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THE PLOUR INDUSTRY OF CHIEA

Huang Chih-ch'iu

The flour industry in China occupies a position second in importance only to the textile industry. Since the beginning of its development, the problems that have confronted the flour industry are approximately the same as those

The commentation of the flour industry in the Shanghai-Hankov areas is a result of natural and economic conditions, in addition to the domination of industry by the imperialists. In the past, the transportation in the north of our country was not as good as that in the south. In the cast and south natural areas of this approximation of products was easy because of the concentral areas of China, exportation of products was easy because of the convenient transportation offered by the Yangtze River and the sea. Hence, the flour produced in Shanghai and Hankow could be sold to buyers of northeastern and northern China, in Tientsin, Ying-k'ou and Dairen, and to those of the south in Fuchow, Amoy, Swatow, Canton, and Hong Kong.

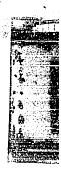
I. FACTORS AFFECTING INDUSTRY

Both natural and economic factors affect the flour industry. They include the following:

A. Difficulty in Obtaining Raw Materials

Borth China lacks water transportation and must rely on the labor of human beings and animals for conveyance. A great deal of labor is necessary to trunsport a very small quantity. Consequently, transportation costs are high and cannot compete with the cheap water transportation in the south.

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B. High Price of Wheat in Forth

The main food of the people in the south is rice; wheat is only a supplementary food. Farmers been a very small quantity of wheat for their use after the harvest and sell most of it in the warket. From late surmer to early flour mills can purchase large quantities of cheap wheat at that time. On the other hairs, in the north wheat is generally the main food of the people. Consequently, farmers cell very small amounts of wheat after the harvest; they wheat is scarce on the morhet and prices are very high as compared with those in the south.

C. High Costs of Export

At present, the rural economy is very poor; but the price of machine-processed flour cannot drop as low as that of hand-ground flour; consequently, very few farmers in North China use machine-processed flour and it must find a market outside the north. However, when the cost of transportation by land is added, the total cost of exporting flour from the north becomes very high in comparison to that of the south.

The flour industry in North China must be content with the market in its area since it cannot expect an expansion of export in the near future. On the other hand, the prospect for the flour industry in the south is still good due to its comparative advantages. Although the flour market of the north cannot be expected to sell over 10 million begs a year as it did in the past, it can maintain a yearly sale of several million bags. Furthermore, markets in the south, such as Hong Kong, Taiwan, Canton, Amoy and even the South Pacific area can very well be explored when the political situation becomes stable.

The following table shows the present conditions of the flour industry in China:



Table 1. Production Capacity of Chinese Flour Industry by Area (Compiled, September 1950)

			100	•	· (COMPIL	ed, septemo	er 1950)		•		
		~	No of Mil	ls	5	-Br Product	tion	T	otal		•
	Area	State Owned	Jointly Owned	Privately Owned	State Owned	Jointly	Privately Owned	No of	24-Ar Pro- duction	W -4	
	East China	22	**	465	38,363	3	251,194	487	289,557	Notes 76,143,048	
	Shantung	15		375	18,931	. 	30,015	390	48,946	(yearly) Tsinan alone	
la:	Anhwei Kiangsu /excluding Shanghai/	2		11	7,400		14,458	13	21,858	29,636	
RESTRICTED	Shanghai	5		lift	12,032		82,684	49	94,716	Wu-hsi alone	周
CTED	Chekiang Fukien			29 3 3			119,318 2,560	29 3	119,318 2,560	43,590	RESTRICTION
	Morthwest China	8		<i>3</i> 93	6,324		2,159	3	2,159		녈
	Pei-feng Shensi	2		64	840		26,454 19,544	101	32,778	8,653,392 (yearly)	
	Kansu Ningsa	5		12 17	1,510		4,988 1,922	66 14	20,384 6,498		
	Sinkiang	1			450 2,244			19 1 1	3,202 450 2,244		
	Central-South China	8	6	65	9,418	5,840	33,720	79	48,978	12,930,192	
	Hupen Hankow	3		2 49	4,120		520 550	2	920	(yearly)	
	Honan Kiangsi	2	4	3 2	3,048	4,840	26,030 1,650	52 9	30,150	7,959,600 (yearly)	
	Evengs i Evengtung	1 2	2	7 5 5	50 2,200	1,000	200 400 2,000	14 3 3	9,538 1,200 450 4,200		
					(Ta		-	,	*,200		

