which there is a large business to be done by foreign manufacturers. Hitherto, besides Germany, Sweden has done an excellent trade whilst American meat cutters sell well. The opening in this line is wide, and to do business samples should be included urdware sample collections, and the lowest possible prices quoted.

#### CABINET HARDWARE.

Cabinet hardware, such as desk and drawer knobs, etc., is made locally, with the result that there is practically no business for outside manufacturers to obtain.

#### LAMPS AND LANTERNS.

Many of the above are made locally, but large quantities of miners' lamps, hurricane lamps, gas burners and spirit lamps have hitherto been imported from Germany. There is a great future for these goods in Russia.

#### ABRASIVES.

Such articles as carborundum, corundum and emery wheels and stones have already been well introduced to such branches of industry as use them in Russia, and the sales in American-made abrasives are very large. This trade was well organized by the United States manufacturers before the war, while other firms will now take over the agencies of such manufacturers as were formerly represented by Germans. The sales will in this way be continued, as American-made goods have depended for their sale more upon their quality than upon the manufacturers' representatives.

#### SMALL TOOLS.

As regards small tools, such as milling cutters, twist drills, reamers, taps and tapping dies, chucks, arbors, tool holders, machine tool vices, calipers, micrometers, rulers and angles, etc., it should be said that there is not such a large distinction in Russia as there is in other countries between the hardware trade and machine tool trade as far as these tools are concerned.

Hitherto most of the small tools have been supplied by Germany. The designs, however, are practically all American, the German tools being for the most part copies. The principal reason for this is that the largest German houses handling American machine tools and small tools had branch offices in Russia, and whilst they were importing a large quantity of American tools proper, they at the same time established their own factories in Germany to make small tools, sending them into Russia to their branches and selling them in this country at practically the same prices as those made in the United States. They thereby obtained a greater profit on their sales, being able to produce the tools cheaper than in the United States. It was therefore to their own advantage to push the German-made tools rather than the American.

It should be pointed out, however, that the majority of the best makes of American small tools are very popular in Russia and are well known, especially the finer tools connected with machine tools. This success is mainly due to the fact that these tools are handled by machine tool dealers rather than the ordinary hardware dealers, the former selling direct to the consumers. That the Germans especially of late years have been able to do a large business therein is due largely to the fact

that the machine tool trade has been to a certain extent in the hands of the Russian branches of German firms, who, as explained above, eventually started their own factories for manufacturing these small tools.

It should be added that the English manufacturers do a fairly good business in twist drills and reamers, but outside of these lines they sell nothing of importance.

# HARDWARE REQUIRED IN RUSSIA.

A prominent Moscow firm handling imported hardware and machine tools has compiled the two following suggestive lists of articles for which Russia offers a large immediate market and which are given in the catalogues of Canadian and United States manufacturers:---

1 Articles of North American manufacture which are known in Russia and for which a jarger sale might be obtained through energetic representation :----

Parallel vices. Rivet-furnaces. Scissors for cutting metals. Braces. Drills. Spring pincers. Tube cutters "Barnes." Hinge (joint) pliers, flat-jawed. Gas tube pliers. Bolt catters. Spoons for ladling lead. "Armstrong" holders. Automatical punches. Polishing machines (lathes). Grinding apparatus. "Irwin" hand-drills. Clark's centre-bits (cutters). Tooth planes. Wedges. Oil-stones "Washita." " "Arkansas." Pumps "Worthington." Knife-files. Saws. Planes. Smoothing-planes. Jack-planes. Squares. Screw-drivers. Grinders.

2. Tools of North American manufacture which are not yet known in Russia, and for which large sales are possible if energetically introduced. The article in italics are those which should be particularly successful in competition with the goods of other countries:--

Locksmiths' an \_ fitters' hammers. Punching machines. Drilling tools. Screw-plates. Smiths' vices. Ventilators. Pliers. "Whitworth" screw stocks, Nut-keys (spanners). Tube cutters. Soldering lamps. Soldering tubes. Reamers. Axle-lathes. Grinding machines. Circular saws.

Saw-sets. Clamps. Nail pullers. Punches. Pipe wideners. Pipe cutters. Pumps " Allweiler." Oil-cups and lubricators. **Kibbon** steel. Jacks. Connecting screws. Differential pulleys. Rulling pulleys. Ships' lamps. Garden scissors. Various locks.

# APPENDIX B.

# MACHINE TOOLS, SAW-MILLING MACHINERY AND SAWS.

# MACHINE TOOLS.

The term "machine tools" is in Russia understood to mean metalworking machine tools, as is the practice in North America. At the same time the finer woodworking machinery is also included in the term.

It is of interest to state in the first place that machine tools are handled in Russia by a different group of dealers to those handling ordinary hardware, and there is a distinction in their methods of working, i.e., the machine tool dealers obtain their goods direct from the foreign manufacturer, and sell direct to the consumer, thereby avoiding intermediaries such as export houses or German (Hamburg) import and export firms. The machine tool trade demands special engineering knowledge (not in possession of the ordinary Russian hardware dealer) and closer following up of tools

# KINDS OF TOOLS REQUIRED.

Machine tools are used in Russia in very much the same manner as in other countries, the most important lines being shipbuilding, railway shops, locomotive and ear building, agricultural machinery and implements, also arsenals and shell-making factories and for Diesel engine manufacturing and general shop work.

At the time of writing, nearly a year after the commencement of the European war, there is an exceptionally large demand for machine tools for making guns, firearms, ammunition, shrapnel shells, etc., the demand being specially for small sizes of plain and serew-eutting lathes (16-inch and 18-inch swing), plain and serew-eutting turrent lathes, sizes from \$ to 2 inches, and a few of larger size, also hydraulic presses and fittings for same, such an commulators, pumps, etc. There is very little demand for anything else, and the ptionaly shortage in Russia for these machine tools is due to the fact that in Russia there are only two factories worth mentioning making machine tools, and their output is insignificant in comparison with the quantities required, especially at the present time. One of the factories in question being situated in the proximity of hostilities is practically unable to produce anything.

It should be stated that there has of late been a distinct movement in Russia to produce locally the simpler machine tools mentioned above, and this movement is before long sure to result in factories being started, the probabilities being that they will be situated in the Donetz field and the Ural mountains, which are the principal metalinrgieal centres of Russia. The erection of such factories will mean that a demand will arise for all kinds of machine tools necessary for the manufacturing of those already mentioned, and in this line Canadians might be able to do a large business by supplying the demand through the usual channels.

# DESIGNS OF MACHINE TOOLS.

It should be stated that the Russian factories and dealers are better acquainted with German designs of machine tools than the American, owing to the larger business done therein by Germany. This has been largely due to the fact that such a large proportion of the machine tool dealers have been of German origin or nationality and to the terms granted by the German manufacturers. At the same time the best transatlantic makers are also well known. It is to be anticipated that as soon as the redistribution of agencies has taken place and the rate of exchange is

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more normal, enabling Russian dealers to purchase stocks, these lines will be pushed. As regards the redistribution of agencies it should be remembered that they have been taken away from German firms owing to the latter having been compelled to stop business.

Furthermore, it should be pointed out that the German dealers in Russia have in most cases made their reputation on the merits of the respective makes of the machines they represented, so that the sale thereof should continue undiminished, whilst it is to be pointed out that as with small tools the North American designs have been copied by German manufacturers, the factories of some of the latter being started by German firms who were originally simply dealers in machine and small tools imported from the United States.

#### OPENINGS FOR NEW BUSINESS.

It is further of importance to mention that whilst the American designs are very popular and suitable as a rule to the conditions in Russia, there are still a few designs not made by North American manufacturers which if supplied by them would in all probability find a ready sale. Reference is here made to such machine tools as could be installed by smaller mills and smaller concerns. Mention for example might be made of the European designs of turning lathes of all sizes, which in Europe are made with gap beds. In explanation it should be said that the gap in the bed of the lathe enables the user to turn long small diameter work, and to use the gap whenever he is called upon to turn of face large diameter work. These machine tools have hitherto been obtained from England and Germany. Again, most of the so-called engine lathes made in North America are screw-cutting, whereas there is a large demand for simple turning lathes without any screw turning mechanism. Similarly there is a demand for facing lathes, very few of which are made in North America.

#### DEMONSTRATIONS BY EXPERTS.

After the war it will be necessary for Canadian manufacturers to make special efforts to supply the demand for machine tools in Russia. Whilst the dealers will be capable of carrying the necessary stocks of machine tools in Russia and of making the sales, nevert'eless in order to increase the sales the manufacturers should send out their travelling experts, not only to put up the machinery, but to demonstrate its working and also to teach its use to the Russian workmen. The factories in Russia have up till the present been in the habit of avoiding the use of some classes of American machine tools, for instance automatic tools, principally as they were afraid that the Russian workmen would not be able to make these machines work properly. It is only right that the workmen should first be shown how to tool properly automatics and get the maximum capacity out of them.

#### WOODWORKING MACHINE TOOLS.

Woodworking machine tools in Russia as stated above are considered to also belong to the machine tool line in general. The main uses for these articles are in saw-mills, shipbuilding, railway repair shops, agricultural implement and machinery making, furniture factories, veneer mills, cooperage factories, box factories, pattern shops, etc.

It may be said that the simpler kinds of woodworking machines are principally made in Russia, whilst the bulk of the saw-mill machinery has been supplied by Germany, Sweden, Finland and Russia. On the other hand, the joinery and other finer machine tools have been bought principally from Germany, with United States manufacturers also doing a small trade. The Russian railway repair shops have been using a lot of English and American manufactured machine tools of this type, at the same time purchasing wood planers of larger sizes mainly from Sweden.

As regards veneer mills; the machine tool trade for this line has been done principally by the United States, whereas the cooperage factories trade has been of German origin exclusively.

For the Canadian manufacturers of woodworking machine tools to attain success in Russia it is necessary that the Russian consumers be educated up to the more improved methods in vogue in the North American lumber trade, especially the up-todato methods of swaging and fitting saws. and also fitting knives for planers.

As far as the saw-mill, box factory and lumber resawing mill equipment is concerned, the generally adopted practice of North American factories and mills is to use band saws, instead of gang and circular, the latter being universally adopted in Europe, and although during the past ten years much has been done in Russia to introduce North American band saws, and considerable success has been attained, there is considerable missionery work still left to do.

From the foregoing it will be gathered that the best opportunities for selling North American woodworking machine tools are in the joinery and other finer woodworking lines, veneer mills, pattern shops, etc., the main requirement being that the consumer be educated. As regards the saw-mill trade it is now an accomplished fact that the first North American complete band saw-mill is running, which should revolutionize the saw-mill trade in Russia, and should create a great demand for band sawmill equipment, owing to the fact that the methods used in North America for making lumber or so much superior to anything in Europe.

