COAL AS AM SLEMENTARY, VITAL NECESSITY TO THE POLISH STATE.

DÉLÉGATION POLONAISE

à la Conférence de la Paix

DÉLÉGATION ÉSTROMIQUE

Nº 146/12 Source Whithing

and this question will only be decided at the peace Congress
Then considering an economic question we must accept certain
postulates as to the extent and population of the Polish
State, and then, besides the possession of the State itself,
we must take into consideration those provinces which either
from a historic or economic point of view, will be within
our aphere of action or of our influence. We take the area
of the Polish state to be as stated in the following table:

	Area	in og.klm.	Population	Topulation to 1 klm.
Kingdom of Poland	250	117	24 601 000	98
Provinces under Polish influence	529	780	29 457 000	56
total	779	897	54 058 000	69

II/Sconomic character of the Polish State.

pation it is important to know what percentage is occupied in: a/agriculture, fishing, forestry etc; b/ in industry, trade and work on railway etc; we shall also include here those who work privately, dementic servants and daily work here, since statistics are so ordered that most of them work at industry trade and communication /temporary workment

Tonz	Province of the Polish State	Agriculture	Industry, tre	de com- Remarke and dome-
1897 1900 1895 1912	Ringdon of Poland Calioia Principality of Po Sen Wost Principal Hast Principal Opoloka Regency	56,6 76,6 63,2 57,3 61,9 28,0	34,0 17,55 29,6 30,7 30,6	Those parts which are not included in the Polten State are not counted
	Compared	with other	countries:	a metro meno meno de la como se en esta esta de la mese de la descripció de la como de l
Coun	try Agricult	are Indu	atry, trado, com	munication

England Comestic and other service United States 35.0 52.4 54.1 France 42.7 50,6

Russia Austria Hungary 58.3 60.9 69.7 30,2

Paking into account, that the number, working in industry, trade and communication should as regards Galicia be raised, and as regards Bast Prussia lowered a little, and in Gieszyn Silesia will come to about 50%, we may take for the whole area of the Kingdom of Polend an even 33-,3%. Hence we see that Poland stands below England, the United States, Germany and France, on the other hand in this respect it stands before other large countries. As concerns Russia, the figure 30,2% decreases, when Poland is substracted.

B. Emigration. Our country is one of the principal countries which supplies emigrants to America and Germany /permanent emigrants/ and season-emigrants to Germany, partly also to France and Donmark.

Emigration of Poles to the United States:

in 1907 80 000 1910 130 000 1911 73 000 1912 87 000

Season emigration to Germany, the Kingdom of Poland and Galicia, amounted to:

in 1909 - 10 323 000 1010 - 11 331 000 1911 - 12 348 000 1912 - 13 361 000

From the Prussian division the emigration is only to the west of Germany, and the yearly emigration amounted to only a few thousands yearly. To 100 000 of the population in the Kingdom of Poland and Galicia /with 12 000 000 of Polish population, those emigrated from 667 to 1 083 persons yearly, whilst:

in Prance 25 Germany 45 Holland 50 Italy 1190

not counting the season-emigration, which is three times the permanent emigration.

from agriculture or industry. Emigration is the more, the the increase of the population is very considerable:

in the Eingdom of Poland in 1908 it amounts to 1.65% Galicia "1.61% Cieszyn Silesia "1.66%

in the Prussian division although less, it yet amounts among Catholics to 0,96% /in the Posen district/ and to 1,3% /in the Opolski district/.

D/ Agriculture. Although in the Kingdom of Poland and Galicia, as regards the productivity of the earth much can be done, yet we must remark, that agricultural culture stands on a high lovd compared to that of our Eastern neighbours. By degrees as agriculture is improved the latter will need more machines which our kome industy should supply. The Kingdom of Poland did not supply its own needs in agricultural products, and the balance as regards this showed about 49 000 000 rbs.on the debet side. Since Galicia and Posen are more agricultural countries, hence we may assert, that the Polish State will in any case be in a position to balance its agricultural accounts. As rural culture improves, those peasants will become better off who, especially in Galicia led a realy misorable life. Thus we cannot count upon an export of agricultural products, since a greater production of agricultural products inevitably leads to a greater home demand. The Prussian division, as concerns agriculture, has reached a high standard of culture. Finally we must remark, that the development of our agriculture, because of the introduction of machines, leads to a number of people being without work in that branch of economic work, as for example, happened in Germany. Hence, not wishing these surplus people to emigrate we must employ them in industry.

