UNITED STATES DEPARTMENT OF AGRICULTURE Bureau of Agricultural Economics Washington

September 19, 1928

FOREIGN NEWS ON WHEAT

WORLD WHEAT CROP AND MARKET PROSPECTS (Based on reports up to September 13, 1923)

Forecasts and estimates of wheat crops indicate some improvement in the Northern Hemisphere in the past month, but the world's supply for the season still seems likely to be only about 4 per cent larger than the supply available for the 1927-28 season, and this increase in supply will be largely offset by an increase in demand, according to the Foreign Service of the Bureau of Agricultural Economics.

Increases in the production of North America and Europe outside of Russia are offset to some extent by the prospect of a smaller crop in Russia and India, both of which probably will have to import wheat before the end of the season. The increase in stocks of old wheat in exporting countries at the beginning of the new season, July 1, has practically disappeared by larger shipments through the months of July and August to supply deficits in European markets. Prospects for the rye crop outside of Russia have improved and are now about equal to last year, but last year's crop was so short that rye prices were high. Short corn crops in Southern Europe appear likely to result in an increase in the consumption of wheat in Italy and the Balkan countries. Europe may import as much wheat this season as last, even though the wheat crop outside of Russia is larger than last year. The recent drop in prices the world over will tend to encourage feeding of wheat to

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livestock, increase the consumption of wheat as a substitute for other bread grains, and in some countries discourage seeding for next year.

Prospects for the 1928 crop

Wheat production reported to date in 29 countries outside of Russia totals 3,188 million bushels, an increase of 6 per cent over the 2,987 million bushels produced in those countries in 1927 when they produced 84 per cent of the estimated world total crop outside of Russia and China. Of the remaining 16 per cent about a fifth is included in the crops of minor Northern Hemisphere countries for which indications in condition reports in some countries and indications from neighboring regions in the case of other countries indicate a crop not far different from that of last year. Nearly twothirds are included in the crops of Argentina and Australia where present indications are for increased total production over last year, but the most critical period has not been reached in Argentina and later conditions may modify the situation materially. A table showing production in reporting countries is given on page 5.

Canada

The vheat crop is forecast at 550 million bushels, according to the first official estimate, an increase of 110 million bushels or 25 per cent over the 440 million bushels officially reported last year. The actual increase may not be quite so large as these figures indicate. Last year's estimate is believed to have been somewhat under-estimated. The Canadian Bureau of Statistics has intimated that this was the case but does not usually revise the January estimate of production until a year later. Receipts in the past year indicate that the 1927 crop was probably hearer 465 than 440 million bushels. Frosts during August in parts of Saskatchewan and Alberta are believed to have lowered grades of the current crop somewhat, and may have lowered the yield. Aside from the frost damage the 1928 crol is reported to be in good condition, remarkably free from disease and with no rust. Weather has been favorable for harvesting.

The large increase in Canadian carryover of old crop is now entirely disposed of, leaving the storage facilities as free as last year for the receipt of new grain. There has been some building of elevators during the year but it is believed that this has not added enough storage space to allow free movement of the grain, and shipment is expected to be retarded by congestion. A brief statement of the relation of various weather factors to the yield of wheat in Canada is given on page 19.

Europe

Estimates have been revised upward during the past month in many European countries and the total reported to date in 20 countries outside of Russia is 1,330 million bushels compared with 1,227 million bushels in the same countries a year ago. Sweden and Denmark are the most important European countries for which no estimate of the crop has been received. For Sweden reports of growing conditions have been poor and the crop has been backward. The quality of early samples of wheat in most European countries is generally good. European rye production estimates outside of Russia are also much better than were indicated by earlier reports. Indications are still for a smaller European potato production, however. Smaller corn crops in the Balkan countries may reduce wheat exports from those countries.

Russian wheat production is officially estimated at 749,564,000 bushels which is about the same as last year's crop. The rye crop which is used for bread in Russia as much as wheat, or more, is considerably below last year and the total production of the two grains is about 11 per cent below 1927. There is propaganda in circulation there for the use of other grains for mixing with wheat and rye in flour milling. It seems probable that Russia will be an importer rather than an exporter this year. She imported wheat heavily at the beginning of the 1928-29 crop year. Furthermore, the regions where the crop has been best this year are at a distance from the centers of consumption and from the ports, thus increasing procuring and transportation difficulties, and this poor distribution may result in further imports for supplying the deficit regions.

North Africa

There has been a reduction in the estimate of wheat production in Algeria and Morocco and the total for the three Northwest African countries, where a large part of the crop is durum, now amounts to 64 million bushels, an increase of only 3 million bushels over last year. Conditions in Egypt are still reported slightly below last year.

<u>Asia</u>

Total production in India, Japan and Chosen, together with a rough estimato for Palestine, Syria, Cyprus and Lebanon is 350 million bushels compared with 395 million last year. The crop in India has been revised downward still further and is now 44 million bushels below last year and that country is expected to be on an import basis this year. Famine conditions are reported in some parts of North China, but in the region back of the Shanghai milling district the whoat crop is expected to be above last year and in Manchuria it is estimated to be about 10 per cent above last year. Manchurian wheat is largoly hard and it is expected

that there will be a normal market there, or better, for American Club straight flour in spite of the increase in the Manchurian crop. The wheat and flour market situation in China and Japan is covered more fully on page 15.

Southern Hemisphere

The outlook in the Southern Hemisphere is still for a crop somewhat better than last year but the most critical period in Argentina at least, is still to come. In Argentina, where acreage as now reported is 2.8 per cent above last year's final estimate, average yields would give a harvest of 237 to 245 million bushels as compared with last year's 239 million bushels. According to last reports the crop was in excellent condition, but weather conditions appear to have been favorable to a rank growth, which might lead to damage in case of frost, and which may result in a poorer development of heads even if there is no frost. The below normal temperatures the past couple of weeks have probably been favorable to the crop since no frost has been reported. September and October are usually the most critical months from the standpoint of temperature. In Australia the crop in the east has been needing more rain the past couple of weeks, while in western Australia conditions are favorable.

Rye production

Rye production in 19 countries is forecast at 824 million bushels as compared with 770 millions last year. The increase in these countries, however, is offset by the estimate of reduction in Russia from 968 million bushels in 1927 to 783 million bushels in 1928. Germany and Poland appear to be harvesting fairly good rye crops.

Corn production

Reports to date indicate poor corn crops in Southern Europe. Agricultural Commissioner Steere reports heavy drought damage in Southern Italy and private estimates indicate that the Italian crop may be from 15 to 40 per cent less than last year. The Rumanian crop is also likely to be short. Drought has reduced prospects particularly in Hungary and Rumania. Over 20 per cent of the corn area in Rumania is reported to be in poor condition. The latest forecast of the Hungarian crop is nearly 35 per cent below the outturn of last year and Czechoslovakia has a short crop. Since corn is used extensively for food in these countries, a shortage of corn and high prices may result in some increase in consumption of wheat.

