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FOREIGN NETS ON IPPLES

## Trends in Apple Exports 1/

Summary: The upward trend of apple oxports coased with the 1930-31 season and has beon on a decline since that year. Tho chicf reasons for the decline havo been the world-wide busincss depression and the rapid increase in trade barricrs which began to be folt about that time. The average import duty levied on imorican apples imported by Europoan countrics incroased from liф a bushcl in tho 1930-31 season to $60 \neq$ per bushel in the $1935-36$ season. In addition, import quotas, inport license taxcs, compensation arrangements, and other barriors have beon osteblished.

To some cxtent, the declinc in exports may be attributcd to smaller apple crops in the Unitcd Statos. The total apple crop has tronded downward since about 1914 but this reduction has been duc in a large measure to the abandonment of unsatisfactory orchards and the removal of unprofitable varieties. The commercinl apple crop continucd to incroasc up to 1926 but has shown a marked decreasc sinco 1931.

There has boon a chenge in the soasonal movement of apples during the last decade. In the middlo $20^{\prime \prime}$ s, apple exports durine the last half of the scason, January to June, generally renged from 27 to 43 percont, Therces in the last two scasons over 50 percont of the exports havo been made in this poriod. This tondency of apple exports to shift tomard the last half of the season is chiefly due to the dosire f foreign countries to protect their own crops zith sonsonal duties which are highor during the first half of the soason, and to increasing competition in the earlicr 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 morc rapid increase in this period was largely due to the disruption of trade occasioned by the World "irar. Exports increased rapidly from 1919-20 to 1923-24 and then turnod sharply upward in the next five years, 1924-25 to 1928-29. Table I gives the exports of applos for the poriod 1909-10 to 1934-35. Far the largost
part of the exports havo gone to Europe, the chief markot being United Kingdom. Othor important European outlets are France, the Nothorlands, Belgium; Gormany, and tho Scandinavion countrios. Outsidg of Europe tho most important markets are Brazil, Argentina, and Canada in the Wostern Fiomisphero, and the Philippines, Egypt, Palestine, 'China', and British India in the Eastern Homisphore. Exports to Canada havo declined to a morc trickle in tho last few seasons which is explained by larger Conadion crops, highor dutics, and the lower consumer purchasing power in that country. The relations of exports to the total crop is shown in Figure l. 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 percentago of the crop cxported continued to increase through the 5 -yvar period 1929-30 to 1932-33. Exports of apples by 5-year periods arc shom in Figure 2 Exports durine rocont yoars aro plottod in Ficurc 3. It will bo noted that tho percontage of the commercial crop exported varicd directly with the sizc of the crop until the 1930-3l soason. Especially sharp drops in oxports occurrod in tho 1931-32 and the 1934-35 scasons.

Scasonal oxports shift: During the last decade apples have shom a tenduncy to incroase during the last six months of the season, January to Junc, as co pared with tho exports for tho wholc season. This shift is largely cxplaincd by tho incroascd protoction that has bocn cxtendod to tho homo applo crops by many European countrics during the first part of the applc scason, or from July to Decembor. After the turn of the yiar many countries have lower dutios on importod applos. In some countrios the incroased protoction to tho domostic industry has beon accompaniod by an improvoment in the packing and grading of tho home-grown fruit. Apparently there has been very little incroasc in tho total production of dosscrt applos in tho importing countrics.

If tho tendency for the cxports to bocome larger in the last half of the season continuos, it would appoar that thero will be a smallor and smallor markot for carly and fall apples, with the result that oithor the nomal scason will have to bo lenethoned for fall apples by more oxtensivc use of cold storage or the chicf apple exports will comprise largely long-keeping winter applos. This tendoncy for applc oxports to incroase during the last six months of the season, January to June, is brought out in Figuro 4. In tho 5-yodr poriod 1923-24 to 1927-28 only about 34 poreent of the exports of applos on an avorago movod out of tho Unitod States fram 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 poriod January to Junc are shom in Table 3.

Production frend downward: In analyzing the trond of apple exports, some reforenco has to be made to. the trend in applo production. The total apple crop of the Unitod Statos incroased from 1909 to 1914 and has boon generally downward sinco that time. The declino in the crop was sharp from 1914 to 1919, then lovclod off from 1919 to 1928, and has shown a downward dip since 1929. The total applo crops, exports
and the porcentage of the crop oxportod are shown in table 2. Although tho total crop has beon doclining for 20 ycars, the commercial crop did not start to dcclinc until ovor 10 yoars lator. Tho poak production was reachod in 1926. Socondary pcaks wore roachod in 1928, 1930, and 1931, but since tho last yoar the trond in production has bcen decidodly downmard. The smallor commerciel crops may in part be duc to tho lon prices prevailing for apples sincc the doprossion which has resulted in considerablo abandonment and rumoval of orcherds. The total apple crop is plotted by 5 -ycar poriods in Figure 1 and the commercial applo crop for rocont yoars in shown in Figurc 3. The commerinl applc crops and oxports are shown in thblc 3.

