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United States Department of Agriculture LIBRARY Bureau of Agricultural Economics Foreign Agricultural Service Washington, D. C.

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FOREIGN NEWS ON APPLES

Trends in Apple Exports 1/

Summary: The upward trend of apple exports ceased with the 1930-31 season and has been on a decline since that year. The chief reasons for the decline have been the world-wide business depression and the rapid increase in trade barriers which began to be felt about that time. The average import duty levied on imerican apples imported by European countries increased from 12% a bushel in the 1930-31 season to 60¢ per bushel in the 1935-36 season. In addition, import quotas, import license taxes, compensation arrangements, and other barriers have been established.

To some extent, the decline in exports may be attributed to smaller apple crops in the United States. The total apple crop has trended downward since about 1914 but this reduction has been due in a large measure to the abandonment of unsatisfactory orchards and the removal of unprofitable varieties. The commercial apple crop continued to increase up to 1926 but has shown a marked decrease since 1931.

There has been a change in the seasonal movement of apples during the last decade. In the middle 20's, apple exports during the last half of the season, January to June, generally ranged from 27 to 43 percent, whereas in the last two seasons over 50 percent of the exports have been made in this period. This tendency of apple exports to shift toward the last half of the season is chiefly due to the desire of foreign countries to protect their own crops with seasonal duties Which are higher during the first half of the season, and to increasing competition in the earlier months from home-grown crops in the various important markets.

Exports trend downward: A survey of the apple exports from the United States during the last 26 years discloses that exports increased up to the 1930-31 season, July to June, but have been sharply downward since that season. From 1909-10 to 1918-19, exports showed little gain. Failure of exports to register a more rapid increase in this period was largely due to the disruption of trade occasioned by the World War. Exports increased rapidly from 1919-20 to 1923-24 and then turned sharply upward in the next five years, 1924-25 to 1928-29. Table I gives the exports of apples for the period 1909-10 to 1934-35. Far the largest

part of the exports have gone to Europe, the chief market being United Kingdom. Other important European outlets are France, the Notherlands, Belgium; Germany, and the Scandinavian countries. Outside of Europe the most important markets are Brazil, Argentina, and Canada in the Western Hemisphere, and the Philippines, Egypt, Palestine, China, and British India in the Eastern Hemisphere. Exports to Canada have declined to a mere trickle in the last few seasons which is explained by larger Canadian crops, higher dutics, and the lower consumer purchasing power in that country. The relations of exports to the total crop is shown in Figure 1. With the exception of a slight decline in the trend during the 1914-18 period, exports in terms of the crops increased very rapidly until the 5-year period 1924-25 to 1927-28. The percentage of the crop exported continued to increase through the 5-year period 1929-30 to 1932-33. Exports of apples by 5-year periods are shown in Figure 2/ Exports during recent years are plotted in Figure 3. It will be noted that the percentage of the commercial crop exported varied directly with the size of the crop until the 1930-31 season. sharp drops in exports occurred in the 1931-32 and the 1934-35 seasons.

Seasonal exports shift: During the last decade apples have shown a tendency to increase during the last six months of the season, January to June, as compared with the exports for the whole season. This shift is largely explained by the increased protection that has been extended to the home apple crops by many European countries during the first part of the apple season, or from July to December. After the turn of the year many countries have lower duties on imported apples. In some countries the increased protection to the domestic industry has been accompanied by an improvement in the packing and grading of the home-grown fruit. Apparently there has been very little increase in the total production of dessert apples in the importing countries.

If the tendency for the exports to become larger in the last half of the season continues, it would appear that there will be a smaller and smaller market for early and fall apples, with the result that either the normal season will have to be lengthened for fall apples by more extensive use of cold storage or the chief apple exports will comprise largely long-keeping winter apples. This tendency for apple exports to increase during the last six months of the season, January to June, is brought out in Figure 4. In the 5-year period 1923-24 to 1927-28 only about 34 percent of the exports of apples on an average moved out of the United States from January to June, whereas during the 1933-34 and the 1934-35 season over 50 percent of the exports have been made during this 6-month period. The seasonal exports and the exports during the 6-month period January to June are shown in Table 3.