# SELLING CONDITIONS OF MACHINE TOOLS.

With regard to the selling conditions of machine tools, it is almost exclusively the rule in Russia that the dealer has to take all the risks, financially and otherwise, i.e., he purchases the machine from the manufacturer, and sells same to the Russian factory or consumer. Also whenever the dealer sells a new machine he has to take all the responsibility of erection, working and teaching the workmen how to operate. He is further obliged to guarantee a certain capacity for each machine he sells. Again, owing to the credit system prevalent in Russia, the dealer is obliged to supply on credit usually on open account. In some cases he receives a deposit of one-third of the selling price, this being the maximum, such selling price of courso including all costs of transportation, duty, etc. (which often amount to more than the stated one-third), and it is usually agreed between the contracing parties that the remaining two-thirds are payable inside thirty days from date of erection and acceptance of the machinery. reference here being made more especially to North American machine tools. It should be pointed out, however, that this does not apply to the Government works, as they never stipulate any particular date of payment in their contracts in ordinary peace times. In practice as regards private concerns, payment is very seldom actually mabefore three months from delivery of goods, and six to nine months is by no mean exceptional. Furthermore buyers, although the contrary has been stipulated, always try to avoid paying cash, offering to givo notes or acceptance at six months, as the banks discount acceptances up to and including six months, and these usually have to be taken hy the dealer.

German machine tools have been sold so successfully mainly owing to the fact that the manufacturers have always allowed their dealers considerable credit, and these dealers have thus always been willing to take acceptances in payment, whilst owing to the long credit granted hy the manufacturer, i\* has often occurred that the dealer has been able to collect his money from the Russian consumer before it was actually due to the German manufacturer.

United States manufacturers, on the other hand, have hitherto been very conservative in regard to granting credits, and this has to a great extent handicapped their sales in competition with German machine tools. Canadian manufactuers should study this question of credit very closely, as a relaxation will not only mean an increase

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in sales on the one hand, but also make it a very fair proposition, as speaking generally the Russian dealer is honest and reliable, whereas as matters stand now, the Russian dealer selling North American machine tools has to take the greater financial risk by being compelled to give much longer credit than he himself gets, as well as having to wait so much longer for his money.

#### PACKING.

As regards machine tools it is suggested that the packing be sufficiently heavy not only for ocean transportation, but also for the Russian railways, where the freight as a rule is handled rather carelessly, and at present there are few cranes and other loading devices in use. It thus happens often that cases which have gone from the manufacturers' factories as far as unloading port undamaged have arrived at the consumers' warehouse smashed and broken, or badly damaged, tho contents in many instances also suffering.

It is especially recommended that the machines be well braced inside to keep them tight with heavy planks on the one hand and secondly that the machines be sufficiently knocked down.

Also it should be understood the heavy smooth castings, especially steel castings, heads and cylinders of hydraulic presses and similar material require no packing whatever, and may be shipped loose.

Parts of machino tools and ordinary hardware should wherever possible be well packed in sawdust, and all non-painted parts of machinery and tools should be covered with anti-rust compound of a thick nature.

Furthermore, the smaller parts and fittings of machine tools should be shipped together with the machine and be placed in a small box, the latter being well packed with sawdust and then placed inside the case containing the whole machine.

### SAW-MILLING MACHINERY.

There is apparently a very promising field in Russia for trade in appliances and machinery necessary for the proper development of the great timber resources of the country, and also for the various local woodworking industries. There should, for instance, be good openings for North American logging locomotives, cableways, stationary engines, tractors, hoisting cranes, and for machinery for saw-milling, cutting shingles, and for the various details in woodworking operations. The machinery for logging and saw-milling has been supplied principally by Germany, Sweden, Finland and by Russia itself.

#### RUSSIAN LOGGING AND SAWING METHODS.

Generally speaking the methods employed in making use of the great resources of Russia in standing timber, are antiquated and uncconomical. It has been estimated, that if any of the estates or companies, controlling the vast timber tracts between the Volga river and the Ural mountains, should attempt with their present logging and sawing methods to ship any of their splendid timber abroad, they could do so only at a considerable loss. If such timber can be used at all, the use is usually restricted to felling it for conversion into charcoal for blast furnaces. There are large stretches of country in Russia and Siberia covered with timber, which is merely wasted. The natural forest resources would seem to afford the only reasonable opportunities existing for any development of the land. The owners of such country would be glad to work it but under present methods, they would only suffer losses. It would seem probable, however, that if American methods could be introduced, it might be possible to export profitably the timber by various rivers and sea routes.

It is the ordinary practice to fell the trees by hand and haul the logs by horse power, a great number of horses having to be used and also a large amount of track

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equipment, while numbers of men are also needed in the work. The saw-mills are said to waste about 45 per cent of the material through bad eutting. Instead of sawing with one saw blade at a time, as by the North American method, one cut being made each time but made rapidly and with the man at the machine being able to see properly and adjust his work, the method is to use a long frame reciprocating saw, with a number of blades hung and sawing slowly, the result being that proper adjustments are difficult, and special complications occur through knots and twists and uneven cutting, making it impossible to effect economical sawing of the timber and to get tho maximum out of cach log.

# THE ADOPTION OF MORE PROFITABLE PRACTICES.

The forests in the Ural mountains are largely owned by companies operating iron and platinum mines and rolling mills and other factories, the Russian Government also being a large owner of these mountainous tracks. To exploit such vast timber resources it would seem to be necessary that the owners should be shown how by adoption of Canadian methods and machinery an otherwise unprofitable cutting of their timber could be made profitable.

The first North American band-saw outfit in Russia was recently completed at Tsaritzin, on the Volga river, and is now in such successful operation that much attention has been attracted to it. This may result in the complete revolutionizing of the Russian saw-mill industry. With one such example already in existence, it becomes easier to promote Canadian methods as regards every feature of the industry.

# PRELIMINARY PROPAGANDA REQUIRED,

Particulars relative to the kind of saws used by humber companies in Russia will be found under the head of "hardware specialties," in Appendix A. It will be noted that in order to bring about the general use of North American saw-milling outfits and woodworking machinery in Russia and Siberia, it would be necessary that a campaign of education be conducted amongst the owners of large timber properties. If a few important outfits, however, can be installed they should serve as object lessons and thus create a demand. Until such demand can be created, it is useless to except Russian dealers to keep such goods in stock without liberal assistance from the manufacturers. The Russian dealers are not likely to be very interested in North American saw-milling outfits until they discover that owners of timber properties are interested in them and wish to buy them. After such a result is accomplished, intermediary firms will be anxious to handle such lines for Canadian manufacturers.

# FOREST RESOURCES OF THE RUSSIAN EMPIRE.

Concerning the forest resources of the Russian Empire, it may be mentioned that 39 per cent of the area of the country is estimated to be nuder forest. In European Russia the forests cover an area of 474,000,000 acres, in Finland 50,500,000 acres, in Poland 6,700,000 acres, and in the Caucasus 18,600,000 acres, a total of 549,800,000 acres, exclusive of Siberia. In the Ural provinces, forests cover 70 per cent of the area, in the northern provinces 68 per cent, and in the four lake provinces 57 per cent. It is estimated that in Western Siberia alone there are 465,000,000 acres of virgin forest, and Eastern Siberia, while not so richly endowed, has sufficient timber to supply the world's demands for years to come.

The government owns 285,598,941 acres of forest lnad in European Russia, 12,826,387 in the Caucasus, 380,519,435 aeres in Asiatic Russia and 288,742,000 aeres in the Amur region, a total of 947,686,763 aeres. About 23 per cent of the forest land belongs to landed proprietors and 9 per cent to the peasantry

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### TRADE AND COMMERCE

### SAWS.

As practically no saws are manufactured in Russia, the latter is obliged to import all required, and the article being one in large demand, there is a favourable opportunity for enterprising manufacturers to place their goods on the market.

Up to the war Russia received her supplies of saws approximately as follows :--

40 per cent from Germany.
25 per cent from France.
20 per cent from England.
10 per cent from United States.
5 per cent from other countries.

Germany had the preference owing to her granting longer credits, cheaper prices, and to her showing greater readiness to manufacture saws suitable for Russian needs and requirements. Furthermore, Germany and France have worked more directly, i.e., manufacturers have sent out representatives to the large towns, thereby selling direct to wholesale dealers who are principally located in Moscow. England has preferred to sell by correspondence or through English export agents. The United States manufacturers have up till now sold almost exclusively through Hamburg import merchants.

#### OPENING FOR CANADA.

It will thus be seen that good business could be done by enterprising Canadian saw manufacturers through sending out a travelling representative to Moscow, Petrograd, Kieff, and Odessa to push this article in conjunction with other hardware. The question of speaking Russian would present no difficulty, although it would be useful for the representative to have a knowledge of German.

It would be necessary to give credit, say, up to six or nine months.

#### KIND OF SAWS IN DEMAND.

The saws mostly in demand in Russia are as follows: Circular and bandsaws (ribbon-saws), machine driven for sawing wood, with prices about rbs. 9.10 for circular saw 20-inch diameter, and rbs. 0.17 cops. per foot for bandsaws 1-inch broad.

Circular and band saws for sawing metals are also required. Prices are as follows: Rbs. 14.80 for 20-inch diameter 3m/m thick, and rbs. 0.48 per foot for bandsaws 40m/m broad and 9m/m thick.

A market is also present for curved eaws (4 feet long, rbs. 1.40), and hand saws, ordinary (10-inch broad, 51 feet long, rbs. 4.35 for best quality, rbs. 4 for quality 1).

There is also a large demand, which up till now has been supplied exclusively by Germany and France, for: Potato-cutting saws, used to cut or saw potatoes for the making of vodka, starch, etc. Some thirty or forty of these are fixed to a revolving drum worked by a motor.

The usual saw used for this purpose (mainly starchmaking) is 75 m/m broad, and 29 c/m long, price rbs. 6 per 100.

All of the above prices are retail, warehouse Moscow, duty paid.

It may be added that the wholesale dealers sell and stock all kinds or saws, both hand and machine driven, so that the number of dealers to be visited is fairly limited.

# APPENDIX C.

### BINDER TWINE.

There is an opening for binder twine in Russia and Siberia, as so far Russian manufacturers have been unable to prepare a suitable article. Practically the only countries from which Russia imports binder twine are the United States and the United Kingdom, in the proportions of about 90 per cent and 10 per cent respectively.

It should first be pointed out that about 65 per cent and 10 per cent respectively. are supplied by a large American company who, having their own twine mills, as a rule sell twine to those dealers and agents who handle their binders. The remaining 36 per cent of the binders are received from foreign manufacturers who do not make twine, but for the convenience of their customers some of these companies also sell twine, which they buy from manufacturers of this article.

A few English manufacturers and one or two United States.companies, knowing the position, usually send a representative to Russia for a short trip of a month or so every year to offer their twine to large dealers handling binders made by manufacturers who have no twine mills. Although excellent business is done in this way, a large proportion of the market is untouched by these firms.

The business should be worked as follows :--

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# SUGGESTIONS FOR DEVELOPING BUSINESS.

Firstly, a travelling agent should be secured, who not only speaks Russian fluently, but has had some experience of the harvesting machine business in Russia. Such a man should be paid a small salary, a moderate allowance for travelling expenses, and commission. A competent man with good twine to offer at a fair price, should readily sell considerable quantities, as there are not only the large dealers to supply, but also the numerous estates which abound in Russia.