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WHEAT: Production in specified countries, average 1909-1913,

	: Ave	erage	<u>1 1925-19</u> :	·····	:		1928 preli
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Country		esent	1925	:	1926 :	1927 :	casts and
		laries	•	:	:		estimates
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		shels	: bushel		bushels :	bushels :	bushels
	:			:	;		:
Canada, winter	: (2	21,466)	: 23,32	25:	21,785:	22,266:	: 21,344
spring	: (17	75,653)			385,351:		: 529,138
United States, winter	;)		: 401,7		627,433:		578,599
spring	• /	0,108	: 274,69		203,607:	319,307:	: 322,473
Mexico		1,481	: 9,213	3:	10,333:	11,890:	11,332
Total countries report-	:		:	:	:		
ing 1928		8.708	:1.081.1	17:1	.248.509:	1,324,510:	1,462,886
EUROPE	:		:	:	:		
England and Wales	: 5	5,770	50,77	73:	48,683:	53,116:	44,837
Netherlands	:	4,976			5,487:	5,096:	
Belgium	: 1	5,199	-		12,801:	16,277:	-
Luxemburg	:	615 :		53:	622:	743:	551
France	: 32	5,644 :			231,767:	276,128:	<u>b</u> /(240,000
Spain	: 13	0,446 :			146,599:	144,825:	141,097
Portugal	:c/ 1	1,850 :			8,560:	11,439:	6,577
Italy	: 18	4,393 :	•		220,644:	195,809:	236,295
Switzerland		3,314 :	•		4,244:	4,336:	
Germany	: 13	1,274 :	118,21	3:	95,429:	120,522:	128,381
Austria	: 1	2,813 :	10,67	1:	9,438:	11,942:	<u>d</u> / 12,000
Czechoslovakia	: 3	7,879 :	39,30	9:	34,130:	40,385:	41,446
Hungary	. 7	1,493 :	71,67	'5:	74,909:	76,935:	91,785
Yugoslvaia:	6	2,024 :	78,64	-6 :	71,427:	56,568:	105,380
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lalta		196 :		4:	310:	294:	289
Bulgaria:	3'	7,823 :	•	0:	36,544:	47,346:	51,104
Rumania	<u>a</u> / 150	8,672 :	•		110,883:	96,734:	130,512
Poland	63	3,675 :	57,79		47,080:	54,230:	53,645
Finland		137 :	92	9:	924:	813:	831
Total European countries:		:		:	:	:	
reporting 1928:	1,324	1,466 :	1,356,10	<u>4:1,</u>	171,652:	1,226,836:	1,329,629
Other European countries:				;	:	:	
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lgeria		7,000):	23,87		16,174:	24,802:	22,046
Cunisia		5,161 :			23,551:	28,323:	30,313
gypt		5,224 :			13,044:	8,267:	11,942
Total		3,662 :	and the second of the second s		37,207:	44,546:	(40,000)
	92	2.047 :	104,60	2:	89,976:	105,738:	104,000

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a	nnual 1925	-1928, con	t'd.	-	
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	1909-1913:	1925 :	1926 :	192 7	: inary fore-
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	boundaries				: estimates
ASIA :	1,000 :	1,000 :	1,000 :	1,000	: 1,000
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:	:	:	:	:	:
India	351,841:	330,997:			
Japan	25,088:	.29,541:	,		
Chosen	6,898:	10,509:	10,517:	9,042	: 8,526
Palestine, Cyprus, Syria :	:	. E	:	:	:
and Lebanon	12,519:	16,451:			
Total	396,346:	387,498:	382,800:	394,688	: 350,000
Total 29 countries re-	:	:	:	:	:
porting in 1928	2,665,386:	2,876,622:	2,836,528:	2,986,913	: 3,188,123
Total above N.Hemisphere :		:	: :	:	:
countries		2,964,055:	2,924,799:	3,086,166	: 3,280,000
Est. N.Hemisphere, exclud-:		:	:	:	•
ing Russia and China	2,759,000:	3,026,000:	2,981,000	:3,136,000	:
	: :	:	:	:	:
SOUTHERN HEMISPHERE	;				:
Argentina	,	,	•		$:\underline{f}/235-245,000$
Australia	,,	•	•		: <u>g</u> / (165,000)
Other Southern Hemisphere					
Total, estimate		363,000	440,000	: 403,000	:
Est. world total, excl.					:
Russia and China					
Russia, production	,	,	-		
Russia, net exports	: 160,000;	27,000	: 49,000	: (7,000)	:
Compiled from official sour	<u>:</u>		<u>;</u>) The children t	: a of Agmioi	:

WHEAT: Production in specified countries, average 1909-1913,

Compiled from official sources and International Institute of Agriculture except as otherwise stated.

<u>a</u>/Four-year average. <u>b</u>/Forecast on the basis of a correlation of May 1 conditions in past years with final reports of yield per acre and assuming average conditions for balance of season. Conditions are reported to have improved since May 1 so actual yield may be expected to be higher than here indicated. <u>c</u>/One year only. <u>d</u>/Official estimate of winter wheat plus unofficial estimate for spring wheat. <u>e</u>/Report from Consul Plitt estimates 1927 production at 16,428,000 bushels. <u>f</u>/This indication is made on the basis of the officially reported acreage and a yield equal to the average of the past 5 years. <u>g</u>/Private estimates of acreage sown mention an increase of 1,500,000 acres in area seeded. This rough estimate is on the basis of that increase, assuming a yield per acre equal to the average for the past five years. Wheat prices generally reached low levels in August and then rose slightly. By the middle of August farm prices had dropped to 95 cents per bushel from an average of 118 cents in July and 132 in June. The prices of all classes and grades at six principal markets dropped from an average of 118 cents for the week ending August 3 to 108 the next week, and remained at this level until the last week in August when it rose to 110.

The prices of all classes followed about the same course excepting that of soft red winter which began to recover in the second week of August and by the end of the month had recovered to the level of the beginning of the month. The price of No. 2 red winter wheat at St. Louis for the first week of September averaged two cents above that of the corresponding week last year. This bears out the statement made in June that the supply of soft red winter wheat was so small that the price level for this season was likely to be near to last year's price level.

The September forecast of production in the United States indicates an increase of 10 million bushels in the spring wheat crop. The forecasts of both the durum and hard red spring wheat crops were increased. Reductions in the estimates of the crops of North Africa have slightly improved the outlook for durum. The hard red spring wheat is facing competition from the Canadian spring wheats in the world markets.

It seems likely that wheat prices in general will hold near present levels during the next month. Prices may fluctuate with reports of crop conditions in the Southern Hemisphere and European buying. The strength of the European demand for wheat may not show itself very definitely until later in the season, when it becomes certain that prices have reached lowest levels and the size of the crops has become more definitely determined.

