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Excorpt from "MANCHURIA -Land of Opportunity" Publication of South Manchuri Railway Company, New York,

Chapter II.

II. NATURAL RESOURCES OF MANCHURIA

(1) AGRICULTURE

The Garden of China--"Manchuria," says the Encyclopedia Americana (1921), "has one of the richest soils in the world, and, with the development of the soya bean industry, has grown more rapidly than any other Chinest province. In the summer the southern part looks to an American much like Illinois, and one may find on its northern hills lilies-of-the-valley, pink peonies, white and yellow daisies and the fragile dog roses, as in Wisconsin and Minnescta. With the exception of the four icelocked months, its fields are luxuriant with wheat, barley and millet, so that it has come to be called the "Garden of China."

The "Economic History of Manchuria," published by the Bank of Chosen (an interesting and valuable contribution to the growing literature of Manchuria) states: "Manchuria is yet the most Tavored spot for agriculture in the Far East, and its opportunities may well be termed "immense". That great mass of level land, extending over the whole of Central Manchuria and comprising the basins of the Lizo, Sungari, Nonni and Hulan, the productivent of which can compare favorably with any part of Japan or Korea, is by itself large as the whole of the Chinese Peninsula* or of the mainlend of Japan, and, to those who know how little of level land there is in these two countries that is really arable and actually under cultivation, it will not be all difficult to imagine the wonder in which the two peoples look upon this apparently boundless extension of rich field. An American genteleman with whom the author had the honor of traveling in Manchuria ejeculated, as the train was drawing near to Mckden, 'This is exactly what we see in America,' as though relieved at seeing something homelike after a long journey through apparently endless chains of rugged mountains in Japan and Chosen."

Area under cultivation -- The aggregate area under cultivation in Manchur: and Eastern Inner Mongolia is about 30,000,000 acres. The arable land await. development is estimated at 34,000,000 acres. The land being reclaimed is estimated at about a million acres a year.

Railways stimulating agricultural production--Until quite recently the crops were transported through inadequate waterways and by primitive Manchuri carts, but the establishment of railways and the highly effcient port of Dairen has made a radical improvement in transportation methods. The Chinese Eastern Railway, the South Manchuria Railway, and the Feking-Mukden Line of the Chinese Government Railways are now carrying annually large numbers of immigrants and great stocks of agricultural produce.

Methods of cultivation--Agricultural methods in many parts of Asia have changed little in centuries. But in Manchuria a great change has taken place since the South Manchuria Railway inaugurated its program of economic development work. Modern methods are taught the native farmers; the fertility of the soil has been increased; the yield and quality of the great staple crops have been improved; and new plants and trees have been introduced.

For this reorganization of Manchurian farming, the Agricultrural Experiment Stations instituted by the railway are primarily responsible. These station, similar in many respects to those in the United States, seek to bring to Manchuria the latest world knowledge of scientific agriculture.

At Kungchuling (in the heart of Manchuria, 400 miles north of Dairen) is the main experiment station. Here are being carried on important experiments in animal breeding. Merinos from the United States have been bred with the native sheep, increasing the quality and yield of wool, and thus giving great impetus to the export trade.

Much has been done to increase the oil content of Manchuria's Chief

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product, the soya bean, and better cultural methods have been taught the farmer. Sugar beets are theing grown extensively, and beet sugar manufacture has become one of the important new industries of Manchuria.

The arboriculture work at the Hsiungyaocheng experiment station has been productive of most; more than tresults in reforestation and afforestation. Much of this country was barren of trees. But now big orchards dot the southern part of Manchuria; American apples and grapes have been successfully in traduced and the fragrant perfume of acadia and pear blossoms falls the air is springtime. In Northern Manchuria there have been planted many Chinese oplars, from the wood of which match stems and pulp are made.

Experments are going forward at Hsiungyaocheng for the improvement of the cultivation of the incipal expertation of the principal expertation. Wild silk is one of the principal expertation.

Agricultural products -- The chief agricultural products of Manchuria are soya beans, kaolia ig (a sort of sorghum), milet, maize and wheat.

The output of the leading crop in 1923 was as follows (in tons), though: is should be mentioned that fields were somewhat below the average on accourt of unfavorable menther:

	"aoli ng	Fillet	Saya Beans	Corn	Barley	Thoat
Fengtier Province	2,032,500	832,600	1,152,920	627.100	72,120	105.4"
Kirin P: ovince	1,213,820	318,260	1706,870	571,120	105,140	255,2:
Heilunghiang Provinge	475,290	159,500	525,440	121,610	77,460	209,76
Eastern Inner Mong, clia	349,140	220,500	1 10,030	29,420	14,100	28,13

Soya beans -- "he United States Department of Agriculture, in a recent report, made this statement: "The rapid rise of the soya bean to a crop of special importance in the world's commerce in the past few years is one of the most remarkable agricultural developments of recent times."

The soya bean has been an important product of food and general utility in China for 5,000 years, but at is only during the last few years that America and Europe have learned of the importance of this staple of the soil of Manchuria. The Japanese firm of Mitsui & Company made the first shipments abroad in 1908, when 100 tons were exported to England. Huge quantities of soya bean oil were exported to the United States during the World War to supply essential raw meterials.

The development of a world market for Manchuria's chief trade product has resulted from the activities of the South Manchuria Railway Company in improving the quality of the soya bean and exploiting new uses for it through its agricultural research laboratories, and in systematizing the transportation and merchandizing of the crop. The growth of the idustry has provided employment for hundreds of thousands of Chinese, who have been attacted to Manchuria from the neighboring provinces, chiefly from Shantung.