Production trend downward: In analyzing the trend of apple exports, some reference has to be made to the trend in apple production. The total apple crop of the United States increased from 1909 to 1914 and has been generally downward since that time. The decline in the crop was sharp from 1914 to 1919, then leveled off from 1919 to 1928, and has shown a downward dip since 1929. The total apple crops, exports

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and the percentage of the crop exported are shown in table 2. Although the total crop has been declining for 20 years, the commercial crop did not start to decline until over 10 years later. The peak production was reached in 1926. Secondary peaks were reached in 1928, 1930, and 1931, but since the last year the trend in production has been decidedly downward. The smaller commercial crops may in part be due to the low prices prevailing for apples since the depression which has resulted in considerable abandonment and removal of orchards. The total apple crop is plotted by 5-year periods in Figure 1 and the commercial apple crops and exports are shown in table 3.

Significance of apple exports: Since American apples have been exported to Europe for about 150 years, the apple industry has been developed hand in hand with exports. Many orchards have been planted for the express purpose of raising apples largely for export, particularly plantings in the Shenandoah-Cumberland valleys of Virginia, West Virginia, Maryland and Pennsylvania and in the Pacific Northwest. Certain varieties such as Albemarle Pippins (Yellow Newtowns), Ortleys, Spitzenburg, and to a lesser degree York Imperials, Ben Davis, and Winesaps were expressly planted for export purposes. Moreover, the apple sections of both coasts have long depended on export markets to absorb the smaller sizes of apples. Since the domestic markets prefer medium to large sizes, it is fortunate for the apple industry that foreign outlets in general prefer the smaller fruit.

Table 1. APPLES: Exports from the United States

	TY	204.40	. Lo+on		•		1 - 4 - E		
July-June :	Kingdom	Europe :	Europe :	Canada	Others .	July-June:	July-Dec. :	JanJune:	DecJune
	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels	Bushels:	Bushels	Bushels
: 01-6061	1,940,178:	356,880:	2,297,058:	206,760:	262,416:	2,766,234:	1,793,313:	972,921:	1,408,074
1911–12	2,983,653:	432,240	3,415,893:	620,571:	332,679:	74	3,183,651:	1,185,492	1,812,708
1912-13 :	3,955,278:		4,902,045:	1,130,853:	417,498:	6,	4,254,876:	2,195,520:	2,653,071
7	2,481,084:	599,	3,080,256:	898,041:	541,410:	4,519,707:	3,565,143:	. 954,564:	1,555,374
Average:	3,062,905:		3,612,193:	664,294:	377,273:	4,653,760:	,366,	1,287,130:	1,825,522
1914-15:	5,242,188:	282,507:	5,524,695:	956,520:	573,288:	7,054,503:	3,669,519:	3,384,984:	4,186,863
1915-16:	2,623,761:		2,903,313:	905,958:	589,692:	4,398,963:	3,145,992:	1,252,971:	1,714,278
1916-17 :	3,442,236:		3,572,973:	944,865:	702,153:	5,219,991:	3,758,658:	1,461,333:	5,489,049
191/-18:	5,298:		8,721:	1,373,844:	523,662:		1,412,979:	493,248:	,064
1918-19 :	3,050,835:	555,828:	3,606,663:	793,995:	328,386:	4,729,044:	1,246,500:	3,482,544:	3,962,649
Average:	2,872,864:	250,409:	3,123,273:	995,036:	543,437\$	4,561, (46:	2,646,730:	2,015,016:	2,683,457
1919-20:	1,801,734:	326,514:	2,128,248:	565,629:	457,917:	3,151,794:	1,654,557:	1,497,237:	1,925,655
1920-21	6,184,866:	349,497:	6,534,363:	982,683:	478,257:	7,995,303:	3,895,896:	4,099,407:	5,608,413
1921-22:	314,	242,767		399,149:	326,175:	3,282,447:	709,	1,573,182:	2,141,772
1922-23:	3,944,944:	242,474:	4,187,418:	488,934:	592,635:	5,268,987:	3,372,062:	1,896,925:	2,755,750
1923-24 :	866	1,776,171:	10,642,355;	782, 194:	870,373:	12,294,922:	979.	5,315,556:	6,277,267
Average:		587,484:	5,209,901:	643,718:	545,072:	6,398,691:	3,522,229:	2,876,462:	3,741,771
1924-25:	7,119,165:		8,124,647:	546,595:	932,558:	9,603,800:	045,	2,558,336:	31,
1925-26:	7,148,448:		9,02	728,994:	1,258,828:	11,015,407:	484,	3,530,885:	
1926-27	13,637,463:		18,587	1,202,486:	1,501,841:	21,292,304:	638,	8,653,348:	11,132,138
1927-28:	5,722,041:	1,855,778:	7.57	105,506:	1,146,610:	t29,	,880,	2,549,712:	
1928-29		8,420,792:	18,416,	824,681:	1,801,206:	045,	085,	9,957,252:	33
Average:	8,724,579:	3,622,340:	12,346,919:	801,652:	1,328,209:	14,476,780:	9,026,874:	5,449,906:	280
1929-30:	5,515,946:		8,098,909:	620,940:	1,558,960:	10,278,809:	6,899,280:	379,	4,945,784
1930-31 :	6,853,286:	~	18,188,527:	595,459:	1,556,486:	20,340,472:	12,470,655:	7,869,817:	11,254,099
1931-32:	9,191,872:	7,604,437:	16, 796, 309:	345,721:	888,354:	18,030,384:	9,911,399:	8,118,985:	9,640,554
1932-33 :	5,662,151:	7,1/1,310:	12,833,461:	154,278:	166,070:		8, 149,903:	5,003,906:	
1933-34:	3,438,325:	7,843,455:	11,281,780:	73,079:	906,131:	12,260,990:	6,078,668:	oli o	8,077,395
Average:		7,307,881:	13,439,797:	357,896:	1,135,200:	14,932,893:	P-)	6,110,912:	引
1934-35 :	3,378,772:	3,670,758:	7,049,530:	98,838:	913,598:	8,061,966:	3,887,909:	4,174,057:	5,172,419
1935-36:	••	**	••	••	••	••	••	••	
1930-37	••	••	••	••	••	••	••	••	
1937-38	••	••	••	••	••	• •	••		
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Compiled by	Foreign Agric	Agricultural Ser	Service from Ofi	Official Records	of the	Bureau of Foreign	ign and Domestic	stic Commerce	•