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September				:	131	:		:	137	:		:	128	:		-	142		
October	: 125	; :		:	128	:		:	134	:		:	123	;		:	145	:	
November	: 126	; ;		:	131	:		:	134	:		:	128	:		:	141	;	
December	: 128	; ;		:	132	:		:	137	:		:	132	:		:	144	:	
January	: 131	:		;	133	:		:	143	:		:	130	:		:	151	;	
February				;	133	;		:	142	:		:	129	:		:	150	:	
March				:	138	:		:	147	:		:	133	:		-	169		
April	: 151			:	152	;		:	163	:		:	141	:		:	196	:	
May	: 151	:		:	160	:		:	178	:		:	140	:		:	196	;	
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WHEAT: Weighted average cash prices at stated markets

Wheat exports

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Exports in surplus producing countries depend not only upon the size of the crop but also upon the foreign demand for wheat. According to the latest estimate of winter wheat and forecast of spring wheat for the United States, the crop for this season is nearly 30 million bushels greater than the 1927 crop. A part of this increase in production will probably be utilized by increased consumption on account of low prices, and part of it may be added to stocks at the end of the year. The net export from last year's crop was 191 million bushels. It is therefore estimated that the export from the United States for the season beginning July 1, 1928 is likely to fall between 200 and 220 million bushels. Canada from a crop of about 465 million bushels exported 305 millions in the season July 1, 1927 to June 30, 1928, and increased stocks. Adding 85 million bushels to the supply according to the August forecast would provide an export surplus of about 390 million bushels without increasing consumption or stocks. Since Canada may consume a larger amount and carry over a larger quantity. exports are estimated between 345 and 390 million bushels. Russia and British India will probably import wheat. The Danube Basin and Balkan countries will have wheat to export, but exports will probably not be increased so much as production has been increased because of relatively low prices for wheat and the prospect of a shortage in the corn crop. Should Argentina and Australia realize average yields, a large amount of wheat would be available from those two countries from January 1 to July 1, 1929. It is assumed, however, that with the large supplies in the United States and Canada and relatively low prices, the Argentine and Australian crops will not move so rapidly as they have moved in the past year. Adding together the estimates of the probable range of exports indicates that the exports of the principal exporting countries in the season July 1, 1928 to June 30, 1929 will amount to about 860 million bushels as compared with a net export from these same countries of 801 million bushels last year.

Wheat Imports

Europe seems likely to import in the season beginning July 1, 1928 about as much wheat as imported in the past season, notwithstanding an increase of about 100 million bushels in the production of wheat. Great Britain will probably take as usual between 200 and 220 million bushels. Better crops in some of the European countries may cause them to reduce their imports below what they were last year, but others may increase their imports. It seems likely that France, for example, will import more wheat than last year. Fairly conservative estimates for each of the more important net importing European countries indicate imports of about 650 million bushels compared with about 650 million bushels imported last year. A review of the takings of non-European countries in the past five years also indicates that they are likely to take more wheat when the prices are low, and the probable imports of these countries are therefore estimated to total between 150 and 165 million bushels of wheat, including flour. (5

WHEAT, INCLUDING FLOUR: Net exports from principal exporting countries, years beginning July 1, 1923-24 to 1928-29

Country from	:	······			: :	4	Net ex	norts	rep	orted :I	rel.e	st.
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ed	: 24		25	26	: 27 :		to	: 28		-		Max,
	:Mi]	. :	Mil.	Mil.	:Mil. :	Mil. :		:Mil.	: M:	il. :N	Mil. :	Mil.
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United States	:	132:	255			191:5	ept.l		35:	20:	200:	220
Canada	:	343:	194:	320:	: 305:	297:J	uly 31	:	9:	36:	345:	390
Russia	:	21:	1:	27 :	: 49:	7:J	uly 28	:	0:	0:	-15:	0
British India	:	18:	45:	7	: 9:	12:S	ept.1	:	6:	1:	-20:	-5
Hungary	: ,	17:	15:	19:	: 21;	22:	-	:	;	:	25:	30
Rumania	:a/	6:	4:	8:	: 9:	5:		:	:	:	15:	20
Bulgaria	:a/	2:	a/ <u>b</u> /-2:	4	: 2:	2:		:	:	:	5:	10
Yugoslavia	:a/	6;	ື9:		: 10:	1:		:	:	:	20:	30
Algeria	:a/	9:	b/ -1:	5:	:b/\$/-1:	4:		:	:	:	2:	5
Argentina	:	170:	- 125:	100:	: 140:	186:S	ept.1	:	16:	16:	125:	160
Australia		83:	124:	77:	97:		ept.1		13:	11:	75:	85
Total all	:	:	:		: :	:		:	:	:	:	
coun, listed	:	807:	769:	671:	: 847:	801:		.:	79:	84:	772:	945
a/ Year ended	July	7 31.	b/ Net	; import	ts.		. c/	10 m	onth	з.		

WHEAT, INCLUDING FLOUR: Net imports into European importing countries, 1923-24 to 1927-28 and estimates of probable imports, 1928-29 as indicated by reports to date

7			begin								report			
Country	:1923	- :19	21- :	1925-	:19	926- :1	927-	July	1:	1927-	:1928	- :_	1928-	2 9
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Italy	: '	70:	96:	6-	1:	87:	87:	1	:		:	:	70:	80
Germany		30:	71:	5	3 :	94:	9 2 :	:	:		:	;	85:	95
France	: !	51:	41:	3-	4:	53:	55:	:	:		:	:	60:	70
Belgium	: 4	40:	39:	39	Э;	40:	42:	:	:		:	:	39:	42
Netherlands	: 2	27:	26:	2'	7:	28:	51:	:	:		:	:	28:	31
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Austria	:	17:	16:	1	5:	17:	15:	:	.,	ŧ.	:	:	16:	18
Switzerland;	:	16:	14:	1.	4:	17:	18:	July	31		1:	1:	16:	18
Sweden	:	12:	11:	(3 :	6:	9:	•	:		:	:	8:	13
Norway	:	6:	5:	ť	5:	6:	6:	:	:		:	:	5:	7
Denmark	:	9:	6:	(5:	7:	11:	:	:		:	:	9:	12
Finland	:	5:	4:		5:	5:	6:	:	:		:	:	5:	6
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In spite of the steadily declining price of theat, European markets have registered a relatively good volume of buying during the month of August, according to reports <u>a</u>/ from Agricultural Commissioner Steere at Berlin. Russia has not been a buyer the past month, but practically all the deficit countries have been continually interested for current or future needs, especially whenever the market has given any evidence of stability. This relatively good interest in the face of weakening prices has been engendered, apparently, by the lowness of stocks of imported grain nearly everywhere in trade and consumptive channels and the resultant necessity of buying for current requirements and for the near future. Another factor seems to be some belief that prices have reached, or nearly reached, a bottom level, as furopean trade circles for the most part now appear to anticipate relative stability of wheat prices around current levels for some time ahead, barring extraordinary developments.

