

INDUSTRY AND MINING IN SIBERIA

South Russia has been exceedingly forward looking in the applications of science to the development of her natural resources. Projects such as Arctic Research, the Pamir Plateau Survey, and geological investigations are examples of this spirit.

^{To} ~~Central~~ Russia had developed coal mining only in the Donets Basin in Europe and in Siberia only along the railway.

With the introduction of the five-year plans coal resources were discovered in all directions. Coal production increased from 35,500,000 tons in 1928 to 152,500,000 tons in 1937.

Attention has been given, not only to increase of production, but also to an even distribution of production. Reserves in the Donets Basin are reported to be 40,000,000 tons [sic]. The Kuznetsk and Ural areas have now been combined into the Kuznetsk-Ural united industrial area.

Coal reserves have been located in desert areas such as the Karaganda basin. Nearby in the Kounrad area are copper deposits, so this area is now known as a united copper industrial area and is considered a part of the Ural united industrial area and the third coal field in importance in the Soviet Union. Chelyabinsk lignite fields are also considered important.

During the second five-year plan period smelters have been constructed in the Bureya coal producing area and this area is now termed the center of heavy industry in the [Soviet] Far East.

The Tungus coal fields in the Yakut ^{ASSR} Republic can supply fuel for the Arctic shipping fleets. The Irkutsk coal fields can supply the new Angara - Baikal industrial area. The Menusinsk mines and the Kansk lignite fields are basic coal producing areas.

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Formerly the only important oil producing area in Russia was the Caucasus which produced 69,000 tons in 1931, being 83% of the total for the Soviet Union. Newly discovered fields in the Bashkir ASSR ¹⁹³¹ ~~Autonomous Republic~~ and in the Far East amounted in ~~1931~~ to 9,234,000 tons. In 1938 this had increased to 28,860,000 tons.

~~TN:~~ There is an evident discrepancy between the figures and dates given here and the information given in the previous sentence the first date probably should be 1931. The Sterlitamak area in Bashkir has become a second Baku. The oil field in this area extends 1,500 kilometers from the central section of the Volga to the Ural mountains. The reserves in this field are estimated at ~~300,000,000 tons~~ ^{300,000,000 tons}

~~TN:~~ The figure used here is 30 "li". This author has heretofore been using "li" in the sense of 100,000 which is the old Chinese meaning of this term, but the Japanese use it in the sense of 10,000,000 and modern (post-war) Chinese authors have been showing a tendency to follow the Japanese sense. It would appear the application of the latter sense here would fit in better with the author's description of the size and richness of this field.

Production for this area in 1933 was 35,000 tons, but by 1937 it had risen to 1,350,000 or 2.9 percent of total production for the Soviet Union. ~~TN:~~ The figure given here points up the discussion in the TN above since the figure given would represent more than one-third the total estimated reserves for this field taken out in one year if "li" is used in the sense of 100,000.

The Kao-mu-pan* oil field on the east bank of the Ka-ssu-lo* Sea has oil resources of 18,040,000,000 tons. ~~TN:~~ Here the lesser sense of "li" has been used for translation as the larger sense would make a preposterous figure.

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The Khatanga River oil fields in Krasnoyarsk ~~150,000~~ and the coal of the Yenesei and Lena Basins can be used to settle the problem of fuel for Arctic Ocean Navigation.

The recently discovered Turkmen oil field is producing approximately 10,000 tons a day.

Soviet iron reserves are estimated at 260,000,000 tons

TN: The Chinese term here is 2600 "t" tons. The restricted meaning of the term has been used here for translation. Compared with U.S.S.R. 1940 production of 27,500,000 metric tons of iron ore (U.S. Department of Interior Mineral Year Book, 1946) this seems too small

Reserves at Orsk south of the Urals are estimated at 400,000 (sic) tons TN: ~~Perhaps should be 400,000,000 tons~~ This area with the magnetogorsk Mines has become the heart of the smelting industry in U.S.S.R. Besides this the Minusinsk iron mines, being near the Kuznetsk Basin Coal fields, ~~also~~ ^{are} in a favorable position for development.

Recently discovery of copper bearing ore amounting in the aggregate to 1,700,000 [probably should be 1,700,000,000] tons have been made in Kazakhstan, the Angara River Basin, ^{the} Lake Baikal ^y Region and the [Soviet] Far East. The largest reserves are those discovered in 1928 in the copper beds of Kounrad ~~in~~ on the north shore of Lake Balkash with an estimated 2,000,000 tons deposit. During the second five-year plan the development of copper smelting in this area was a part of that plan, as well as development of copper resources in the Ural Mountain Range and Kazakhstan in Central Asia.