E/ Industry. The modern views of economists are that a given nation should develop as far as possible in accordance with its natural wealth and economic conditions. Nature has endowed us universally: we have fruitful earth, and under it many natural sources of wealth. To have a sufficient number of workmen and men of the professional class. Polish "work" has given the best proofs, in the industrial district of Lodz, what

it can do. In spite of our lack of raw materials /cotton/ and of the considerable distance of this industrial centre from the coal district, in spite of the absolute lack of th water on the spot, and of any arrangement by the Russian government, which wished to hinder this industry, it continually increased and compeled, in spite of everything, with the strong weaving industry in Russia. Thanks to the good organization of this industry, manufactured goods were so cheap that they even obtained success in the distant Russian markets, in spite of the protective tariffs, which protected Russian industry in the Moscow district. The Germans understood this spirit of enterprise and industry in the Poles, a and during their occupation of our country, they tried to destroy such a threatening competitor. We, however have not enough capital, which we must draw from our western allies. Hence we must have a balance on the credit side, so as to pay percentages on this capital. Since agriculture will not cover this, we shall be obliged to export some of our produce.

branches of industry do not exist at all in our country, et others exist and will figure in the balance of accounts on the debet side. In spite of this our industry should and will figure in the final result on the credit side, and chiefly the mining industry. This is indicated by our mineral riches and geographical position. Finally the increased trade which should develop in consequence of our central pesition in Europe, from which it follows, that we should be intermediaries between the west and the cast, gives us the possibility to make up the deficit which has resulted from want of capital.

G. State budget. Tremendous financial difficulties, caused by long years of neglect of Galicia and the Kingdom of Poland by their respective governments, await the future Polish State. The rebuilding of our human dwellings, ruined by the war, the restoring of our industry, the accumulation of certain

stores of raw-materials necessary for industry and for the population, the building of neglected systems and lines of railway, the bringing of the country to an even relative condition of order as in sanitary respects, the organization of the national school-system, which, except in Galicia practically does not exist /in the Kingdom of Poland there are chiefly only private schools/ - all this will require from the State immense expenses, also the relief of the people from excessive taxes, the effort to put such sources of work as the land, the factories and the mines not only into working order, as before the war, but also to considerably increasetheir production. Agricultural production can only be increased within certain limits, marked out by calculation, for the cost of production would be increased should more be extracted from the earth than it normally produces. The development of industry is dependent only on natural conditions and upone a market for the surplus. If these are favourable, the increase of production saves on its own expenses. Besides t the very development of agriculture is considerably dependent on industry, from which it receives the tools for improved work, and the witalising fluid for the fields. Finally the condition of rural property in the greater part of our state, and also our social classification, create a suitable ground for increased industrial activity

Tear	Province	Nural	population	Romarks
1910	Kingdom of Po Galicia Silesia /Cies Principal.of West Prussia Bast " Olsztyn regen Opolska	zyn/ Posen	36,50 17.80 38.20 24.38 28.44 14.90 41.32	In the northern and wester districts 44,4% Kingdom of Foland-Principal: ty of Cieszyn, Opolska regency, with a population of 15,1 millions has a country population of 37,5%
		rotal	31,00	The last was the true the way the desiration from the time that the time that the time that the desiration desiration that the desiration that the time that the desiration that the time that the desiration that the time time that the time time time time time time time tim

In comparison to other countries:

4 10 000 000 000	Country	Rural population
	Singland	77,0
	Germany	66,0
	United States	41,5
	Franco	41,2
	Italy	26,4
	Buropean Russia	L3,0

We see that the Polish State occupies in this respect, the fifth place in the world, among the larger countries. Besides the increase of industries in the Kingdom of Poland, Galicia and the principality of Cioszyn distinctly shows that at is indispensable and that it is suitable to the natural conditions of the country. We cannot in a short essay particularize the circumstances which hindered the growth of industries in Galicia and the Kingdom of Poland. We can only confidently assert that under other conditions the industries of the Kingdom of Poland and Galicia would have reached the high level of development which they did in western states, and would not have given rise to such considerable emigration as took place from our country.

II/ Coal

A/ Coal as the chief postulate of the development of trade.

Mining occupies the chief place among the departments of industrial economy, and the most important departments of mining are coal and iron-mining. But if industry in general, and especially iron metallurgy can be developed, and that without its own beds of iron ore, of which Upper Silesia is the proof, which, having only insignificant stores of iron-ore, imported it chiefly from abroad the development of a wide-spread industry without coal is inconceivable. Only particular branches of industry, which are brought into being by certain resources possessed by a given country, or by its absolute necessities, can be developed without coal.

B/ Production of coal

Product	i o n	o f	s t o	n e -	e o a	1		
Provinces 1000T4 % 1	910 900T.	% 1:	911 0007.	% 19. IO	12 00T.	% 19 10	013 000T.	%
Kingdom of Poland 59584 11,72			er ter han der ein der h	The other latest class. When when the co-			or two gars again part page a	
Galicia 1,176 2,47								The state of the s
Opolska Reg. 34,657 72,73								
Silesia /Cieszyn 6,231 13,08								
Total 47,648 100 stone-coal	the remarks on the sec	to drest more own later than the	who we can not see an					
Froduct	i o n	o f	bro) w n -	0 0	a 1	a contra destina contra consta per	The sur des to disk
Provinces1000T.	1910 1000T.	\$	1911 1000T.	% 18)12)00T.	% 1	913 000T.	70
Kingdom of 113 61,08	the new work time their law	time appropriate war after the	CHARL CHE CHE HOLD CHES MAN	or more other name adds when date were		their street state, where these sections	terms where the contract the co	
Galicia -								
Silesia C. 2 1,08	1	0,53	1	0,49	1	0,65	1	0,64
PrincA of 25 13,51		13,83		14,63				
West Prussia 4 2,16								
Opolska Reg. 41 22,17				17,56	750 7	20.00	100 0	00.00
Total of 185 100,00 brown coal	TOO T	00,00	200,1	100,00	TOO T	00,00	100, 1	.00.00
Total of 47,833 47,	,605	50,	664,1	56,	975	60,	357	100 100 100 100 100 100 100 100 100 100
Percentage stone 99,61		99,61		99,60		99,73		99,74
of goal brown 0,39		0,39		0,40		0,27		0,26
A part of the Bohemian coal from Silesia A/ 1,558 1, /Cieszyn/is excluded	,539	1,	607	1,	763	1,	899	COLOR TOTAL STATE AND
There remains stone coal in the Kingdom 46,090 45 of Poland after	,878	48,	852	55,	059	58,	302	
deductions brown coal 185	188		205		153		156	
Total 46,275 46	,066	49,	057	50,	212	58,	458	
ACT AND A PART THAT AND A PART THAT THAT A PART THAT A PART THAT THAT THAT THAT THAT THAT THAT T				e ==				