Prospects for the wheat crop in Continental Lurope have undergone general improvement during August, as a result of very favorable maturing and harvesting weather. Close to 36,700,000 bushels have been added to ideas of the Continental supply during the month, and the crop will be materially above last year's outturn as well as above the aver ge of the past five years. Reports as to quality are also very satisfactory.

Russian participation as a wheat exporter this season now seems definitely out of the question. The total bread grain crop is no larger than last year - there are numerous indications that it may be considerably smaller and the supply is very unfavorably located from the standpoint of exports as well as for the principal centors of consumption in Russia. Fractical failure of vinter grains is reported in parts of the Black dea region, and the very favorable prospects for spring cereals have recently been dam end by reports of deterioration from general and heavy rains at harvost time. The first two months of the new procuring campaign have also brought unfavorable results.

Increased estimates of yields in Geruny, Belgium, Holland, Denmark and Poland are all due to general improvement in crop prospects over the northern half of the Continent during August. Maturing and harvesting weather has been much better than usual and many reports state that threshing results are exceeding expectations from northern France across Germany into Poland. It is, therefore, entirely possible that later estimates for countries in this region will be revised upward, but nevertheless some belief persists that thinning out by winter kill will be revealed in the final results. Private estimates for France around the middle of August indicated the probable production to be somewhat below 257,000,000 bushels, but recent reports on threshing results state that yields in Forwardy and northern France are exceeding expectations, so that our last month's estimate of 257,000,000 bushels still stands.

Germany

The German grain market has been characterized generally by an "in and out" attitude of buyers throughout most of August. The steadily weakening tendency of prices under the influence of preponderantly favorable crop reports has caused general reluctance to take extensive commitments, but there has been an underlying readiness to buy whenever less favorable reports have caused the market to assume a steadier tendency. A rather active demand with large transactions has been evident on a number of days, a fact which seems to have been based upon the relatively low stocks of imported grain in the hands of the trade and the milling industry, although there is also considerable belief that prices have now touched bottom. Heavy German buying is very likely once stability in the price level is assured.

Prices of bread grains in Germany have declined steadily throughout August, even to a greater extent than on world markets. This is doubtless due to the fact that the decline during July was much less pronounced than in the primary markets abroad. Domestic wheat at Berlin has decreased from 155.0 cents per bushel on July 25 to 140.7 cents on August 29, and rye has declined from 149.8 cents to 130.7 cents during the same period. The decline in rye has been especially marked and quotations on a weight basis are now below wheat for the first time in many months. This is entirely due to the improved outlook in Germany, as American prices have remained relatively stable for **rye**. The official estimate of the new German rye crop is 308,000,000 bushels as compared with the final official estimate of 269,000,000 bushels last year and the record crop of 317,000,000 bushels in 1925.

······································	W	hea	t	·			Rye
Date :	Hamburg	:	Breslau	:	Berlin	•	Berlin
:	Cents	;	Cents	:	Cents	:	Cents
:		:		:		:	
July 11	163.4	:	162.1	:	162.1	:	164.0
18	160.1	:	162.1	:	160.8	:	156.4
25	156.3	:	162.1	:	155.0	ŧ	149.8
ugust 1	156.3	:	162.1	:	154.6	:	147.9
8	153.3	:	162.1	:	154.3	:	140.1
15	144.3	:	152.4	:	151.4	:	137.0
22	153.0	:	145.9	:	144.9	:	134.0
29	148.5	:	145.9	:	140.7	:	130.7
September 6	139.4	:		:		:	153.2
12	132.2	:		:		;	125.2
		:		:		:	

Wheat and Rye Prices in Germany

Domestic offers of new crop wheat and rye have so far been small, partly because of the occupation of far are with harvest work, but the low prices are doubtless a more important factor. A rather active demand for German rye for export purposes is reported from the port markets.

The development of grain movements in Germany during recent weeks has not been out of the ordinary in any important respect. Imports of wheat during July amounted to 7,680,000 bushels as compared with 6,800,000 bushels in June and were, therefore, considerably below last year's July imports of 10,000,000 bushels. Arrivals of imported wheat at German seaports during the first three weeks of August have been about on the level of July figures, possibly somewhat smaller. Visible stocks of wheat and rye at the ports have decreased slightly since July and are now relatively small, especially in the case of rye, as the statistics on the movement of grain toward the interior on inland waterways show some increase during August as compared with July figures, which were very low. The visible stocks of wheat at Berlin, which dropped to 599,500 bushels on July 31 as compared with about 955,000 bushels on June 30, are thought to have declined further during August. German imports of rye in July amounted to 1,882,000 bushels as compared with 1,716,000 bushels in June and 4,141,000 in July 1927. August port arrivals are running smaller, in fact an export movement of German rye has already set in.

Reports on the German bread grain crops have taken a much more optimistic turn in the last half of August as a result of the good weather and unexpectedly satisfactory threshing yields. The rye harvest is now practically finished under relatively favorable conditions. The harvesting of wheat is well under way, but there is still some risk of damage to quality, especially since there has been considerable rain.

France

French wheat markets are reported to have had a rather quiet tone, but, nevertheless, a fairly important turnover of both wheat and wheat flour during the month of August. Marketing of new crop wheat developed rather actively, as ideal harvesting weather enabled a rapid winding up of this work.

Estimates of the French wheat crop still vary considerably, as the outturn is proving to be different than expected in different parts of the country. Yields south of the Loire have been below expectations, but in Normandy and in northern France the outturn has been better than expected, according to latest reports. There is some reason to believe that middle of the month private estimates placing production at around 250,000,000 bushels may be a trifle low, and that the crop may not be far from 257,000,000 bushels. The quality of the French wheat crop is reported to be very satisfactory. Considering estimates that 1,800,000 bushels of last year's crop were unsuitable for milling, it appears that the effective supply this year will not be far below that of 1927. Imports, however, will doubtless be larger than last year because of the much lower prices and apparently somewhat reduced stocks.

Italy

Italian grain markets were relatively active in August with considerable quantities of wheat being turned over. Purchases for import were good, particularly for distant positions. The wheat export prohibition has been prolonged until June 30, 1929.

 236,000,000 bushels. Rye production is estimated at 6,550,000 bushels, barley 11,000,000 bushels, and oats 50,600,000 bushels. The corn crop has not yet been officially estimated, but private estimates indicate an outturn of 15 to 40 per cent smaller than in 1927. Drought damage has been especially heavy in Southern Italy.

Belgium

The Antwerp grain market reports relatively satisfactory demand for wheat by Belgian flour mills throughout the month of August, considering the extreme weakness of prices. Sales to Germany were also of considerable importance. Stocks of wheat at Antwerp were very light at the close of August. The official estimate for Belgium shows satisfactory crops of both wheat and rye, as well as fodder crops.

