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### Fruit and Vegetable Crop Report

Ottawa, August 29, 1941. - The Dominion Bureau of Statistics in cooperation with the Fruit Branch of the Department of Agriculture and the Provincial Departments of Agriculture, issues today a report showing the condition of fruit and vegetable crops in the main producing areas for the month of August.

#### SUMMARY

With the exception of apples, the prospects for the Canadian tree fruit crops remain practically unchanged since the last report. The estimate for apples declined 7 per cent to 3,628,000 barrels which makes the crop substantially smaller than the 4,292,300 barrels produced last season. The decline during the month was due chiefly to the less favourable outlook in Nova Scotia where a reduction of 15 per cent occurred. While there was a decline of 11 per cent in the Nova Scotia pear crop during the month, increases of 1 per cent in Ontario and 2 per cent in British Columbia raised the Canadian total to 562,600 bushels. This is slightly below the 1940 crop of 576,300 bushels. The plum crop remains practically unchanged from the previous report and is now estimated at 248,300 bushels compared with 248,900 bushels in July and 214,300 bushels produced last season. There has been no change in the prospect for peaches since July, the crop being estimated at 813,600 bushels, which is 3 per cent above the 1940 estimate of 787,000 bushels. Apricots also remained unchanged during the month at 68,000 bushels. The 1941 crop, however, is 21 per cent larger than the 1940 crop of 56,400 bushels. A substantial improvement in the cherry crop in Ontario was recorded during the month and although the British Columbia crop estimate remains the same, the estimate of 221,600 bushels for Canada is now 19 per cent above July prospects. The 1941 strawberry crop of 19,656,200 quarts is 22 per cent smaller than the 25,203,500 quarts produced last season. Although increases over last year were reported in Nova Scotia and New Brunswick, the crops in Quebec, Ontario and British Columbia are smaller. With the exception of British Columbia, raspberry production in the commercial producing provinces is smaller than last year. The 1941 crop was estimated at 8,719,900 quarts as compared with 11,693,200 quarts produced in 1940. The loganberry crop of 2,490,000 pounds is 4 per cent larger than the 1940 crop of 2,383,500 pounds. With only a slight decline in grape prospects in British Columbia since July, the Canadian crop remains practically unchanged at 52,555,000 pounds. The 1940 crop was estimated at 52,727,200 pounds.

Note:- Where condition figures are quoted in the following reports, the basis is as follows: 1-poor; 2-below average; 3-average; 4-above average; 5-exceptionally good.

#### PRINCE EDWARD ISLAND

(August 25)

The weather during August was cool and wet with a minimum of sunshine. Prospects for the fruit crops on the whole, are quite good. Apples are sizing well and the outlook is for a good average yield. There is considerable scab in poorly sprayed and unsprayed orchards. The cherry crop was below average and many trees are affected with shot-hole disease. The plum crop should be good provided there is no late attack of brown rot. The yield of raspberries was excellent. The cool, damp weather affected the growth of corn, cucumbers, tomatoes, squash and pumpkins. The yields of cucurbits will be very poor and tomatoes are ripening slowly. Other vegetables such as peas, beans, beets, turnips, onions and potatoes are doing well. Club root of cabbage, cauliflower and turnips has been more prevalent this year than usual due to the abundant supply of soil moisture. There is some late blight in most potato fields but the disease has not yet assumed epidemic proportions. Leaf roll disease of potatoes is much more prevalent this season than in previous years. Mosaic has been severe but not more so than usual. Insect injury has been quite severe during the past month. Aphid infestations are heavy on practically all fruits, vegetables and field crops. Flea beetles and Colorado potato beetles are causing considerable damage to potatoes in some sections. Cabbage maggot damage is severe to turnips and cabbage. Other insects such as tussock moth and apple maggot are causing damage in unsprayed orchards.







