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## THE EOLID FUEL SITUATION IN FRANCE (1938-1941)

LV/YA

4 March 1941

Office of <sup>U</sup>oal Distribution Secretariat General

# FRENCH COAL PRODUCTION (In Tons)

	Coal		
Basins	1938	· <u>1939</u>	1940
Nord and Pas de Calais	28,238,1192	31,938,901	24,621,707
Mogelle Loire Bourgogne and Nivernais	6,739,210 3,874,302 2,577,483	4,740,872 3,618,519 2,663,529	126,099# 4,154,804 2,778,716
Gard and Heralut Tarn and Aveyron Bourbennais Auvergne Creuse Alpes Vosges Meridionales Ouest Frovence Comtat Sud-Ouest Various	2,140,579 1,542,582 495,084 589,542 13,209 152,078 88,254 54,140	2,585,163 1,815,667 525,703 630,847 13,172 458,316 67,813 51,425	3,210,181 2,344,848 615,103 722,678 15,623 544,526 69,030 61,735
TOTAL	46,505,055	49,129,927	39,285,291

\*Figures up to 15 June only

	Lignite		
Basins	1938	1939	1940
Nord and Pas de Calais		494 MA	** ***
Moselle Loire	del em		-
Bourgogne and Nivernais	<b></b>		
Bard and Herault Tarn and Aveyron	## tas	** E	m en
Bourbonnais Auvergne Creuse	Die Die	00 Mg	
Alpes Vosges Meridionales		800 MM	bel bel
Ouest	and the control of th	and And	

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## Lignite (Continued)

Basins	1938	1939	1940
Provence Comtat Sud-Ouest Various	746,371 34,694 273,157 3,987	831,514 38,104 234,540 3,959	1,211,759 45,948 388,999 7,282
TOTAL	1,058,209	1,108,417	1,653,988

### COAL PRODUCTION

#### MONTH OF JUNE 1940 IN THE NON-OCCUPIED ZONE

Mineral Districts		duction 100 tons)		Stocks	define di un probabilità una ine ·· cer canarida y r bioglobra d'insce
	Coal	Lignite	Coal	Lignite	Briquottes
Alcs Marseilles Toulouse Saint-Etienne Clermont-Ferrand Lyon (approximately)	25y.4 2 189 317 99.5 210	3.8	104.1 1.8 3h.h 86 72	0.6	14 0.2 5.3 0.5
TOTAL	1076.9	105.3	298.3	20.9	20

#### VISIBLE CONSUMPTION OF SOLID MINERAL COMBUSTIBLES IN FRANCE

#### 1940

French coal production Plus decrease in mine stocks	1:0,957,100 tons + 21:5,300 tons 11,202,700 tons
Plus excess of imports over exports:	
Imports 7,792,700 tons = -140,500 tons =	7,652,200 tons
Flus decrease in railroad stocks	730,200 tons
Total consumption 1940	49,585,100 tons
Consumption 1938	67,735,000 tons
Consumption 1939	68,084,000 tons

# ANNUAL PRODUCTION OF COAL AND LIGNITE (In Thousands of Tons)

	1939	1940	1941
Coal Lignite	49,129.9 1,108.4	39 <b>,285.</b> 3 <b>1,65</b> 4	41,840
TOTAL	50,238.3	40,939.3	43.866.4

## PRODUCTION OF METALLURGICAL COKE (In Thousands of Tons)

Coking plants belonging to the mines	1939	1940	1941
Independent coking plants TOTAL	4,767.6	3,182.11 2,133.6	3,800,4 1,246.8
10(1)	8,145.0	5,316	5,047.2

# PRODUCTION OF BRIQUETTES (In Thousands of Tons)

Plants balancing	1939	1940	1.941
Plants belonging to the mines Independent plants	6,045.6 2,092.8	5,156.4 1,414.6	3,645.6 717.6
TOTAL	8,138.4	6,571.2	4,363.2

### EXPORTS OF SOLID FUELS IN 1939 (In Thousands of Tons)

Country of Destination	Coal	Coke	Briquettes	Total (Coke converted into coal; Coke = 1.3 coal)
Germany Belgium and Luxembourg Italy Switzerland Algeria, Tunisia, Merocco French West Africa, French Equatorial Africa (including Togo and Cameroun)	392.5 0.5		41.6	58.3 359.6 77.6 615.5 11.1 62.8
Other colonies Other countries TOTAL	<b>6.2</b>	0.2	1.5	1.8 6.7