Table 2. APPLES, fresh: Total United States crop, domestic exports, and percentage of crop exported, 41909-10 to 1934-35

	Alexander of the second			12 (b)	
•	Tot	al :	Parcentage:	January	- Juno
Season	4	Domostic :	of crop	Domostic	:Porcentage of
July - Juno.	Crop .	exports	exported:	experts	total exports
:	1,000 :	1,000 :	4 0	1,000	:
	bushels :	bushels:	. Percent :	bushels	Percent
: •			 And the second se		
1909-10:	145,412:	:2,766 :	; 1.9 ;;	. 973	35.2
1910-11 .:.:	141,640:	:5,163:	3.6 :	1,127	21.8
1911-12:	214,020 :	: 4,369 :	: 2.0 ;:	1,135	27.1
1912-13:	235,220:	:6,450 :	a transfer to the second of	2,196	34.0
1913-14	145,410:	:4,520 :		955	21.1
Average .:	176,340:	:4,654 :	Antonio de la company de la co		27.7
1914-15:	253,200:	:7,055:	: 2.8 ::	3,385	. 48.0
1915-16	230,011:	4,399:			28.5
1916-17	193,905:	:5,220 :	· ·	1,461	, , ,
1917-18:	166,749 :	:1,906:	· · · · · · · · · · · · · · · · · · ·		, , ,
1918-19:	169,625:	:4,729 :			73.7
Average: .:.	202,698:	:4,662:		2,015	. 43.2
1919-20	THE RESERVE OF THE PARTY OF THE	CATALOGRAPHICAL AND	, in a charge of the contract		The state of the s
1920-21:		.7,995:	•	4,099	51.3
1921-22	95,478:	: 3,282 :	3.4:	1,573	• •
1922-23	189,776:	. 5,269 :	•	1,897	
1923-24:	180,968:	12,295 :	•		
Average: .:.	162,864:	: 6,399 :		2,876	AND STREET COMMENTS OF THE PROPERTY OF THE PRO
1924-25		Name and Address of the Owner, where the Party of the Owner, where the Party of the	and the same of th	2,558	26.6
1925-26	•	11,015:	· · · · · · · · · · · · · · · · · · ·		
1926-27:	227,043:	21,292 :	,	3,653	• •
1927-28:	115,625:	9,430:	8.2	2,550	
1928-29:	176,721:	21,042 :	11.9 :	9,957	47.3
Avorage .:	166,238:	14,477 :	The same of the sa	the party of the P	. 37.6
1929-30:	133,318:	10,279:	7.7 :	3,380	32.9
1930-31:	153,372:	20,340:	13.3	7,870	38.7
1931-32:	202,477 :	18,030 :	8.9	8.119	
1933-33:	140,775:	13,754:	9.8:	5,004	36.4
1933-54:	142,981 :	12,261:	8.6 :	6,132	40.4
Average .:	154,585 :	14,933 :	9.7 ;	6,111	: 40.9
1934-35:	120,670:		6.7 :	4,174	
1935-36:	168,465:	:	į.		
1936-37:	:	•	0		•
1937-38:	6 •	à ·			
1938-39:	:	:	6		
Average .:	:	•	•		•
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Compiled by the Foreign Agricultural Service from official sources.