x/ In Galicia brown coal is found in the eastern part in the Stanislawow district, but since this district has been excluded from the Polish State, we have not counted this coal.

We see that we have only an insignificant quantity of brown coal, which is also the case with most states. The production of stone-coal in other countries was: /in some countries together with the brown-coal/.

MONTHS was the first that the same will read the same about the same the	of Name where region there exist make delive proper my		THE THE COLUMN THE COLUMN TWO COLUMN THE COL	
Countries	1909	1910		ne mans anns alles alles alles alles alles alles alles alles den mille 200 dipt dans alles alles alles alles 20
The following of the Art (2 kg)	1000	tons	the first that the star star star star star star	Remarks
England /not co	un- 268,000	268,677	276,242	Stone coal+ brown
Germany	148,788	152,828	160,748	The state of the s
France	37,116	37,635	38,644	
Belgium	23,518	23,917	-	
Russia and Asia	24,455	24,744	AV 104	Stone coal + brown
Italy	0,555	0,562	***	
Spain	3,861		***	
Austro-Hungary	15,110	15,076	Mari Sana	
Sweden	0,347	0,303	~~~	
Holland		1,292	- Sho yek-	
Total for Europe	522,878	525,034	the other the day once help plus blom sides the state of	non contract of the state of th
United States	418,044	455,041		Stone coal + brown
Canada	9,527	11,609	10,241	
Total for Ameri.	427,571	466,650	the case who are the star and an area of	
Asia	28,130	27,972		TO ANY, THE
Afriba	5,196			
Australia	10,259			
The whole world	994,034	1019,656	may calc. Mark was: And, were paid often calco de	
England	305.178	292,723	286 483	de serie anim rape neme anim dem seda hane terre telas senos dels atimo cina, mano adore adore anim anime senos
France with their	75/0		38,644	
Holland	1,630		00,000	
Poland in compar son with Surope	IN PRICE AND WASHINGTON THE STATE OF THE	7,38%	ente dince dispi distri una una matri cita suda più	er stern filler filler filler stelle steller stelle stelle stelle stelle filler filler stelle filler filler filler stelle stelle stelle stelle
the whole worl		4,10		
the size has not too and the sac not not the time the size has the sac the	-	or the two tests and there are again the electric	the store state date and store state date date	to state, then then being allow state state state and other state

The production of brown coal where it is stated separately:

Countri	es 19(09 1910	1911	Remarks
Germany	68,658	69,547	73,761	
Austro-Hungary	34,398	33,574		
Spain	0,265			
France	0,724	0,715	0,706	
Total of coal	104,045	103,836	dire apin one and dire that not ask that they the	
Total of st	one and bro	own coal p	roduced:	a deb par dan son de
England	268,007	268,677	276,242	
Germany	217,446	222,375	234,509	
France	37,840	38,350	39,350	
Relgium .	23,518	23,917		
Russia	24,455	24,744		
Italy	0,555	0,562		
Spain	4,126			
Austro-Hungary	49,508	48,650		
Sweden	347	303		
Holland	1,121	1,292		
Total for Europe	626,923	628,870		tion when come have about their data about once more stays often data.
United States	418,044	455,041		
Canada	9,527	11,609	10,241	
Total for America	427,571	466,650	in min dan see dan dan tabu mer ver men dan dan dan dan dan dan dan dan dan da	the day has been the transition of the control of t
A-sia	28,130	27,972	4	
Africa	5,196			
Australia	10,259			
The whole world	1098,079	1123,492	560,342	and the same of the same one and the same of the same
Ingland	305,178	292,723	286,483	
with their France	38,224	38,350	39,350	
Holland colonies	1,630	1,292		
AND DATE MADE AND AND THE OWN DAY ONLY THE DATE AND AND THE OWN THE DATE AND	the same with the same party transition about the	the print that their team from their other team to		day are not see the size are not one one one of the see one or

Now we consider the production of the States which partitioned Poland excluding those provinces which we considered in Table I and which are to be included in the Po-

lish States. We must also make certain corrections as to our production because of the exclusion of a part of the Cieszyn coal-district which is ethnographically Bohemian. We have excluded the district and town of Frydek, as being Sohemian; on the other hand we have included the whole Prysztacki district, of which probably a very small part will be given to Bohemia. When reckoning the territory of the state and the population, it was of no significance that some parishes of the Prydecki district were separated from Poland, and the Bohemian parishes of the Fræsztacki district were included. We shall be obliged to consider this when reckoning the production / the reduction is mentioned in section A/ on the table on p.6/ · Production of Germany, Austro-Hungary and Russia in the years 1909-1911, not taking into account the political changes, caused by the war