# EXPORTS OF SOLID FUELS IN 1940 (In Thousands of Tons)

Country of Destination	Coal Coke	Briquettes	Total (Coke converted into coal; Coke = 1.3 coal)
Germany			es es
Belgium and Luxembourg	148.7 3.1	0.6	153.3
Italy	1.1 26.9		36.1
Switzerland	27.7 6.3	14.1	50.1
Algeria, Tunisia, Morocco French West Africa,	34.9 1.3	2.1	38.7
French Equatorial África	10.8	9.7	20.5
Other colonies	0.3		0.3
Other countries	6.6	0.4	HATEL STREET, AND THE EXCLUSIONS, AND TREASURED BASE
TOTAL	229.8 37.9	26.9	306

### EXPORTS OF SOLID FUELS IN 1941 (In Thousands of Tons)

Country of Destinat:	ien Coal	Coke	Briquettes	Total: Coke converted into coal (Coke=1.3 coal)
Germany Belgium and Luxembou Italy	3.l 109.2	1 0.5	0.2	110 #•#
Switzerland Algeria, Tunisia, a French West Africa,	43 nd Morecco 567 95•3	1.5 9.1 0.9	0.1 7.9 21.6	45 587.5 118.1
French Equatorial As Other colonies Other countries	frica	2	3-14	37
'TOTAL	849.4	15	33.2	902

#### IMPORTS OF SOLID FUELS IN 1939 (In Thousands of Tons)

Country of Origin	Anthracite	Coal	Lignite	Total Anthracite and Coal	Coke	Lignite Briquottes	Coal Briquettos	Total: Coke converted into coal (Coke=1.3 coal)
Great Britain	667.]	5,094.9	, <del>" "</del> ,,,	5,762	18.4	<b>77 77</b>	58.4	5,844.3
Germany	229.1	2,517.4	***	2,746.5	953 . 3	209.9	5.4	4,201.1
Bolgium	433.4	2,534.6		2,969	1,012.7		228.6	4,524.3
Netherlands	72.7	190.6		863.3	766.3	2.1	51.1:	1,913
Poland	0.2	1,273.7		1,273.9	8	m ==		1,204.5
Russia	6.5			6.5		PM 400	M 64	6.5
Turkey	<b>100 to</b>	71.5		71.5			m #	71.5
Indochilna	211.1	0.7		2,118		=		. 213 .8
Morocco	21.3	6.1		27.7			PR 80	27.7
Other Countries	0.7	4.1	16. <b>14 pt</b>	4.8	33.6			48.5
TOTAL	1,642.1	12,294.9		13,937	2,792.3	515.5	343.8	18,123
Country of Origin	Anthracite	Coal	Lignite	(In Thousand Total Anthracite and Coal	ds of Tor Coke	Lignite	Coal Briquettes	Total: Coke converted into coal (Coke=1.3 coal)
Great Britain	325-2	4,968.6	***	5,293.8	1.62.2	004 S05	85.4	5,616.1
Germany	0.2	1.1		1.3		-	1.	2.3
Belgium	209.5	966.9	8.0	1,177.2	445.8		198	1,954.7
Netherlands	20.3	85.9		106.2	231.8	0.2	8.6	416.4
Poland	004 lbs	3 • 1.		3.1			0.1.	3.2
Russia			M M	em hab		, m	44 199	
Turkey		4.7		4.7		,		4.7
Indochina	15.1			15.1				15.1
Morocco Other Countries	14.1	4.8 10.7	94 94 144	18.9	0.3		44 MA	18.9 11.1
TOTAL	584.4	6,045.8	0.8	6,631.0	860.1	0.2	293.1	8,042.5

### IMPORTS OF SOLID FUELS IN 1941 (In Thousands of Tons)

Country of Origin	Anthracite	Coal	Lignite	Total Anthracite and Coal	Coke	Lignite Briquettes	Coal Briquettes	Total: Coke converted into Coal (Coke=1.3 coal)
Great	5.7	68.9	· •• ·	74.6	10.6		27.7	116.1
Britain Cormany Belgium Notherlands	1.9 79.4	228 1,258.4 0.2		229.9 1,336.8 0.2	36.4 24.8	0.1	5.5 20.6 3.8	282.8 1,389.6 4
Poland Russia	0.2			0,2				0.2
Turkey Indochina Morocco		0.1	==	0.4 0.1		~ 		0.1
Othor Countries			12 <b>66</b> 2 <b>60</b> 0jesnosopiilas is: 170	and the				
TOTAL	86.2	1,556	am 145	1,642.2	71.8	0.1	57.6	1,793.2

### CONSUMPTION OF COAL IN PARIS IN 1940 AND 1941

The table below gives the tonnage of coal received each month by the Grupement Charbonnier de la Seine for domestic consumption, small commorce and small industry, that is, exclusive of the tonnage used by public services, heavy industry, etc.