"ithits very high content of protein (40%), the soya bean has been characterized as a "modern manna." Among its many uses the Department of Agriculture has listed these:

Plants.	(Pasture.	(Hay. (Ensilage (Soiling) (Human food	(Breakfast foods. (Diabetic foods. (Flour	(Bread. (Cakes (Muffins (Biscuit
	(((((Glycerin (Explosives (Enamels (Varnish	(D. + + + - + - + - +	
Seeds.	((Oil (((Food products	(Butter substitute (Lard substitutes (Edible oils (Salad oils (Soft soaps (Hard soaps	
		(Printing inks (Lighting (Lubricating (Dried beans	(Soy sauce (Bciled beans (Baked beans (Soups (Coffee substitute	((Fresh (Dried
	((Food	{	(Roasted beans (Vegetable milk (Breakfast foods	(Chese (Smoked (Fermente (Condensed milk
		(Green beans	(Green vegetables (Canned (Salads	(Fresh milk (Confections (Casein

From the busy port of Dairen, the gateway to Manchuria and the southern terminus of the railway, merchant ships of many nations now carry great cargoes of soya beans and bean oil to leading ports all over the world. Beans are exported mostly to China and Japan, bean cake to Japan, and bean oil most to Europe and America.

In South Manchuria there are about 200 large bean mills, using various methods of oil expression, from the primitive hand press to motor power. Dairen, the chief center of this industry, has 82 milis. A new process to extract oil by means of chemical action was adopted at an experimental bean mill built by the South Manchuria Railway Company in 1915, and in pursuance of the company's policy, when the superiority of the process had been established, it was turned over to private management to develop commercially. Another development in the bean-oil industry is also due to an invention made at the company's laboratory for the hardening of bean oil and the manufacture of stearin, olein, glycerine, etc., which led to the establishment of a private company for its special exploitation.

Soya beans of Manchuria are divided into four classes, according to color-yellow, white eyebrow, green and black. The chemical composition of soya beans, according to analyses made in the Dairen Central Laboratory, is as follows (the figure showing percentages):

	Albumi-			Carbo-		
	Moisture %	%	%	hydrates %	%	%
Vhite Eyebrow Creen Bean Black Bean	12.34	37.35 36:47	17.37 16.23	25,08	4.92 5.12 4.89 5.96	4.36

Kaoliang (a sort of sorghum) -- The staple food of the native population is kaoliang, and it is also the principal grain food of the numerous animals kept for farm work and the carrying trade of the three provinces.

Before soya beans attained their present importance, half the total area of the cultivated land in Manchuria was devoted to knoling, and a large amount of it was experted to other provinces of China. Recently the cultivation of knoling has given place to that of beans in many places. In Manchuria approximately 26% of the cultivated area is devoted to knoling. 20% to beans, 20% to millet, 14° to corn, 8.5% to wheat and 11.5% to other crops. The acreage of corn runs higher than this average in South Manchuria, and that of wheat higher in North Manchuria.

The average annual production of knolling in Manchuria is estimated at about 220,000,000 bushels. It is not only used as a foodstuff for man and beast, but the native spirituous drink is also made out of it. Nor are the grains the only useful part of it; the stalks play a very important role. The outer less layers are woven into mats, so much required in the trade of the country, for roofing ricks and packing loads of grains and beans, and for numerous other purposes. The stalks are also utalized for fencing, bridging and housebuilding, and for fuel and pump. Knolling spirit, extensively used in both Manchuria and Mongolia, is colorless and transparent, and possesses a strong flavor, which peculiarly appeals to the taste of the natives.

Millet -- As a staple food of the native population, millet ranks next to kaoliang, and in North Hanchuria, where knolling does not thrive so well, it is the main food of the inhabitants. It is also important as material for fodder. Fillet is cultivated throughout M natural, but north largely in the north than in the south. The annual production is about 160,000,000 bushels. Its importance as an article of trade is growing.

Maise-Maise, or Indian corn, is grown in Manchuria in the same way as kaoliang. It is divided into three kinds-yellow, red and a native breed called laolaichou. It is grown in the southern part South Manchuria and also in a part of North Manchuria, and also forms an important article of food. In North Manchuria, an intoxicant is brewed from it. The stalks are used as fuel, while the dry blades are good for fooder. The exep is about 60,000,000 bushels.

Lheat—North Manchuria is an ideal wheat field, and this cereal is there grown in considerable quantities. The best wheat fields are around Ningan, Petuna and Harcin, along the right bank of the Sungari, and in the country around Suiwha. In South Manchuria wheat fields are mostly around Haifeng and Hailung, and the country lying to the west of the Liao, while Tiehling has one of the largest flour mills in Manchuria. Theat has been cultivated in Manchuria from very early times, but only recently has the production been sufficient to encourag export. Manchurian wheat has began to take its a keen demand in Europe, 444,000 tons are exported through the port of Deiren large quantities of wheat flour.

Barley--The cultivation of barley in large quantities dates from the Russo-Japanese War, when the Japanese army in Manchuria created a demand for it as the grain food for horses. It is now cultivated in considerable quantities around Changchun, Kungchuling, Liaoyang and Haicheng. It is used by the natives as food and as feed for their animals. It is also used in the distillation of a native drink. Its annual production is estimated at 30,000,000 bushels, in round numbers.

Buckwheat--Buckwheat is an autuman crop which requires only two and a half months to ripen, being sown in July and harvested in September. It is often sown after wheat, or takes the place of other crops when these fail on account of drought or excessive rainfall, so that one harvest at least may be obtained from the soil. It is ground into flour and made into a kind of macaroni baked into cakes, or boiled to make gruel.