NOVA SCOTIA  
(August 23)

The weather during the past month has been generally cool with a few warm bright days and frequent heavy rains. However, there have been no hail or heavy windstorms to date. The appearance of the orchards is good, as a result of the abundant moisture supplies, but the apples are not sizing as well as usual for this time of year. The drop continued well into August and this, with the lack of size, has reduced the crop prospects from the July outlook. The fruit, however, is colouring more rapidly than usual. Scab is more prevalent especially in poorly sprayed and unsprayed orchards. Codling moth injury is now apparent in a good many sections and aphids are also troublesome. The plum crop, although light, is reported to be of good quality in most districts. The prospect for the pear crop varies depending on the locality and a further reduction from the July estimate is now shown. The fruit, however, is developing rapidly and is of excellent quality and high colour. The cranberry crop continues to develop well and the prospects are for a considerably larger crop than last year. Except in a few cases, fruit worm damage has been slight. The frequent rains have benefited the vegetable crops materially. Prospects for the potato crop are good and digging has begun. Early turnips are also reported to be good.

The August Estimate of the 1941 Fruit Crops Compared with the  
Final Estimate of Production in 1940

<u>Kind</u>	<u>Unit</u>	<u>1940</u>	<u>1941</u>
Apples	bbl.	1,151,000	1,375,000
Pears	bu.	21,700	17,400
Plums	bu.	7,900	5,500
Strawberries	qt.	1,254,200	1,404,700
Raspberries	qt.	74,000	66,600

NEW BRUNSWICK  
(August 26)

The weather has been cool with frequent heavy rains and very little sunshine. The abundance of moisture has promoted abundant growth of the apple trees and the fruit is sizing rapidly. In spite of the frequent rains very little scab and insect injury has been reported. There has been no change in the condition of the apple crop since July and the estimate of production remains the same. Conditions have not been favourable for the cranberry crop, however. The heavy rains and cool weather have retarded the development of such crops as cucumbers, tomatoes and squash and delayed the maturity of corn and other hot weather crops. Leafy vegetables are making satisfactory growth with prospects for normal yields. The condition of most vegetable crops is above normal.

The August Estimate of the 1941 Fruit Crops Compared with the  
Final Estimate of Production in 1940

<u>Kind</u>	<u>Unit</u>	<u>1940</u>	<u>1941</u>
Apples	bbl.	53,600	67,000
Strawberries	qt.	1,275,000	1,657,500
Raspberries	qt.	40,000	37,800

QUEBEC

Fruit, August 25. - The weather during the first ten days of August was hot and dry, turning cool with strong winds later in the month. A heavy rain and hail-storm on August 19 caused some damage to the apple crop in the district south of Montreal. The crop is generally sizing well and early varieties such as Melba and Duchess have been on the market for some time. The only insect damage was caused by codling moth larvae which are more numerous than last year.

Vegetables, August 21. - The lack of sufficient rain and the high temperatures coupled with the drying winds have seriously affected all vegetable crops in the Montreal area. The showers have passed south of Montreal in many instances. The heavy shower on the night of August 19, lasted one hour south of the St. Lawrence and only one-third of that time in the area north of the city. This moisture together with the colder weather has benefited all vegetable crops this week. Gaspe peas have moved in volume from the Cape Cove and Grand River area by express since August 20. Shipments by freight will begin this week-end. Crop prospects are promising as the vines are strong and the set is heavy with little disease. Onion pulling now is general over the district.



TABLE I

The following table shows the results of the experiments conducted on the effect of the concentration of the solution on the rate of reaction. The rate of reaction was measured by the volume of gas evolved per unit time. The concentration of the solution was varied from 0.1 M to 0.5 M. The results are shown in the following table:

Concentration of solution (M)	Rate of reaction (ml gas / min)
0.1	1.2
0.2	2.4
0.3	3.6
0.4	4.8
0.5	6.0

TABLE II

The following table shows the results of the experiments conducted on the effect of the temperature on the rate of reaction. The rate of reaction was measured by the volume of gas evolved per unit time. The temperature was varied from 20°C to 40°C. The results are shown in the following table:

Temperature (°C)	Rate of reaction (ml gas / min)
20	1.2
30	2.4
40	4.8

TABLE III

The following table shows the results of the experiments conducted on the effect of the surface area of the solid on the rate of reaction. The rate of reaction was measured by the volume of gas evolved per unit time. The surface area of the solid was varied from 1 cm² to 4 cm². The results are shown in the following table:

Surface area of solid (cm²)	Rate of reaction (ml gas / min)
1	1.2
2	2.4
4	4.8



QUEBEC (Concluded)

The crop will be about 60 per cent of last year as the bulbs are running small to medium in size. The tops are drying quickly and topping will soon commence. Tomatoes are ripening somewhat slower with the cooler weather. The early crops are finished north of Montreal and the yield has been much lighter this year. The indications are that the late crop will be lighter than last year but the total crop will be larger due to the heavier planting. Shipments to outside points, especially to the Maritimes, are heavier this year. Cannery have contracted for increased supplies and are paying about \$2.00 per ton more than last year. Potatoes are not yielding well, as the set of tubers is only 3 or 4 per hill. North of Montreal the continued drought has reduced the size. South of Montreal there has been more moisture and the yields will be larger, but conditions are spotty. The muckland crop will be heavier as the tubers are much larger in size. The field cucumber crop is very light due to the high winds and the drought. Late cabbage, cauliflower, lettuce and root vegetables are improving quickly following the rain on August 19. The late carrot crop will be smaller due to the heavy demand for bunched stock and the smaller acreage sown.

The August Estimate of the 1941 Fruit Crops Compared with the  
Final Estimate of Production in 1940

<u>Kind</u>	<u>Unit</u>	<u>1940</u>	<u>1941</u>
Apples	bbl.	323,500	161,700
Strawberries	qt.	3,636,000	2,727,000
Raspberries	qt.	2,771,200	1,385,600

ONTARIO  
(August 25)

Western Ontario:- Improvement of approximately 2 per cent in the production of apples over last month's estimate is now indicated. Practically all districts report good sizing and colouring of the fruit although the sizing is somewhat uneven in the Essex-Kent-Lampton district and only fair in the Burlington area. Most districts report pests well under control, but codling moth injury is becoming more apparent in the Burlington and Middlesex areas. Some slight sunscald injury is now evident in Essex. Hail damage has been confined to small localized areas in the Niagara, Elgin-Oxford, Middlesex-Huron and Peel-York districts. Pears are sizing well and are generally free of fungous and insect pests, although some damage to the crop is reported in a few localized areas in the Niagara district. Conditions generally have been favourable for a clean plum crop. The size of the fruit is fair except on heavily loaded trees which have not been thinned and particularly where there has been an extreme lack of rainfall. The fruit this year appears to be particularly free of insect damage and brown rot. Peaches are developing favourably in all producing areas, however, in some parts of Niagara heavy culling has been necessary due to bud moth injury and poor sizing. As reported for other fruits there has been some localized hail injury in the Niagara district. Completed harvesting figures now indicate a much heavier production of sour cherries than was at first indicated. The grape crop is developing satisfactorily. Grape leaf hopper to date has been well controlled and the only damage reported was caused by hail in small localized areas.

Vegetables:- Early hot, dry weather somewhat retarded the normal growth and development of the vegetable crops but more recent showers in most producing areas helped materially. Weather conditions have promoted rapid maturing of some produce. Heavy frosts in the Alliston district on July 12 caused extensive damage to the late potato crop.

Eastern Ontario:- The weather has been moderately warm during the past month with moisture supplies sufficient for continued development of the fruit crops. Light hail injury is reported in the St. Lawrence Valley and Prince Edward County districts but several orchards show heavy damage. Apples are colouring well and the fruit varies considerably in size depending on local orchard conditions. All varieties are maturing at least ten days earlier than last season. In general, apples are free of scab but considerable insect injury is reported in some orchards where leaf roller, bud moth and codling moth have been troublesome. Drought spot and cork are becoming evident in quite a few orchards where borax was not used. Pears are developing well and are quite free of insect injury where regular sprays were applied. Bartletts will be somewhat smaller than average. Harvesting of this variety will begin early in September. Plums are also smaller than average size. Insect injury on this fruit has been very slight.