It is generally understood that the difference between the cost price and the price at which twine is sold to Russian dealers is comparatively speaking very high, and that prices have not yet been cut to any extent. There are still, therefore, excellent openings for twine manufacturers. It would be useless, however, to send out a representative from the factory, speaking only English, as he would be ignorant of the Russian market, and secondly, he could only visit the large towns, which are by no means centres for twine, as the article should be sold direct to the provincial dealers. Similarly a large import house or ordinary commission agents in the large towns would be of little avail. What is required is a travelling agent, preferably a former traveller in Russia for one of the harvesting machine manufacturers. The cost of sending out such a man would not be a large item in comparison with the high margin of profit securable and the medium of the binder manufacturers would be avoided and their profit which is by no means small would be obtained by the twine manufacturer. This margin should far more than cover the expense of an agent, apart from the consideration that a competent man could secure three or four times the amount of business.

Binder twines sold in Russia are manilla hemp and sisal, the price to agents and dealers being about 7 roubles (3.50 approximately), per pood (36 pounds English) f.o.b. car Baltic port. The price varies from year to year according to the price of the raw material. Credit must be given, the usual terms being about 30 per cent c.o.d. (which is collected by the railway authorities, who hand the money over to the forwarding agents at the port), and the balance July, August, September, according to the time of the harvest and depending on the degree of latitude. Binder twine is admitted into Russia free of duty. APPENDIX D. BUSSIAN IMPORTS FROM GERMANY.

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IMPORTS into Russia, Years 1912 and 1913.

(Pood = 36 lbs.; Rouble = 51.5 cents.)

A Land	Routhe	3,165,000	150,000	227,000	Aller of the second sec		12,906	In sec. we	10,200	APR 164
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I " porta from (fermany, but could but could in Russia.	Pood.	918,200 246,000				8,438,000 6,113,500 29,300	1009'67	009'1	:	10,800
Imports from countries other than Germany.	Poods	23,300	3,400 192,000	76,000	5%%,700 (15,200 35,600 300	8,053,000 5,150,500 638,900 1,151,000 1,151,000	11,900	492,900 1,600	1,000	1,400
Tutal Importa inco Russia.	Poods.	1,041,500 260,000	30,700	124,000	942,200 1,567,800 1333,500 4,000	11,491,000 11,264,000 2,900,600 3,063,500 30,300	41,500	674,600	4,810	12,200
Articles.	I Rural Economy :		mac	6. Locomobiles for complicated	gruding, &c. Other agricultura Machines for grin Sheep shears Ianurys and Ferti	<ol> <li>Super-phosphates</li> <li>Ground alage (Thomav)</li> <li>Ground alage (Thomav)</li> <li>Clille aathetre</li> <li>Nitrice line (Norwegran saltpetre),</li> <li>Natural photophates (took ground)</li> <li>Gaw bone, ground phosphates.</li> <li>Hone, treated with upbluric acid</li> </ol>	11 Rubber Goods :	<ol> <li>Raw coontchouc, gutta.percha and caoutchouc wards</li></ol>	4. Soft rubber goods without other	materials

TRADE AND COMMERCE

	SUPPLEME	NT TO WE	EKLY BU	LLETIN	73
		STATE STATE	135,000 211,000,700 1,000,700	X XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
7922594		56350	n-9 e	1 20284688	8"8582
8622968		85383	<b>88</b> 5 51		eresta
					33800
1,6609,0.0 763,300 964,300 865,500 165,000 165,000	21,500 576,900 157,000 254,900 202,500 336,500	521,400 1255,000 22,500 427,500 1,200	1,600 1,024 15,700 73,300	309,100 5,100 55,000 19,800 14,200 7,600	13,400 10,400 10,500 1.800
	33,400 8,100				
1,243,000 200,400 300,600 681,900 881,900 122,000	22,200 24,2000 24,2000 24,2000 24,2000 24,2000 24,2000 24,2000 24,2000 24,20000000000	86,700 65,900 6111,92,0 101,92,0 100	100 12 6,300 6,300 11,200	39,400 500 117,700 11,700 1,700 1,700 1,700 1,700	2,100 1,781 1,000 1,000 1,000 1,000 1,000 1,000
2,852,000 1,271,600 1,264,600 1,107,000 1,107,000 1,349,409 287,000 113,900	365,200 367,800 2567,800 2565,700 2549,200 249,200 300,800 9,900	448,100 194,900 2,900 538,700 1,300	2,700 20,700 50,100 50,100	248,900 5,600 5,600 331,800 455,700 19,800 19,800 9,300	5,400 3,900 20,600 13,400 14,400 2,600
Pig iton and sera itom Cast Iron, manganesti Cast Iron, manganesti Liron piete, bar ste- Steel plating Steel plating Steel plating	Wire, thickness 0 5-1 n Tin antings, mhanme l'on geatings, mhanme Cast iron products. 'Dorged iron and steel p Various hand tools Haumered nails.	<ol> <li>Pluce, para enancilied and painted R. Faamelled iron kitchen utensils.</li> <li>Sundry tin products.</li> <li>Sail meedlee, kuitting needlee,</li> </ol>	<ol> <li>2.2. Knives and forks</li> <li>2.3. S. ndrr outil-ry</li> <li>2.4. Pad-locks, locks (including brass locks)</li> <li>2.5. Scales under 3 pools in weight.</li> </ol>	-Chemists' and druggists' goods I. Borax products and crude borax. 2. Refined borax, in crystals. 3. Blubber, fahl fats, (Crude). 5. Castor Oil Seeds. 6. Castor Oil Seeds. 6. Castor Oil Seeds. 7. Vuseline (excluding refined). 8. Camplore (refined). 9. Amber, Jallan, incress, fragrant.	10. Quinine and quinine salts. 11. Arsenic (raw state) 12. Girree Arid 13. Currelice acid, in crystals and fluid 14. Curresive sublimate, calondel.
	Pig iron and werspiron.         2,852,000         1,233,000         1,233,000         1,233,000         564,400         564,400         564,400         564,400         564,400         564,400         564,300         56         44           Assorted iron, fat bariton.         1,251,400         300,100         1,233,000         300,100         560,300         56         44           Assorted iron, fat bariton.         1,354,400         300,100         1,364,400         300,100         763,300         76         44           Assorted iron, fat bariton.         1,319,000         801,600         301,600         901,500         76         54           Assorted iron, fat bariten.         1,319,000         801,600         801,600         801,500         76         54           Assorted iron, fat bariten.         1,319,000         801,500         800,500         76         54           Steel plating.         287,000         5,600         5,600         5,600         5,600         5,600         5,600         5,700         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54<	Prigrammentici:         2.882:000         1.233:000         1.233:000         1.233:000         1.233:000         1.233:000         1.233:000         1.233:000         2.882:000	1/8     1/8     1/6     0.0     1/343.000     1/343.	Tyr. True and every iron.         268-100         1.243-00         1.243	Variation         260000         133400         1344

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Contin
1913.
and
1912
Years
Russia,
into
IMPORTS

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şiilij	Renthe		5,541,200	2.8 EX		Int, me	1,008,000	-		-	
	26	81	10	ពន	渡りの-	99	22	5	\$8×	11	
Percentage of Importa into Russia From Cormany.	54	**	8	83	<b>G</b> 888	æ	2	1	258	2	227 <b>2</b>
Imports from from from bust could be imported be from other countries	Prede								976 %		
Imports from Germany but could be partly unanefactured in Russia and partly imported from other countries.	Produ	15,400 61,500	454,300	10,500		4,910	19,600	125,100	16,600	2,400	の一般の
Imports from Germany but corded by namufactured in Russia	Pecoda.						• :	:			
Imports from conneries other than Gernany.	Poods.	25,100	104,800	3,300	3,706 660 1001 1101	100	6,500	304,600	363,000 13,100 1,400	200	00000000000000000000000000000000000000
Total Importa. Russia.	Poods.	40,700	563,100	13,700	10,400 7,400 1,500 6,500	4,300	26,100	1,119,700	809,410 40,000 18,000	2,900	3,100 5,100 172,600 74,100
Article.	Chennista' and druggista' goods 15. Salemmoniac, anamonia, nitric	acid. 16. Potansium chlorate, KCLD 5. 17. Divers chemical and pharmaceu	18. Etherial and rweet smelling oils,	19. Commetic Stoppe. 20. Perfinmery goods, containing	21. Salicylic actu, citatra 22. Chloral, Chloroform 23. Iodine, brone. 24. Potaesium, contanning iodine and	25. Compound medicines, excepting		Zr. Anning bark (not ground)	<ol> <li><sup>28</sup> Indigo excepting extract).</li> <li><sup>29</sup> J. Pye woods, pounded and powdered 30. Baryta, sulphnric acid (artificially</li> </ol>	31. Ultra-marine, natural, artificial	32. Panda green Marian blue and Parie dark blue 33. White zinc.

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TRADE AND COMMERCE

					80	PP	LENI	ent 1	TO WEEK	LY 18	OLLN	TIN	75
86,200	Child, Child	ent, and	1,054,000	A Turn own	alyc:			1.100 AN	1,000 Land	GLN MOD	Tee. See	an a	
1	1	13	13	10		14		84	1.2 D C 31	12	8	1282282V	22.952
8	¥	50	88	8	2	×	8	128	rafas	ž	e.	F21:35355	87383
:							:	· · · · · · · · · · · · · · · · · · ·					1001(53
27,900	49,700	31,800	13,300	225,410	12,500	370	:	2. B. take	36, 160 17, 100 17, 100 17, 100 0, 100	I a I		2, 000 2,	154,850 150,756 15,766
	•	• • • • • • • •		:		:	10,340	38,700	37, Rutu		1,620,300	781,960	2,644,300
15,100	7,200	6,800	9,500	26,100	1,400	9	5,300	10,500 12,600	000 000 000 000 000 000 000 000 000 00	300	604,200	212.300 9,300 181,900 111,900 31,900 314,900 314,900	6,227,300 781,990 14,190 335,600 3,990
43,000	56,900	38,600	.12,700	254,500	13,600	430	15,600	34,600	40,900 38,600 32,200 8,000 8,000	1,700	2,318,400	991, 700 8, 400 8, 4000	8,671,700 1,332,900 164,552 19,329
36. Red lead.	VICopper and mixed products	2. Product of copper and other have	and engravings, exceeding 51km 3. Products of cupper and other base metals without	weights under 5 lbs.	4 Copper products with embose- ments	nre lighters	VIITertile and manufactured goods: 1. Jute and cloth sacks	a of camel's h and hygroaco	5. Kaited goods 5. Kaited goods 6. Linm, velvet, plash, plash ribbons 8. Artificial ailta (not dyed) 9. Velvet and plash, velvet and hush			<ul> <li>a. Sperimacci (refined)</li> <li>b. Poaul Wax (refined)</li> <li>c. Parnine</li> <li>f. Stearine</li> <li>f. Carbolic axid</li> <li>f. Carbolic axid</li> <li>g. Turpentine or turpentine oil</li> <li>9. Turpentine</li> <li>10. Sulphuric pyritee, ferruginus</li> </ul>	11. Sulphur (crude). 12. Sulphur (crude). 13. Glaubros sala. 14. White copperas, chlorous zinc.