Tin has been discovered in the Altai area and central Asia. Potassuim salts are found in the Urals and Central Asia. Modern ^{mechanical} ~~machine~~ methods have been introduced in mining these deposits.

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Other minerals are found, such as nickel, mercury, sulphur, radium, etc. in sufficient quantities to form the basis for a modern refining and chemical industry.

~~Before the revolution only steam electric plants were in operation, hydro electric plants were unknown.~~ In 1928 1,905,400 kilowatts of electric energy was generated, in 1937, 31,090,000 . Hydroelectric plants were erected on the Pamir plateau to supply the current for the textile industry of Central Asia. The waters of Lake Baikal and the Angara river are also to be used to produce electric power. ~~also peat, lignite and soft coal~~

Siberian Electric Power Chart

Locality	Year	Power in units of 10,000 Killowatts)	Percentage (of National total)
Ural Province	1928	13.56	
Ural Province	1937	130.27	7.1
Kuzbyshev ^U Ghkalov ^C	1928	2.17	2.9 (sic)
Kuzbyshev^U Ghkalov^C	1937	18.03	1.1
Bashkiy ⁿ ASSR	1928	.89	1.7
Bashkiyⁿ ASSR	1937	5.10	0.4
W. Siberia	1928	1.92	0.5
W. Siberia	1937	44.12	1.0
Kazakh ^r ASSR	1928	.42	4.0
Kazakh^r ASSR	1937	19.48	0.2
Central Asia	1928	1.60	1.8
Central Asia	1937	36.80	6.8 (sic)
E. Siberia-Yakut ASSR	1928	.89	3.3
E. Siberia-Yakut ASSR	1937	13.13	0.4
Far East	1928	1.12	1.2
Far East	1937	14.77	0.6
			1.4

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Siberia total	1928	22.57	71.6
Siberia total	1937	281.70	25.8
European	1928	167.97	88.9
Russia	1937	808.30	74.2
Soviet	1928	190.59	100.
Union	1937	1090.00	100.

The important ores found in abundance in Siberia are gold, coal, iron, oil, silver, lead, zinc, copper etc.

Gold is the largest mineralogical resource of the Soviet Far East. Production in 1936 was 1,060,000 ounces, or about one-third of the world's production. Most of the gold produced in the Soviet Union is alluvial gold. That produced in Siberia is entirely of this sort, constituting 60 - 70 percent of the total for the country. Siberian gold is produced largely in the Trans-Baikal, Amur and ^{Primorsky} Maritime areas.

At the ~~time of the~~ 17th meeting of the International Geological Society in Moscow Russia's coal resources were reported as 1,600,000,000 tons.

Estimated Coal Reserves in Siberia (Unit: 10,000 tons)

Locality	Amount
Kuznetsk Basin	45,065,900
Kuo-erh-lo-p'u* Area	154,500
Menusinsk Basin	4,300,000
Kansk Area	4,200,000
Gh'i-o-li-mu* ^y Yenesei Basin ^y CHULYM-YENISEY	2,061,200
Irkutsk Basin and Trans-Baikal Basin	8,139,700
Pur Basin	2,611,600
Kazakh Area	6,279,800
Turkmen Area	353,800
Kyrgiz Area	1,006,400

Umbak

Uzbek Area	418,600
Tadzik Area	217,500
Chita Area	79,242,600
Total	150,399,700 [sic]

Siberian coal reserves are 91 percent of the total for the Soviet Union. The total coal production of the Soviet Union in 1938 was 133,000,000 tons.

~~In the Soviet Far East there are coal veins some to 124 meters~~

Production Figures for 1937

Kuznetsk Basin	6,000,000 tons
Irkutsk Mines	1,500,000 tons
Southern Ussuri	2,500,000 tons
West Coast of Sakhalin	250,000 tons
Vladivost ^o sk	500,000 tons
Chita	750,000 tons

Soviet mining interests have naturally looked with marked interest upon the gold deposits of Far Eastern Siberia, but more important are the very recent discoveries of magnetite, hematite and nodulated iron ores.

Areas of production are the Obluche district in Southern Ussuri, around the Southeastern shore of Lake Baikal, northwest of Lake Baikal in the Angara River basin, and on the upper reaches of the Ob River in the neighborhood of Stalinsk. Russian geologists estimate that about 25 percent of ^{Russian} iron-bearing deposits contain ore of highest quality. From seven to ten million tons of this are in the Far East. Figures for 1936 indicate the aggregate reserves of iron for the Soviet Union to be 10,600,000,000 tons of which 40,000,000 are in Far Eastern Siberia.