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Def. Doc. No. 203-3-1 Fice -- Fice in Manchuria is not extensively cultivated in paddy fields, but it is grown on dry land like other cereals. The production has never been very large, for the Chinese in Fanchuria de not care much for it. The demand is now fast growing owing to the entry of the Japanese into Manchuria. Just as the Rugsian entry into the north stimulated the cultivation of wheat, that of the Japanese in the south is encouraging rice cultivation there. The cultivation of lowland rice was first undertaken by the Korean immigrants , then it was followed by the Chinese, and today many Japanese are engaged in the cultivation of it along the railway lines. Hemp and jute -- Femp is grown in all the three provinces of Manchuria, about three-fourths of the total production being in the southern part. Jute is grown along the Liao, Nonni, Sungari and Tumen Rivers. About three-quarters of this crop is produced in North Fanchuria. / large part of the homp and jute is consumed where it is grown, but there is some surplus for export. Foreign shipments of hemp, jute and ramie at Dairen in some years have amounted to more than 2,000,000 pounds. Hemp plants cultivated for seed are not as a rule utilized for fiber, or, if they are, the yield is of a very poor quality, The best hemp, white and tenacious, is produced in Eengtien Province, and is generally woven into cloth, while the next quality is produced in Marin Province, and is generally made into thread. A more ordinary quality is made into nets and rones, and tim poorest is used for paper-making. Jute is less flexible than homp, but because of its waterproof nature is used in the making of bags, ropes, nets and string, and various shipping and fishing tackles. In 1916 a company was formed in Dairon to manufacture homp bags, using Manchurian hemp and Indian jute. Tobacco -- Tobacco is one of the staple products of Manchuria. The best leaf is raised around Kirin. It is Blended with foreign leaf in making cigarettes. The British A crican Tobacco Company has a factory at lukden, and the East Asia Tobacco Company and the Toa Tebacco Company have factorics at Yingkou. The export of the native leaf is increasing. Cotton -- Cotton is grown only in the region lying to the south of a line drawn between Tichling and Kangping. Cotton in Hanchuria was originally cultivated on a very small scale by the farer for the use of his own household, and it was only accound Liaoyang and Chinhsien that cotton was brought to the market as an article of trade. Wild silk -- The cultivation of rild silk was begun in China some 1,800 years ago and was introduced into the Manchurian provinces by immigrants from Shantung Province about a century ago. Wild, or tussah, silk is used in the manufacture of pongee. The industry developed year by year, taking into the silk region district after district, until it now comprises almost the whole country, including in the south the Leased Ter itory of Kwantung and, further north, the towns of Kniyuan, Changtu, Hailung, Taghwa, etc; in short, nearly all South Lanchuria. Antung and Kaiping are the principal centers of this silk trade. More than . . . 9,000,000 worth of wild silk was exported from South Monchuria in 1922. Sugar beets .-- The soil is adapted to the sugar beet, and especially around Mukden are large tracts under cultivation for the South Manchuria Sugar Refining Company. The development of the beet sugar industry has been stimulated by experiments conducted at the Agricultural experiment Station since 1914. The average percentage of sugar in beets is 15.34% Other crops-- Canchuria has great possibiliti s as a fruit-growing country, and it is quite possible that it may develop into a great wineproducing region, owing to its natural fitness for the cultivation of the vine. In the belt from Kwantung north to Mukdon, the orchard industry grapes, etc., are now being grown. anchurian furas also produce potatoes, oats, red and kidney beans, etc. Stock raising -- efore the immigration of the Chinese from the south, the chief occupation of the original Hanchus was the raising of stock. With the entry of the Chinese, the rich pastoral grounds which then covered the greater part of the country were converted one after the other into grain fields. Thus agriculture rese but stock-farming waned. A shadow of the old pastoral age is still visible on the Tongolian frontier and in the Western part of Heilungkiang Province, where the inhabitants are engaged in the breeding of cattle. Besides, the Lanchurian farmers generally keep large numbers of horses, mules, donkeys, oxen and pigs. - 5 -

Def. Doc. No. 203-9-1 Rice -- Fice in Manchuria is not extensively cultivated in paddy fields, but it is grown on dry land like other cereals. The production has never been very large, for the Chinese in Vanchuria de not care much for it. The demand is now fast growing owing to the entry of the Japanese into Manchuria. Just as the Rumsian entry into the north stimulated the cultivation of wheat, that of the Japanese in the south is encouraging rice cultivation there. The cultivation of lowland rice was first undertaken by the Korean immigrants . then it was followed by the Chinese, and today many Japanese are engaged in the cultivation of it along the railway lines. Hemp and jute -- Hemp is grown in all the three provinces of Manchuria, about three-fourths of the total production being in the southern part. Jute is grown along the Liao, Nonni, Sungari and Tumen Rivers. About three-quarters of this crop is produced in North Manchuria. A large part of the hemp and jute is consumed where it is grown, but there is some surplus for export. Foreign shipments of hemp, jute and ramie at Dairen in some years have amounted to more than 2,000,000 pounds. Hemp plants cultivated for seed are not as a rule utilized for fiber, or, if they are, the yield is of a very poor quality. The best hemp, white and tenacious, is produced in Eengtien Province, and is generally woven into cloth, while the next quality is produced in Marin Province, and is generally made into thread. A more ordinary quality is made into nets and rones, and the poorest is used for paper-making, Jute is less flexible than hemp, but because of its waterproof nature is used in the making of bags, ropes, nots and string, and various shipping and fishing tackles. I 1916 a company was formed in Dairen to manufacture hemp bags, using Manchurian hemp and Indian jute. Tobacco -- Tobacco is one of the staple products of Manchuria. The best leaf is raised around Kirin. It is Blondod with foreign leaf in making cigarettes. The British A crican Tobacco Company has a factory at lukden, and the Fast Isia Tobacco Company and the Toa Tobacco Company have factorics at Yingkou. The export of the native leaf is increasing. Cotton -- Cotton is grown only in the region lying to the south of a line drawn between Tichling and Kangping. Cotton in Hanchuria was originally cultivated on a very small scale by the farrer for the use of his own household, and it was only around Liaoyang and Chinhsien that cotton was brought to the market as an article of trade. Wild silk -- The cultivation of wild silk was begun in China some 1,800 years ago and was introduced into the Manchurian provinces by immigrants from Shantung Province about a century ago. Wild, or tussah, silk is used in the manufacture of pongee. The industry developed year by year, taking into the silk region district after district, until it now comprises almost the whole country, including in the south the Leased Ter itory of Kwantung and, further north, the towns of Kaiyuan, Changtu, Hailung, Tanghwa, etc; in short, nearly all South Lanchuria. Antung and Kaiping are the principal centers of this silk trade, Nore than . .. 9,000,000 worth of wild silk was exported from South Manchuria in 1922. Sugar beets .-- The soil is adapted to the sugar beet, and especially around Mukden are large tracts under cultivation for the South Manchuria Sugar Refining Company. The development of the beet sugar industry has been stimulated by experiments conducted at the Agricultural experiment Station since 1914. The average percentage of sugar in beets is 15.34% Other crops--Manchuria has great possibiliti s as a fruit-growing country, and it is quite possible that it may develop into a great wincproducing region, owing to its natural fitness for the cultivation of the vine. In the belt from Kwantung north to Mukden, the orchard industry grapes, etc., are now being grown. anchurian furns also produce potatoes, oats, red and kidney beans, etc. Stock raising -- Tefore the immigration of the Chinese from the south, the chiof occupation of the original Manchus was the raising of stock. With the entry of the Chinese, the rich pastoral grounds which then covered the greater part of the country were converted one after the other into grain fields. Thus agriculture rese but stock-farming waned. A shadow of the old pastoral age is still visible on the Vongolian frontier and in the western part of Heilungkiang Province, where the inhabitants are engaged in the breeding of cattle. Besides, the manchurian farmers generally keep large numbers of horses, mules, donkeys, oxen and pigs. - 5 -