1940	May	52,000 tons
-/	June	3,000 tons
	July	28,000 Tons
	August	46,000 tons
	September	40,000 tons
	October	69,000 tons
	November	91,000 tons
	December	143,000 tons
1941	January	105,000 tons
ጥር	TAI.	577,000 tons

The monthly average in 1938-39 was 303,000 tons; we see, therefore, a that Paris received in 9 months/Tittle less than double the monthly average of normal times.

# COAL SUPPLY IN THE PARIS REGION (SEINE, SEINE ET OISE, SEINE ET MARNE)

## January 1941

genne-y	Required	On Hand
	124,000 tons	105,000 tons
Gas plants	95,000 tons	96,000 tons
Electrical power plants	103,500 tons	70,000 tons
Industry  Domostic fuel and small industry	161,000 tons	120,000 tons

# TAR SITUATION IN DECEMBER 1940

## 1) Occupied Zone

CONTRACTOR OF THE PROPERTY OF	69,199	tons
Stock as of November 30	15,236	tons
Consumption in November		
Probable stock at the end of December	54,000	TONE

## 2) Non-Occupied Zone

÷	a Maramban 30	18,094	tons
	Stock as of November 30	9,777	tons
	Consumption in November	9,000	tons
	Probable stock at the end of December	,,	

Note: The production of briquette plants is being handicapped by the lack of tar, and in November production was only about 50% of normal.

# COAL SITUATION FRANCE 1943/1944

During 1943/1944, the coal situation in France deteriorated so much that coal had to be imported from Belgium, Lorraine, and later on from Germany.

In a report by the Plenipotentiary for France (Regional Command West Paris), dated 16 October 1943, the following is stated: After many difficulties were overcome, it had been possible to contract for

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100,000 tens of coal from Belgium and Lorraine. But the types of coal and the small number of freight cars and barges available in Belgium make the usefulness of these additional quantities of coal doubtful.

# Allocation of coal to French industry August-November 1943 Allocations for:

	August	Soptember	October	November	Stocks and of August
		(in tons)			
Iron industry	34,900	28,500	20,000	26,000	75,614
Mechanical industr	y 59 <b>,0</b> 00	57,000	51,000	60,000	98,357
Chemical industry	68,050	62,250	43,700	59,000	107,134
Toxtiles/Leather	23,500	20,400	13,900	16,000	56,950
Coment	50,000	50,000	29,000	25,000	63,073
Other building materials	20,650	13,500	16,700	ST,000	47,667
Food	60,300	57,000	41,500	51,000	112,037
Navigation and Transportation	10,250	11,250	9,600	10,300	6,421
Sugar and Alcohol	67,500	62,500	65,000	25,000 2	96 <b>,</b> 284
Sundry	38,400	36,400	22,400		28,932
	422,950 h	03,800	_		95,069
			Reserve s		24,910

The decreased allocations (allocations for beptember cut by 30,000 tons and for October by 110,000 tons) will have their full effect in the stock figures for October. It is calculated that with a monthly consumption by industry (excluding sugar and alcohol industry) of 340,000 tons of coal, the stockpiles on hand by the end of October will be sufficient for only 7 weeks. This quantity is considered not to be excessive, especially in view of the effects of the strike, of the heating season setting in during November (especially in the mechanical industry) and in view of the transportation difficulties in the procurement of additional coal from Belgium.

# Coal deliveries from Lorgaine to France, November 1943

Up to November 19h3, a monthly average of about 100,000 tons of coal and other fuels was shipped to France. Because of the difficult coal situation in France, Germany had to supply the French industry with coal to an ever increasing degree. The quantities of fuel to be exported from Lorraine to France during November and December are set at about 200,000 tons. The November quota of 195,000 tons was composed of the following partial quotas:

Basic quots	55,000 tons
Coal for aluminum industry	33,000 tons
Solvay (Dombaole) quota (for production of soda)	12,000 tons
Special quota (Drying of apples for the Armed Forces)	2,500 tons
Powdered coal	4,500 tons
extruordinary additional quota	88,000 tons

82,000 tons of the Lorraine coal deliveries for November were earmarked for the French State Railroads, but on 19 November, 7,500 tons had not yet been delivered, and on 20 Docember, the backlog was 18,000 tons. The delivery of 40,000 tons for the Paris gasworks was likewise slow.

During October 19h3, the Saar mines delivered 11,h23.7 tons of smudge coal to France.