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Table 3. APPLES FRESH: Commercial crop of the United States, domestic exports, and percentage of crop exported, January - June and December - June, 1919-20 to 1935-36

. = .				Damagas	e exports .			
	<u>.</u>	-		Domesti	S SAPOTUS .	~		
	Commercial		ended:	Januar	y - June	Decembe	r - June	
Season	crop	June	the same of the sa	:	Percent		Percent	
-	;	Total	Percent:	:Total :	of crop	Total	of crop	
3		, ,	of crop :	Willion:		Million:		
		Million:		bushels:		bushels:	Percent	
	: bushels	bushels:	Percent:	pusiters.	1010011			
	:	. 70	3.9	1.5:	46.9	1.9.:	59.4	
1919-20		_ 1	7.8:	4.1.			70.0	
1920-21			5.0	1.6:	48.5	*	63.6	
1921-22		T	5.2	1.9			52.8	
1922-23			11.2:	5.3:			51.2	
1923-24			10.9	2.6		: 3.6 :	57.5	
1924-25	· · · · · · · · · · · · · · · · · · ·		11.0	3.5		: 5.8 :	52.7	
1925-26		•	17.5				52.1	
1926-27			12.0	2.5		3.9:	41.5	
1927-28			19.5	10.0		: 11.9 :	56.7	
1928-29	*	•	11.7	3.4	the state of the s	4.9	47.6	
1929-50	•	*	19.9	7.9		: 11.3 :	55.7	
1930-31	•	· ·	17.0	8.1		9.8:	53.3	
1931-32			16.1	5.0	36.2	: 6:1:	44.2	
1952-33		· ·	16.4		50.4	: 8:1:	65.9	
1933-34 1934-35		•	11.0	4.2	51.9	: 5.2:	64.2	
	•		*			: : : :		
1935-36 1936-37					:	: ' :		
	*					: : : :		
1937-38		87				:		
1070 40	-		-	:		: ::	:	
Commiled	by the Fore	eign Agric	ultural Se	rvice fr	om official	sources:		

Compiled by the Foreign Agricultural Service from official sources:

TOTAL APPLE CROP, EXPORTS, AND PERCENTAGE OF THE CROP EXPORTED (JULY - JUNE)