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Hunan			6		i,	2,520			
Southwest Chira					••	-, 720	6	2,520	
			53			13,730	53	13,730	- A
Chungking			30					13, 30	3,644,720
Szechwan			16			3,856	30	8,856	(yearly)
Yunnan						3,120	16		
Kweichow			5			1,400	5	3,120	
The second second			2			354	ź	1,400	•
North China	42					324	ے	354	
	46	1	143	42,407	960	55,653	101		
Tientsin	-				,	22,000	191	99,020	26,141,280
Peiping	5		50	8,350		20 1120		S .	(yearly)
Hopeh /excluding	11		76	8,150		30,410	` 55	38,760	
Tientsin and				,,		18,913	87	27,063	
Determinand									
Peiping/	13 2 5 5		11.	11,215					
Pingyuen	2		1.	3,500		1,590	24	12,805	
Shansi	5			7,412		1,400	3	4,900	
Chahar	5	1	4	2,780*			3 5	7.412	
Suiyuan	1		6		960	1,200*	10	1,940	
			v	1,000		2,140	7	3,140	
Northeast	20		39	14 011		-		3, 140	
			29	18,211		17,451	59	35,662	0.121.160
Lungkrang	7					., .		37,002	9,414,468
Kirin	i		5	11,411		1,000	9	12,100	(yearly)
Shenyang	î			570		~~	í		
Sungkiang	11		28	1,100		8,540	29	570	
Harbin			1	5,130		500	12	9,740	
			8			7,311		5,630	
Total ·						(,511	8	7,311	
1041	100	7	863	114,723	6,800	398,202			
				, <u>.</u>	0,000	390,202	970	519,725	137,207,400
Foresut - C m									(yearly)
Fercent of Total	10.2	0.7	89.1	22,2	1.1				
					7.1	76. 7	100	100	

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Note:

- i. The above table of daily production capacity is based on the original data reported by each will.
- ii. The unit of production capacity is equal to 44 catties [one catty equals 1 and 1/3 pounds] of second-grade flour.
- iii. Flour produced through stone or steel-plate grinding is not included.
- iv. Figures followed by an asteriak are calculated from the estimated capacity of a flour mill with a 0.2 inch by 24-inch roller.

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Data on the productive capacity of the flour mills in the Fortheast are incomplete. According to a survey of 1940, daily productive capacity of flour mills in the Northeest area was 180,000 bags, but data of the present investigation show only 35,000 bags, which is far less than that obtained in 1940. Figures compiled from the actual reports made by all the mills south of the Great Wall are believed to be reliable.

The daily (24-hour basis) productive expecity of the whole nation, according to the above figure, is 519,725 bags; and, counting 22 working days a month, monthly productive capacity of the whole nation amounts to 11,433,990 bags. This means that the yearly productive capacity of the nation amounts to as much as 137,207,400 rags.

D. Production by Provinces

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Kiangsu Province produces the largest quantity in the nation. It has a daily production of 214,034 bags which constitutes more than 40 percent of the productive capacity of the entire nation. Hopeh Province is second in productive canacity; it produces more than 78,000 bags daily, about 15.5 percent of the productive capacity of the entire nation. Shantung Province has a productive capacity of 55,000 bags (11.5 percent of the nation's total) Eupeh has a capacity of 31,000 bags (6.1 percent of the total) and Shensi has a capacity of 28,628

E. Production by Cities

The daily productive capacity of Shanghai is over 119,000 bags, which constitutes 20 percent of the daily national productive capacity. Wu-hsi is next with a daily productive capacity amounting to over 43,000 bags or 8.6 percent of the national capacity. The Larly productive capacity of Tientsin is 38,760 bags (7.9 percent of the total national capacity). Hankow's capacity of the total national capacity). Hankow's capacity is 30,150 bags, or 6.7 percent, Tsinan's capacity is 29,636 bags, (5.8 percent of the total) and Peiping's capacity is 27,063 bags (5.3 percent of the total).