Vegetables:- The early potato crop is much below average size. Fields now being harvested however, are showing better yields and the quality of the tubers is much improved. Late plantings continue to look well with exceptionally heavy foliage, but reports indicate that yields will be only average. After a poor start the yields of corn are now expected to be above average.



Financial Statement

The following statement shows the financial condition of the company as of the end of the year 1900. The statement is prepared in accordance with the requirements of the Board of Directors and is subject to audit by the auditors. The statement is prepared in accordance with the requirements of the Board of Directors and is subject to audit by the auditors. The statement is prepared in accordance with the requirements of the Board of Directors and is subject to audit by the auditors.

Statement of Assets and Liabilities

Assets	Liabilities
1900	1900
1901	1901

The following statement shows the financial condition of the company as of the end of the year 1900. The statement is prepared in accordance with the requirements of the Board of Directors and is subject to audit by the auditors. The statement is prepared in accordance with the requirements of the Board of Directors and is subject to audit by the auditors. The statement is prepared in accordance with the requirements of the Board of Directors and is subject to audit by the auditors.

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The Preliminary Estimates of Fruit Crops in Ontario and the Final Estimates for 1940 are as follows:-

Description		Unit	1941 Crop as percent of 1940		
			1940		1941
Apples	Eastern Ontario	bbl.	297,000	62	184,100
	Western "	"	486,200	82	398,700
	TOTAL		783,200	74	582,800
Pears	Eastern Ontario	bu.	3,700	128	4,700
	Western "	"	260,600	81	211,100
	TOTAL		264,300	82	215,800
Plums & Prunes	Eastern Ontario	bu.	2,100	85	1,800
	Western "	"	70,400	117	82,400
	TOTAL		72,500	116	84,200
Peaches	Western Ontario	bu.	595,000	100	595,000
	TOTAL		595,000	100	595,000
Cherries	Eastern Ontario	bu.	10,400	75	7,800
	Western "	"	77,300	198	153,100
	TOTAL		87,700	183	160,900
Strawberries	Eastern Ontario	qt.	2,703,400	40	1,081,400
	Western "	"	8,262,600	60	4,957,600
	TOTAL		9,998,000	60	6,039,000
Raspberries	Eastern Ontario	qt.	3,114,000	65	2,024,100
	Western "	"	2,750,700	70	1,925,500
	TOTAL		5,606,700	70	3,949,600
Grapes	Western Ontario	lb.	49,900,000	100	49,900,000
	TOTAL		49,900,000	100	49,900,000

The Condition of the Vegetable Crops in Ontario during the third week of August and the Percentage Change in Acreage from last year are as follows:

Description	Percentage change in acreage from last year		Condition	
	Western Ontario	Eastern Ontario	Western Ontario	Eastern Ontario
Beans, snap	0	- 17	2.9	3.0
Beets, bunching	0	0	3.0	3.0
Cabbage, early	+ 2	+ 2	2.9	3.0
Cauliflower, early	+ 3	0	2.9	3.1
Carrots, bunching	0	- 1	3.0	3.2
Celery, early	+ 5	+ 1	3.1	2.9
Celery, late	- 3	0	2.9	3.1
Corn, sweet	+ 3	- 1	2.8	3.2
Corn, processing	+31	+ 41	2.9	3.4
Cucumbers	- 2	0	3.0	3.0
Lettuce	+15	+ 3	3.0	2.9
Onions	+14	+ 6	2.8	3.1
Peas, garden	0	+ 5	2.9	-
Peas, canning	+11	+ 5	2.9	-
Potatoes, early	+ 2	+ 2	2.9	2.5
Spinach	0	+ 2	2.9	3.0
Tomatoes, fresh consumption	+ 6	+ 1	3.0	3.3
Tomatoes, canning	+ 6	- 5	3.0	3.5







SASKATCHEWAN  
(August 27)

The weather was generally warm during August becoming cooler during the past few days. Local showers fell in most districts and heavy rains occurred recently at points in the south. Most districts report potato beetles which are causing considerable damage in some localities. Grasshoppers have also caused serious damage in some southern areas and vegetables, at a number of points, have suffered from beet webworms and cabbage worms. The vegetable crops show considerable variation in different localities ranging from only fair to good. Gardens are very good in the south-east, fairly good in the south-central, south-western, east-central and central districts, but only fair in the west-central and some northern areas. Potato prospects have been improved by some recent rains.