# Coal deliveries from Lorraine to France, October 1943

for:			
French state railroads Aluminum industry Cas and electric power plan Drying of apples Moofing tile industry Other industries Solvay (Dombasle) Powdered coal Smudge coal	nts	20,303 60 26,221.5 24,014 1,195 1,944 10,956 12,145.5 4,991 2,139	tons tons tons
South-Central Industry ("H		10,335	tons

### Coal deliveries from Lorraine to France, October 1943 (Continued)

Ardennes plants		2,350	tons
Limestone quarries		886	tons
Other industries		103	tons
	TOTAL	117,883	tons

#### Coal for raw phosphates:

German coal was delivered in compensation for French raw phosphates. During January 1944, 2,650 tons of coal were shipped to France for this purpose. During February, 3,000 tons of Saar and Ruhr coal were shipped to France in exchange for raw phosphates. 4,500 tons of this coal were allocated to the Faris gasworks, plus 1,500 tons to sundry industrial plants.

#### Coal to iron industry of Southern France:

During December 19/13, an additional quantity of 1,890 tons of Lorraine coal was shipped to the iron industry of South Central France (Industrie Centre Midi) in order to assure deliveries to Cermany ("Panzerung" program, "Hinderer" plan.)

#### Coal situation in France, December 1943:

The High Commander in France, von Stuolphagel, is informed that the German authorities intend to ship 200,000 to 220,000 tons of Lorraine coal to France during January 1944, but that further help from Germany will be impossible because of the critical transportation situation. Further shipments from Belgium cannot be made because of big decrease in coal production and the critical situation of the gas and electric power plants and of the coking plants there. The improvement of the quota for French industry depends entirely on the transportation situation. 850,000 tons of coal can be delivered for the French railroads if the freight-car and barge space can be made available. By the end of December, the coal reserve of the French railroads could, therefore, be improved to last 13.5 days. But that depends on whether or not the transportation embargoes planned in the interest of the coal supply can be fully carried out.

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## Coal Program for January 1944:

- 1. The French State Railroads receive 752,000 tons of coal from new production. This corresponds to the estimated consumption for the month. The reserves are to be filled up by a delivery of 50,000 tons from mine stockpiles in Northern France.
- 2. Gas plants receive 230,000 tons and the electric power plants 270,000 tons.
- 3. For domestic fuel, 310,000 tons till be made available, including deliveries on quota backlog.
- 4. For the rest of industry, 274,000 tons are available, including 40,000 tons for deliveries on quota backless and 34,000 tons for the production of soda by Solvay (Dembasle) and other deliveries which are in the German interest. The industry quota includes 27,500 tons of coal reserved for the production of cement.

## Coal and cement in France and Belgium, December, 1943:

According to information by the Plenipotentiary for Construction, the coal supplies of cement plants were practically used up.

## Stocks of coment on hand at coment plants:

50,000 tons in Belgium +8,000 tons in Northern France +24,000 tons in the rest of France 82,000 tons

Supplies of cement of the Organisation Todt (OT) were estimated to be sufficient for 10 days at best. Some of the construction sites already had to be closed down. According to the cement industry and the Organisation Todt, the scarcity of cement was not due to transportation difficulties, but to the <u>lack of coal</u>.

#### Cement requirements:

Operational program of the German Armed Forces

350,000 tons

Other Armed Forces requirements

26,000 tons

Civilian requirements, including armament industries, 71,000 tons power plants, mining, and waterways

447,000 tons

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The cement requirement of about 450,000 tons has to be covered by an import of 60,000 tons from Germany and new production of 390,000 tons of cement, for which about 125,000 tons of coal are needed. Plans were made to curtail the operational program by 150,000 tons of cement, reducing those requirements to 200,000 tons of cement. If Hitler would approve this curtailment, production of only 240,600 tons of cement, requiring about 75,000 to 80,000 tons of coal, would be necessary.

### Coal requirements for the cement program:

For January 1944, the following coal quotes were allocated for cement production:

in Belgium 28,700 tons in Northern France 11,000 tons 10,0.0 tons 49,700 tons

If the reserve of 27,500 tons of coal could have been used for this program, the total allocation of coal for cement production would have reached 77,200 tons, a quantity which would have been sufficient for the curtailed cement program. But the reserve of 27,500 tons of coal had been made available to the German High Commander for France for his industry quota. Therefore, arrangements will have to be made with him, or in case of need, the cement stockpiles of the cement plants will have to be utilized.