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Outside an area of Northern Sakhalin along the southern coast line which has been exploited for oil, other areas merely show signs of oil or are in an experimental testing stage. ~~The~~^e oil field along the eastern coast of Northern Sakhalin is the only field in the Far East operating entirely under Russian control. The operation carried on by the joint Japanese North Sakhalin Oil company and the Soviet Trust is in a decadent condition. ~~According~~ According to a report given at an International Geologists Society meeting in Moscow in 1927 there were reserves of 340,000,000 tons in this area. If the area could be worked to capacity an annual production of 200,000 tons would not be difficult. In the southern part of Kamchatka Peninsula experimental work is being carried on along the northwest coastal area. Experimental work is being carried on on the southeast shore of Lake I-ko-chia-erh^{*}, but there is no production as yet.

Some areas in which signs of oil were discovered early are listed below:

1. Wu-ssu-t'e-pao-erh-t'e^{U.S.T.} (Upper reaches of Yenesez^y)
- ✓ 2. ~~Ullakoye~~ ^{Ullakoye} (On the Ullakoye River, branch of Lena)
3. T'a-mo-t'e^{*} (branch of Lena) ~~Tommot~~
4. Altan (On the upper Orkhon)
5. Kuznetsk (near ~~St. Irkutsk~~)
6. Ta-pu-chi-ssu^{*} River Basin (near Surgut on mid Volga)
7. Nordvik (Mouth of Rhatang^c River on Arctic)

The total oil reserves of the Soviet Union according to a 1937 survey were 63,000,000,000 tons. Annual production was 32,000,000.

Far Eastern production was slight.

Production of silver, lead, and zinc in the Soviet Union in 1933 amounted to 400,000 tons. 90,000 tons came from Eastern Asia

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140,000 tons from Western Siberia and the rest from the Caucasus and the Kazakh Republic. The center of silver, lead, and zinc production in the Far East is the T'i-ch'iu-na^{*} are bed with reserves of 2,000,000 tons with an average content of 12 percent of lead, 17 percent of zinc and 280 ^{per ton.} grams of silver. This is the richest deposit of these metals in the entire Soviet Union. The Chuk^otsk^y Peninsula on the Bering strait also has important mineral deposits.

The Aginsk^oe copper mines in the Trans⁻baikal area were opened in ~~1927~~¹⁹²⁷ and produce, yellow copper [~~Chalcopyrite~~^{Chalcopyrite}], ~~blue copper~~^{blue copper} [copper sulphide], ~~ore~~^{ore}, and galenite ore^s. Average copper content is seven percent. The Kurunzulay copper mines are well-known. The ^{Primorsky} Maritime area produces silver, lead and zinc. Large production is also found in the Petropavlovsk area, the eastern coast of southern Kamchatka, and the ^{Komandorskiye} ~~Islands~~^{Islands}.

Near Ch'a-yu⁻ssu-t'^o ~~FN: Not shown on available maps~~^{FN: Not shown on available maps} Village at the confluence of the Sungari and Amur Rivers for a distance of 150 versts along the north bank of the Amur is earth producing 19 to 22 percent of graphite.

Opposite Pu-ch'ao^{*} ~~Vladivostok (?)~~^{Vladivostok (?)} on the Fu-la-chi-mi-erh^{*} River which flows into Amur Bay ~~FN: There seems to be no bay by this name on the map nor any river of the name given in the area where one would expect to find an Amur Bay~~^{FN: There seems to be no bay by this name on the map nor any river of the name given in the area where one would expect to find an Amur Bay} graphite bearing soil of the richness of 55.14 percent to 59.28 percent is found in open beds with reserves of 1,000,000 tons. In northern Kamchatka on the Chuk^otsk^y Peninsula in the neighborhood of the Bay of Sheng-la-wu-lin-chi-i^{*} the T'ien-te-k'a-erh^{*} mountains contain graphite having famous a carbon base content of 96 percent.

~~FN: Neither the bay or the mountains appear on available map~~
(Nat. ^{Geo} ~~Mag~~)

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Molybdenum is found on the Outer Mongolian border southeast of Lake Baikal along the course of the Ch'i-k'a^y Khilok ⁷ River, Irresidescent molybdenum has been discovered in the Iretskoye Bay area on the coast of the Okotk Sea.

Investigations reveal that there is production in the neighborhood of Lo-i-te^y Bay on the northeast ~~wash~~ ^{Coast} of Askol'd Island off the southeast coast of P'u-ch'ao^{*}.