Sienificanco of apple exports: Since Amorican applos havo boen exported to Europe for about 150 yoars, the apple industry has boon developod hand in hand with oxports. Many orcherds heve beon planted for tho oxpross purposo of raisine apples largely for export, particularly plantings in the Shenandoah-Cumberland valleys of Virginia, Fest Virginia, Viaryland and Pennsylvania and in the Pacific Northwest. Certain varieties such as Albemarle Pippins (Yellow Newtowns), Ortleys, Spitzenburg, and to a lesser aegree York Imperials, Ben Davis, and Winesaps mere expressly planted for export purposes. Moreovor, the apple sections of both coasts have long depended on oxport markets to absorb the smaller sizes of apples. Since tho domestic markets profor medium to large sizes, it is fortunato for tho applo industry that foreign outlets in goneral prefor the smallor fruit.


Teble 2. APPIES, frosh: Total United States crop, domestic oxports, and percentego of crop cxported, 1909-10 to 1934-35

| $\begin{aligned} & \text { Scason } \\ & \text { July }- \text { Juno: } \end{aligned}$ | Thtal |  | Percon tago | J'muary - Junc |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Drmostic | of crop | Dmostic | :Porcontago of |
|  | Crop | exports | exported | ozports | : "total cxports |
| : | 1,000 | 1,000 |  | 1,000 |  |
|  | bushels | bushels | Percent | bushols | Porcent |
| : : |  |  |  |  |  |
| 1909-10 . . . | 145,412 | :2.?66 | 1.9 | 973 | 35.2 |
| 1910-11 . ${ }^{\text {a }}$ : | 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 | 2.7 | 2,196 | 34.0 |
| 1913-14 | 145,410 | :4,520 | 3.1 | 955 | 21.1 |
| Avernge | 176,340 | :4,654 | 2.6 | 1,237 | 27.7 |
| 1914-15 | 253,200 | :7,055 | 2.8 | 3,305 | 43.0 |
| 1915-16 . . . : | 230,011 | :4,399 | 1.9 | 1,253 | 28.5 |
| 1916-17 . . : | 193,905 | 5,220 | 2.7 | 1,461 | 23.0 |
| 1¢17-18 ...: | 166,749 | : 1,906 | 1.1 | 493 | 25.9 |
| 191-19 | 169,625 | :4,729 | 2.8 | 3,435 | 73.7 |
| Average | 202,698 | :4,662 | 2.3 | 2,015 | 43.2 |
| 1919-20 | 140,786 | :3,152 | 2.2 | 1,497 | 47.5 |
| 1520-21 | 207, 3.13 | - 7,995 | 3.9 | 4,099 | 51.3 |
| 1821-22 | 95,4.78 | : 3,282 | 3.4 | 1,573 | 47.9 |
| 1822-23 | 189,7.76 | 5,269 | 2.8 | 1,897 | 36.0 |
| 1923-24 | 180,968 | 12,295 | 6.8 | 5,316 | 43.2 |
| Avorago | 162,0.64 | 6,399 | 3.8 | 2,876 | 44.9 |
| 1824-25 | 160,049 | : 9,604 | 6.0 | 2,558 | 26.6 |
| 1825-26 | 151,7.52 | 11,015 | 7.3 | 3,531 | 32.1 |
| 1920-27 | 22.7,043 | 21,292 | 9.4 | 3,653 | 40.6 |
| 1927-25 ... | 115,625 | 9,4'30 | 8.2 | 2,550 | 27.0 |
| 1928-29 | 176,721 | 21,042 | 11.9 | 9,957 | 47.3 |
| Avcrage | 166,238 | 14,477 | 8.7 | 5,450 | 37.6 |
| 1929-30 $\therefore . \therefore$ : | 133,318 | 10,279 | 7.7 | 3,380 | 32.9 |
| 1930-31 | 153,372 | 20,340 | 13.3 | 7,370 | 38.7 |
| 1931-32 ...: | 202,477 | 18,030 | 8.9 | 8.119 | 45.0 |
| 193:-33 | 140,775 | 13,754 | 9.8 | 5,004 | 36.4 |
| 1933- 4 | 142,081 | 12,261 | 3.6 | 6,132 | 40.4 |
| Average | 154,535 | 14,933 | 9.7 | 6,111 | 40.9 |
| 193 ${ }^{\text {c }}$ - $35 . .$. | 120,670 | 8,062 | 6.7 | 4,174 | 51.8 |
| 1935-36 ... | 168,465 |  |  |  |  |
| 1936-37 ... |  |  |  |  | : |
| 1937-38 ... |  |  |  |  | : |
| 1938-39 |  |  |  |  | : |
| Avorcge .: |  |  |  |  | : |

Compiled by the Foroign Agricultural Service from officinl snurecs.