Web with the the the the the the	der line and the date the	Stone	Brown	Total	Nomarku
C 12 24 10 C 10 10	1909	148,788	68,658	217,446	ner finnt from State State State State State Annie State State State over state over state about the
Germany	1910	152,828	69,547	222,375	
-	1911	160,748	73,761	234,509	
	1909			24,455	
Russia	1910			24,744	
	1911			200	
And book	1909	15,110	34,398	49,508	Included Bosnia
Austro-	1910	15,076	33,574	48,650	and Herzogowina
Hungary	1911				

Production of Germany, Austro-Hungary and Russia, taking into account the political changes caused by the war.

Countries		Stone coal	Brown coal	Total	Remarks
Germany	1909	114,131	68,588	182,719	n Sin the rink all, the hat are not try the flor and the field the any per day me gar.
MATHETIA	1910	118,382	69,477	187,859	

Remarks

Total

Stone

Brown

countries	200 MA 200 MA 200 MA 2	coar	coal		
the stee are the second section and the	1909	arc risk. Mrs. taon also, and free	and the state was the tree state and the state of	46,275	the first state often come that the trade into the state state state state of the come come come of the
Poland	1910			46,066	
Bohemia	1909	7,803	21,866	29,669	the first And San Block one of the san one one and are are the san one of the san of the
DOMERKE	1910	7,738	21,075	28,813	though the last and the
Russia and	1909	DE 100 SQL COS GAS GAS SAS	man and and and and and and and and	18,780	
Ukraina	1910			19,192	
The or core was	1909	1,184	7,503	8,687	As we have not the necessary data we
Hungary	1910	1,085	7,579	8,664	cannot classify the production of Hungar;
Austria	1909	61	2,672	2,733	WITH THE SEAS CHIEF THE SEAS CHIEF
AUSTELL	1910	74	2,599	2,673	
Jugosławia	1909	me specialists approximate sold in-in-	2,178	2,178	The production rises
o manamin	1910		2,130	2,130	on account of the in- clusion of Hungary
THE MILE SEC LAW ISS AND MODE ON THE SEC	Man, baral ways, and dealer even must be	nen erde erje jetek eble. 1900 tunn	land one has are now the late they deter a	No title title care had live that streeties with title.	and the same with the test of the same out and the test only the test of the test only the test of the
Pro	duction	of sto	ne coal pe	er head of	the population
-	d Engla		France Be		the population ia Au- Hungary Austra stria Hungar
Unite	d Engla	nd Ger- many	France Be	algium Russ	ia Au- Hungary Austra
Unite Tear State	d Sngla	nd Gar- many 2,25	France Bo	olgium Russ	ia Au- Hungary Austra stria Hungar
Unite Year State 1909 4,47 1910 4,75 1911 4,64	d 3ngla 5,31 5,80 5,91	2,25 2,28 2,37	0,92 3 0,93 3 0,94 2	,06 0,16 ,12 0,15	ia Au- Hungary Austra Stria Hungary Austra Hungar 0,46 0,00 0,30 0,46 0,06 0,29 0,48
Unite Year State 1909 4,47 1910 4,75 1911 4,64	d 3ngla 5,31 5,80 5,91	2,25 2,28 2,37	0,92 3 0,93 3 0,94 2	,06 0,16 ,12 0,15	ia Au- Hungary Austra stria Hungary Austra Hungar 0,46 0,00 0,30 0,46 0,06 0,29
Unite Iear State 1909 4,47 1910 4,75 1911 4,64 Year Swede	d Sngla 5,31 5,80 5,91 n Japan	nd Gar- many 2,25 2,28 2,37 India	Prance Book of the Control of the Co	,06 0,16 ,12 0,15 ,97 0,15 a-Po- King- land dom of Po land	ia Au- Hungary Austra Stria Hungary Austra Hungar 0,46 0,00 0,30 0,46 0,06 0,29 0,48
Unite Tear State 1909 4,47 1910 4,75 1911 4,64 Year 1909 0,04	d Sngla 5,31 5,80 5,91 n Japan	nd Gar- many 2,25 2,28 2,37 India	0,92 3 0,93 3 0,94 2 0a-Austranada lia	1,83 0,47	ia Au- Hungary Austra stria Hungary Austra Hungary 0,46 0,07 0,30 0,46 0,06 0,29 0,48 Oali- Cie- Opol-Posen cia szyn ska Prus- prin- reg. sia cipal. WPrus.
Unite 1909 4,47 1910 4,75 1911 4,64 Swede Year 1909 0,04 1910 0,04	d Snglas 5,31 5,80 5,91 n Japan 0,29 0,30	nd Gar- many 2,25 2,28 2,37 India	0,92 3 0,93 3 0,94 2 0a-Austranada lia	olgium Russ .06 0,16 .12 0,15 .97 0,15Po- King- land dom of Po land 1,83 0,47 1,87 0,46	ia Au- Hungary Austra stria Hungary 0,46 0,07 0,30 0,46 0,06 0,29 0,48 Cali- Cie- Opol-Posen cia szyn ska Prus- prin- reg. sia cipal. HPrus. 0,21 14,24 15,71 0,01