Fluor-spar deposits are reported in three areas:

1) At Po-k'o-ch'i^{*} near Sa-chi-k'o^{*} Village about 200 versts northwest of the confluence of the Sungari and Amur Rivers. The ore is sparkling, with a fineness of 25 percent, and has reserves of 30,000 tons.

2) 130 versts south of Chita at Ta-wu-li-ta-wu-erh-chi-ssu-kai-ya^{*} [Possibly Dul'durga]

3) About 50 versts northeast of ~~Manchouli (Lupin)~~ ^{Lu-pin (Manchonli)}

In northeast P'u-ch'ao^{*} on the upper reaches of the Pu-lo-ko-ya-pa-chi^{*} River near the Ob Bay manganese is produced.

In ^{Ts} ~~Ca~~ ^{rish} Russia industry was centered in European Russia; Chiefly in the Leningrad, Moscow, Iva^{Novo} and Gorkiy areas.

Concentration of industry in this border area had no relationship to the location of raw materials, but rather to communications and population density. The Ukraine produced only coal and iron and the Urals were only considered a source of metallic ores. Siberia and Central Asia in accord with their natural conditions were ^r regarded only as a source of certain raw materials and a market for finished goods

In 1930 Stalin set forth the proposition that raw materials and factories should be brought together to save hauling and labor concentrated in areas of industrial production to reduce the conflict between supply and demand.

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Industrial production in 1928 in Russia amounted to 1,800,000,000 rubles worth (fifth in the world).

In 1932 production reached 36,000,000,000 rubles worth (third in the world) and in 1937 at the close of the second five-year plan it reached 83,000,000,000 rubles worth (second in the world).

The increase of industrial capital during the second five year plan was for European Russia, 88 percent for Central Asia 27.7 percent, and for Western Siberia and Kazakhstan 28.3 percent.

Production of iron increased from 3,000,000 tons in 1928 to 10,600,000 tons.

The coal fields of the Kuznetsk basin were combined with the iron mines of the Urals to form a united industrial area second only to that of the Ukraine as a base for mineral refining and mechanized area for non-ferrous metallurgy, chemical industries, and machine shops. There were two iron smelters in the Kuznetsk area and many factories under construction.

Coal from the ^{Bureau} ~~Pu-let~~ area in the ^{Soviet} Far East has been teamed up with iron from the ~~lower~~ ^{Shan} Hsingan ~~mountain range~~ on the left bank of the Amur to provide for a smelter. This smelting industry provides metal for military and railway materials and machinery and for ship yards in the ^{Primorskiy Krai} ~~maritime territory~~.

Since imperialist Russia's non-ferrous metallurgy was largely sponsored by foreign capital or imported from abroad the Soviet government invested 73 percent of their funds for new metallurgical development in factories for production of copper, lead, zinc, nickel etc. under the second five-year plan. Plants were established in the Urals, the Kuznetsk basin, Central Asia and Eastern Siberia. The Urals are the chief source of copper. Much attention was paid to reviving production in this area while at the same time developing new sources in the Kounrad district on the north shore of Lake Balkhash

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and in the Tashkent area. A mixed metallurgical industrial district was set up at Chimkent in South Kazakhstan and also to set up zinc and aluminum works in Siberia and the Urals.

The earliest source of production of nickel was in the Urals. Tin mines have been opened in Eastern Siberia.

There have been yearly finds of gold and alluvial gold in the Urals, Altai and the Soviet Far East. The production of this metal has now been 70 percent mechanized.

The Soviet government has shifted heavy industry into the new industrial district in the Urals and Kuznets areas ^{leaving} ~~having~~ only motor boat, automobile, clock, spectacle, and measuring instrument factories in the old industrial district in European Russia.

The move to the east was not only to bring industry nearer to the smelters, but also to develop industry in the eastern area. Automobile factories have been built in the Urals such as the Chelyabinsk ~~[?]~~ truck factory and the Sverdlovsk Metallurgical machinery factory, which can turn out 40,000 trucks a year ~~[?]~~. ~~The use of the numerary adjunct here for vehicles seems to indicate that the figure would be referred to the truck factory mentioned above.~~

Under construction are the Sverdlovsk chemical machinery ^{Plant,} ~~factory,~~ an electrical machinery ^{plant,} factory, the Orsk locomotive ^{Plant,} ~~factory~~ the Tas ~~[?]~~ wagon factory etc.

Included in the second five-year plan were constructions of the Novosibirsk mining ~~[machinery]~~ ^{Plant,} factory, the Ulan Ude locomotive repair shops, automobile factories in the Far East etc. The Tashkent ^{Agricultural} ~~farm~~ ^{Plant} machinery ~~factory~~ has been completed.