TLbIE 3．SPEIES ERESE：Comerciel crop of the United States，domestic exports，and percentage di crop exported，Januery－June and December－June，1818－20 to $1835-36$

| Seasor | Commerci三1： crop． | Domestic exporis |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Feer ended ：January－June ：December－JuneJune 30 ： |  |  |  |  |  |
|  |  | IoteI： | $\begin{aligned} & \text { Dercent } \\ & \text { of crop: } \end{aligned}$ | Total： | Percent： or crop： | Total： | $\begin{aligned} & \text { Percent } \\ & \text { of crop } \\ & \hline \end{aligned}$ |
|  | fillion bushels | 612ion： bushels： | Percent | $\begin{aligned} & \text { illion: } \\ & \text { ushels: } \end{aligned}$ | Percent | shels： | Percert |
|  |  |  |  |  | 46.9 | 1.8 | 59.4 |
| 1818－20．．： | 81.5 | 3．2．： | 3.8 | 1.5 | 51.3 | 5.5 | 70.0 |
| 1520－21．．： | 103.1 ： | 3．0： | 7.8 | －$=1$ | 51.3 | 2.1 | 63.6 |
| 1921－22．．： | 66．3． | 3.3 | 5.0 | 1.0 | 20．0 | 2.8 | 52.8 |
| 1222－23．．： | 101．3： | $5.3 .:$ | 5.2 | 1. | 30． | 2.8 | 51.2 |
| 1923－24．．： | 109.8 | 12．3． | 11.2 | 5.3 | 43.1 | 6.3 | 51． 2 |
| 192处25．．： | 87.7 | 9．6． | 10.8 | 2.3 | 21.1 | 3.6 | 52.7 |
| 1925－25．．： | 100.1 | 11．0： | 11.0 | 3. | 31.8 | 5.8 | 52.1 |
| 192も－27．．： | 121.5 | 21． 5 ： | 17.5 | 3.7 | 40.8 | 11.1 | 41.5 |
| 1927－28．．： | 78.3 | 9.4 | 12.0 ： | 2. | 20 | 3. | 56 |
| 1928－29．．： | ．107．9 | 21.0 | 19.5 | 10.0 | 4.6 | 11.8 | 56.7 |
| 1925－50．．： | － 38.0 | 10.3 | 11.7 ： | 3.4 | 33. | $\leq$. | 47.6 |
| 1930－31．．： | 102.1 | 20.3 | 19.9 | 7.9 | 38.9 | 11.3 | 55.7 53.3 |
| 1931－32．．： | ：106．0 | 13.0 | 17.0 ： | 8.1 | ＜0．0 | 9.8 | 44.2 |
| 1952－33．． | 85.6 | ： 13.8 | 16.1 | 5.0 | 36.2 |  | 65.9 |
| 1933－54．．： | 75.0 | 12.3 | 16.4 | 6.2 | 50.4 |  | 64.2 |
| 193＜－35．．： | 73.5 | ： 8.1 | 11.0 | 4.2 | 51.9 |  | 64.2 |
| 1935－36．．： | 81.7 |  |  |  |  |  |  |
| 1536－57．．： |  | ： |  |  |  |  | ． |
| 1937－38．．： |  | ： |  |  |  |  |  |
| 1838－39．． |  |  |  |  |  |  |  |
| 1530－60．． |  |  |  |  |  |  |  |

Total Apple Crop, Exports, and percentage of the Crop Exported (July - June)


Figure 1.- the total apple crop reaghed a peak in the 5-yEar perico 1914-18 and has been on a downward trend since. The percentage of the crop exported ingreasec 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 upward in the last io yEARS.

Commercial Apple Crop, Exports, and Percentage of Crop Exported


Figure 3.- The commercial apple grop has beem de-
CLINING from the peak reached in 1926. Exports varied WITH THE SIIE OF THE CROP UMTIL 1931-32; sine then the degline im exports has increased more rapidir.

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


FIGURE 4.- EXPORTS MAVE GRADUALLY BECOME RELATIVLLY HEAVIER DURING THE SECOND MALF OF THE SEASON, January to June.