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AND AND A CONTRACTOR AN

	Value of Tanports Runsis from Germany.	Ruther	COLUMN T	68,900	74.000	110,300	1.15 1.15 1.15 1.15 1.15 1.15 1.15 1.15	<b>306, 20</b> 27, 200 27, 200	22,200 121,200 146,700 1,600 1,600 1,600 1,600 201,000	0001,0006
	Percretage of Imports into Runis Runis Runis Runis Runis Runis Runis Runis Runis Runis Runis Runis Runis Runis Runis	рс.	22	85	15	83.0	11228	ы. В. 19	ozrali	10
	Percentage of Importa into Russia from Gerutany.	]r c.	\$	83	198	898	8282	828	15285r.	8
-	Importa from Germany, but could be imported from other countries.	Pouda		66,400					19,400	
	Importa fro.a Cermany but could be party in Russia in Russia and party imported from other countries.	Produ.	19,200	17,500	21,900	5,100	2,300	281,500 2,000 1,300	15,600 17,400 91,400	8,400
	Importa from Gernany, but could be manufactured in Russia.	Poods.				15,000	157,460		19,200	
	Importa from c untries other than Germany.	Pouds.	23,500	19,800	4,400	1,400 7,800 800	322,700 81,100 26,900	7,700	1,600 10,000 3,000 7,000	700
	Total Imports into Russia.	Poods.	42,700	27,900	29,300	6,500 22,800 13,700	2,600 1150,100 318,800 318,800	289-200 2,000 1,600	17,200 28,440 18,700 26,200	9,300
	Articles.	VIIIChemical products - Continued :	16. Sulphate of magnesia, chloric	17. Sulphurons carlou. 18. Potash, carbonic kali (kali carbon-	19. Liquid carbonic acid and other	20. Natrium, potest in metal cylinders 21. Calcium carbonate (precipitated). 22. Carbonate of bary to crude, and	23. Renzol (crude) 24. Naphtaline (crude) 25. Chlorous magnesium (crude) 26. Chlorous potassium and sulphate		<ol> <li>Aniluse sita</li> <li>Nitro-benzol and nitro-naphtaline.</li> <li>Mizariue, alizarine varnishes</li> <li>Natron (crude)</li> </ol>	1 Jeweiry, ornautents :

IMPORTS into Russia, Years 1912 and 1913,--Continued.

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TRADE AND COMMERCE

				.6	UPI	PLI	M	IN:	r T	0 1	VEI	EKJ	L¥	BU	LLI	ETI	N						. 77
2,76%,306	1,127,300	1,311,700	4,950,000	6,992,501	1,597.300	1,567,400	5,777.100	2,798,600	637,600	25,123,200	10,400,500	360,300 8.3944 100	1,068,800	119,200	206,300	2,447,600		473.000		351,600	9,481,600		1,306,600
14	14	4.00	6	12	. %	17	211	24	9	30	31	- 51	61		- %	15		8		82	12		8
£ 2	88	96	16	28	19	2	28	91	н	92	69	212	18	58	53	18		51		23	12		-2-
								•••••••••••••••••••••••••••••••••••••••	:						· · · · · · · · · · · · · · · · · · ·								
31,600	11,200 26,800	29,600 14,400	173,500	293,300	270,100	2:19,500	589,300	278,800	60,600	3,451,500	963,000	717,800	86,(00	7,100	14,800	16,000	Ponda.	5,800	No.	1,200	2,600	Porda.	39,600
					•		• • • • • • • • • • • • • • • • •		:		:			:				:					
5,200	1,400	1,100	17,800	42,300	155,400	48,500	75,000	001.10	3,800	885,000	424,000	212,000	23,000	100	8,300	2,900	Pouls.	1,900	No.	300	100	Poods.	11,400
36,800 8,000	12,600 31,200	30,700	191,300	325,600	425,500	288,200	664,300	002 000	64,400	4,339,500	1,347,000	008'676	121,800	0412 646	23,100	18,900	I'cuals	7,700	No.	1,500	3,300	1*conds.	41,000
2. Toilet accessories with cheap metal fittings		city, electronucters 4. Cables for electricity 5. Electric switches, safety awitches,	6. Dynamo, electric machinery	otorn. biles	1. Steam boilers, etc	actures 3. Stean fire engines		-	way hand cars	atus and separate parts	irun and steel		Ľ	13. Paper making machinery	14. Typewriting machines	1. Bicyclen		2. Sundry bieycle parts		3. Motor hicycles 4. Motor lorries, chassis	5. Motor cars, with 4 and more sears	6. Sundry parts of vehicles (bicycles	excepted)

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# TRADE AND COMMERCE

Value of Importa into Runaia from Germany.	Roubles.	1,315,100 2,480,400 11,475,900	6,097,800	3,361,400 1,459,800 2,49,500	2,926,200	2,966,600 538,300	135,200	201,900 1,124,600 0.65,940	200,100 1,796,500 601,700
Percentage of Importa into Russia from countries other than Germany.	~	\$08	*	\$ <b>\$</b> \$	n 00	19 13	22	\$\$\$	13 6 13
Percontage of Importa into Russia from Germany.	%	358	73	2823	58	81	75	883	253
Importa from Gernany but could be imported from other countries.	Poods.		•						
Introrta from Germany but could be but could be manufactured in Rimeia and parely introrted from other countries.	No.	186,900 412,000 1,912,800	30,900	78.100 48,600	50,300	34,900		800 7,300 48,600	No. 1,380 4,000 820
Inports from (feruany, but could be in Russia, in Russia,	Poods.			6,900			3,600		
Import from countries other than Gernany.	No.	131,400 11,300 479,500	31,600	66,300 31,900 1,806 7,700	4,300	8,300	1,200	600 6,000 10,600	No. 240 630 660
Total Imports into Russin.	No.	338,300 4:23,300 2,432,300	125,500	144,400 80,500 8,700 40,100	01,600	43, 100 5, 200	1'800	1,400 13,300 53,600	No. 1,630 4,630 870
Articles.	XVLeather industry:	L. Leakher (not curred). 	5. Dressed leathers, large, without embournets. dval and natural	feather. 6. Driving machine belts, unewn 8. Hides, chevren, not dressed		11. Hand bags, trunks, bags, etc. 12. Whips, buckets and other low	grade leather goods	1. Ladiev shoeware of silk stuffs 2. Shoen boots, slippers, etc. 3. Blacking	XVIIIMusical instruments: . Orrans (hand), harps, harmoniums 2. Fiance

IMPORTS into Russia, Years 1912 and 1913.-Continued.

					SUPP	LEME.
	364,200	2,822,400	71,600	338,100	94,400 1,602,300 166,100	313,500 376,600
	++	10	87	40	300	<b>6</b> .0
	22	8	93	69	282	16 16
_			· · · · · · · · · · · · · · · · · · ·			
Poods.	2,700	001'70		84,500	4,000 75,300 4,700	10,900 5,900
_	•		47,600	•		
Pouls.	2,200	10,200	46,800	52,800	2,100 (000 1,100	1,100
Pools.	15,600 2,800	102,300	94,400 50,000	157,300	6,100 78,900 6,899	12,000
Gramophones and musical instru-	5. Granophone records	XXCuoper's, carpenter's and turner's	<ol> <li>Riveted gouda.</li> <li>Cunper's guida</li> <li>Carpent's guida</li> <li>Garpenter's and turner's goods of</li> </ol>	Wood	2. Cellubid 3. Woodwork, oilcloth 4. Lamp burners, with and without	5. Children's toys

# APPENDIX E.

# RUSSIAN WEIGHTS AND MEASURES.

The unit of Russian currency is the ruble, valued at \$0.515, which is divided into 100 kopecks.

MEASURES OF LENGTH.

=1.75 inches. =2 feet 4 inches. =7 feet. = 1,1661 yards. = 3,500 feet.

= 1,066781 kilometers. =0.6629 mile. = 0.428571 sazhens. = 1.285714 arshins. = 1.508571 versts. = 754.285714 sazhens.

1	verschok
1	arshin (16 verschoks)
1	sazhen (3 arshins)
	verst (500 sazhens)
	verst
1	verst
1	verst
1	yard
1	yard
1	mile
1	mile

1 mile

### SQUARE MEASURE.

1 square arshin 1 square sazhen 1 dessiatine 1 dessiatino 1 morga 1 square verst 1 square yard 1 aere 1 square mile

- 1 square mile

= 5.44 square feet. = 5.44 square yards. =2.7 acres. = 1.0925 heetares. =1.3 acres. = 0.44 square mile. == 0.183673 square sazhen. =0.3704 dessiatine. = 2.275%7 square versts. = 237.061224 dessiatines.

### CUBIC MEASURE.

1	enbie	verschok	- 5-359375 cubic inches.
•1	cubie	verschok	= \$7.819661 cubic centimeters.
1	enbie	arshin	=0.4705 cubic yard.
1	cubic	arshin	=0.3597 cubic meter.
		sazhen	== 12.7037 cubic yards.
		sazhen	= 9.7171 cubic meters.
	eubie		=0.078717 cubic sazhen.
-1	enhie	yard	=2.125 cubic arshins.

WEIGHTS.

1 doli == 0.68576 grain. 1 doli 1 zolotnick (96 doli) 1 zolotnick 1 funt (96 zolotnicks) ==13.166592 troy ounces.

== 0.00142863 troy ounce. == 0.15047 avoirdupois ounce. = 0.137152 troy ounce.

- 1 funt 1 pood (40 funts) 1 pood 1 lot (8 zolotnicks) 1 korzec
- = 0.90251170 avairdupais pound. = 526.00908 troy sunces. = 36.1127 avoirdupais pounds. = 0.45 avoirdupais ounce. = 216 avoirdupais pounds.

### CAPACITY MRABURE.

- 1 telietvert 1 telietvert
- 1 vedro
- 1 vedro
- 1 last
- 1 last

- = 5.77 imperiat bushels. = 5.95 American bushels. = 2.7 imperial gallons. = 3.240 American gallons.
- = 2 tons registry.
- = 200 eubic feet.

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# RUSSIAN TRADE STATISTICS.

STATEMENT of the Value of Imports into European Russia from various countries during the years 1911-13.

From.	1911.	1912.	1913.
	Roubles.	Roubles,	Roubles,
Jermany	476,839,000	801 114 000	
	153,875,000	ð <b>21</b> , 114,000	642,756,000
STRACT COMPCE	100,813,000	139,250,000	170,852,00
FORICE.	56,170,000	85,697,000	74,171,00
uniand	40,002,000	55,168,000	56,015,00
	83,784,000	42,718,000	50,964,00
	00,704,000	32,053,000	34,683,00
	24,414,000	25,663,060	29,997,00
	17,453,000	19,149,000	21,540,00
	9,452,000	15,513,000	16,938,00
	17,506,000	15,640,000	16,711,00
	9,798,000	10,671,000	16,125,00
	12,335,000	18,754,000	15,260,00
	7,687,000	6,445,000	12,848,000
elgium.	8,820,000	10,251,000	9,875,00
Rypt	6,581,000	7,257,000	8,605,000
gypt	7,844,000	3,123,000	5,929,000
vituerland	1,933,000	2, 127,000	5,669,000
ortugal.	7,191,000	3,164,000	5,635,000
ourpanie	2,417,000	1,490,000	
Oumania	2,654,000	1,945,000	1,480,000
Persia. her Countries.	132,000	134,000	1,414,000
Not Coulifiers	24,964,000	24,064,000	131,000

\*Exclusive of trade across Asiatic frontier.