Holland

August reports from Rotterdam are generally in line with those from other neighboring countries in that they indicate relatively good inquiry for wheat in spite of the declining tendency of prices throughout the month. Both Dutch and Rhenish mills were at times large takers of Hanitoba and Hard Winter wheat. The Dutch official estimate of 6,000,000 bushels for wheat is indicative of very satisfactory prospects, as the average crop for the past five years is only 5,000,000 bushels.

<u>Danube Basin</u>

Grain market reports from the Danube Basin indicate considerable business activity during August, even though local mills were interested only for current needs. The movement of the crop has gotten under way rapidly and in rather large volume, considering the general tendency of prices, reports indicating extensive shipments via the Danube.

The wheat crop in the Balkans and in the Danube Basin this year is undoubtedly one of the most satisfactory on record, from the point of view of both size and quality. This is especially true of Yugoslavia and Hungary, where the crop is one of the largest ever harvested. The latest official estimate for Hungary, as of August 26, places wheat production at 92,000,000 bushels as compared with 76,900,00 bushels last year, when the crop was considered relatively good. Yugoslavia has been officially estimated to have a crop of 105,000,000 bushels as compared with last year's very small yield of 56,568,000 bushels, this year's crop being about the largest in 20 years. Trude opinion, however, considers this figure too high, and in the light of all available information it would seem that 92,000,000 bushels is probably a more reasonable estimate. The recent official Rumanian estimate of 130,512,000 bushels of wheat seems too high in the light of unfavorable conditions reported in some parts of Bessarabia. The official estimate is certainly too high from the standpoint of the amount of grain it would seem to contribute to the general European suply, as there is a distinct limit on the capacity of the Rumanian railroads to move out of the country any

large surplus that may exist. An estimate of an even 110,000,000 bushels seems ample.

The grain situation in the Danube Basin and the Balkan countries, however, is somewhat complicated by the apparently unfavorable situation with regard to forage and feed crops. The prolonged drought experienced over most of this region during the past summer set in too late to affect the bread grain and earlier cereal crops, but corn, forage crops and pastures have been seriously damaged and there is even talk of having to make heavy sacrifices of livestock in parts of this region. It is certain that adjacent areas, such as Czechoslovakia, Austria and Germany, which are dependent upon this region for corn and some other feedstuffs, will have to depend much more heavily upon overseas shipments during the coming campaign., In Czechoslovakia, Austria, and Hungary official circles are reported as inclined to facilitate such imports by tariff reductions. The extent of damage to the corn crop is indicated by the fact that Hungary has just estimated production at 45,000,000 bushels as compared with 68,000,000 bushels last year and that Rumanian production is placed at 139,000,000 bushels. Over 20 per cent of the corn area in Rumania, moreover, has been reported in poor condition and about 38 per cent is only medium in condition, with the balance good. Rains have fallen over many parts of the Balkans and the Danube recently, so that some improvement in conditions can be expected, even though rather late.

Denmark

The latest official estimate of the condition of wheat and rye in Denmark outside of Jutland (95 per cent of normal for wheat and 86 per cent for rye as of August 1) points to relatively good prospects, especially since the weather has been fairly favorable in August. An overturn equal to that of last year seems probable.

Russian grain procurings

Russian grain procurements during the second half of August continued to develop slowly, according to a cable of September 5 from Agricultural Commissioner Steere. There are some complaints of wet grain. The development of the procuring campaign this season is expected to be considerably delayed, according to an article in the Russian paper "Economic Lite" of August 15, 1928. Winter wheat, which is harvested earlier than other grains in Crimea, North Caucasus and Ukraine, its chief producing region and which constitutes the most important source of commercial supply during the first two months of the campaign, will this year almost entirely disappear from the market due to the poor crop and considerable seed requirements. In the eastern regions where the crops are good, and which will therefore be an important source of bread grain for the rest of Russia, procurements do not usually develop on a large scale until December.

Furthermore, with a larger share of the procurements than usual coming from these regions this year, the less adequate drying, milling, warehousing and transportation facilities in these regions, the wetness of the grain, and the less extensive experience in procuring work, all are likely to cause further difficulties in the procuring situation. This year, for instance, Kazakstan, which is the most difficult of all eastern regions from the standpoint of procuring operations, has a record clup. Difficulties have arisen there in past years when the crops were not so large. Under such circumstances the efficiency with which the recently reorganized procuring machinery operates will probably count for a great deal. It is significant, therefore, that according to the Russian press in August there was observed considerable friction between the state procuring organization, "Soyuzkhleb", and agricultural cooperatives, which are supposed to cooperate in the joint work of procurements. An additional factor which probably will lower the procurements in some regions, Ukraine being especially mentioned, is local private trading by peasants, which usually increases during the years of poor crops. Considerable activity of this kind has been reported in the Russian press.

The recent increase of procuring prices is generally considered a favorable factor to procurements, but greater elasticity of procuring and adaptation to local conditions is urgen in the article quoted above. There are also difficulties on the demand side. Smaller crops in the consuming area, including the flax-growing sections, will make for a somewhat increased demand for grain shipped from the producing regions. A complicated situation is presented in Ukraine, according to the article quoted above. The Soviet authorities are faced with three problems in this region: (a) to secure fully the winter seed supply and not to allow the use of winter wheat for consumption; (b) to provide a food grain supply in a number of regions, and (c) to furnish the peasants with feeds in some regions which suffered from poor crops.

Oriental wheat and flour markets

Japan

Decreases in the prices of foreign wheats at Japanese mills, a good export demand for flour and high rice prices have stimulated the milling industry in Japan in spite of a falling off in the domestic demand for flour, according to a cable from Consul Kemper at Tokio. The price of United States western white wheat at mills in Japan on September 1 is quoted as equivalent to 159 cents a bushel, or 12 cents below the corresponding price a month ago. Canadian No. 5 on September 1 sold for 144 cents g bushel, a drop of only 3 cents below the price quoted a month previously. Australian wheat has also fallen, the present price being 165 cents a bushel. No definite price was given a month ago but it was said to be higher than any of the other wheats of which the highest quoted was the United States western wnite at 171 cents.

Wheat immorts into Japan during July included 169,000 bushels from the United States, 436,000 bushels from Canada, and 351,000 bushels from Australia. On August 1 foreign wheats had been in smaller supply than usual. Mill stocks on September 1 were larger than usual for that season. The wholesale price of standard flour on September 1 was 163 cents a bag of 49 pounds net, showing no change from the price quoted a month earlier. The domestic demand for flour is reported as slightly below normal, but the export demand is good. Flour exports during July are reported as equivalent to 547,000 bags of 49 pounds net. The milling industry is unusually active, according to Mr. Kemper, due to this active export demand and to the high rice prices.