ALBERTA  
(August 25)

There has been very little change in the condition of the vegetable crops since the July report. The weather has been generally fine and warm with local showers and thunderstorms. This past week has been very wet in the Calgary district, but it is not believed that this rain was general as far south as Lethbridge. The canneries at Lethbridge and Taber have been very busy. The pea pack is completed and at Taber corn is now being canned while at Lethbridge beans are being handled.

BRITISH COLUMBIA  
(August 25)

The weather has been cool with showers in practically all districts. The picking of all main crop small fruits with the exception of blackberries is now finished. Blackberries and everbearing strawberries will continue in varying quantities until frost. The apricot harvest is finished while peaches are past the peak. Harvesting of other fruits is progressing favourably with a heavy demand from marketing centres for all fruits and vegetables.

The preliminary estimates of fruit production in British Columbia for 1941 and the final estimates for 1940 are as follows:

<u>Description</u>	<u>Unit</u>	<u>1940</u>	<u>1941</u>
Apples	box	5,942,900	4,324,600
Pears	"	345,600	392,200
Plums & prunes	crates	401,700	475,700
Peaches	"	575,900	656,000
Apricots	"	169,200	203,900
Cherries	"	209,200	182,100
Strawberries	"	680,600	652,300
Raspberries	"	245,300	273,400
Loganberries	lb.	2,383,500	2,490,000
Grapes	"	2,827,200	2,655,000

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Preliminary Estimates of Canadian Fruit Production in 1941 with  
Final Estimates for 1940

		1940	1941
		barrels	
<u>Apples -</u>			
	Nova Scotia	1,151,000	1,375,000
	New Brunswick	53,600	67,000
	Quebec	323,500	161,700
	Ontario	783,200	582,800
	British Columbia	1,981,000	1,441,500
	Canada	4,292,300	3,628,000
		bushels	
<u>Pears -</u>			
	Nova Scotia	21,700	17,400
	Ontario	264,300	215,800
	British Columbia	290,300	329,400
	Canada	576,300	562,600
<u>Plums and Prunes -</u>			
	Nova Scotia	7,900	5,500
	Ontario	72,500	84,200
	British Columbia	133,900	158,600
	Canada	214,300	248,300
<u>Peaches -</u>			
	Ontario	595,000	595,000
	British Columbia	192,000	218,600
	Canada	787,000	813,600
<u>Apricots -</u>			
	British Columbia	56,400	68,000
	Canada	56,400	68,000
<u>Cherries -</u>			
	Ontario	87,700	160,900
	British Columbia	69,700	60,700
	Canada	157,400	221,600
		quarts	
<u>Strawberries -</u>			
	Nova Scotia	1,254,200	1,404,700
	New Brunswick	1,275,000	1,657,500
	Quebec	3,636,000	2,727,000
	Ontario	10,966,000	6,039,000
	British Columbia	8,167,600	7,828,000
	Canada	25,298,800	19,656,200
<u>Raspberries -</u>			
	Nova Scotia	74,000	66,600
	New Brunswick	40,000	37,800
	Quebec	2,771,200	1,385,600
	Ontario	5,864,700	3,949,600
	British Columbia	2,943,300	3,280,300
	Canada	11,693,200	8,719,900
		pounds	
<u>Loganberries -</u>			
	British Columbia	2,383,500	2,490,000
	Canada	2,383,500	2,490,000
<u>Grapes -</u>			
	Ontario	49,900,000	49,900,000
	British Columbia	2,827,200	2,655,000
	Canada	52,727,200	52,555,000

Note: British Columbia estimates are converted on the following basis; Apples, three boxes to the barrel; Pears, boxes 42 lb., bushels 50 lb; Plums and prunes, peaches, apricots and cherries, 3 crates to the bushel; Strawberries and raspberries 12 quarts to the crate; Loganberries 18 lb. to the crate.





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