STATEMENT showing Impurts into Russia; together with the portions received from the United Kingdom, Germany and the United States during the Years ended December 31, 1912 and 1913.

> \$9339--7

Routher. 1912. From United Kingdom. Roublen. 1913. Routhen, 1912 Roubles. 1913. Total Imports. Roubles. 1912. ARTICLES. Foxistuffs and animals -: unu!)

#### 23,196 22 1.90 1 13 1,210 \* \* \* \* \* \* 190'0 • \*\*\*\* Frem United States. Roubles. 1913 2,110 17,365 15,867 196, 161 1000 10 16, 651 9,00,6 ..... Roubles. 1912 51,813 579,260 15,969 19,01 70,00 611,20 611,20 2,006,501 4,932 244,852 547,817 2,310,247 6,491 640,9552 15,660 15,660 5, 6%, 3%0 2, 15%, 5%0 15%, 207 15%, 2407 2%1, 541 Roubles. 1913. From Germany. 670,919 670,919 670,919 88,462 88,462 141,836 1386 1386 559,749 25,456 25,456 1,994,675 7,194 5,449,600 1,572,340 1,572,340 2903,490 2903,490 270,735 404,806 840,565 709,909 19,937 38,340 38,340 804,172 11,564 42,222 9,080 5,088 000°08 193 66, 499 3, 521 18,134 113,773 513 546,858 1,134 91,653 8,163 231,353 101 613, 541 301, 141 946, 545 142, 556 1,920 ŝ \$57,153 1,055 1,055 1,055 13,498 1,207 38, 167 65,743 13,362 259,170 454 28, 310 2,141 17.744 90,350 517,644 297,656 880,738 880,738 : 8, 064, 250 8, 064, 250 7, 738, 781 2250, 947 622, 710 11,178,578 381.615 377,481 97,979 390,990 512,274 7,222,551 17,705 3,208 1,027,645 2,283,907 62,168,996 1,494,772 14,668,088 11,528,805 776,804 1985, 108 46,092 4,424,530 5,568,377 6,116,832 2,968,767 135,6687 135,6687 135,6687 8,533,179 2,397,511 2,485,666 415,884 38,117 2,648,775 4, (124, 438 21, 943 2, 812 2, 812 9, 525, 185 2, 620, 825 59, 292, 019 1, 499, 917 728,018 \$77,318 6,432,839 12,074 864, 278 54, 824 0,044,106 11, 329, 267 Potato flour, starch, macatoni, arrowroot, deatrine, sago, Patties, various condinents, e.g., prepared mustard, wy, nickles, capres, olives, etc., in air-tight receptacles..... ..... Caluers, olives (green or black), dried, in brine or in oil, not hermicically sealed. Mustard, dried, ground, not prepared. ..... l'ea L'utween Cocoa in the lucan and excess hinks. .... --- ---l'uy-lwrries and galanga. t 'hiorry and coffee sulwittutes...... Flour, malt and groats; Monr. eas and beans, dried Other ..... Grouts .... Rye Wheat "utators Unhusked. wans..... Husked

Dried.

Nuts.

Spices.

Coffee.

fice : -

Malt

etc.

SUPPLEMENT TO WEEKLY BULLETIN

and
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Imports United
showing the
STATEMENT

84

	Total I	Total Imports.	From United Kingdom.	kingdom.	From Germany.	rmany.	From United States	ad States.
VIDIO 1989	1912.	1913.	1912.	1913.	1912	1913	2161	INIA
and a second	Rouldea	Roubles.	Roubles.	Roubles.	Roubles.	Routstee.	Koubles	Ruther
reversariant and annuals 7 on. Romey, syrups and molasses Confectionery and prepared fruits Teast Hops and extract thereof	20,115 133,967 3,817,730 52,546 937,301	33,180 166,342 4,277,529 31,471 850,564	12,487 12,487 69,987 45 12,586	16,873 125,678 861 3,730	3,850 45,150 2,065,611 17,190 8451,624	15,964 16,964 26,064 26,064 15,065 15,065	645 88 108,588	1,470
Liquons : - Alte, leer. mend, porter. etc. Spirito all kinds. Wines of all kinds Winesa waters. Cooking adt. Mieral. salted, sunoked, dritel ; sausages Graves. Graves.	004, 788 102, 004, 11, 002, 11, 002, 11, 004, 11, 004, 11, 004, 114, 114, 1	6 <u>5</u>	11,555 11,555 165,894 165,892 18,812 19,8120	29, 400 29, 400 20, 40, 400 20, 400 20	NM -	34,517 34,517 5,456,512 5,256,712 6,456,712 7,556 7,556 71,556		
l or dried.	- 1-	64 =	K, (166, 036 K2, (186	1220 July 221		5, 257, 179 5, 254, 600 121, 519	3,554	10, 200
Connectibles, not separately designated ; specially prepared food for annuals			66KN	R,140	223.577	197,201	55	å
Cattless Horses	609',780 1,499',718 15,563	13.821,411 2,560,178 1,243,630	5.600 14.850 3.601	10,700 10,700	40, 464 1165, 396 1229, 306	NI W NI W NI W NI W NI W NI W NI W NI W		
Total foodstuffs and animals	221,626,438	256,513,443	12,418,167	13,682,224	42,772,342	54,610,NST	874,000	116,983
Animal products and afts, of ; Fertilizers Saat of all kinds Gine . Horn of all kinds	8, 9N7, 546 229, 175 468, 013 1, 446, 510 1, 446, 510	9, 354, 267 9, 354, 267 170, 975 1, 270, 309 11, 270, 309	1,061,212 4,612 12,429 87,630 87,630 8,429	87% 265 87% 265 1.872 1.4.955 104, 407 16, 21%	3,665,712 3,665,712 154,465 284,260 413,756 413,756 447,680	6, 277, 12 87, 666 387, 966 330, 884 300, 884 301, 366	13,260 14,260 192,100 192,100	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TRADE AND COMMERCE

:	116	1,100	160 100 100 100 100 100 100 100 100 100		179,661	1,043,797		17,042	45,516			2	8	1.665.455		•			1.129	Ā	191			1111 1111	121,007
	R	130,674	75,754		HIG UST	1,228,966			arrai.		102.974		8	1.106.004		31		-	2,276	*	AR				103,310
151,000,.	9,461	35, 270 5, 475, 706		17,100,004	4,504,9355	66,023,318		508,555	THE ARE		1. CEC, CEC		547,367	13,350,449		3,085 200	2,457,351	· 140 mil	200 CHE	61,9%S	2,261,742		1,474,271	2,246,445 Gift, Rent	24, 884, 787
138,042	8,950	36,656	4,196,15F	11, 112, 412, 13, 000, 414 7, 734, 900	3,667,813	53, 261, 343		191 616	133,574	120,907	3,6%9,411 9,550,1%8	64.645	501,735	16,201,416		3,456,756	2,341,817	1 995 Gund	243,580	370,249	1,944,625	1 745 940	1.331,701	Z,841, 200	19,140,792
8,436	1.620	5,221	2, CU66		812,517	9,491,408		and in	121,527	8,583	2.200.900	1,816	11,254	4,450,605		792,266	848	100 21:	37,906	21,338	106.142	2000 242	163, 233	4,967	2,346,452
2,101	22	7,766,336	721	274 KSK	688,515	10,001,778		44151	80, 350 9, 246	9.832	616, NT 1 2, 565, 733	2,400	24,578	3, 332, 743	-	1,112,181	9,500	81.460	27,245	11,543	151.402	143,734	119,549	3.7.25	2,417,096
342,306				21, 240, 469		101, 40, 300	A Ros 101	Ist Scott	9,013,823	117,35	21.000 272	102,786	863, 448	53,247,170		5,714,491	3,350,315	2,577,616	378,132	728,686	2,009,940	3,164.952	1,855,157	192,927	33,031,935
242,782	14,279	43, 132	218,910	16,449,642	0, 431, 433		4.856.148		3, 2813, 127 7'98, 608	208,631	23,076,451	S. 124	616'068	11, 936, 970	The second	6, 254, 522 3, 628, 424	2,952,689	2,035,725	141,742	475,078	2,475,122	2, 360,966	3,896,548	515,190	24,338,244
Prown and feathers. Pillows, quilts, mattresses, stuffed with feathers, down or		Animal fat, oils of animal origin Wax	Candles, turches, tapers Hides and skins, undressed	Hitden and skins, dreewed Fur skins, science of feather and skins	Total animal products and mirs of			In beams, logs, blocks, leards, planks, billets, joists,	are	Worden nianufactures	Plants and part of plants, n.e.s.	Basket-makers' and plaited wares made from vegetable		I otal word, woodenwares and lasketwares.	"Withic wares:	Building materials (bricks, cement, etc.). Store, rough or rough-dressed	Jet, or black anther, nother-of yearly, tortoise shell, yellow	International and the second and the second se	Stones of every kind except semi- recious or precious, also	platter of Paris and alabaster, wrought	ite, carbons, etc	common clay	(Slashware) and purcerally water.	Tate glass and mirrors.	I otal ceramic wares

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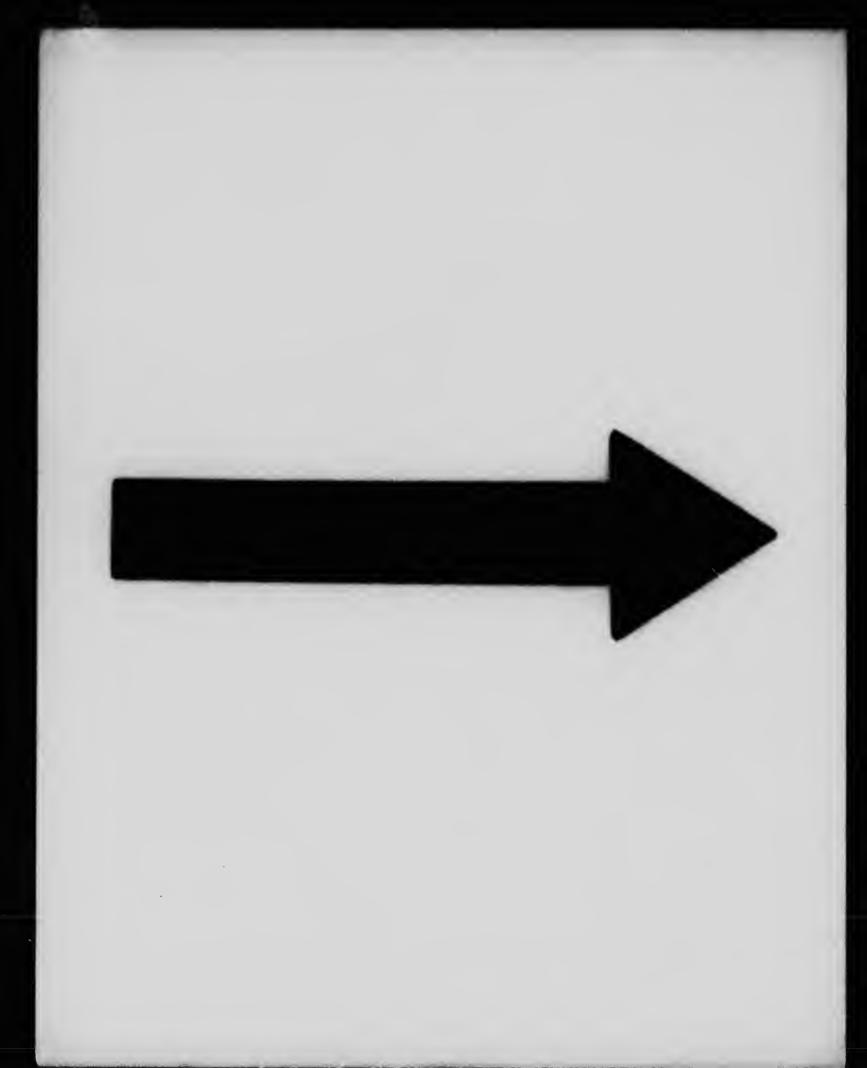
STATEMENT showing Imports into Russia; together with portions received from the United Kingdom, Germany and the United States during the Years ended December 31, 1912 and 1913.-Con.