Manchuria

The Manchurian wheat crop is believed by millers and other sources of information to be roughly 10 per cent larger than last year's good grop, but of poorer quality, according to a cable from Agricultural Commissioner Paul O. Nyhus in the Orient. In spite of this large crop, however, there is an active interest in "club straight" flour at Dairen, according to Mr. Nyhus. The increase in production is due to a substantial increase in acreage which is explained by several years of favorable prices together with good yields and to the opening up of new lands. Excessive rains in late July and early August made harvesting difficult and reduced both the yield per acre and the quality below last year. Smut reduced the yield in many localities and there is considerable grain which is poorly filled and discolored. The principal type grown in North Manchuria is hard wheat.

Manchurian mills are anticipating supplies and operations fully as large as for the active season just closing. Throughout the past season mills in Manchuria had enough wheat to operate at practically full capacity, and in addition there were exports in significant volume for the first time since 1922, the exports amounting to about 4,200,000 bushels, bought chiefly by Japan. Efforts were made the past season to market Harbin flour in Tientsin but with little success as it was impossible for Harbin millers to meet the prices of Shanghai and foreign flour in the Tientsin markets.

There is normally an outlet for certain quantities of "club straight" flour at Dairen as distinguished from the high gluten flour of Northern Hanchuria, and there is an active interest in club flour there at the present time. Flour importers state that the recent drop in prices of western soft wheat flour has, made prices very attractive at Dairen and that contracts for heavy September and October shipments have been made. The low prices, together with demand for flour from soft white wheat are favorable to imports of that class of flour in spite of the large Manchurian crop of hard wheat and importers are predicting that imports will be larger than last season's 245,000 bags of 49 pounds. The wholesale price of Manchurian wheat at Harbin on August 15 for October delivery was \$1.04 per bushel.

Tientsin

A small wheat crop in the Tientsin district of China, together with transportation difficulties and reductions in the prices of American and other flours, have resulted in good contracts for September and October delivery at that port, according to a cable from Agricultural Commissioner Nyhus. The market is well supplied for immediate delivery, but there is considerable interest in January and February shipments.

The wheat crop in the region surrounding Tientsin and supplying the mills of that city is extremely short this season as a result of drought in May which reduced yields materially. The supplies of local wheat at Tientsin are further reduced by seizures by the troops operating in that region and by transportation difficulties, and only small quantities are arriving. As a result, the supplies for local mills this year will have to come almost entirely from outside sources and mill operations for the current year are expected to be difficult and uncertain. The mills are already importing from Shanghai wheat from the big crop of the Yangtze valley. Manchuria, which is also reported to have a large crop, is another possible source of wheat imports. Normally the local mills supply about 30 to 40 per cent of the flour consumed in that district, the rest coming from Shanghai, Japan, the United States, Canada and Australia.

Big flour contracts were made at recent low points in the American and Canadian flour markets for September and October delivery. It is estimated that these orders total about 2,000,000 bags of 49 pounds, of which about half is "Club straight" flour. In addition there are contracts for about 1,000,000 bags of Shanghai flour and about 200,000 bags of Japanese flour, and each is subject to quick gains in the event of an active retail market. There have been heavy receipts of low priced Shanghai flour and stocks are moving somewhat slowly into consuming channels due to poor transportation conditions. It is stated that dealers are well supplied with foreign flour for early delivery, but there is considerable interest in flour for January and February shipments. Last year flour imports into Tientsin for the six months, July to December, totaled 7,608,000 bags, of which 1,155,000 bags came from the United States direct in addition to that sent by way of Shanghai.

The trade is disturbed by an announcement of the Nationalist Government to put into effect a tax equivalent to 4.6 cents, United States currency, per bag of 49 pounds on imports of foreign flour into Tientsin. A similar tax was levied at Shanghai, effective July 1. The consul at that port protested against the tax, but so far no information has been received of any action to withdraw it.

Wholesale flour prices the last of August were 165.6 cents a bag for local flour, 147.2 for "Club straight", 142.6 for Shanghai flour, 138 for Japanese, and 135.7 for Canadian. The locally milled flour is usually considered to be the best flour on the Tientsin market, the wheat usually being of excellent quality, of a higher gluten content than Shanghai wheat, but lower than Manchurian, according to an earlier report from Mr. Nyhus. The native flour has a moderate gluten content, a good white color, and normally sells for about 15 cents a bag above any other flour. American "Club straight" flour, although lowest in gluten content of any of the flours on the Tientsin market, has a firm and popular place because of its superior white color.

Outlook for wheat acreage in 1929

There are as yet practically no reports of probable acreage to be sown this fall for the 1929 wheat crop outside of the United States where farmers' intentions reports indicate a probable decrease of 2 to 6 per cent in winter wheat acreage from last year's area. The large 1928 crop and the fall in prices the past few weeks, just at the time when farmers in the Northern Hemisphere are preparing their land for the new crop, may normally be expected to tend to curtail fall sowing to some extent. Some analogy may be drawn from the situation in 1923 following the record world wheat crop of that year, but there are also important points in which the situation is different. In 1923 world acreage outside of Russia and China reached the high point of 229.6 million acres, and good yields brought the harvest up to 3,551 million bushels, an increase of 10 per cent over that of 1922, and the largest on record up to that date.

The European crop was also good, causing decreased demand for non-European wheat and, furthermore, unfavorable economic and financial conditions in many European countries, discouraged the purchase of foreign goods that year, so there was a poor market for the large crops of non-European exporting countries and prices dropped heavily. Following this situation the wheat acreage outside of Russia for the 1924 harvest dropped to 223.6 million acres, a decrease of 2.6 per cent from that of 1923. Poorer yields reduced the crop in 1924 still further to 3,141 million bushels, a decrease of 11.5 per cent. The acreage decrease in 1924 came practically entirely in the United States and Canada. Europe outside of Russia, taken as a whole, sowed an increased acreage, as did also Argentina, Australia and India.

In the present year, the increase in the size of the crop over that of last year is not nearly so great as it was in 1923, general economic and financial conditions are much better and demand is expected to be fairly good whereas in 1923 it was poor. (See FS-Wh. 24, August 20, 1928, pages 15 and 16). In 1923 Europe was still noticeably below the prewar normal in bread grain production. Wheat acreage was 10 per cent below the 1909-13 average in the same territory and production 7 per cent below prewar. The 1928 European wheat acreage, judged by preliminary reports, is only about 3 per cent below prewar, while production is indicated to be above prewar. There will still be some tendency to increase wheat acreage because Europe is turning to wheat consumption away from rye, but this pressure is not as acute as in 1923. The rye crop in Europe, although larger than last year, is still below prewar, so the total European bread grain production outside of Russia is still slightly below prewar, while population is larger. According to a report of the League of Nations the European population outside of Russia in 1925 was 4 per cent greater than in 1913.

Argentine and Australian acreage have shown a generally rising tendency for many years regardless of the size of the world crop, and a continuance of this movement seems probable.

In Canada wheat acreage has remained about stationary the past six years, showing no tendency to increase since the large war expansion until the present year. The size of the present world crop and the price of wheat during the coming months is likely to have more weight in determining next year's Canadian acreage than that of Europe or the Southern Hemisphere. See pages 22 and 23 for tables on wheat acreage and yield per acre.