Production by Administrative Regions

The daily productive capacity of East China is 214,034 bags, over ho percent of the daily national productive capacity. North China's capacity is 99,020 bags a day, which is about 19.6 percent of the national capacity. The productive capacity of Central-South China is 49,978 bags, which is 9.8 percent of the national capacity; the capacity of Northwest China is 32,778 bags or 6.5 percent of the national capacity. The capacity of Southwest China is

Production by Private and Public Enterprise

The daily productive capacity of state-owned mills is 114,723 bags, which is about 22.2 percent of the national productive capacity. The daily capacity of private mills is 398,202 bags (76.7 percent of the national capacity). Mills owned jointly by the state and private enterprise produce about 1.1 per-

II. PRODUCTION AND MARKET CONDITIONS

About 130 million people in China eat wheat products as their main diet. If all those people should eat machine-processed flour, one billion bags of flour would be needed. In other words, we need about 500 million picule of wheat. According to the total figure given by the Ministry of Agriculture, however, last year's wheat production was about 400 million piculs. Subtracting

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the amount necessary for seeding and wastage, the wheat to be used for food purposes does not exceed 350 million piculs. If the entire amount is used to produce "Sistype flowr" /Si cutties of flowr made from every 100 catties of wheat/, about 650 million bags of flour would be produced; but the present facilities must be increased fourfold to cost that goal.

It is still too early to try to increase the market for machine-processed flour. Only when the rural economy shows progress and the farmers standard of living is improved will it be possible to find a better market for the machine-processed flour.

In the past, most of the flour produced in the Shanghei and Hankov areas was sold in North Chinn. Shanghai alone shipped about 12 million bags of flour to North China every year. Flour sold in Tientsin amounted to 20 million bags every year. This constitutes about one quarter of the entire amount for the nation. For this reason Tientsin is called the greatest flour market in Rast Asia.

In recent years, seaports in South China have been blockaded, making the water transport of flour extremely difficult. Moreover, the cost of wheat transport from North China to Shanghai and Hankow, where the wheat is processed, is extremely high. The total cost would be unbelievably high if the flour had to be transported by railway to the Pelping and Tientoin order. Therefore, walkes the seaports are reopened it will be practically impossible to expand the northern market for southern flour.

The number of flour wills has been greatly increased in Peiping and Tientsin because of great actual demands and the encouragement of the government. Under present conditions it will be impossible for the flour industry of Skanghai and Hankov to maintain in the future the favorable position in North China it has had in the past, although sales will not drop entirely. The future development of the flour industry must take into consideration the supply of raw materials and market demands. It must not develop blindly again.

The following table shows the amount of wheat required for full operation of the flour mills in each area of China. From it we may derive estimates of possible surpluses.

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Table 2. Wheat Production and Amount Becessary for Full Operation of Flour Mills

			,,,,,,,	o creeries i			
Regional Area	Total Production	Farmers'	Amounts For Taz Payments	Required Seed	Balance	Required Amount For Full Oper- stion of Mills	Comparison of Supply and Demand
East China	602,313	362,920	113,576	80,231	225,586	442,993	
Shantung Frovince Others provinces	342,313 460,∩00	152,920 230,000	53,576 60,000	34,231 46,000	101,586 124,000	83,253 359,700	-217,367 + 18,331 -235,700
Central-South China	892,400	483,200	138,000	67,598	203,602	75,706	
Homan Province Others	581,451 310,949	302,830 180,370	100,000 38,000	35,109 32,489	143,512 60,090	16,090 59,616	+127,896 +127,422 +74
Southwest China	870,000	840,000			3,000	22,504	
Northwest China	667,000	610,000		***	65,50 0	54,031	+ 7,496
Shansi Province Others	386,400 280,600	329,400 272,000	~~		57,000 8,000	46,454 7,671	+ 2,969 + 10,546
Northeast	40,000				35,895	., ,	+ 329
North China	845,812	358 , 476	103,663	67,665	316,008	33,384 1.47,472	a 2,511
National total	4,117,525	2,696,596	335,239	219,599	854,091	789,428	+168,536 + 56,663

and a new wheat production figures are derived from the figures given by the Battonal Food Concession

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Based upon past figures the maximum annual supply of wheat in our country is less than 40 million piculs; normally it is only about 30 million piculs. Wheat over and above the amount needed for home consumption accumulates in rural areas instead of being shipped to city markets. To correct such an accumulation the following measures should be taken by the government:

- Restrict wheat imports from foreign countries
- 2. Improve transportation between cities and villeges
- 3. Lower transpertation costs for wheat products
- 4. Purchase wheat at the proper time

If all the above measures are adopted, the problem of wheat surplus will no longer exist, while wheat production will also increase.