	Total Imports.	nports.	From United Kingdom.	Kingdom.	From Germany.	rmay.	From United States	of Rea
Articles.	1912	2161	1912.	1913.	1912	2161	1912.	1913
	Roubles	Roubles.	Roubles	Roubles.	Rouldes.	Roubles	Roubles	Rombles
Combustibles, asphalt, resins and products thereof :   Coal	46, 143, 168		36,576,015	40,801,943	-		3,700	THE R
Coke. Tar and yitch Antelinavene	161,352,568	11,345,257 1,225,138 1,225,138	1, 114, 128	1,810,415		San Sur		
Napkinaline Phenol.	147,562		20,800					••••
Benzol	4, 145, 078		531,766	136,617	-			1,017,988
Brewers Prich Asphalt and brink ar Nachta and brink and munified	121,364		236,143	12,921			ALL SI	
	1,215,282 521,037		132.664	174.078	110,855 277.8%	1.876,000	Satisfield	610,-421 500
Gums, resina, resinata substances and balanaa; Ruber, crude Other guma, etc. India rubber, prejared and manufactured.	34, 152, 906 2, 618, 975 1, 777, 207	40,136,297 3,446,318 2,207,625	5,541,290	12,804,743 686,291 231,234	10, 656, 656 1, 300, 451 1, 532, 536	9, 347, 532 1, 841, 313 1, 767, 015	3, 296, 600 8, 072 15, 674	1, 000, 407 10, 000 13, 000
Total combustibles, asphals, resins, etc	103,717,420	144,356,546	35,061,805	36,900.064	40,400,688	56,066,561	6,969,220	7.007,200
	1,165,643			30,641	1,078,13%	SIN OLD		4
Natural salts of all kinds, not refined, brines, etc.	10,365	-		20122	81 80 102 8 201	818'192	2,653	ELITA
Antinumy	120,931	206,274	17. ST	120 M	121,941	IST WI	•	11.00
l'agnosite	197. 91.			10,5772 44,000 6	131,96	157,000	6, enc	
Heavy spar, witherite	408,072 11,659				13 666	× 210		
Aumuniacal preparations			146、141	No.5				

# TRADE AND COMMERCE

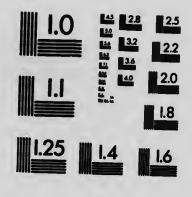
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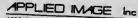
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2,416	101.65	165				•	196.16	A				1								ī.			£8		818	SALAR			18 1 17	
				R	:		-	14			619	244							•		14,57			-	2,917				R	an an
24,048	ATALTY	11.186	1007	820 CER		20,011	9,715			126,105	1, 90%, 0055	2 and 1910	312.45		Service Servic			1	1.410,971	20.00	447.418		12.151	4.950,050	1.671,155		-	342,519	2,542,247	11177
171, XXV 10, 262 10, 262	110 1237		1.714		911'0CZ	11,21;	14,15		90° 400	語が目	2,119,267	1 AUG 741	11.19		10.45	100 001		1,415			346,19		14 3	4,961,196	1, XX7, 161			480,134	191 191 191 1	140 - 120 001, 001
	12112	191-17 177	56,717	76, 500	i G		-	102.101	BA, TUT	100	Gur, 101	The set	31.700	19,193		112,000	112,211		212	2112	161,878	1111	5.50T	30,641	1211		4,2%1,684	124,785	ETA CEN	1 MG, 57 2
111,12	61.8.1.29	21, 280 140	112 21	57, 455	1,262			1009,002	00011	2410	1.0%9,045	-		11,65		372.418	12.23	94,193	118,866	1.11		29,768	10,450	10,511	記れ		4,773,829	990.000	1.306,316	2011 111
213, 140	115, 七坊	541,275	646,139	1,068,792	Self, Steo	30,617	12.746	2,123,346	1,246 4.17	113,600	1111111111111111111111111111111111111		100 + 10 m	206,613	2 458		2,757,312	18.18	1, See Seb	128.955	224,000	145,685	792,051	5, 196, 564	205 (MIS)		61,162,311	1 378 165	101 TA	9.237.315
211,416	53,407	223 226	100.50	1.007,415	230,415	11,617	1	3		122,562	Hil	2	10. 10 M	197.456	12.0	11, Mer	1,907,624	327,827	2,009,453	1 12,553	ので、日本	100,671	(19) (19)	5.018.724	162.22	1,000,1 20	56,421,631	100 000 -	4.574.022	1.102.01
Prinsviates and chronitates	Alum and sulphate of alumina	Nalthetre	Carbonate of calcium precipitate	Chloride of line, bleaching lye.	: :	rations	Anthraquinome function in the state and oxalate of antinumy,	also double value of the same	Chemical and pharmaceutical preparations in the Chemical and pharmaceutical preparations	Phosphorus	2 •	Vegetable oils and glycerine, unrefined.	Aromatic welers, arouatic successiver, one of the		Varnishes	Matchen, clientical	Tanning materials	Dyeng mithetancem, maturation and a section of the	Madder	Indigu (not including extracts).	Cochineal Princian, Parisian, washing, etc.	White lead and zinc white	Red lead	Decing preparation	Alazirin and sumilar colours	Colouring and dyeing materials, n.e.s., blacking, ink, etc.	Total chenicals, drugs, colours, etc	() instal and metal wars of all kinds :	Metallic orea and ninerals	Manufactured iron, bars, rails and sheets



### MICROCOPY RESOLUTION TEST CHART

(ANSI and ISO TEST CHART No. 2)





1653 East Main Street Rochester, New York 14609 USA (716) 482 - 0300 - Phone (716) 288 - 5989 - Fax

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88 STATEMENT showing Imports into Russia; together with portious received from the United Kingdom, Germany and the United States during the Years ended December 31, 1912 and 1913-Con.

	Total Imports.	nports.	From United Kingdom.	Kingdom.	From Germany.	rnany.	From United States.	ed States.
ARTICLE4.	1912.	1913.	1012.	1913.	1912.	1913.	1912.	1913.
Ores, metal and metal wares of all kinds :- Con.	Roubles.	Roubles.	Roubles.	Roubles.	Roubles.	Roubles.	Roubles.	Roubles.
	9,525,940			1,702,015	4,651,636	6,858,473	1,051,457	906,540
Tin in pigs, rods, scrap and sheet.	316,943	401,705	8,133,379 193,890	196,961	1, USO (1)	172,995		101
Lead in pigs, scrap, rolls, sheet, wire, pipe; letharge; type metal unmanufactured	8, 897, 223	12,644,285			4,010,381	6,8.6,331	103,608	H6
Zine	5,420,732 3,421,472	6,309,735	338,400	944,041 9,261	2,927,066	2,967,889	99 90	*
Mannfactures of copper, aluminium, nickel, etc., and alloys thereof	10, 112, 024 3, 461, 950	10,384,246	201,069	222,103 488,815	9,108,780 2,685,868	9, 141, 874 3, 236, 451	57,347	18,81
Non and steel manufactures ;	1.226.066			148,764		1,115,362		
Boilernakeri work and pipes.	7,883,666	10,926,595	1,046,569	1,727,877	5,807,499	8,158,647	50,900 86,278	118,311
Wrought, turnen or janished.	5, 432, 483	5,835,016		182,240		5,152,411		
Wire of irou, steel and copper.	1,809,768 4,161,937	あ」、 「 72、 72、 73、 74 14 15 75 75 75 75 75 75 75 75 75 7		220,022		4,063,417		
Netdles.	1 412 (44	415,516		21.083		367,033		
Side arms, fire arms, cartridges	2, 947, 036	2,477,885		40,315		2,121,849		
Seythes, bills and sickles	1,029,687	1,408,110		115,758		778,228		
Hand tools.	5,233,183	5,972,081		132.5		4,096,125		
Manufactures of tin, zinc, etc., except fancy articles and				0 mm 0		A45 400		
toys	317,710			48,415	HSt 06	168,401	140	101
Times and foil. Bronzing powder of nou-precious metals.	98,582 349,901	120,321 343,515	104	1,270	140'0HS	113,573	:	
Machines and apparatus ; Of cast or wrought iron or steel, (fast and pertol motors, steam engines, locomotives, usining mercanaking and acoduceking merclines.								
	21,149,275	27,491,775	2,382,420	3,1,7,218	16,692,605	19,757,376	1,024,945	3,486,268