These data are not however authoratative, although we take them from the reliable "Anales des mines de Belgique" vol. XVIII 3 op. p.389-907. Some countries, as for example Germany, Austria and Hungary are given without counting brown coal, whilst other, like England and the United States include the whole production of coal. After making the necessary corrections

we get:

Country	3	909	19	910	191	1	Brown coal	in rel coal 1910	lation 1911	to	stone
Germany			(4	152, 69,	,828 ,547	-	46,14	45,51			
Austro- lungary		•		15, 33,		-	227,65	222,70			
France	stone coal brown coal	37	,116 724	37,0	33 5 715	5	1,95	1,90			

Table A taking into account the corrections made in table B gives results

				7. 6	post of the	· •			and the same of	
United Tear States	Englar	nd Ger- many	-Franc	e Bel	-Rus-	stro Hung	Swede	n Ja- pan	-Eng.Ca In- na dia da	-Au-Po- i-st lan ralia
E909 4,47	5,31	3,29	0,94	3,06	0,16	0,98	0,04	0,29	- 1,38	3 1,89
1910 4,79	5,80	3,32	0,95	3,12	0,15	0,94	0,5	0,30	- 1.64	1 2,19
1910 4,47 1910 4,79 1911 4,64	5,91	-	Mari	2,97	0,15		0,6	0,30	- 1,37	7 2,31,

Remark: In table A. and C. we have taken into account the normal production and not the so-called "long" production as in the Belgian account.

Hence we see that for production per head, Poland takes the 6-th place in the world, taking a lower place than England, the United States, Germany, Belgium and Australia. The figures given for the provinces are only valid until new monetary values are introduced.

G. Import and export of coal.

Before we come to the use of coal in our own country, we must glance at the particulars of import and export and that consumption of coal in other countries, which is connected with them. The chief suppliers on the worlds market are the following countries:

Countries	Import		Difference	Import	l 9 l l Export	Difference
ingland /without colon./	47	83,210	83,163	4()	85,709	85,669
Jermany	12,059	31,888	19,729	11,719	36,057	24,338
United States	s 2,213	15,030	12,817	1,332	18,657	17,325
Australia	304	2,786	2,482	10	3,094	3,084
South Africa	69	1,296	1,227	60	1,339	1,279
Engl.India	339	876	537	326	860	534
New Zealand	228	273	45	185	220	35
Japan	203	4,858	4,655	218.	5,141	4,923

The greatest supplier of coal is England, which exports to France, Italy, Germany, Scandinavia, Russia, Argentine, Egypt and Brazil. The Germans export to Austro-Hungary, Russia, Holland, France, Belgium and the Balkan states. The United States, owing to their immense home consumption have little free coal in comparison to their production.

The passive balance of the countries is as follows: Export Difference Difference Import Import Export Countries 18,783 20,473 1,690 1,626 17,314 18,940 France 11,524 11,715 1,191 1,084 9,602 10,686 Austro-Hungary Russia 5,387 93 5,480 4,732 4,834 102 9,293 39 9,254 8,998 46 9,044 Italy 4,367 1 4,491 4,368 1 4,492 Sweden 9 2,491 2,500 2,428 5 2,433 Spain 1,420 8,546 7,126 6,966 313 7,279 Bolgium 12,847 1,314 11,533 7,820 2,034 9,854 Canada

And now what isk the state of affairs in the Polish State
Auxiliary table

Year	ort Export	+ or -	Fro- consumpti fro- cor- duction with sec. A	Total consumption
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100 tons