A flour mill has been constructed at Semipalatinsk in Kazakhstan. 14.2 percent of the capital devoted to development of the chemical industry under the second five-year plan was allotted

*Chinese transcription
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to the Urals and 6.5 percent to Central Asia. In the Urals were constructed ammonia, oxygen and sodium plants. At Pa-lai-ssu-ni-yu-fu^k there is the largest Potassium chlorate plant in the world. It is planned to connect it with a copper factory and produce sulphuric acid.

A united chemical industries district has been established at Aktyubinsk in order to develop the Kazakhstan ~~Phosphor~~^{phosphate} Ash rock ~~Iron-ore~~^{Iron-ore} deposits. There are new sulphur works in the Turkmen desert. A number of other factories are in the planning stage, largely to utilize Glangber's salts.

It is planned to use Tashkent hydroelectric power to manufacture carbon base fertilizer, wood products, ~~factories~~, and rubber from alcohol, etc.

The development of the Soviet heavy industry has been, heretofore, at the expense of light industry and food processing, but an interest is now being taken in planning a more equitable development.

The first developments in the textile industry took place in Central Asia, later on expanded to Stalinabad and surrounding territory which became a cotton textile united industrial area.

The wood supplies are of Western Siberia are being exploited for paper manufacture and large mills are being constructed. The Turk-Sib railway is used to transport lumber to the weaving centers of Central Asia.

Woolen, leather and shoe industries are being planned for Bashkir and western Siberia.

A large number of sugar factories have been opened in the Kazakh^ostan, Kirg^oiz, and Black Sea areas. In the ~~Soviet~~^{Soviet} Far East are newly established ceramic industries, and tobacco factories have been moved to areas adjacent to sources of ~~iron~~^{raw} materials in the south. The sunflower oil industry is being removed to areas in Kazakh^ostan and Eastern Siberia where raw materials are produced.

While not everything about the Soviet industrial plans is

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crystal clear as yet to the observer, certain postulates may be made. In their investment of capital they incline toward industries that will be most efficient in production, they have high regard for suiting the location of an industry to its nature, in order to realize the greatest possibilities of the tie-up. With regard to the operation the aim is to secure the maximum results. Within an industrial area every main section and subsection is carefully planned to establish the most efficient relationship between the use of raw materials and the labor expended on them. For example in refining copper it is planned to exploit at the same time the by-product of sulphuric acid, or in the cotton textile industry, not only are textiles to be woven, but the cotton-seed oil industry will be located in the same area, etc.

In the establishment of united industrial areas the Soviet government sought to further this economic plan by conservation of transport in placing industry near sources of raw materials, and at the same time developing new areas of economic activity.

During the first and second five-year plan periods the emphasis was on heavy industry and upon smelting works as the most important factor in heavy industry.

The Soviet's largest industrial area is the ^{Dnieper} ~~Dnieper~~ United Industrial Area. Its closest competitor is the Ural industrial area. Because the Urals have little coal [but much metal], the Kuznetsk-Basin little metal, but much coal, the two areas have been constituted an industrial area centering at newly-built Magnitogorsk where eight smelters are under construction which when finished, will be able to produce annually 2,700,000 tons of pig iron.

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In addition to this are nearby Orsk Bakal, Khalip⁶⁰vo ~~60~~ and No-pao-t'a-chi-erh-ssu-k'o⁶¹, Krasnouralsk, Chel⁶²abinsk ~~62~~, etc. Scattered among these are manganese, zinc, and nickel works, altogether constituting a very concentrated treasure trove.

A second Ural Kuznetsk united industrial area centers at Kuznetsk the world's greatest coal producing area, along the Turk-Sib Railway. In 1937 this area produced 20,000,000 tons of coal. It is planned to use 65% of the magnitogorsk ore to construct a smelter designed to produce 1,600,000 tons [of pig-iron]. It is expected this will be finished during the third five-year plan period.

The raw material supply for the industrial areas mentioned above are 1) the newly opened T'i-mi-erh-t'e^{*} iron mine (annual production 850,000 tons) 2) Tashkent, Kao-erh-ssu-k^{*} mine (annual production 1,500,000 tons) and the projected Kao-erh-no-lo-ssu-k'o^{*} iron mining area.

With iron smelting as the basic industry and combining non-ferrous metallurgical industry with it, by constructing machine factories, chemical works and steam-electric plants in the same area a new city of Kuznetsk with a population of 500,000 may be built up within five years.