TRADE AND COMMERCE

1,017,528	924,153 11,072 43,970	5,280,234 17,500	3,523,942	258,047 64 20,176	584,000 16,167 10,000	2,120	18,304,898	186	722 48,641 3,717	182'19	47,374,613 251,858 32,108 32,108 176 176
622,206	1,485,504 9,281 84,305	6.310,490	13,128,369 1,840,476 46,705	110,528 1 2,874 15,324	618,600 17,659	351,760	28,014,423	916	761 49,431 7,250	. 58,367	44,707,697 447,526 447,526 111,567 10,374
12,011,150	30,965,459 656,211 9,291,945	9,924,716 2,534,350	3,024,960 13,806,338 502,327	18,614,244 267,615 1,668,068 5,865,267	13,790,806 4,204,941 312,500	1,264,890	236,426,449	1,054,782	1,836 490,638 5,562,649 3,552,703	11,075,210	27,381,602 1,194,128 13,371,137 466,945 466,945 24,323,345 701,292 5,100,733
6,809,449	28, 299, 262 445, 463 5, 827, 618	10,065,305 2,521,618	6,968,500 10,642,763 451,712	15,426,365 245,464 2,271,996 6,369,215	8,042,356 3,172,377 577,450	1,330,954	196,088,725	771,456 364,833	172 413,794 4,896,341 8,430,542	9,879,136	15,900,771 1,857,847 11,832,157 576,696 17,766,996 17,766,996
1,2346,916	9,290,022 159,342 514,792	2,2-3,801	3,735,706 2,418,730 44,333	359,351 1,236 8,501 168,342	1,512,320	2,853,000 27,515	48, 191, 691	261,422	2 19,183 343,593 65,949	608,353	9,502,854 481,543 215,650 215,650 5,535,739 5,636,739 18,296 3,580,509
1,0%6,359	6,925,526 33,350 33,350	2,596,410	3,908,108 2,071,720 58,135	316,730 719 2,645 90,104	804,190 403,997 4,500	809,500 58,488	40,559,210	52,446 8,367	11,477 250,909 63,469	392,668	9,363,222 (91,297 120,590 4,311,159 13,051 13,681 13,681 5,227,756
14,845,806	50,242,942 883,507 10,519,098	24,789,720	13,939,214 19,313,521 702,264	21,201,941 342,200 2,110,578 6,502,776	17,380,770 5,446,301 678,100	5,536,150	353,385,313	1,863,579 2,196,897	4,715,558 18,758,049 9,306,976 4,065,515	40,893,574	114,040,983 11,787,111 24,404,341 6,811,048 60,3399,830 860,806 9,876,412
9,4%,271	40,000,164 536,346 6.639,539	23,720,873 6,258,246	26,644,915 16,009,082 572,856	17.44%,786 248,999 3,070,891 7,143,508	10,818,765 4,232,369 816,090	3, 291, 354	303,556,216	1,449,266	4,501,427 13,739,951 8,409,735 3,878,416	33,881,482	94, 257, 568 11, 584, 892 22, 433, 902 49, 783, 273 49, 783, 273 963, 716 12, 820, 276
Metal working machines, except rolling machines and steam hanners, steam firs, engines, h eters,	Up text riters, see ung meanances. Other machines and apparatus of cast or wrought iron or steel. Of copper and its alloys.	Agricultural machines and implements without steam ninotes, news, and the province are interested to be a strain the steam of the strain strain the strain s	Reaping and binding machines, ploughs, threshers, rakes, cream separators, etc.	Physical, astronomical, mathematical, etc., instruments and electro-technical accessories. Spectacles, optical glasses, etc.	Values Instruction Instruction Automobiles	Vessels, searguing and river	Total ores, metal and metal wares.	Paper goods and typographic articles — Rags and pulp — Rags. Paper uplp and waste	Packing paper Packing paper Paper, all kinds, plain, white or coloured, n.o.p Other paper.	Total paper goods and typegraphic wars	Ty-xtiles and manufactures, thereof – Raw cotton Other vegetable fibrous ulustances, raw Raw wilk Silk cocoons, waste, wadding, etc. Vicol and down, uncombed, unspun Cotton erded, wadding, combings, etc. Cotton zerded, wadding, combings, etc.

STATEMENT showing Imports into Russia; together with portions received from the United Kingdom, Germany and the United States during the Years ended December, 31, 1912 and 1913.—Con.

	Total I	Total Imports	From Unite	From United Kingdom.	From Germany.	ermany.	*From United States.	ted States.
A KTUTABS.	1912.	1013	1912	1913.	1912.	1513.	1912.	1918.
	Rouhles	Roubles.	Roubles.	Roubles.	Roubles.	Roubles	Roubles	Roubles
Textice and manufactures thereof : Con. Yarns of juce flax, hemp, etc	341,871 2,447,018				165,438			7 <b>3</b>
Wool, combed Wool, spun or twisted.	1,983,221		~		911,812		:	202
Cotton tiesures. Cortage and twine of jute, henry, etc	4,733,465	3,206,006	1,063,317 812,242 15,048	1,662,102 219,856 9,888	973, 181 973, 181	1,419.763	2,515,758	11,023 1993,180 1993,180
Jute flax, hemp, etc. tisues					852,485			19
Develop (except once and set cront, expanning, certing of hemp or contron, how of hemp, etc					1239,714			11,308
All manufactures of works, routing carpets	16,738,870	17,431,556	2,282,811	2,691,466	11,664,863	11,901,521	4,718	12,177
Lace, embroideries and tulle					F,618,616			TO TO
Total textiles and manufactures, of	276, 140, 403	314,116,929	32,441,344	32,584,725	115,077,815	131,108,553	47,810,006	48,700,382
Wearing apjarel, huttons, jet, small wares, writing materials, etc Clothing				45,448 47,478	2,305,134 1,062,500	2,656,873 1,269,411		1,251 1851
Undorellast and parasols	2, 164, 614 1, 004, 129	2,332,601 2,332,601 806,188	17,343		1,796,160	1,934,029	162 4	
fet and beads	5,598,179 1.885,522			711 98,851 83,075	518,544 4,775,320 1,683,427	569,784 5,222,665 1.890,364		1,965
Archeological, numismatic, natural history, etc., collections. Samples	20,635			:	13,62%	4.526	:	
Total wearing apparel, small wares, etc	16,096,413	16,969,062	270,470	287,814	12,909,530	14,189,094	4,821	4,830
Total imports	1.171,772,247 1,374,033,895	1, 374, 033, 816	142,355,886	173,012,014	532,345,699	652,206,757	87,429,826	79,092,662

## TRADE AND COMMERCE

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#### SUPPLEMENT TO WEEKLY BULLETIN 91 110 30,556 56,649 5,679 1,566,644 96,029 3,402,352 11,262 2,540 2,540 3,856 1,170 36,415 18, 382 6,200 4,006 61 \*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\* ...... 31,397 Roubles. 1913. To United States. 12,905 61,613 11,064 1,300,252 116,789 11,076,947 6,221 4,200 35,670 16,255 250 10,910 36,060 57 6,7390 1,0500 1,0500 21,627 21,627 2,454 191,058 5,306 Roubles. 1912. 12,601,750 4,751,961 114,458,996 2,628,140 10,876,651 2,658,140 10,876,651 2,848,771 2,848,771 7,375,995 18,223 25,642,834 29,048,821 1,526,571 11,006,870 11,259,672 14,894,564 14,894,564 14,894,564 R. 873, 507 8, 774, 114 8, 607, 346 1, 122, 700 6, 664, 040 25, 009, 709 25, 009, 709 288, 130 288, 130 9 238,640 183.204,201 Roubles. 1913. To Gernany. 20, 962 23, 618, 382 246, 524 1, 084, 524 13, 201, 782 8, 532, 846 13, 023, 845 14, 884, 636 7,526,760 8,569,316 8,444,178 8,444,178 3,382,331 6,548,617 6,548,617 1,846,916 1,846,916 1,846,916 9,843,857 6,457,326 92,869,968 8,600,796 6,107,204 11,956,065 11,748 11,748 31,407,391 175,269,040 5,469,701 Roubles. 1912. 943 33,666,172 3,187,373 3,187,373 2,191,426 4,090,172 7,830,050 3,469,919 21,067,142 1,322,067 16,352,965 7,621,768 3,369,47 3,369,47 2,069 112,299 1230 339,387 1,217,759 51,152 161,791 161,791 162,290 162,290 1922,408 31,922,408 51,254,514 8,017,4%0 Roubles. To United Kingdom. 912. 31, 32, 144, 548 3 264, 129 13, 241, 258 4, 9640, 618 4, 9649, 926 4, 9649, 926 1, 258 1, 258 264, 247 340, 432 32,739,752 32,739,752 32,691,471 4,399,538 4,890,155 5,290,117 5,290,117 16,668,676 2,823,100 1,008,655 80 22,800 52,141 1,496,536 30,274,757 30,274,757 30,274,757 317,891 8,350,659 64,471,202 Roubles. 1912 225, 27 8, 214 32, 867, 680 186, "3, 009 186, "3, 009 19, 254, 761 17, 141, 962 17, 23, 797 7, 23, 797 17, 23, 797 17, 23, 797 17, 23, 797 17, 23, 797 17, 23, 292 13.884,801 9,466,921 10,067,143 5,250,996 8,571,132 71,558,007 4,244,827 1,728,539 43,894,694 90,645,691 86,817,524 7,370,612 17,652,047 20,368,617 20,368,617 37,107,252 38,686,741 50,085,959 594,501,147 Koubles. 1913. Total Exports. 1192,222,867 28,964,249 1138,138,151,151 1138,138,151 115,740,189 115,740,189 115,414,189 115,44,189 115,447,387 15,477,415 37,762,747 84,671,955 84,671,955 8,518,676 8,518,676 22,876,152 17,399,767 19,262,478 49,262,478 12.194,254 9,111,725 8,765 9,539,987 9,539,987 8,555,098 8,555,098 8,312,951 1,590,993 551,871,595 38,411,916 Roubles. 912 : Hemp, raw Leather and hides, untauned Dil cake ....... .... ....... ...... ..... Peas. ..... Maize..... : ••• •••• •••• Total corn, flour and meal..... ................. .................... Articles. Illuminating, petroleum, etc Oats Wheat.... Vorn, flour and meal :--Auimals: ---HOLAN | Bran Bristles

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	Total Experts.	k parta .	To United Kingdom.	Kingdom.	To Germany.	nany.	To United States.	States
Articles.	1912.	1913.	1919.	1913.	1912.	1913	1913	1913.
	Roubles.	Roubles.	Roubles.	Koubles.	Roubles.	Roubles.	Roubles.	Roubles
Seeds, olvaginous: Linered	20,392,010	10,070,138	7,646,738	2,453,383	5, 107, 347	2,430,974	16, 161	
Refired, in loaves	18,286,994	19,553,266 8,005,599	1,836	16 <b>4</b> .1.	1 866 655	611 80%		
Vood of all wrts.	153,380,303	164, 930, 111	68, 277, 444	66,908,582	43,401,500	12,263,649	200.345	315,969 1.421,506
I other articles	191,006,383	191,061,733	23,024,156	23,886,456	58,903,212	51,003,436		4,167,44
Total exports	1,518,797,567 1,520,134,721	1,520,134,721	327,810,746	267,801,113	453,827,894	453,584,437	18,007,014	14,154,94

# TRADE AND COMMERCE

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# COMPARATIVE TABLE of principal articles of import by sea from foreign countries into Russian Pacific Ocean ports during the years 1909-11.