14 28

Marie Marie a sie some under oder com Mini-	Tear	nde Striv etter State	Impo	rt	200 400	B	xpo	rt	Exces	ss P d t	rocor uc- ion		ion _T o		
age one also note this gift this filter			a today afficie ment alex		1	0 0	0	t.							6ct 400 900 000 PM
1909	42	42	299	T (1) And (1) And (1)		99	21.	419	-377		597	-377	5,	320	
1910	48	(3720-7)	351			97			-406	Tena		-406	5,	180	
1911	59	59	387			93		480	-421	# 2	908	-421	5,	587	
1909			n, 180 mm ton A			w 200 dell M	C 804 PF 8	-	der, was then from time of	1	.176	alle dide des une des de	1,	176	a week was since from Man
1910										1	,346		1,	346	x
1911										3	637		1,	637	
1909	B 400 BM 600 000	more store store to			3,6	597	_	3,6	97-3,	697	4,67	5-3,6	37 1,	008	
1910					3,6	341		3,6	41-3,	641	4,61	8-3,6	¥1 0,	977	x
1911					3,8	344	-	3,8	44-3,	844	4,82	3-3,8	14 0,	979	
1909	343	- 3	43	tte no de sie s		ne nem chier a			+ 343		25	+343	36	8	
1910	304	- 3	04						+304		26	+304	33	0 3	X
1911	273	- 2	73		Ē				+273		30	+273	30	3	per many life a Main Miles
1909	278	- 2	78				## (## . P# . P		+ 278		4	+278	28	12	
1910	255	- 2	55						+2 55		4	+255	25	9 :	X
1911	222	- 2	22	20. 20 - No. 340 -	10× 40× 1000 1	po der me	-	*** *** *** **	+222		0.1	÷2 22	22	22	
1909	89		89						+89			+ 89	8	39	
1910	81		81						+81			+81	8	31 :	X
1911	71		71	Date and white order			to the state		+71			÷71	7	1	-
1909				47 2	,43	3 7	.74	3 10	,223	-10	,223	34,69	8 -10,2	223	24,475
1910				65 2	,19	8 7	,64	6 9	,909	- 9	,909	34,48	6 - 9,9	009	24,577
1911		** *** ** **	1	00 2	.79	9 8	,47	0 11	1,349	-11	,349	36,65	9 -11.3	349	25,310
1909	710	42	752	346	6,2	29	7,7	64]	L4,339	-13	.587	46,27	5 -13,	587	32,688
											7.		0 -13,3		
1911	566	59	625	487	6,7	16	8,4	70	15,673	3-15	,048	49,05	7 -15,0)48	34,009
From	the	las	t ta	ble	the						1010 1011 1011	ed imp	ort and	l ex	port
for	the	sake	of	clea	rne	88.							Y		
Provin	o a s	PM 470 010 VA	Impo	ort	Exp	ort	Di +	or .		Im-		- Dif-	- port		Dif-
77 £ m 3	- P	~ 7	40	n desk some alles two		-		0 (40	15	+or		100	-421
Kingd. Galici		OT.	42		41	J	-	377		48	4504	± -40	0 09	#O()	-4×T
• •			•		0 0	-		-	7	-		243 0	CA3 .	9 04	4 3 94
Princi	p.of	Cie	szyr	1	3,6	97	-3	,69	1		3,0	041 -3	,641 -	0,04	4-0,0

Provinces	Im-	port	Diffe- rence +or -	Trown	l 0 Ex- port	Diffe- rence +or -	Tm-	9 1 Export	Diffe-
Princ.of Posen	343	** \$44 MY NO	÷343	304		+304	273		+273
West-Prussia	278		+278	255		÷255	222	_	+222
Olsztyn Reg.	89	-	÷ 89	81		+ 81	71	-	+ 71
Opolska "		10,22	3 10,223	3	9,9	09 9,90	0 1	1,349	-11,349
Total 75	2 14	339	13,587	688 14	1,004	13,316	625	15,67	3-15,048

Remarks

A/ Kingdom of Poland.

- 1/ anglish soal is imported to a very small extent which is not counted.
- 2/ The import of Moravian coal is not counted, that is, the coal from Moravian Ostaw. The amount is insignificant.
- 3/ The consumption in the 4 northern districts of the Suwalski government is not counted, as only a few hundred tons are sent there.
- 4/ The export to Austro-Hungary is counted as export abroad that is, that all the coal goes beyond the frontiers of the Polish State. In reality the Kingdom of Poland sent Galicia only an insignificant amount.

B/ Relates to Galicia.

5/ Galicia received /besides Upper Silesian coal/ only an insignificant amount from Moravia and England, and exported its coal outside the Kingdom of Poland to Ukraina, Bast Galicia /barely 5%/ and Austria.

The differences more or less make up for the import of foreign coal.

6/The export of Upper-Silesian coal to Galicia is classified according to the receiving station into two parts. The first part, which remained within the boundaries of the Polish State and 2/ the remainder. The remainder includes ± 15%.

7/ The export from the Principality of Cieszyn is calculated theoretically on the principle of production per head /actual figures/ and the consumption is estimated as ± the same as that of Belgium, and a little less than Germany's D/ For Posen, West Prussia and East Prussia

8/ English coal is reckoned only in so far as it comes to these provinces. The total amount is classified according to the number of inhabitants, which will be somewhat to the disadvantage. The coal which is assigned to East Prussia is divided between the three regencies and only a part of what is assigned to the Olsztyńska Regency is noted.

E/ For the Opolska Regency

- 9/ Import to Mast Prussia of Upper Silesian coal divided into two parts as on p.8
- 10/ Coal exported to Central Silesia and to Lower Silesia is excepted
- 11/The figures represent the total of the export to Russia and to Mastern Galicia, which is excluded from the Polish State.
- 12/ General remark: coal exported from one province to another is not taken into account at all, being the subject of home trade.

B/Consumption. We compute consumption by adding to the product tion of each country the imports and deducting the exports

Countr	у 1909	9 1910	1911	Remarks
United St	ates	437,716	a dan tito dite sine san dip die mee dan dan	The first and the first and the first are and the first and the first and the first and the first and the control of the first and the first a
England		185,514	190,537	
Germany		202,646	210,171	
France		55,646	58,133	
Russia		29,476		
	ng.	58,252		
Belgium		24,230		
Foland	32,688	32,750	34,009	

The consumption counted in this simple way is a very little different from the actual consumption, since it does not count the trade in stored supplies.

E. Capacity of the market.

Sven without reckoning industrial development the capacity of our coal-market is considerable greater than our consumption, on account of our undeveloped railways, which, in the Kingdom of Poland, were not built for strategic reasons, and in Galicia from motives of economy.