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The Chinese have always been s'illful in using domestic animals on the farm. Five or six head of cattle, horses, mules or donkeys are often hitched at random to a heavily loaded cart, and this motley team is managed with admirable dexterity by a Chinese driver. Sheep and goats are plantiful, especially in longolia, where the inhabitants depend largely upon them for meat, milk and cheese.

Recent estimates of the live stock in Manchuria and Eastern Mongolia gave the following figures: horses, 2,500,000; mules, 600,000; donkeys, 600,000; cattle, 2,200,000; sheep and goats, 2,600,000, and swine 6,300,000. Nearly every farmer keeps a few domestic fowls. The total number was estimate at about 9,000,000 a few years ago, but it is impossible to give such figures with much exactness.

The horses are principally of Mongolian breeds, rather undersized, but with great endurance. ules, unknown in Japan, have long been bred in China. They command higher prices than horses. The donkeys are used in Marming and hauling.

The cattle are of Korean, Shantung, anchurian and Mongolian breeds. The Chinese keep cattle as draft an malls, and the longolians for the silk they yield, the beef being regarded as a by-product. The cattle in South Manchuria and Inner Hongelia have not been properly bred, and there is a great opportunity for improving the different brueds by the mixture of foreign stock. The sames is true of sheep and pigs. The native sheep give only about three pounds of wool. With the recent development of the "coolen industry in Japan, both wool and goats' hair have been exported in considerable quantities. In south Eanchuria goat raising takes the place of sheep raising among the Chinese. Pigs' bristles are exported for brushes, The South Wanchurka Prilray Company, through its agricultural experiment stations, is importing American and British stock, and in time Manchuria may be expected to develop into one of the finest grazing count rice of the world. Crossing the native sheep with Merines has increased the output of wool of two-year.old mixed sheep from 3.4 to 6.2 pounds. The second breeding with Merinos trebled the output of wool, Bred with Southdown sheep, the output of wool was increased to 4.5 pounds and, with Shropshire, to 5.9 pounds.

The export trade in animals and arimal products is bound to grow rapidly as modern breeding methods become more widely practiced. According to statistics compiled by the Research Office of the South "anchuria Railway Company, the principal exports of these products from the three ports of South Manchuria in 1922 were as follows:

Cattle (number)	2,330
Wool, hair and feathers (15s.)	
Bristles (1bs)	
Leather, hides and skins (value)	\$ 317,060
Horns and teeth (lbs.)	106,400
Bones (tons)	9,000
Poultry (number)	127,900
Eggs (dozen)	

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(2) FORESTRY

Distribution of forests--In Sout anchuria, the foot of the Chargeai Mountains, along the upper reaches of the Sungari, the utan and the Tumen rivers and also the upper parts of the Yalu and the Hun are densely wooded; while in North Manchuria, the districts about Hailin on the Eastern Section (between Harbin and Pogranichnaya) of the Chinese Eastern Railway and about Sansing in Kirin Province are the principal forest lands. Mongelia is a vast plain consisting of level land grown with grass a d dotted with dunes. Nothing like a forest can be seen.

The forest areas are estimated as follows:

a. On the right bank of the Yalu and along the Mun River--1,600,000 acres with 6,900,000,000 cubic feet of timber.