Although wheat cultivation in the Southwest is primarily a subsidiary occupation during the winter, if the market were to be expanded, wheat production there would increase accordingly. If all these methods are adopted, the milling industry will no longer depend on foreign sources for taw materials in the past.

Table 2 reveals that the areas which have the least wheat are Kiangsu, Chekiang, and Anhvei in East China. It is estimated that these areas have an annual shortage of 23 million piculs of wheat. In the past, a considerable amount of wheat was imported from foreign countries by way of Shanghai. From 1937 to 1939, Shanghai imported about 9 million piculs of foreign wheat a year, which constituted about 50 percent of the total wheat needed by the flour mills in that area. In 1931 - 1932, the amount of imported foreign wheat increased to 16,600,000 piculs, which was over 96 percent of the wheat mechanically milled in that area. From 1921 to 1930, foreign wheat accounted for about 28.78 percent of the total amount used by flour mills in that area.

With the exception of Shanghai, the supply of raw materials for the flour industry in China is fairly equal to the demand of each area. Honan Province produces plenty of wheat, but there are very few flour mills. Consequently, the mills need only a fraction of the raw materials produced and there is a surplus of about 15 million piculs of wheat a year. This surplus wheat is usually concentrated in the Shang-ch'in, Hsu-ch'ang and K'ai-feng areas before its shipped to Shanghai via the Lung-hai Railway to Hankow via the Peiping-Esakow line.

The amount of wheat transported from this area depends upon the volume of the purchases made by mill operators from other areas. Sometimes it reaches 10 million piculs; normally it is about 6 million piculs. Wheat produced in the Honan area is usually sent to the Shanghai and Hankow areas for milling and then to the Peiping and Tientsin areas for distribution. This is uneconomical. If the wheat were transported directly to the Peiping-Tiestsin areas and processed there, the costs of transportation and distribution would be reduced by one half. For this reason we should reconsider the advisability of purchasing wheat from the Honan area.

Wheat from the Shantung area is usually concentrated in T'eng Hsien, T'ai-an, Tse-yang, and Chiao-mi areas before it is shipped to the Tsingtao and Tsinan areas via the Chiao-Chi Railway for processing. A small quantity is also transported to Shanghai. Wheat produced in the Hopeh area is usually taken to T'ung Hsien, Lang-fang, Tientsin, and Ts'ang Hsien, and then transported to Petping and Tientsin with greater convenience; thus, very little wheat is transported from these to other areas. Wheat grown in vestern and northern Hupeh is generally brought to the Chung-chiang and Yün-meng areas and is then shipped to Hankow for processing.

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Wheat production in Hopeh is just sufficient to meet local needs. There is no excess wheat available for Wanking and Shanghai. However, it is estimated that about 2 million piculs of wheat are shipped annually from southern Homan to Hankow. This 2 million piculs of imported wheat compensates for the amount shipped from Honkow esstward to Shanghai.

Howth China provides the biggest market for wheat produces produced in Kiangau, Chekiang, and Anhyei. The second market is nouth China. The following table reveals the flour market situation in Shanghai.

Table 3. Flour Sales by Sharghai to Each Area Prior to 1940 (unit: begs)

Tear	Kiangau, Chekiang and Shanghzi	South China	North China	Northeast
1935	5,660,800	7,060,000	18,397,000	4,245,600
1936	4,486,000	5,608,000	14,581,000	3,366,000
1937	2,616,000	3,519,000	9,151,700	
1936	2,600,000	3,299,300		2,112,800
1939	4,119,000		8,998,400	
	+3±±9,000	5,132,100	13,998,000	

From the above table, it can be seen that Shanghai produced over 30 million bags of flour annually before the last war, about one half of witch was sold in Worth China, one quarter in south China, and the rest distributed in Wortheast China and the Shanghai area.

Five percent of the wheat processed in Shanghai flour mills came from foreign sources, and more than 50 percent of the flour was sold in northern China. Because importation of foreign wheat has been stopped and the market situation in Morth China has also been changed, more adjustments must be made for the future development of the Shanghai flour industry. It will have to utilize as much of the wheat produced in local areas as possible, as well as wheat from Szechwan. Though it is still possible to maintain a considerable market in Morth China, larger markets must be developed in south China.