Canadian Wheat Crop as Indicated by Weather Conditions

An analysis of temperature and rainfall data from April through July in its relation to wheat yields in the three western prairie provinces of Canada - Manitoba, Saskatchewan, and Alberta - indicated a probable crop between 476 and 552 million bushels for 1928 in those provinces or averaging the two extremes about 515 million. This is based on a multiple correlation measuring the effect of temperatures for April, May, June and July and rainfall for the period April to July upon the yields of wheat from 1905 - 1927.

The following table shows a comparison between final official reported production for the three western provinces and production obtained by multiplying the yield indicated by the weather relationship and the final official acreage. The third column is obtained by multiplying the government yield indication on August 1 by the revised acreage in order to compare our production indications from the weather with the government report as of August 1 as well as the final official revised production report for wheat in western Canada. It will be noted that in the past 20 years the indications of yield as determined from the weather data have come as near as or nearer to final official estimate of yield than the August forecast made on the basis of statements of crop reporters, in every year but three. Ce

:		:	Estimate on ba		Estimate on basis
8 D	Final official	•	of weather dat		of August 1 offici
Year :	estimate of	:	and official r		estimate of yield
:	production	:	vised estimate		and official revise
			acreage		estimate of acreage
:	Million bushels	3 :	Million bushel	<u>s</u> :	Million bushels
:		:		:	
1905:	80	:	69	:	
1906:	104	:	104	:	
1907:	72	:	6 2	:	
1908	107	:	129	:	95
1909:	146	:	131	:	109
1910	1 1 6	:	113	:	99
1911	207	:	206	:	196
1912;	200	:	201	:	206
1913:	200	:	201	:	216
1914:	156	:	184	:	140
1915:	351	:	345	:	336
1916:	242	:	246	:	255
1917:	212	:	191	:	233
1918	164	:	197	:	233
1919:	166	:	192	:	240
1920:	234	:	2 59	:	2 55
1921	280	:	326	:	334
1922	375	:	323	•	· 295
1923	425	:	490	:	355
1924	236	:	230		226
1925	372	:	367	1	335
1926	361	:	360		300
1927	415	:	431	:	351
1928		:	<u>a</u> / (515)	:	
of On the hast	s of screege in	those	nrovinces of	reported	in July

Canada: Estimates of wheat production, in three Prairie Provinces, 1905-1927

a/ On the basis of acreage in those provinces as reported in July.

TA

WHEAT: United States production by classes, 1923-1928

Year	:	Total		Hard red	:		L:	Hard red	:1	urun <u>a</u> /	:	White
			:	spring		winter	:	winter				*****
	;	Million	:	Million	:	Million	:	Million	:	Million	:	Million
	:	<u>bushels</u>	:	bushels	:	bushels	:	bushels	;	<u>bushels</u>	:	<u>bushels</u>
	;		:		:		:		:		:	
1923	.:	797	:	126	:	272	:	242	:	56	:	102
1924	.:	864	;	192	:	189	:	365	:	66	;	52
1925	.:	676	;	156	:	170	:	206	:	65	:	80
1926	.:	831	:	121	:	229	:	360	:	48	:	73
1927	.:	872	:	199	:	181	:	318	:	80	:	94
L928	:		:		:		:		:		:	
(July)	:	800	:	155	:	122	:	3 68	:	8 2	:	74
(August)	;	891	;	195	:	139	;	386	:	89	;	82
(Septemb	\mathbf{er}) 901	:	201	:	139	:	386	:	90	:	95
• •	:	-	:		:	-	:		:		:	

These production estimates are based upon percentages of area, by classes, in 1924, supplemented by percentages in 1923. <u>a</u>/ Crop estimates of four states plus 1924 indications in other states.

United States Exports of Wheat and Flour by Customs Districts

During the year ended June 30, 1938, when total United States exports of wheat amounted to 145,956,000 bushels, more wheat left the country by way of the Oregon customs district, mainly Portland, than any other customs district, foreign purchases amounting to 38,897,000 bushels, a new record for exports from that port. Duluth and Superior ranked second with exports of 35,954,000 bushels, also a record figure, the two groups together thus handling more than 50 per cent of our surplus. Galveston which has frequently held first rank as an export center dropped to third place with an export of only 13,074,000 bushels as compared with 51,223,000 bushels during 1927.

Total exports of wheat flour reached 12,916,000 barrels of which 39 per cent went out through the port of New York. Washington, consisting mainly of Seattle and Takoma took second rank in the export of flour thus supplanting New Orleans which had held second place during the 3 preceding years.

÷	Year ende	ed Jur	ne 30
Customs districts :	1927	:	1928
• • • • • • • • • • • • • • • • • • • •	Barrels	:	Barrels
Maine and New Hampshire	601	:	
Massachuseits	24,504	: 4	50,338
Buffalo	4,787	:	2,986
New York:	5,051,597	:	4,944,842
Philadelphia	270,975	:	149,543
Maryland:	535,300	:	333,603
Virginaa	198,137	:	134,151
New Orleans	2,232,829	:	1,913,982
Sabine:	58,737	:	40,832
Galveston	1,926,184	:	1,352,067
San Antonio:	27,220	:	10,900
Los Angeles	7,721	:	7,087
San Francisco	305,649	:	419,626
Oregon:	763,302	:	1,079,018
Washington:	1,729,347	:	2,267,726
Alaska:	565	:	556
Duluth and Superior	79	:	115
Wisconsin	1,071	:	210
Chicago	0	:	0
Ohio	0	:	0
Other districts	246,420	:	208,358
		:	······
Total:	13,385,025	:	12,915,940

Wheat flour: Exports from the United States by Customs Districts, 1927-1528

Compiled from Foreign Commerce and Navigation of the United States and official records of the Bureau of Foreign and Domestic Commerce.