b. On the upper parts of the Sungari, the Mutan and the Tumen--4,800,000

Def. Doc. No. 203-B-2, cont'd Excorpt from "LANCHURIA acres with 26,000,000,000 cubic feet of timber. Land of Opportunity" c. In the Eastern Section (between Harbin and Pogranichnaya) -- 6,000,000 acres with 18,500,000,000 rubic feet of timber. d. In Sansing district -- 13,000,000 acros with fifty-two billion cubic fact. e. As to the forests in and about the Hingan Mountains, no data can be abtained, except that in the districts within a radius of about 30 miles around Horgo and Hingan Stations, the average timber asset is put at about 1,300 cubic feet to the acre. Forest conservation -- anchuria needs afforesting in many places. Hills and mountains nor barren but capable of being covered with fine forests fot the benefit of the people, both from an economic and hygienic point of view, are visible everywhere. This is especially true in Kwantung, which is mountainous, yet with few trees on the mountains. The only trees in that region, when the administration was handed over to Japan, were a few willows and elms near villages and tembs. Mursery gardens were established at Port Anthur, Chinchor and Dairen, to supply saplings for afforestation undertaken by the Government. Several million young trees have been planted annually for the last several years. The Fushum Colliery has instituted a very extensive program of afforestation to provide timber for the mines. It is estimated that 54,000 acres must be planted with 110,000,000 trees, and the program calls for the completion of this plan in a period of thirty years. In the first year, 1919, an area of 980 acres was planted with 2,000,000 young trees, and at the same time 44,000,000 sprouts were started in the nursery fields. Also, to encourage the general public in this useful undertaking, forest lands are rented free of charge to those desiring to afforest them, and seeds and young plants are supplied to them. Regulations have also been published for the protection of forests. These measures have had the desired effect, a d, with the increase in the interest taken by the public in the matter of alforestation, many nursery gardens comed by villages have been formed. Varieties of trees -- About 3000 kinds of trees are known in Manchuria, but the principal varieties number about 20. About 40 percent of the forests ere conifers, and 60 per cent brad-leafed trees. Korean pines are the most common conifers. They are frequently from four to five feet in diameter, reaching a height of more than one hundred foot. Oaks, elms and poplars are the most common broad-leafed trees. Timber industry -- As timber markets, Kirin and Antung come foremost, followed by such consuming centers as Harbin, Changehan, Mukden and Dairen. Kirin andAntung come foremost, followed by such consuming centers as Marbin, Changchun, Liukden and Dairen. Kirin haslong been a timber center. Along the eastern section of the Chinese Eastern Railway, the railway manage ment and Russians and Chinese have had railway sidings built to their lumber yards and are operating saw mills. Both Kirin and Yalu timber is carried dom the rivers Doc 203-E-3 (3) FISHERIES Salt water fisheries -- Fith the Yellow Sec to the east and Gulf of Pechili to the west, and a coast line of 500 miles, the Leased Territory of Krantung offers an ideal field for the fishing industry, The annual catch is placed at about 25,000 tons, valued at some . 600,000. The catch includes tai, cod, swordfish, guchi, sawara, sole, flounders, suzuki(bass), shark, nibe, sardines, shirasu, cuttlefish, octopi, sea-slug, oysters, earfish, prayms, lobster, crabs, whales, seals, etc. The whale-fishery about Haiyangtoo Island, near which the natal battle took place in the Chinose-Japanese Far, is undertaken almost exclusively by the Oriental Uhale Fishry Company. The catches are forwarded to Shimonoseki. Seals are captured on the Ice-floes in the north of the Vellow Sea and also in the north of the Gulf of Pechili when the ice in the coast-waters breaks up on the return of spring. Encouragement of fisheries -- For the benefit of the fishing community the Kwantung Government established an experimental station for fishery products

203-B-3, cont'd Dicerpt from "MA CHURIA -Land of Omortunity" in 1908 at Rokotan, about a mile south of Dairen. The station is provided with factories, fishing goar, store rooms, warehouses and drying chambers, and also with boats to undertake experimental fishing and explore the adjacent seas. There is also an association organized to protect and develop the com on interests of the fishing community. Fresh water fisheries -- Fresh water fisheries are extensively conducted in all large rivers, notably in the Liao and Yalu in the south, and the lower reaches of the Sungari and its tributary, the Murka. The fish consist mostly of salmon, salmon trout, carp, eals, etc. The Sungari also produces poarls. At one time no fewer than 7,000 to 8,000 pearls annually are said to have been taken from that river in the neighborhood of Kirin. Doc 204-B-4 (4) MINING Development of mining -- Mining in South Manchuria is of remote origin. Local tradition declares that the coal mine at Fushun was worked as early as the twelfth century, buts its working was prohibited by the founder of the Manchu Dynasty from a superstitious belief in fengshui (Spirit of Mature) . There were evidently some other mines once worked. But, except for some conspicuous ones, traces of their working have been entirely effaced by the elements, particularly by the landslides caused by the indiscriminate felling of trees. It seems that most old mines were discovered during the course of this general deforestation, but this same action doomed the face of the mines thus discovered, since it deprived them of the wood indispensable in mining. Even after the removal of the prohibitory law, every possible obstacle was laid wittingly or unwittingly in the way of mining exploitation. Mining in the modern sense was first introduced into the country by the Russians when they, jointly with the Chinese, undertook to work the Fushun coal mine. But real progress in the industry began with Japan's succeeding to the Russian privileges and handing them over to the South Hanchuria Railway Company to be worked. Principal lines -- Chinose authorities have listed some 600 places where minerals are located in Fongtien and Kirin Provinces, of which 213 are coal, 26 iron, 234 gold, and the reminder silver, copper and lead. Gold--Before the introduction of foreign capital for the development of Manchuria's mineral resources, gold was the only metal extensively mined. Manchurian gold is mostly alluvial, and so can be mined with a very small capita Maturally, all the river beds containing gold dust have been ravaged by gold hunters, and in South Enchuria it is only in these worked-out beds that alluvial gold is now collected. Extensive traces of such mining are found in and eround the regions of Hsingking, Tunghua and Huanjon. It is asserted by experts that the alluvial gold of these regions came from gneiss, which is abun ant everywhere in Manchuria, and which always contains some gold. Beaten by the weather, the gnoiss disintegrated little by little, freaing the gold it contained, which, washed by the rain, deposited itself in the river bods. The most extensive alluvial gold deposits in South Lanchuria are found in the tributaries of the Yalu and the upper reaches of the Sungari. In Heilunghian Province there are many gold fields where ore is still obtained in considerable quantities. Chiapikou in Mirin Province was famous for its gold sands years ago and it is believed that there are still rich veins to be mined. Iron-- West to coul, iron is the most important mineral product of anchuria. It exists mostly in veins in meta orphic rocks, and the best veins are generally found in northonstern lanchuria along the Yalu. These were worked by the natives on a very small scale. The ores are generally hematite, and thou the percentage of iron they contain is not large, being generally about 40 per cent, they are sufficiently rich to be worked with advantage. Two mines stand out prominently, Penhsihu and Anshan. The latter, with 200,000,000 tons of ore reserves, is being developed by the South Manchuria Reilway Company in conjuncti with its new Anshan Steel Works.