In recent years very small quantities of foreign wheat and flour were imported, yet domestic flour markets often experienced slumps. The following table compares production with the sale of flour in the past year.

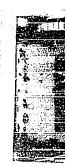


Table 4. Comparison of Production and Sales of Machine-Milled Flour, June 1949 - May 1950 (bags)

			As Compared			
	Area	Actual Output	to Production Capacity (in %)	Actual Sales	Sales in %	
	East China	17,273,600	29.82		of Output	surplus
	Shantung		£9.02	16,718,600	97.0	5155,000
		5,905,542	38.13	5,355,542	90.5	
	Central-South China	3,670,000	24.59			550.000
	North China	18,910,000	· ·	1,929,215	52.5	1,740,765
4	Northwest China	•	T2.06	14,765,949	76.2	4;144,051
		7,014,000	70 .00	7,014,000	100.0	
	Northeast	4,250,000	35.42		100.0	~•
E	Southwest China	807,460		3,550,000	83.5	700,000
ı	Mada 3	•	25.10	867,400	100.0	
	Total	57,910,742	43.00	50,220,706	87.0	7.690.8:6

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The above table shows that from June 1949 to May 1950, the actual output of flour was 58 million bags, which is about 43 percent of the total productive capacity of the country. The actual amount of sale was about 50 million bags, which constitutes about 67 percent of the actual output. The aurplus, therefore, was over 7 million bags. Apparently the surplus does not differ much from an annual inventory-output ratio of 10 percent, which is about 5 million bags. In other words, the present surplus problem is not a very serious one. Several conclusions may also be derived from the above table.

- 1. During a slump in the wheat market, the flour mills located near a wheat-producing area are able to operate at a rate closer to full carecity than the mills located far away from a wheat-producing area. In other words, the former are confronted with less acute surplus problems than the latter. For example, the northern Anhwei area actually produced 1,296,000 bags (47.1 percent of its production capacity), while the Shanghai area produced 6,672,000 bags (only 21.17 percent of its productive capacity).
- 2. During a wheat market slump, the mills located near a market area are able to operate at a rate closer to their productive capacity. This means that they are less subject to flowr market recessions. For example, mills in the morthwest maintained production at 70 percent capacity during that year, and those in the Tientsin area at more than 72 percent of their capacity.
- 3. Central-South China was severely affected by the flour market slump in 1950. Its production was only 24.59 percent of its actual capacity and the amount of sales was 52.5 percent of the total output. This means that the market consumed only 12.9 percent of the area's productive capacity. This caused the flour mills in that area to experience greater difficulties than in any other area.
- Production and sales in the Northwest and Southwest are in balance at present.

III. WHEAT FOR MILLING INDUSTRY AND MARKETS FOR ITS PRODUCTS

Costs of raw materials constitute as much as 84.6 percent of the operating expenses of flour mills. The cost of transportation varies greatly; it may be as low as 3 or 4 percent, or as high as 50 percent of the total cost. Therefore, to reduce production costs, special consideration must be given to location of the plant as it affects the cost of transport.

The following table shows the effect of shipping costs upon wheat prices in different areas:



Table 5. Comparison of Wheat Prices and Transportation Costs (Juan)

From	<u>To</u>	Original Prices (per catty)	Transportation and Miscellaneous Costs	Total Cost	Transportation, etc. Costs in \$ of Original Price
Hopeh	Peiping	772	99		
Hopeh	Tientsin	772	99	871	1.2.8
Shantung		114	105	87"	13.7
-	Tsingtao	693	92	785	
Shantung	Shanghai	693	171		13.3
North Anhwei	Sharghai	630		864	24.9
Hupeh	-	-	141	771	22.4
"	Canton	718	267	985	36.8
Hupeh	Wuhan	718	153		i
Southwest Region	Chungking	608		871	21.4
Water		300	105	716	17.8

Notes:

- i. Shipments of wheat from Hopeh to Peiping and Tientsin start from Han-tan, Heng-shul, Hain-lo, and Ting Haien; transportation costs in that area are computed from the average distance. Shipments of wheat from Shantung to Tsingtee start from Tsingar and Wei Haien, those from Santung to Shanghai start from Hau-thou and Tsi-an. Shipments from North Anhwei to Shanghai start from Peng-fu, Su Isien, Chu Haien, and Ho-fei. Shipments from vestern Hupeh to Ching-sha start from I-ch'ang and Sha-whih by bent. Shipments from areas in Szechwan to Chungking start from Pei-ling.
- Expenses for unloading are determined by averages. Packing expenses are based upon 100-catty bags (at 30 year per catty) in lots of five.
- iii. Freight rates by truck, car, and by boat are the prevailing authorized rates.