#### Lorraine coal supplies to France, March 1944:

Despite the December 1943 warning that Germany could not help out any longer by shipments of Lorraine coal, 257,000 tons were scheduled for delivery from Lorraine mines to France for the month of March. This quota was to be distributed as follows:

French railroads	122,000	tons
Gas plants	35,000	tons
Electric power plants	10,000	tons
Solvay (Dombasle)	10,000	tons
Aluminum industry	33,000	tons
Other industries	47,000	
	257,000	tons

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## Soda production:

In March 1944, the raw materials office of the Reich Ministry for Armament and War Productions informs the Reich deputy for coal in the occupied areas that the reduction of the monthly coal allocation from Solvay (production of soda) is unbearable in view of the extremely critical soda supply situation in Germany and France. This plea for a quota increase for Solvay was successful as far as the scheduled quota distribution of Lorraine coal for May 1944 is concerned:

French railroads	151,000 tons from new production 30,000 tons from stock piles
Gas plants Electric power plants Solvay Solvay Aluminum industry Other industries Powdered coal	15,000 tons 1,000 tons 1,000 tons 2,000 tons 2,000 tons 33,000 tons 6,500 tons 4,500 tons 256,000 tons
	-,0,000 00

But the Solvay quota was later on completely cancelled, together with other quotas (s. page  $\frac{14}{3}$ ).

# Coal allocation for cement production, Belgium/France, April 1914:

The central planning office in Berlin allocated in April 1944, a special quota of 30,000 tons of coal for cement production, of which 2,000 tons were delivered to the "Elsaessische Portlandzementfabrik" in Altkirchen (Alsace), and 28,000 tons were delivered to French and Belgian cement factories as follows:

Lafarge and du Teil, Limay	1,500 tons
Lambert Freres et Cie, Cormeilles	6,000 tons
Politet et Chausson, Beaumont	2,000 tons
Ciments Français, Couvrot (Marne)	1,500 tons
Polot et Chausson, Gargenville	8,000 tons
Lafarge et du Teil, Frangey	500 tons
Fisson et Cie, Xeuilley (M and M)	500 tons
Poliet et Chausson, Pagny sur Meuse	500 tons
Ciments Français, Montebourg (Manche)	1,000 tons

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Poliet et Chausson, Beffes (Cher)	2,500 tons
Ciments Francais, Guerville	1,500 tons
Ciments Francias, Origny Ste. Bencite	1,500 tons
Ciments Francais, Airvault	1,000 tons

# Effects of coal shortage on the iron and steal industry:

On 22 April, the special staff for the "Hinderer" plan in St.

Etienne informed the High Commander for France that several iron and steel plants in the area either had to shut down operations or decrease steam pressure, because of the coal and coke shortage. The Tarascon blast furnaces had to decrease steam pressure preparatory to shutting down operations. The following operations were shut down: the sheet-rolling mill of the Marrel steel plant; the forgery of the Firminy steel plant; the three-high mill train of the Lorett plant; the intermediate rolling mill of the Assaily works; and the forgery and rolling mill of the Aubertes Duval steel works. The shut-down of the following plants was planned for the end of the month: Fumel iron works, Chasse iron works, Marrel's bar-rolling mill and Martin blast furnaces, parts of the Assailly steel plant, Bedel steel plant and the Alais steel plant. Even in February the coal shortage had its effects, as the following production statistics show:

### Production February 1944:

	T.T.M. HRIME	Tons of pig iron			
	Chasse Fumel Tarascon	2,837 1,588 1,477			
		1,477 5,902 tons of 12,49	O tons /capacity?/	= 47%	
Firm name	Ton	ns of steel pig		rolling mill products	
Marrel Firminy Assailly Aubertes D Bedel Alais	uval _	. <b></b>	1,614 985 1,370 212		-
	2,83 /car	ll ton <u>s</u> of 25,539 ton pacit <u>y?</u> / = 11%		ns of 16,322 tons <u>y?</u> / = 26%	,,,

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#### Transportation bottleneck:

At the end of April 1914, the German raw materials office in Metz informed the German High Commander for France, mining department, that an additional quota of 10,000 tons of Lorraine coal had been set aside for the French industry of the south-central section of France ("Hinderer" - territory) and of 5,000 tons for the industry of west-central France. This quantity of 15,000 tons, which was urgenly needed for important war production, could not be transported because of a transportation embarge. Intervention in favor of these transports proved to be fruitless because priority was to be given for transportation of 1410,000 tons of coal from Germany for the French state railroads scheduled for May.

#### Coal supplies to France, May 1944:

Allocations for the month of May were set at 502,000 tons of which the French state railroads were to receive about 1440,000 tons and the Paris gasworks about 60,000 tons. The following quotas which were already scheduled were cancelled: 4,000 tons for electric power plants, 33,000 tons for the aluminum industry, 15,500 tons for Solvay (Dombasle), 8,500 tons for other industries, and 4,500 tons of powdered coal.