From the table, given below we see:

Mile title side the sell den dies the title side dies dies dies dies dies dies die	many people have delice dated below and a fight does not a ratio attack.		
Province or country	The railway	s given in	versts
	to 10 000 i	nhabitants	1000 versts
Kingdom of Poland	24,3	4	28,4
Posen	120,5		96,4
Galicia	51,5		52,6 in klm. which differ but
Government of Moscow	36,1		40.0 little from versts

with Central Russia, which was in this respect in a better condition When railways have been built, a part of the inhabitants, which now burns wood with burn coal, the more that the condition of the forests of the Kingdom of Poland is lamentable. When the new railways have been built, the effects of this change will at once be felt. Chiefly the consumption of house coal in any given locality will increase, for that is a potential necessity but industry must first arise and then develop.

The consumption of coal to one inhabitant of the Kingdom of Poland amounts to something more than 0.5 tons and in Galicia 0.3 tons.

The development of railway-systems will in itself raise the consumption of railways are one of the chief purchasers of coal. The very fact of uniting the different provinces of Poland into one whole from the Dabrowa coal-field must get there by a round about way, and if Kalisz received coal from Germany, it had to pay a duty, which meant that in this respect it was in worse circumstances than other localities which necessarily had a restraining influence upon the industrial development of this town.

Other frontier localities in the Kingdom of Poland and Galicia were in the same circumstances. The development of water-ways which do not actually exist, but are only projected within the boundaries of the Kingdom of Poland and Galicia, will have an immense influence upon the production of coal. The existing junctiones are technically and economically almost useless, since they do not provide for the chief necessity of a branch of industry, which produces heavy products. Centres of this kind of industry must soon be united by water-ways, which in our country is a relatively easy matter, from a technical point of view.

Consumption per head of stone and other coal:

Tear ted land many stro gium sia ly den na-pan flung.

1909 4,34 3,93 2,00 1,36 0,50 2,96 0,19

1910 4,66 3,95 1,98 1,37 0,49 3,16 0,17

1911 4,47 4,02 2,00 1,42 3,16 0,17

1909 4,47 4,01 3,27 1,40 0,98 3,12 - 0,27 2,37 Q24 1,33 Q53

From the above table we see that we occupy the 6-th place in the world, lower than the United States, England, Germany, Belgium and Canada, but the consumption of the Kingdom of Poland and Galicia is very different from the average consumption for the whole country. There is a great difference between the consumption of coal in the Kingdom of Poland and Galicia and the average consumption for the whole country.

F/ Production and consumption in the nearest future.

We reckoned the production of coal in general in the Kingdom of Poland in 1913 at 58 458 000 tons.

Let us now consider the question how that estimated production will develop in the nearest future.

First of all, we shall give the production for 1914-16, remarking, that the figures are not exact, but do not greatly differ from the actual ones.

Province		914		1	.915			191	.6	Re	marks	
Stone coal												
Kingdom of Polan	d4	539	509	2	782	842	5	209	477			
Galicia	1	399	960	1,	647	069	1	871	492			
Silesia / Ciesz./	6	668	844	7	179	573	8	173	102			
Opolska Reg.	37	408	740	38	408	740	40	000	000			
Total	50	037	053	50	018	224	55	254	071	Brown	coal	from
Brown coal		205	000		205	000		205	000	191	1	

Total 50 242 053 50 223 224 55 459 071

We see that the production for 1916 fell by \pm 3 000 000 tons, when compared with that of 1913, or by more than 5%. The reason of this was almost altogether the want of workmen. This is not probable after the war. Other reasons, however, will conduce to a decrease in production, and namely mest:

a/ the decrease in most means of the number of working hours from 10 to 8 daily, and in some from 9 to 8 daily.

b/ the neglect of preparatory work during the war.

c/ with a few exceptions the almost complete cessation in the installation of mines with new and indispensable machinery.

We know from the experience of Western Europe that the change from 10 to 8 hours of work the production of the workman falls by 12%, and with a change from 9 to 8 hours, it falls by 4%.

It is true, that the fall in production may to a certain extent be compensated for by the greater number of workmen but that is not quite practicable in mines, and in any case cannot be counted upon. We shall assume a fall in production of 10% as a consequence of the shortening of the working-day. The second and third reasons cannot be calculated with numerical cer-

tainty, but we know, that their influence is considerable. Let us take the fall brought about by these reasons at 10%, thus the production will amount to $0.90 \times 0.90 = 0.81 - 0.80$ or 80% of the production of 1916.

Naturally other very serious reasons may lower the production such as lack of railway-wagons or of orders, and more than all irregular legal conditions in the country, which now exist universally in the mines. We do not, however, take these things into consideration.

In comparison with the pre-war production of the year 1913 we forsee a fall of 2% for a considerable time. And what about consumption? It is impossible to foresee this exactly. In any case the fall will not be considerable, on account of the small consumption before the war in the largest Polish provinces. Naturally the ruined industries of the Kingdom of Poland will not soon attain the level of development, which they had reached before the war, and thus the consumption will considerably lessened, but there will be other needs in the country which will make up for decreased demand in industry. Consumption in 1911 amounted to 34 000 000 tons. Taking this increase a period of two years at 5% /Germany showed a much greater increase for that period/we get a consumption in 1913 of # 3740000 tons, and we take that for the period immediately following the war.