ABTICLES.	1909-		1910.		1911.	
		£		£		£
Agricultural machinery, not specified tons.	782	20,642	1,829	43,535	2,124	52,580
Almonds and nuts	685	7,356 26,945	1,022	10.113	918	1.107
Almonds and nuts	1,250 2,959	26,945 5,623	1,566 1,526	38,731 5,133	1,864 3,223	789
Asphalt and tar	2,900	6,704	1,160	8,591	1,092	9,060
Basket and plated wares	33	206	14	79	273	1,501
Beer and stout	5,791	683	17,404	13,903	36,285	1,211
Belting, hemp and cotton tons.	5	269	9	1,053 1,617	12 259	1,517
Animal fat" Asphalt and tar" Basket and plated wares" Bears and peas	134	3,434	304	6,844	778	-12.210
Boilern, iron and steel, and boilermakers' work. Boots and shoes	26	9,001	8	2,028	4	?,21 24,74 27,84
Cables, ropes and twine, vegetable	696	19,958	751	21,609	737	24,74
Cast-iron wares,	774	11,412	1,020 29,989	16,763 129,926	1,939	131.27
Cattle	16,466	72,473 1,700	172	933	485	3.65
Cereals in the grain.	454	2,430	500	3,091	2,485	14,68
Children's toys ewt.	30	283	3	7021	4	1,55
Coal tons,	27,602	19,187	35,563 205	27,706 195	77,556	12,00
Coke	486	11,166	670	18,993	808	25,20
Children's toys			1			
etc "	610	14,840	777	45,825	847	2,89
Copper	52 12	$3,272 \\ 4,526$	11	$3,323 \\ 1,832$	9	3,65
Connistics and aromatic substances	14			1,010		0,00
Scutched and carded	71	4,519	89	6,316	112	7,46
Yarn.	26	3,521	1	1,960	28	3,80 2,76
Tissues Dynamo electrical machines and electro mo-				••••••		2,10
tors	79	10.383	93	6,037	176	9,43
Eggs, fresh			2,802	36,831	2,557	56,98
Eggs, fresh	22	3,387	24	5,630	42	8,40
our appliances	22	9,001	24	0,000	G	3,85
Electric technical measuring avoliances					4	1,36
Fancy and toilet articles	41	1,560	9	4,001	7	3,51
Fire bricks and tiles	582 81	1,040 3,222	1,514	1,965 1,972	3,249 108	3,01 4,4
Fishing nets	74	7,231	78	7,649	79	9,08
Electrical switches, communicators and vari- our appliances. " Electrical incandescent lamps. " Electrical incandescent lamps. " Fancy and toilet articles Fire-bricks and tiles Fish, oysters, etc" Fishing nets " Flour of all kinds except potato flour. " Flour mill machinery" Fruits and berries, fresh and dried. " Glassware"	4,483	40,152	333	3, 498	1,259	11,65
Flour mill machinery "	18	500 82,527	9,854			96,28
Fruits and berries, fresh and dried	8,276 2,755	30,760	3,425	80,883 37,320	3,019	53,15
Glassware	13	1,567	7	471	20	1,48
Hand tools "	1 0	6,250	505	20,224	736	30,96
Hand tools			31	1,120	660	13,7
Iron-	139	387	499	1.397	302	93
Flat, har and assorted.	4,608	30,340	6,249	42,520	8,629	61,76
Rails "	697	3,250 32,761	2,457	16,133	4,217	28,71
Cast	4,294	32,761	6,499	46,391	5,02	37,6
Iron and steel manufactures- Forged, stamped and monided	146	3,682	839	17,789	608	11,3
Iron not otherwise mentioned	1,344	39,923	1,587	38, 81 3,703	3,53	74.74
Knitted wares and trimmings	26	16,328	12	3,703	17	1,02
Leather belting	1	563 3,087	9 104	$1,686 \\ 4,268$	19 153	2.78
Locks	69	0,001	104	2,205	100	0,01
Waguna.	39	1,900	59	2,066	20	1,59
Machines and apparatus of cast iron, iron and				14.000		0.0
stee]	564		522 965	14,800 33,274	947 2.075	24,68
Machines and apperatus, parts of	643		3,279	81,814	2,777	64.8
Meat, fresh	3,212	4,891	30	707 1,708	97	3,1
Musical instruments		4,455				2,2
Naila, forged	46	809	96	1,817	66-39	95

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ARTICLES.	1909.		1910.		1911.	
		2		£		£
Paratin tons.	6	144	248	5,670	546	11,814
Pipes (metallic) of all kinds	422	6,723	836	16,433	1,174	18,940
Ploughe	807	5,480	214	6,183	214	4,147
Portable engines	237	11,340	319	12,801	593	24,020
Potatore	163	405	235	968	2,467	7,843
Punips, hand and fire	11	498	44	1,700	76	2,32
Salt	29,887	75,000	50,356	106,234	58,190	113,881
Soythes, shovels, rakes, etc	250	5,306	837	15,604	936	18,02
Sewing machines	891	28,608	189	13,032	380	39,20
Boda and potash	1 283	7,610	1,679	10,667	2.028	11,43
spirituous liquors Rul.	62,313	39,486	11,390	9,607	26,913 134	11,57
Steam engines tons.	13	704	000	1,004	194	9,61,
Steel-	137	728	516	2,870	648	3,200
Assorted, in billets and scrap	87	618	132	940	418	3.00
Fanning materials	13	90	85	410	135	1.86
Threshing machines	1.1				89	1.28
Vegetable oils and glycerine	461	11.969	1.254	29,203	1,221	32.88
Vegetables	6,227	85,460	8,630	36,230	7,648	36,08
Weighing scales	36	2,246	79	3,239	153	6,58
Winnowing machines			2	(10	36	1,87
Wire nails and barbed wire			3,339	47,334	3,339	47,33
Wooden manufactures	1.827	8,508	401	10,279	337	10,75

COMPARATIVE TABLE of principal articles of import by sea, &c .-- Continued.

# COMMERCIAL INTELLIGENCE SERVICE.

Canadian Trads Commissioners and Commercial Agents should be kept supplied with catalogues, price lists, discount rates, stc., and the names and addresses of trads representatives by Canadian experters. Catalogues should state whether prices are at factory point, f.e.b. at port of shipment, or which is preferable, c.i.f. at foreign port.

## CANADIAN TRADE COMMISSIONERS.

### Argentine Republic.

H. R. Poussette, Reconquista, No. 46, Buenos Aires. Coble Address, Canadian.

#### Australia.

Stock Exchange Building, D. H. Ross, Stock Exchange Build Melbourne. Cable Address, Canadian.

#### British Wset indiss.

E. H. S. Flood, Bridgetown, Barbadoa, agent also for the Bermudas and British Guiana. Cable Address, Canadian.

#### China.

J. W. Ross, 13 Nanking Road, Shanghai. Cable Address, Cancoma.

#### Cuba.

Acting Trade Commissioner, Lonja dei Comercio, Apartado 1290, Havana. Cable Address, Cantracom.

#### Francs.

Phillippe Roy, Commissioner Generai, 17 and 19 Bouisvard des Capucines, Paris. Cable Address, Stadacona.

#### Japan.

G. B. Johnson, P.O. Box 109, Yokohama. Cable Address, Canadian.

#### Holland.

cting Trade Commissioner, Zuidbiaak, 26, Rotterdam. Cable Address, Watermill. Acting

### Newfoundland.

W. B. Nicholson, Bank of Montreal Build-ing, Water street, St. John's. Cable Address, Canadian.

### New Zealand.

W. A. Beddoe, Union Buildings, Customs street, Auckland. Cable Address, Canadian.

### South Africa.

. J. Egan, Norwich Union Buildings, Cape Town. Cable Address, Contracom. W.

#### United Kingdom.

- Acting Trade Commissioner, Sun Building, Clare street, Bristol. Cable Address, Canadian.
- Centrai House, Birmingham. E Ray. Centrai House Cable Address, Canadian. 3.
- Acting Trade Commissioner, North Billish Building, East Parade, Leeds. Cable
- F. 1 ` · uconi.
- mith, Fruit Trade Commis-ada Chambers, 36 Spring Gar-J. 540 .nchester. a
- J. T. Lithgow, 87 Union street, Giasgow, Scotiand. Cable Address, Contracom. Harrison Watson, 73 Basinghail street, London, E. C., Engiand. Cable Address, Sleighing, London.

### SPECIAL TRADE COMMISSIONER.

#### Lumber.

H. R. MacMillan, visiting Europe, Africa, Australasia and the Orient.

C. F. Just, Russia.

### CANADIAN COMMERCIAL AGENTS.

### British West Indies.

Edrar Tripp, Port of Spain, Trinidad. Cable Address, Canadian.

R. H. Curry, Nassau, Bahamas.

### South Africa.

- D. M. McKibbon, Room 14, Permanent Buildings, Harrison Street, Johannesburg.
- burg. E. J. Wilkinson, P.O. Box 673, Durban, Natal.

### Norway and Denmark.

C. E. Sontum, Grubbeged No. 4, Christiana, Norway. Cable Address, Soniums.

### CANADIAN HIGH COMMISSIONER'S OFFICE.

#### United Kingdom.

W. L. Griffith, Secretary, 17 Victoria street, London, S.W., England. Cable Address, Dominion, London.

### ENLARGED CANADIAN TRADE INTELLIGENCE.

Under the arrangement made by the Minister of Trade and Commerce with Sir Edward Grey in July, 1912, the Department is able to present the following lie<sup>4</sup> of the more important British Correlates whose officers have been instructed by the Foreign Office to answer inquiries from and given information to Canadiane who wish to consult them in reference to trade matters.

#### Brazil:

Bahia, British Consul. Rio da Jansiro, British Consul General.

Chile:

Valparaiso, British Consul General.

#### China:

Harbin, British Consul.

#### Colombia:

Bagota, British Consul General.

#### Ecuador:

Quito, British Consul General.

Egypt:

Alsxandria, British Consul General.

#### France:

Havrs, British Consul General. Marseilles, British Consul General.

#### india:

Calcutta, Director General of Commercial Intelligence.

#### italy:

Genoa, British Consul General. Milan, British Consul.

Mexico: Mexico, British Consul General. Netheriande: Amsterdam, British Consul.

Panama: Colon, British Consul. Panama, British Vice-Consul.

#### Peru:

Lima, British Vice-Consul.

Portugal: Lisbon, British Consul.

Rueeia:

Moscow, British Consul General. Petrograd, British Consul. Vladivostock, British Consul. Odessa, British Consul Gereral.

#### Spain:

Barcelona, British Consul General. Madrid, British Consul.

#### Sweden:

Stockholm, British Consul.

### Switzerland: Geneva, British Consul.

## Uruguay:

Monte Video, British Vice-Consul.

### Venezuela: Caracas, British Vice-Consul.

# PUBLICATIONS OF THE DEPARTMENT OF TRADE AND COMMERCE.

### Annual Report.

PART I.—CANADIAN TRADE:— Imports into and Exports from Canada. (Itemized and General Statements.)

PART II.-CANADIAN TRADE :--

- 1. With France.
- 2. With Germany.
- 3. With United Kingdom.
- 4. With United States.

PART III .-- CANADIAN TRADE :--

With British and Foreign Countries. (Except France, Germany, United Kingdom and United States.)

PART IV .- MISCELLANEOUS INFORMATION :--

Bounties. Commercial Intelligence Service. Gold and Silver Marking Act, Administration of. Lumber and Staple Products. Revenue and Expenditure of Department of Trade and Commerce. Statistical Record of the Progress of Canada. Tonnage Tables.

PART V.---GRAIN STATISTICS.

PART VI .-- SUBSIDIZED STEAMSHIP SERVICE.

PART VII.-TRADE OF BRITISH AND FOREIGN COUNTRIES.

### Monthly Reports.

Census and Statistics. Trade and Commerce.

### Weekly Bulletin.

(Circulated within Canada only.) Containing Reports of Trade Commissioners and General Trade Information.

## Miscellaneous Publications.

Canada Year Book. Census Returns. Criminal Statistics. Directory of Foreign Importers. Grain Inspection in Canada. List of Licensed Elevators.