たのと同様に日本人のあるへの移入が固地の米の栽培を取長してある。 今日多くり日本人が一般道に沿ってその我地に往事してかるのである (色の井の我性は最初朝鮮人物色によって 為需要日連かに増してかる。口布人の状部へり移入が小歩の栽培を御教 満洲の支那人はちまり気をつけたかったないとないとかは日本人の満洲物人の 米...满洲二於中召米は水田に広く栽培されてけ馬らず他の穀物と同様 に乾けた土地震に栽培されて居る。今すで生産量はあま 此められ支那人門地かれ 多となかった、といわのは

大麻なび黄麻一大麻は満洲の三地方ででては栽培され、全産類の約 四分之日即部是行者方。黄麻日逢河、嫩江松光江图明云**以高流城 に教告よっている。その收機の約四分の三は大満洲に考する、大麻ない黄麻 大部分口栽培地心於了陷费之れるが輸出用に袋ろかの房利がある 大風養風の外国への服後は大連に於て数年同に一番方が下以上を算して 各態的船具通具的数选上用心的小了。一九一五年上大連上满洲大麻飞 大抵给上俸了小、更仁色的日祖、網儿作了小品也觉的小了一生的日餐给公用 大麻口奉天省に産し大松布に織られる必の孝俊のもかは古林省に産 先他国でれるとその産物は極めて後の愛弱なもりである。白く強動な弱をあ 四多。他子用い我榜也以九大麻黄麻は椒して 即な毎年日かて麻袋を作う会社が強いた ひろれる。黄麻の大麻はと柔軟ではないからの耐れ性の好に袋、網網、系及い 鐵地明には利田されてあるい

我先七小月卷燈草七作るけに外国の葉と異せられる葉米燈草会社は奉天 煙草 一些一場を有し東里煙草会社は少見口に工場を有してゐる。 一一煙草は満州の豆要奏物の一下ある。最色の葉は古林周辺で

国産の華の輸出は場がしてかる。

八下压多、满洲的棉花江天来西班的自家用火气小規模上载按京大 で座陽 那名は鉄遊鹿平面門公 明 4 シューション かれれるける場路と 九约の南方の地帯に多少我はさ て市場に運はれたれる

はかります 犯備地より北山は南原過海龍、通化等の就都市 山山山山山山大山大村は大がいれて行一十八百山山山 り移民により 可及然居 絹生産地生神次松大し人中 猫州にもたらされた 年の岩に 1、中国 歌める小的百年前山東省 は南海の製造に用いてある 南部記なては関東州 我公人有猫

をなしてある。 南满洲 かられ西方ドル以上の郷にのほる 安東道平は鍋の取引の主なる中心である。一九三年に 山湖水林出七七七

患事就験場とよって行いれる魔験に 府機の平均の割んは一五三四人でやっ の反大方る耕作地がある。甜菜糖製造業の発達は 甜菜:土壤力甜菜上面一特上奉天周辺口古南满洲精糖会社用 車戦される 数本中 九四年以来

その他分作物~满洲は果樹栽培国と 地とちる事は極めて可能性がある。要東州 て猫州から前着教我院の目生的通合 7 から大きれたっ 大きち可能 142 七七 葡萄酒生產 有 佛つは てのる

葡 猫 菊子の他の果樹園業が今や起りつるある。 患間は又馬鈴薯,越麦,大豆,隱无豆鸡吃老可

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遍馬生粉艺颜了两了 何何他事してゐる。 大部分も上めてのた豊富在放牧地は治と、穀物畑に変しられたり 牧高堂 五な戦業は家高の飼育であった。支那 蒙古少國境、里龍衛力西部 て農業は興力が收益業は夏微した 南部的方文那 The state of the s 湖州人の憲民は大抵多 To de de la constante de la co 一句 好 5130 以前は満 昔の牧る時代過野 其此では住民 移入之女七当時國 數の馬馬 洲原饭民 は家宝田の

由、北十大多の大 马水 制作ないである。年及び山羊は特に蒙古に於て多く、同地では住住人 支那人は常に 及心事芸芸いなける記高の最 聽馬 及城馬力慶五 B 農地地北地南京高の使用は 事を方ち後人九一朝の車につながれ ひみである: たり 整葉~きるめかさもち 1 るるのでは 五大頭の 氏は 4

二百五十万 野馬六十万、聽馬六十

万、牛二百二十万年及心山羊

三百文十

事は不可能であるっ 服之百三十万でする。我とすべての農家は二三の家衛を有して加了。二三年 の經数は約九十七月後五水るかるの合計 数艺非常江正雅江五天

れてゐ方、聽馬は私、向女那也問首七れて肚 題馬は耕作と運搬に使用されてある。 馬は至に家古梅でカし丈が低りか非常に忍耐力がある。 七高 本には 教のの

年は朝鮮、山東、満洲、素を変ある。支那 は牛左季引用に倒む

蒙在人は乳用に飼う展り 南満洲ない内蒙古では井は西省に 1/2 強も改良する大ち了全地がある 南京国産の年 9 は他か的五本 生均口間産物と見做されて四る 好魔蛇 する で居ろう外国地也是世る事 同心事が対ないるいつい か秀 ta

最近の日本九武打る年毛工業的於走 当是教出出七九七四る。南端州北於 い形で年れどってけりつある。脚の間 七け 世步1年年人一年年西方共 1 局色明化して転出さ 問看は支那

麻 してあるから 0 南端 洲鉄色はその恵事哉 おかて猫 州口世界以我 號場在通じて英米後を ける国的多数意感的一つ

口然思するたちろと期待されてある。

土地の年とメリノ館の年の支配は雑館の 産出事五保してある。サウスケワン子 三四かンドからたニポンドに増加してある。メリ との強をかは年 推とりかつの支配は半年の の二歳なの一年 もの差出萬は 七の老出

腹施せいるとせい 動物な心動物性差夠の蘇出領易は 编编级统行上去 確愛に連かれ発展了 は一九二年に於ける南陽洲の五港か 近代的飼育方法加出 南端洲铁送金社的研究

斗(數) 二十五百五十

の三等差的の主方輸出品は以下の如人

图 年 先·默北·羽北(北下) インド 七十九万八十 四百五十五万

自 華 皮數皮皮製品便 い歯(ポンド) 三十一万七十六十 万六十四面

雞 (数)

(トソ)

森林。后布 南满洲以於了日長白山脈魔松光江、牡丹江

個門なの上流沿海 又的练证 及心理河の上部日棚客に

樹木が生えて

3.