South of Krasnoyarsk on the Siberian Railway are the Minusinsk^{*} coal mines with estimated reserves of 17,000,000,000 tons ~~17,000,000,000 tons~~. Here again the figure depends on the interpretation of the numerical term "17". 140 kilometers from these mines are the Apakan iron mines (with estimated reserves of 45,570,000 tons). Plans are in the making to ^{combine} ~~route~~ these two areas into a united metallurgical industrial area.

In the ~~Soviet~~ Far East there is a united industrial area in the Jewish Autonomous ^{Oblast} ~~Province~~. North of this is a Bureya united industrial area depending on the coal of the Bureya area for its power. It takes in the Khar⁶³barvosk and Kon⁶⁴isomolsk districts.

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At Chir⁷⁷kent in Central Asia's Kazakh⁷⁷stan is a mixed metallurgical industrial area.

~~There~~ is the Balkhash industrial area around Karaganda north of Lake Balkhash.

Water from the Tien Shan range in the central desert powers electric generators to turn the wheels of the textile united industrial district.

^{KAYA-KUM} Kharkoum [?] has its sulphur united industrial area and Khabkat^S [?] Bay its soda industry area. In the north are the lumber industries of Krasnoyarsk and Igarka constituting a united industrial area. Thus each area has its industrial area and put together these constitute the Soviet Union a great united industrial area.

From the above-recited conditions it is evident that Soviet industry inclines to heavy and chemical industries and that the present third five-year period peace-time industries are being sacrificed in the interests of military industries. Thus each of the united industrial areas becomes a military base.

It is evident, also, that the drift of industrial development is toward the interior of the country.

The most complete industrial areas are those of the ^{Dnieper} ~~Dnieper~~ Basin and the Ural-Kuznetsk area. All of the industrial areas eastward of these ^{impinge} ~~impinge~~ upon China's northeast and Japan.

From this is apparent the inevitable "drang nach osten" of the Slav race inherent in ^{the} historical and geographical factors involved. ^{China} ~~We~~ cannot but recognize the danger that threatens from this tendency.

Vegetables were originally grown only in the Ukraine and Kursk areas, but have now spread to the Pacific. Asiatic hemp has moved eastward from the forested areas. Egyptian cotton is now extensively raised on the Kirgiz steppes. Paddy rice has moved from the low damp areas ⁱⁿ at the Far East to Kazakh⁷⁷stan.

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As a result of the first two five-year plans Siberia east of the Urals has become second only to the Ukraine and Volga Basin in wheat production. There is still much virgin arable land in the lowlands and broad untilled areas of Western Siberia. Large scale collective farming is being introduced at present. With the movement of industry eastward the eastward shift of agriculture has become a necessity for national defense and the area east of the Urals becomes a base for grain production having an important relation to national planning.

In 1940 the Soviet government proclaimed the intended mechanization of agriculture in the east in order to boost production of grain. That year grain acreage was 9,514,900 ares $\sqrt{1}$ are equals .0247 acre $\sqrt{7}$ and the total for all agricultural products 10,000,000 ares.

In 1937 grain production in Western Siberia, excluding Krasnoyarsk, was 10,516,000 tons, which was four times the production in 1913.

Production of grain in 1938 was divided as follows:

<u>Type</u>	<u>Percentage</u>
Spring wheat	55.7%
Oats	29.5%
Winter wheat	8.8%
Barley	2.9%
Millet	1.2%

Spring wheat grown in the Soviet Union amounts to 28.3 percent of the total for all grains. In 1937 the ^{per} price capita grain production for the country was 48.29 poods \sqrt{TN} : 1 pood equals 36 pounds $\sqrt{7}$ Production per capita by areas for 1937 was as follows:

<u>Province</u>	<u>Production (Poods) per capita</u>
Novosibirsk	23.29

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Omsk 59,22
Altay Area 65,50

Administrative Districts of
Western Siberia

<u>District</u>	<u>Area (sq km)</u>	<u>Population</u>	<u>Capital</u>
Naryn Region	306,000	129,000	Kolpashevo
Oriol ^{yr} autonomous Oblast	93,000	122,000	Oriol Tura
Omsk Oblast	532,000	2,190,000	Omsk
Krasnoyarsk Krai	2,144,000	1,628,000	Krasnoyarsk

Subdivisions of Omsk

<u>Subdivision</u>	<u>Area (sq km)</u>	<u>Population</u>	<u>Capital</u>
Tara Region	72,000	246,000	Tara
Ost'yako-Vogulsk [Now Khanty-Mansi Nat. Okrug]	55,000	102,000	Samarovo
Yamalsk [Yamalo-Nenets Nat. Okrug]	466,000	30,000	Salekhard