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As explained in Table 5, wheat grown in the Hopeh eres is chipped to Peiping for processing; its transportation cost, which amounts to only 12.8 percent of the price of wheat, is the lowest. The cost of transporting Hupeh wheat to Centon is the highest, about 36.8 percent of the cost of the wheat. Costs of transporting wheat from Elantung and North Anhwei to Shanghai are maxt highest -- 24.9 percent and 22.4 percent, respectively, of the raw material costs.

According to estimates made by Shanghai flour merchants, the transportation and miscellareous costs of shipping Honen wheat to Shanghai or Canton are the most expensive; they constitute over 50 percent of the cost of the raw material. Under such circumstances, it seems almost impossible to reduce production expenses. Accordingly, flour mills should be built only in wheat-producing areas. We should avoid moving wheat to the Scuth for processing and then sending the flour back to the North for consumption as we did in the past. Permission should be obtained from the government before constructing a new mill. The government should prepare detailed information on wheat production and flour markets in each area to serve as references in building new mills.

The cost of transporting flour to the market also increases the over-all cost. Before World War II, flour from East China and Central-South China had a very good market in North China because water transport costs were low. The following table compares the prevar cost of shipping flour from Changhai and Eankow to Tiontein with the postwar cost.

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Table 6. Prewar and Postwar Costs of Stipping Flour From Shanghai and Hazkov to Tientsin (yuan)

Figure and Free Area		Cost of Transport (per 44-catty dag)	Flour Price (per hag)	Ratio of Transport Cost to Flour Price	
Prop	Tree			· Ov	
Sus shai	Tientsin	Prematr 0.25 (ship cost)	3.35 (2d grade flour)	7.4	
Shanghai	Tientain	Postwer 11.158 (train cost)	52,000 (8) flour)	21.8	
lankov	Tientsin	Proper 0.28 (ship cost)	3.25 (2d Grade flour)	೮. 3	
Seakou Vozase	Tientsin	Pontwar 10.754 (train cost)	52,000 (8) flour)	20,7	

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Refere the war flour was shipped north by sea because of the low rates and the convenience; i.e., shipping by sea did not require unloading and relocating as did rail transportation. The prevar transportation cost from Ghanghai to Tientein by sea was only 7.4 percent of the selling price, but now it is as dight as 21.0 percent. The cost of shipping flour from Shanghai to Makey was 9.3 percent before the war, but now it has increased to 20.7 percent. Due to rising transportation costs, the flour industry in Shanghai and Hankow is facing many more difficulties than the northern flour industry. This also is a consequence of the blind development in the past.

For the development of the flour industry in the future, special attention must be given to transportation costs, to market conditions, and to the wheat supply problems. Table 7 chows the plan for the production and sale of flour throughout the mation for June 1950 to May 1951, adopted by the Foodstuff Processing Conference.

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Table 7. Fign to Ralance Production and Bale of Flour, June 1950 to Hay 1951 (bags)

Planted Production Figures for Year

Amount Available
for North
Chins Market

China Harket							Introduce of	
Area	Hand Milling	Machine Milling	Amount	Percentage	Total	Planned Cper- ation in % of Existing Capacity	Constion in Section:	
East Chine	10,090,460	6,700,000	2,138,000	11.2	18,528,460	32.6	+ 2.8	
Shantung	2,770,000	2,900,000	907,000	13.2	6,577,000	42.2	+ 4.1	
North China	10,000,000	7,000,000			17,000,000	64.5	+ 4.1 - 7.6	
Central-South China	1,780,000	2,640,000	895,000	16.7	5,315,000	35.5	+ 11.0	
Eouthwest	620,000	360,000			930,000	25.1	none	
Rorthwest	2,700,000	1,800,000	800,000	15.1	5,300,000	52.6	- 17.4	
Total	27,960,460	21,400,000	4,740,000		54,100,460			

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To solve the surplus wheat problem that exists today, stats-owned and private mills should follows the pian advanced by the conference. They should dead unitarity in an approximation and rales quotas in a spirit of comprosise, prevent wastege, reduced costs, and increase the markets. After the completion of the mation-wide land reform, the people's standard of living will be improved and purchasing power will be increased, improving the outlook for the flour industry. Heverthalmss, judging from present productive capacity, it is certain that the flour industry in East and in Gentral-South China will face a surplus problem for at least the next 5 years.