一方北猫

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以於つけ東支後近の東部

(にどう・ポクラニチナヤ間)及び吉林着の

森林の如きもりは全人見られない。 である。蒙古は草、女生えか上の野在する 地からなる一大平原であ

恭秋地带江次的好人算过了小了

有了了一一万工了力 日 鳴年でり左岸及心理的の沿岸

有する四面八十万エイカー 上松花江红牡丹江四川江の上流 億立方以の木村大

このハルビン、ボグラーチ中間東部一百八 力觉立方即

する一大百万工ろかり

山处地过一一五百十卷立方

中央山脈中及いその所近に於ける 平均算地震がでかりしてき十五百立方以とせれてある事 では黄料を得る事が出来なり、 及似學與那周四的千世

包林で震的事が可能な丘や山が各的 经济的一街生的西見地上了 国民的利益的名 林林的保存上一满洲过然所以於 れる。三は我に使東州

地想,一点 一根公安元 倉 億ちさ 以科 土地村 起五三八十 公聚的與味は地 型川が公布された。三字の意思は母 電地推が日本の子に渡った時 うなか 不一九年12九百八十 高さ 面明以上以産する がかっき本あるだけであった。 向西万 州及以大連に該立さ 植 数 维数はる一千である。株林のち四 の期内につい行西の定然ない事 かしては地事様である。 りてある同地は山かちて 100万多年 を生子とは大か 企ていれた技林 地川三五年他人大力情事 かられたがはれたっち 別に to 1. 拖 しいなっち 西かりの土地に二百万本 村 のんめの苗木を供 カシ、極いなで 小學 一億一千 鼓而万 佐能された 朝野松口唇之包经四五天 月梅 力光本 本 電す 1 V 0 あっ 樹 弘 の地木が地ろう 地域が大 日最七年近日は海村である 13 面風水作了 大村を荷 ヤン 大水は村大塩の近して 如服少数 加五十 光上無料で 4 有多な企了 b の七めに古国か放师 h は はを 白白 0 好 んられ 南京 一 枝杖九室す 変の多り つるため かった 想村丁 小人 樹 えろ 地立れておれ 与 at ! 一森林地かか する 一大 司 しかない Sept. 極め 日到 南 カラ 7

を設けて物情場を経営してある。在林安東の 七年本村の中心である 也が必をでにいてるこのでは大安東が主任を占める。 吉林 村村 月十八子の シストないまかんは 東支熊道車部の記録では一般光 ルルンとも春春天大連 村思場比較為の引近特 小村は共れ

三、通光

ヒラ 一部でれて四る、その東旗は劉一等 車海龙伸舞戲蟹飾大大大大大多百百百百百 強化學第一東記黃海一西北京 左有子了中東州他借地は強業に理想的右衛台を推廣 ある。乳後機遇は約二万五十 ススナ・飯・一八一般・シラス・マイカ シンとみられ的ラナ方にル ナマコ、生焼サマフ 大刀争、サンラ、シタンラメ、 九地元五面理力海洋

解する時はつりったの北部でも捕しられる。 道業の變勵-海業団体の別をりために空東川東風は一九の八年 捕断会社によって強と独と的に行けれてある。横物は下国に運はれる 大連の南一哩の老虎獲に水產炭縣所艺数五した。同爱縣所大連の南一哩の老虎獲以水產炭縣所大数五した。同爱縣所 日播戰學中進動過歌的方方在海洋 黄海北部の沿水の上で又春が立ちかり海海の水が前 島附近の捕鯨は東洋 和松

江場演典 數藏室倉庫 乾燥

受更吃實驗的海鄉左行心

又近海湖也了了ための船が備場であた。又演業團体の利益を 係趙し、発展させるために組織された組合かある。

鱼 淡水漁業! 淡水漁業はずしての大き井西 寶事南部の屋西 及び鴨線江人なりかりりしての支流にか け五に姓 響 選 写いある AND 水水がり又后大株七元了る の下流江水行はれるる 塔二

得られたと云はれる。 一時は世林の附近に於て同江 年々七八年を下ろめらりまか

I 献 当

最古の飯山はこの一般的力森林代達の間に発見されたものうちで 風水自然。機」に対する迷信から のために起った地場の為に完全に拭い去ろれてゐる。 鬼山が他にもなめつか明事あった。 後つかり著いもりかあったはあるか、自然力強になっている人 てるた事もかべてある。 好業の発達一一南满洲上於ける家業に古り起來を有古る地方 口碑は塩暖に於ける石炭の梅 しかしその作業は満洲王朝の創始者に 掘が風に十二世紀から為され 想也了れた。當て仕事を しての強動和風

かく発見された銀山の連命を書きさせたりるとなったりますれるからいいのはいるのはにはが降れまれているのでのはにははははないないないのではの木材を奪ったり

思はれるかこの可じ

世順,我玩的经营至了了人水大那 一十六は鉄、二百三十四が食で致か 主要 敬物一一支那治局口奉天 られた約六百の場所を目録に記入 という 食を失いな事後に分解し、食は雨に改はれて河床に堆積しため 9 されるは前金はると探掘されてかた地一の金屋であった。 左動南湖北於て合的人人が接取されるのは、事其三等の使い書 全は強と改を事極めて力質本で指取する事が出来る事 感にもたろとれたのである 理我是我是我是我的 た河春かけるるころ称な探掘の太原野は興京通化 から物様の继承 多人の所近に見られる。三等の地域のか d かかかっ 南湖州北於十了最老太八两食力推拔は鴨絲江及心松花 事が事門家によって 7 的食艺念都河番口酱 141 7 の風物資庫の開発に立して外国資本が多人 てち 宝 主張されて居る、片飛岩はその食有る 经党被放 一事移聽 近代的觀念人就也多教業 記れる 一大 金楽りたといて花されてしまっ てある。その中二百十三は石炭 古林面面四八般物が探し得 銀、銀、銀であった。 全切同して着手した時 多か片雨光から生した 日本はいるというないとうないと 满洲 Day of the last 一番 一

江少上底一步的多里能正看内口的今方日全家が相当量得了山る 名やあった。そして尚将松すべき豊富なな飲があると信せられて四る 金養地が多となる。吉林省の來非職は夏食の砂なで昔何