Subdivisions of Krasnoyarsk Krai

<u>Subdivision</u>	<u>Area (sq km)</u>	<u>Population</u>	<u>Capital</u>
Taymyr Nat. Okrug	743,000	8,000	Dudinka
Evenki Nat. Okrug	542,000	5,000	Tura
Khakass Aut. Oblast	50,000	173,000	Abakan

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Western Siberia is a vast expanse of boundless prairies. After the liberation of the serfs in 1861 some colonization began and this was accelerated by the completion in 1896 of the Siberian Railway. During ^{is} Czarist days the only industries were leather and textile industries. With the discovery of the country's greatest coal fields in the ^Kuznetsk area and the combining with the Ural metal-producing area this area has become the greatest industrial area of the Soviet Union.

~~The saying that iron drifts toward coal not coal toward iron is based on the fact that it requires two tons of coal to~~ ^{are required} smelt one ton of iron. Under natural conditions, consequently, coal producing areas grow faster industrially than metal producing areas, but the Soviet authorities have used their political powers to bring about a balance of economy by creating a united industrial district in the Ural--^{nc}Kuznetsk area. Other metals such as lead, zinc and copper are also plentiful in the area and are now being exploited. In the southeast water power from the Altay mountains and nearby oil make power supplies plentiful hence this area is not only agriculturally important, but has also become an outstanding industrial area. Large cities have developed here such as Leninsk (population 66,300), Stalinsk (population 199,800), Bisk, center of the Kuznetsk coal industry, Novosibirsk, Omsk, and Tomsk, and they are growing fast. Novosibirsk at the junction of the Siberian and the Turk-Sib Railways is the metropolis of the area.

Omsk (population 227,000) and Tomsk (population 128,400, are not only important industrial centers, but are also distribution points for wheat, buckwheat, oats, hemp and pastoral products.

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Heavy industries in addition to smelting are farm machine factories at Novosibirsk and Barnaul, gold mining and oil production at Abakan. At Novosibirsk and ~~Kemersono~~^{Kemerovo} are oil refineries with a capital investment only a third less than that of the Bak~~sk~~^{sk} area, with important results in fueling the industries of this area.

Chief light industries are textile, oil refining, flour milling, leather, and sugar industries. Raw materials for the textile industries arrive over the Turk-Sib Railway from Central Asia. Rail lines in addition to the Siberian line are the Novosibirsk-Lenⁿisk, the Lenⁿisk-Kuznetsk, and Kuznetsk -Telbes lines.

At present there is no main line into northern Siberia, but it is being planned.

There are a number of small autonomous provinces on the border of Sinkiang and Outer Mongolia made up of roving Mongol, and Turki tribes that are included within the Krasnoyarsk jurisdiction.

Eastern Siberia, west of Lake Baikal and the Yakut~~sk~~^{ASR} Republic, has Irkutsk as its chief city. Its area is 1,791,000 square kilometers and population 2,221,000.

Subdivisions

Chief City	Area	Population
1. Bur kh ^{ASR} at-Mongol Autonomous Republic		
Ulan Ude	376,000	605,000
2. Wei ti ^{VITIM - OLEKMINSK (?)} mo - A-li-k'io-min-ssu-k'io Sp. Adm. area		
Ko-la-ken*	220,000	10,000

Prior to 1936 Krasnoyarsk belonged to Eastern Siberia while Sverdlovsk and Chelyabinsk which were formerly considered to belong to Siberia are now reckoned within European Russia.

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~~Yakutsk Autonomous Republic~~ ^{ASSR} has an area of 3,031,000 sqkm, and a population of only 328,000. The capital is Yakutsk.

Because of climatic conditions, lack of good agricultural soil, and distance from European Russia, Eastern Siberia has lagged behind in industrial development.

However in the Angara River - Baikal district there are great potential resources of water power and large reserves of iron, manganese, tin, zinc, coal and peat. Consequently the Soviet authorities have set up the Angara - Baikal united Industrial Area.

Forests cover 70 percent of this vast area and are especially heavy along the banks of the Yenesei. Where the Siberian Railway passes through the southern part of the area forests are thin and the black soil is suitable for agriculture.

Some peaks of the Yablonov mountains tower to 5,000 meters in height. There are many lakes of which the largest, Lake Baikal, has an area of 34,000 sqkm, being the world's fifth largest lake. Some of these lakes are sufficiently saline to make their commercial exploitation feasible.