G. Trade balance of coal

In the year 1911 we produced 48 452 000 tons

consumed 34 009 000 "

there is a balance to our credit 14 443 000 "

The year 1913 production 58 458 000 tons

consumption37 400 000 "

difference 21 058 000 tons

In the immediate future /within the next few years/ these figures will probably be:

production 44 367 000 tons
consumption 37 400 000 "
difference 6 967 000 tons

Taking the selling price of one ton as an average for the whole country of 14 marks, we get a balance to our credit

in 1911 a round 202 000 000 marks

" 1913 " " 295 000 000 "

in the course of a couple of years after the war 98 000 000 Mk. taking the prices of 1913.

Since the price of coal has considerably increased, hence the latter sum will be considerably raised.

H. Market for surplus.

The natural market for our suplus coal will first of all be the east. In table II we reckoned within our sphere of influence our former border - provinces with a population of + 30 000 000. We take the consumption in these countries of only 0,25 tons per head and we get 7 500 000 tons. These parts of the country have no coal at all /we do not count a part of Silesia /Cieszyn/ since the coal there will be consumed in its own country - Bohemia/. Then our coal will be required in Austria, Hungary and Tugo-Slavia and also in the border districts in Germany, on account of the cheaper rate for transport. Hence we see that the whole increase in production foreseen will go to the east and north, to countries, which will be in economic alliance with Poland. From the east we shall receive raw-materials, necessary country-produce, cotton, some metals and iron ore to improve our own. Should the predictions as to the decrease of our production not prove true for even later years after the war, the surplus production will not go principal ly to Hungary and Yugo-Slavia, for Austria will probably get her chief coal-supplies from Bohemia.

Even should the Germans close their frontiers for our coal, we need not be at all afraid.

We shall not here touch upon the subject of charcoal, on account of the brevity of this essay. It will find a surplus market at home, in the foundries existing and which will be founded for our immense stores of iron-ore. The surplus of charcoal will find a market in the western and southern countries bounding ours.

Number of workmen, value of production of coal and total earnings of the workman. In 1900 182 727 workmen were employed in coal mining. The total production amounted to 483 thousand crowns or 417 thousand marks.

Total earnings of the workmen - 173 000 000 marks.

If we take into account the brown coal, charcoal and brickets, the number of workmen amounts in this year to a round 300 000.

Foreach workman here in Poland, we count 3,3 members of the family, hence the coal-industry supports 660 000 inhabitants which amounts to nearly 3% of the population.

J. Production of the workmen.

The yearly production amounted in 1911 to:

	in	the Kingdom of Poland	259,1	tons
	1 11	Galicia	240,0	11
	11	Austrian Silesia	211,0	ıt
	11	Opolska Regency	310,9	11
	19	the Don coal field	183,8	11
	11	Moravia	204,0	" In the Kingdom of
	11	United States	608,0	" Poland the produc-
	11	England	253,0	" tion was less, than
1910	11	Germany	239,0	" in Upper Silesia on
	11	Prance	186,0	" account of the great
	17	Belgium	162,0	" number of festivals.

K. Cost of maintenance in working order for 1 ton in 1911 in different countries amounted to:

United States 6,23 marks
England 8,65 "
Germany 10,35 "
Belgium 12,75 "
France 13,05 "

We have not these data for the whole of Poland, in any case the respective figures with us will be considerably lower than in angland and France, or rather they will be nearly like these of Germany and show a value for Upper Silesia lower than the average for the whole of Germany, specially lower in Galicia and higher in Si-

lesia /Cieszyn/. Data of production and costs of maintenance have been given to prove that our cost of production is within the limits of fixed competition.

- III. Conclusions. A detailed analysis of the conditions in which coal mining is worked and will be worked in the future permits us to come to the following conclusions:
- L/coal will take a prominent place in the general national economic system of the Polish state, will give rise to lively trade and maintain a considerable part of the population.
- 2/The foreseen production of coal after the war gives us a considerable increase, creating a considerable balance on the credit side in our commercial accounts. This means the more, that coal does not require the import of raw-materials from other countries, like other branches of industry.
- 3/ The surplus production can easily be disposed of in neighbouring countries, specially in those which in agricultural matters are connected with us, as not possessing coal of their own /Li-thuania, White Russia and the border parts of Ukraina/.
- 4/ With a healthy development of the Kingdom of Poland, the cost
- o of production of coal will be within the limits of competition, and the development of means of communication will make it easier and will lower the cost of transport.
- 5/ The consumption inside the country after the advent of normal conditions of life will develop immensely in Poland.
- of The development of the coal industry will have a good influence upon other branches of industry and even on agriculture, thus generally increasing the wealth of the country and giving the State means to perform the great economic and other tasks, of which there are more in our neglected land, ruined by the war, than in other countries. The production of charcoal will play a great part in the development of this production. This production takes place only in a relatively insignificant area of Upper Silesia and the Principality of Cieszyn, Charcoal gives us the means to develop iron metallurgy, which forms one of the

fundamental factors in the economic life of the country.