小規模に経営されておた。極在 東部。鴨絲江沿岸后发見之れる。三等は原住民によって極 大抵一麦放岩中の飯脈中心あり 1一億十分為極越去越し、衛路上 命魔である。本溪湖及で鞍山の一般 鉄一在教にかって鉄は満洲の最も と連続して発展とせられてある 多ななく大抵約甲でとうしてあるが、有利に接続するにする 最多一般形力大松满洲北 重要な飲産物である。飲は 赤鉄をかてその飲の名場は 此所特に因立つつの了發光

0 党及过 一进场一场 的 なる 9 13 Vo かれ 19)

THE REAL PROPERTY. えるのののかんかん To the second 0) 0 は の本 そのかり 力の 73 -艺 WE 0) 10) 號 3 S. Carrie 10 就 XX 节 1 も 9 3 5 烟 2 10 80

地水井地 的地地形地的面積 見られてきたう。またの 歌を持人力力方 好成たう山谷の車り も国のはしめつとのを見れ 机子加油和 たっとうるかないかけて あり地地はるるる かしてす りりりの見えた 地域地を主 れはかアメカ 一数物 的地 0

好 及いる場場的 りまて、 多 50

弱 東支教 6

かといる

好了

地域人である

也是 13

2

カかかった。 五大地地地地地方 場的独立的 のかろうなったっていとるみ 初の意思 切り、推成的ア はからのあし 经成成成分的 九。当场场的的 明では成立 小土地の生地のは 協的的致治 近近近 引流 100 0 4

就動動物 の電影をなったと 9 近にはるなるは 明智和日本 极 りたせるかりが VB) のかの 到 12 沙交 10 ののが 14 かかっ 0) 神の今の手 沙 80 为 12 7. 13 日南方の方面 FD 后加里 9 地北地

杨 場的多新多面的 動の我性に動物しる法 在では大きるる事が 一节 我多人 配, 在人为 拉拉板板板板板 着は段良せれた栽協 強強強強治 変地を大明ら 打了る村村本はお子の るがりけた。 かかり物のたのな のである。北海 切せるは) 社世生 れ。せも な 1 一方 2 力す

多 通 7 17 n The state of the s 彭 表 居 もはは 5 扬 0 種 4 t 10

高温 本大多 弘多表 土麦 七麦

老人之人 二 0三三五00 大三七、一〇〇 セニーー 一一五五七

去对有一三人心。三人一大心的 341-110 10五、100 二五五二

里是他不有四大地的一点, 一八八八つ 七七、田六の

二九四二の四一のの 二八、

大多型地形務為は回取大多名 りあるるろう いるるに大豆か世界 りの配到

おいるるち数板

多多多 えん かしてあれか、 大多かりんか 大豆豆 拉大大 杨龙 動なるのことろ の大きてか te うめたのう ない りよるい 日文神 多 かい みかっ 120 150 点 16 Co

過程はる研究があるかった 路が一般をかれた 場の可見の変める場合 以这是是我的 かり、東京子なって ある的性化しあるる 類似思的自有一面。 の:通過事の地及 井里 了は 描述方法多地 場の他を一種 動はなれてある。 かを進えたか、 動物的地方的 97 3

多多

TE T For the second E. the for (9) 2 80 4 C

THE PART OF THE SERVICE OF THE SERVI

tit tit 17 1221 in 2 100 (00) 古いた意気があれて

M

でかり一多地多は多 军多 星 京る大河と 13

多地的事一一多 かれつけて (A)

ある 45

子 すはなっち なかり 13 (t) まる ち

t/2. 的力ある風 力しちか

かの中 力之の地流的和数 150 to

ある方面

多数地的 就是一次

地面的に地を強をせる場上 金的人作品更加多 明を成めけれるとであ 一般なるる オレイン、 村地のあるに 場のかったってはのでかり 多かりたるりた 描色描名的歌 多多地震的 被强一种 地地地方が行 もりンスますの A Road たのはあ 30 か 0 这 物 0 カいつ TI SPE

大連中央研究河 一多的级多的最多一手

世明 to 艺人 かます 移 大包 杨 2 3

教似工生活地 た、ニ 一三、三四 100 三大 MAGE WASHINGTON

阳为 一上、五九 E. -

生水子子 二四二七 かれっ 二三八六 五・二 entre. ID

城往原

JF. 3-

IP. 四、元六

大ラろか 地的力力 地で対域のよう 地震地震人 る九土地は大多の教技 京學(とうもろうしか なってはよう 我自然物多名人たの力 何後の色像は海路 3 てその中のうりであかる 事地 极极力的 极难 かんかってんは

二六るか直場 可多多在的人 他の共物 ちた。地のでは服 (二のなか)三ろ るかかま 一つでんかっ

かい 书 12 るなっては、かのかる 0) はってい 力変の 多的 我 TR

ブラ 0) といとりたちろ 0 まるか 373 137

15. 3 見るかるのか てな 421

多 神となっ

答 K ななかか 围 此衣用 垣根 世の他 場の連切地 なるに 母の地のはるに海して 省多安部上却や の共物は一種人 な後数数 我事又は多期 我的现代游, 理限を世界へあ 了の風心性 見きれ

多个的种

罗毛 多高 市的多 一世多名 あまるし 見る do でる 多地 00 るないので、 ある。描述 地 0 3 かい 我は地的 北多める 00007 1 我这个人 年れる 又 るの神と 力 くまを 全场 立の 30 カー

北地のの一 超见了力了一个了下。 る。本本は あのか 栽

の面的か

女なは 大。 000

麦

4

まなののいか

1/2

12)

空安安,他和 のハルビング

カい かる。 四四四つののトンと 海道 多水 去他的 九つつ に名 かかかか 南 るはめめ 多多 かまるは を て子 見んで、 13 西 2 もる 0) N.T. 3

ある。砂なは大きを大 は夢かに一つつののトンの 一人人 大多一大多の大学 場的版地面軍は元 おかなのでんてある かりのある 强被城地 のおりまり用いるか れるる。又土地的强 的被吸り 0

D 7 12 0000 1) 0 0 000 09 他 おまる一場 71 共义 多まめは .12 0 おかい 九月 するのな 4 北京 1: 12 0

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