The ~~Buriat-Mongol Autonomous Republic~~ ^{ASSR}, lying south of Yakutsk and southeast of Lake Baikal has an area of 376,300 sqkm. Grazing is the chief economic activity, but about 60 percent of the area is now devoted to collectivized agriculture. Other industries are leather and glass manufacture. Ulan Ude is the capital and metropolis.

The ~~Autonomous Republic of Yakutsk~~ ^{ASSR}, which embraces the territory of the Lena River basin, has an area one-fifth the size of the entire Soviet Union, more than 60 percent of the area is forested. the population of this vast area is only slightly over 300,000, engaged in hunting and lumbering. Furs are an important product. In the south communications are limited and in the north the long winters make communications backward. The three months summer only permits partial thawing of the winter's ice and snow.

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There is air communication with Irkutsk. When Arctic Ocean traffic becomes a reality navigation on the Lena can be expected to pick up.

Natural conditions prevent any bright prospects for agriculture in this area and the problem of food supply multiplies the difficulties of economic development here. Mineral products available in the area are coal, iron, gold, platinum, gypsum and others, but mining has not yet developed. Along the Arctic coast line there are widespread deposits of ivory, evidence that this area must have once enjoyed a far milder climate than at present.

The ~~Soviet~~ Far East lying between the Yakutsk ^{ASSR} Republic and the Pacific Ocean has an area of 368,000 sqkm with a population of 1,860,000. The capital is ~~Khabarovsk~~. Khabarovsk.

<u>Province</u>	<u>Subdivisions</u> <u>area (sq km)</u>	<u>Population</u>
1. Amur Province Oblast ^s	205,000	423,000

<u>Province</u>	<u>Area (sq km)</u>	<u>Population</u>
Blagoveschensk (capital)	205,000	423,000
2. Cha-ssu-k'lo [*] Province	↑	↑
Lo-k'o-lo-fu ⁴ (capital)	186,000	122,000
3. Kamchatka Oblast ¹⁰	↑	↑
Petropavlovsk (capital)	125,400	60,000
4. Lower Amur Oblast ¹⁰	↑	↑
Nikol ^{ay} evsk (capital)	968,000 (sic)	85,000
5. Maritime Province Primorskiy Kray	↑	↑
Vladivostok (capital)	111,000	422,000
6. Sakhalin Oblast ¹⁰	↑	↑
Alex ^{ks} androvsk (capital)	41,000	69,000
7. Ussuri ^[New Part] Primorskiy Kray	↑	↑
Voroshilov (Nikolsk-Ussurisk ¹) (capital)	45,000	362,000
8. Khab ^{ro} rovsk Kray	↑	↑
Khab ^{ro} rovsk (capital)	160,000	260,000

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9. Jewish A.O. Province	↑	↑
Birobidzhan (capital)	73,000	50,000
10. Koryak ^{Nal Okrug} Adm. Dist	↑	↑
Palana (capital)	46,000	13,000
Adm. Dist		
11. Chukot ^{Nal Okrug} Adm. Dist	↑	↑
Anadyr (capital)	728,000 [sic]	19,000

The ~~Soviet~~ Far East has largely an oceanic climate. The ^{ho} Okhotsk Sea has a cold current which makes the ^{Primorsky} ~~Maritime~~ ^{Kray} territory a cold area. This cold current also makes Kamchatka a land of tundras.

Coal and oil are abundant, and have been developed in Sakhalin especially. Forests cover much of the territory and the coastal fisheries industry is very important to the economy of the region. The climate ^{ic} conditions preclude any extensive development of agriculture.

Strategically this area occupies an important position internationally, affecting the relations of Russia, America and Japan. After the occupation of Manchuria by Japan the Soviet government regarded her defense requirements in this area as very important and immediately began a migration of people to the area in the determination to build up an independent military area that could defend itself against attack. Vladivostok has been developed into a strong naval base. While troubled by floating ice in winter Vladivostok is not at any time really an ice-bound port.

The earliest industries of this area were lumbering and fishing. Now, with coal and oil in Sakhalin, iron in the lower Amur valley and less important metals around Vladivostok, the

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Soviet authorities are bending every effort to develop an industrial economy in the area and to increase the population by immigration from the west.

~~Ethnologically~~
~~geographically~~ the area is a racial melting pot. While Russians predominate in the population, there are also goodly numbers of Tungusks, Mongols, Jews, Koreans, Chinese and aborigines.

Strategically, economically, and in the matter of communications, Vladivostok with a population of 190,000 is the predominant city of the area. Voroshyl^or, Khab^arovsk, and Nikol^ove^{sk} are growing industrial centers.

When we Chinese recall that all this area was once China's our hearts should thrill to the patriotic hope that China may someday recover it.

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