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WHEAT: World acreage and yield per acre by major divisions, average 1909-1913, annual 1921-1928

														
			Est.				North-:			-	:	:	:	
									United:		;	:	:	
	Classifica-													India
	tion and						sphere:		:	:	: tina	:t	ralia:	
	year						:		:			:	:	
	AREA								Mil- :				Mil- :	
											lion			
	All Wheat -			•									<u>acres</u> :	acres
	Av. 1909-			:	:	;								<u> </u>
	13												7.6:	
4	1921				89.3:		195.4:			23.3			9.7:	
	1922				87.4:		196.9:						9.8:	
	1923				85.6:		198.8:						9.5:	
	1924				76.0:		191,0:						10.8:	
	1925				75.4:		193.9:							
	1926				80.5:	-	197.1:	-					11.7:	
	1927				82.3:		199.2:	35.4:					11.8:	
	28,prel.			5)	83,1:	a(70.7 a	(201,7)	<u>a</u> (37.4,) 57.8:	24.1	<u>b</u> /20.3	<u>r</u>	(13.3):	32.2
	Winter wheat	5:	*	:	:	, / :	1	:	:			:	:	
	only -	:		:	:	<u>a</u> / :	<u>e</u> / :	:	:			:	:	
	Av. 1909- 13			:	31.6:	:	:	: 26.7:	3 0 4.	1 0	101	:	~ C .	20.2
	1921				46.4:	=	: 146.6:						7.6:	29.2
	922				45.9:		149.0:						9.7:	25.8
	1923				43.4:		150.5:	30.8:					9.8: 9.5:	28.2
	1924				37,8:	-	147.1:	32.6:					10.8:	
	1925				33.2:	-	146.4:	33.8:		.8			10.8:	
	1926				39.1:		150.8:	33.9:					11.7:	30,5
	1927				40.0:		150.3:	35.4:					11.8:	31.3
	1928,prel.						(149.4)				ъ/20.3			32.2
	Yield per ac	-		:		<u>. (00,01</u>	.(00.1.	.0.	0,00.0	• -	(10.0)	00.0
	of all whea			:	Bus :	Bus.:	Bus.	Bus :	Bus :	Bus	Bus	:	Bus. :	Bus
الخر	Av. 1909-			:								:	:	
	13		14.9		15,2:	18.6:	15.5:	10.6	14.7:	19.7	9.1	:	12.0:	12.0
3	1931		14.2		12,6:	19.0:	14.3:							
` *	222		14.2		14.7:	16.1:	14.6:	12.0:					11.2:	13.0
	1923		15.5						13.4:					
	1924		14.0		15.0:	15.8:	14.3:	12.6:	16.5:	11.9			15.2:	11.6
	1925		14.9		14.6:	20.3:	15.6:	10.7:	12.9:				11.2:	10.4
	1926		14.8		15,5:	17.6:	15.1:	13.0:	14.8:	17.8			13.8:	10.7
	1927		15.1		16.1:	18.0:	15.8:	11.5:	14.9:				9.3:	10.7
	1928, prel					;	;			(22.8)		:		9.0

a/ Assuming that countries not reporting have an acreage equal to last year. For Europe outside of Russia about 5 per cent of the total wheat area has not yet been reported. In the total Northern Hemisphere 5 per cent has not yet reported. For the Southern Hemisphere Argentina is the only country actually reporting acreage for 1928. See notes b/ and c/. b/ August forecast. In the past 5 years this forecast has ranged from 98 to 99 per cent of the final estimate. c/ No official imate. Private estimates place the probable acreage 1.5 million acres above tween winter and spring sown crop. e/ Assuming total Asiatic area excl. R. and C. and total North African crops to be winter wheat. f/ Assuming that countries not reporting have an acreage equal to last year.

WHEAT: Yield per acre in specified countries, 1904 to 1928

						<u>ě.</u> 9					<u></u>	
	;	:		:	:	:	:	:	:	:	:	
Year			Canada			Austra-:	India:			Italy : H	-	Ru-
	_	<u>States:</u>			tina :		:		many :		gary :	
	:	Bus- :					200					Bus-
	:	<u>hels</u> :	hels	:	<u>hels</u> :	<u>hels</u> :	<u>hels</u> :	<u>hels</u> :	<u>hels</u> :	hels :	<u>hels</u> :	hels
	:	:		;	:	;	:	:	:	:	;	
1904		12.5:		;	12.4:	8.7 :	12.7:	18,6:	2 9,5:	13.9:	16.1:	12.6
1905		14.7:		:	9.6:	11.2::	9,9:	20.8:	28,5:	13.5:	18.5:	21,4
1906		15.8:		:	11.1:	11.1 :	12.1:	20.4:	30,3:	15.3:	21.8:	22.8
1907		14.1:		:	13.5:	8.3 :	11.9:	23,5:	29.6:	15.1:	14.9:	10.0
1908	_	14.0:			10.4:	11.9 :		19.5:	29.7:	<u> </u>	17.5:	12.3
Average	:_				11.4:	10,2 :		20,6:			17.8:	15.8
1909		15.8:	21,5		9.1:	13.7 :		22.0:	30.5:	16.4:	14.2:	12.8
1910,		13.9:	14.9		9.4:	12.9 :	12.8:	15.6:	29.6:	13.0:	19.3:	20.1
1911		12.5:	20.8		9.8:	9.6 :	12.3:	20.3:		16.4:	20.7:	17.6
1912		15,9:	20.4		11.0:	12.5 :	11.9:	20.6:	33.7:	14.1:	19.3:	15.9
1913	••-	15.2:	21.0		6.4:	<u>11.1 :</u>		19.8:		18.3:	19.6:	
Average	:	14.7:	19.7		9.1:	12.0 :		19.7:		15.6:		$\frac{a/16.6}{0.4}$
1914		16.6:	15.7		10.9:	2.6 :		18,9:	29.6:	14.4:	13.3:	9.4
1915		17.0:	26.0		10.3:	14.3 :	11.7:	16.4:	28.6:	13.6:	17.8:	19.0
1916		12.2:	17,1		5.2:	13.2 :	10.7:	16.5:	27.3:	15.2:	14.9:	16.2
1917		14.1:	15.8		13.1:	11.7 :	11.6:	13.0:	22.5:	13.3:	16.3:	
1918	. :_		10.9		10.6:	9.5 :		20.5:		17.0:	12.6:	
Average	:_	15.1:	17.1		10.0:	10.3 :		17.1:	the second s	14.7:		<u>a/12.1</u> 15.5
1919		12.8:	10.1		12.5:	7,2::	-	16.0:	24.8:	16.0:	:	
1920		13.6:	14.4		10.4:	16.1 :	12.6:		24.3:	12.5:	14.2:	12.3
1921		12.8:	12.9		13.4:	13.3 :	9.7:	24.3:	30.3:	16.4:	18.3:	
1922		13.9:	17.8		12.0:	11.2 :	13.0:	18.6:	21.2:	14.2:	15.5:	14.1
1923		13.4:	21.7		14.4:	<u>13.1</u> :		20.2:		19.6:	20.6:	and the second se
Average.		13.3:	15.4	_	12.5:	12.2 :		19.6:			a/17.2:	
1924		16.5:	11.9		10.7:	15.2 :		20.6:		15.1:	14.8:	9.0
1925		12.9:	19.0		10.0:	11.2 :		23.8:		20.6:	20.3:	12.8
1926		14.8:	17.8		11.5:	13,8 :		17.9:		18.2:	20.2:	13.5
1927		14.9:	19.5		12.1:	9.3 :		21.1:			19.1:	12.6
928, prel	-	15,4:	22.8		:	:					:	
 Average 	:	14,9:	18,2	::	<u>a/11.1:</u>	a/12.4:	10.5:	<u>a/20.9:</u>	<u>a</u> /26.8:	17.8:	<u>a</u> /18.6:	12.9

a/ Four year average.

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