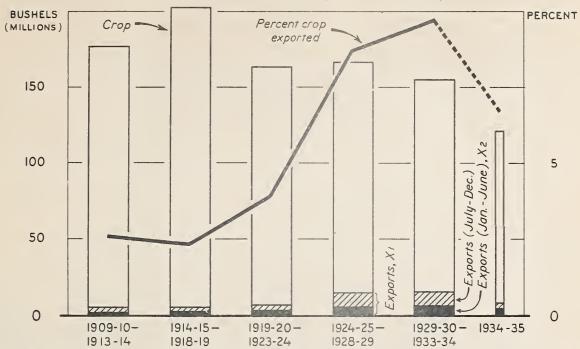


FIGURE 1.- THE TOTAL APPLE CROP REACHED A PEAK IN THE 5-YEAR PERIOD 1914-18 AND HAS BEEN ON A DOWNWARD TREND SINCE. THE PERCENTAGE OF THE CROP EXPORTED INCREASED THROUGH THE 5-YEAR PERIOD 1929-33.

APPLE EXPORTS (JULY-JUNE) COMPARED WITH EXPORTS (JAN.-JUNE)

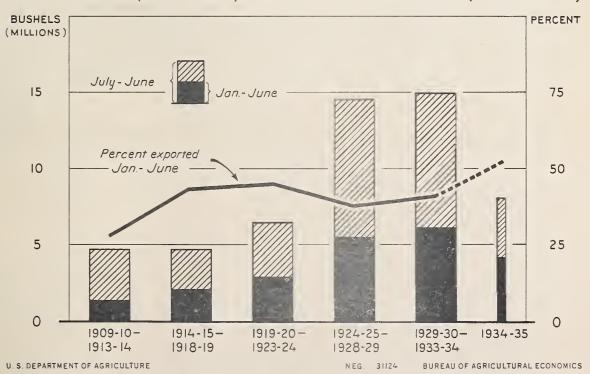


FIGURE 2.- EXPORTS INCREASED FROM 1914-18 TO 1929-33 BUT HAVE DECLINED SINCE THEN. JANUARY-JUNE EXPORTS INCREASED THROUGHOUT THE PERIOD EXCEPT IN THE LAST SEASON SHOWN. THE PERCENT OF THE TOTAL EXPORTS SHIPPED IN THE JANUARY TO JUNE PERIOD HAS BEEN URWARD IN THE LAST 10 YEARS.

COMMERCIAL APPLE CROP, EXPORTS, AND PERCENTAGE OF CROP EXPORTED

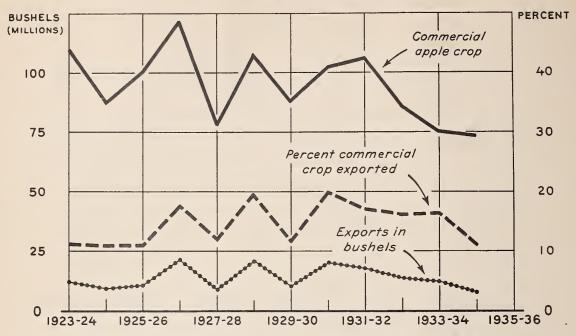


FIGURE 3.- THE COMMERCIAL APPLE CROP HAS BEEN DE-CLINING FROM THE PEAK REACHED IN 1926. EXPORTS VARIED WITH THE SIZE OF THE CROP UNTIL 1931-32; SINCE THEN THE DECLINE IN EXPORTS HAS INCREASED MORE RAPIDLY.

EXPORTS OF APPLES IN THE 6-MONTH PERIOD, JANUARY TO JUNE COMPARED WITH THE TOTAL EXPORTS

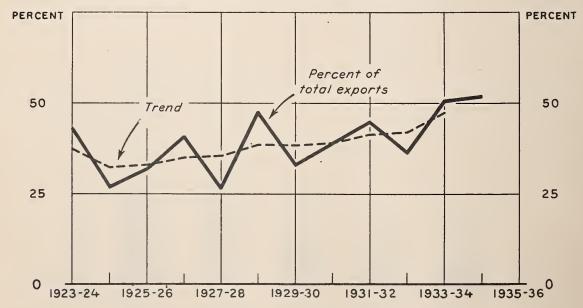


FIGURE 4.- EXPORTS HAVE GRADUALLY BECOME RELA-TIVLLY HEAVIER DURING THE SECOND HALF OF THE SEASON, JANUARY TO JUNE.