IV. ADDITIONAL DATA

The following tables give further data on acreage and production.

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Table 8. China's Wheat Acreage, Production per Mou Approx Contract

		Regions and Provinces	Area of Wheat Cultivation	Average Production			
			(mou)	From Each Mou	Yearly Production	Renarks	
		North China	89,080,000		(picul)	William Andrea	
		Hopeh Pingyuan Shansi	36,000,000 30,000,000	85 80	73,220,000 30,600,000	72,520,000	
		Charhar Suiyuan	15,600,000 4,000,000 3,150,000	87. 60	24,000,000 12,636,000 3,200,000		
		Peking vicinity Central-South China	330,000 79,210,000	80 80	2,520,000 264,000		
RESTRICTED	- 19 -	Konan Hupeh Hunan Kiangsi Kwangtung Kwangsi	43,000,000 15,900,000 4,600,000 7,300,000 2,650,000 5,760,000	120 140 110 124 110 120	98,249,000 51,600,000 22,260,000 5,000,000 9,502,000 2,915,000 6,912,000	Total area under cultivation: astimated by Committee of Finance and Economics of 4,600,000 and by	HESTRICTED
~	•	East China Shantung North Kiangsu South Kiangsu North Anhwei South Anhwei Cheklang Fukien	129,820,000 45,000,000 27,600,000 12,880,000 27,290,000 1,550,000 10,920,000 4,620,000	110 90 70 83 100 100	125,378,700 49,500,000 24,640,000 8,988,000 22,650,700 10,520,000 6,930,000	Ministry of Agri- culture at 2,500,000	

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			[Adjoins page	19 herey	
	Fortheast	8,000,000	110	8,800,000	
	Southwest China	36,590,000		51,974,000	
	Yuannan Kweichow Szechwan	3,940,000 4,640,000 27,320,000	135 100 150	5,319,600 4,640,000 40,980,000	Average figures for
•	Sikang	690,000	150	1,035,000	5 mewar years
	Morthwest China	43,930,000		56,462,300	
- 20 -	Shenei Kansu Ninghsia Tsingha Sinkiang	25,560,000 10,540,000 600,000 2,550,000 4,620,000	140 100 134 105 144	35,784,000 10,540,000 804,000 2,677,500 6,625,800	77 CEN 1
e	Acreage cultivated by armed forces	60,000	40	24,000	(53 <u>17.17.00</u>)
	Total	386,630,000		414,104,000	
	Rote: Figures ar Government	e based on statistics publ	ished recently by the	e Ministry of Agriculture, Cen	tral People's

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•	Type of Wheat	Regions and Frovinces	Water Content	Miscellaneous Substance	Flour
	Spring wheat	Chahar	14	11	(BO 81)
Winter wheat (white) Winter wheat (red)	Northeast			70	
	Tientsin	12	1.5	83-85	
	Hopeh	12	1.5	83-85	
	Pingyuan	15	2	82.5	
	Shansi	11	2	82.5	
	Winter wheat	Shantung	13.5	1.5	84
	(red)	Honan (Southern)	13.5	10	75
		Rupeh	13.5	10	78
		Anhwei	13.5	5-12	79
	Note: Flour yleld r	Kiangsu cfers to the net flour output from	13.5	4-6	19 79

Table 10. Flour Meld of Various Wheats and Tooir Entricive Qualities

Alesta	Flour Yields	Albumin (net weight)	Percentage Increase	Thispin	Percentage Increase
White wheat	72	11.460		0.493	
(Pei-hsi No 12)	81	12.982	+12.0	0,653	+73
Red wheat	72	9.125		0.518	***
(Ming-kung No 204)	81	11123		0.880	£69.8

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