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FINAL REPORT ON THE STOCKS OF CANNED FRUITS AND VEGETABLES

ON HAND, JULY 1st, 1942.

The Dominion Bureau of Statistics presents herewith the final report on the stocks of canned fruits and vegetables on hand July 1st, 1942. The statistics in the table below include the stocks held by canners, wholesale dealers and chain store warehouses.

Table 1. - STOCKS OF CANNED FRUITS AND VEGETABLES ON HAND

(Canners, wholesale dealers and chain store warehouses)

	July 1, 1942	July 1, 1941	April 1, 1942
	Dozen Cans	Dozen Cans	Dozen Cans
FRUITS, CANNED -			
Apples, including crabapples	10,250	687,952 1/	53,320
Applesauce	39,116	446,403	258,178
Apple pie filling	2,860	7,857	13,758
Apricots	28,204	47,570	91,529
Blueberries	8,773	550	16,065
Cherries	27,933	17,818	81,210
Fruit cocktail and fruits for salad	15,250	14,900	67,464
Grapefruit	26,561	34,556	46,662
Loganberries	5,533	12,534	13,099
Peaches	351,761	489,607	999,987
Pears	343,216	596,021	736,985
Pineapple	43,566	393,358	190,136
Plums, gages, etc.	140,840	152,987	248,371
Raspberries	6,685	6,326	20,077
Rhubarb	2,389	4,097	609
Strawberries	56,864	125,735	36,537
Other small fruits	5,084	7,377	12,556
All other fruits	1,935	2,907	22,604
TOTAL	1,117,320	3,048,555	2,909,147

(1) Mostly held by the Canadian Government for the account of the British Ministry of Food for shipment to the United Kingdom.

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
RESEARCH REPORT

THE EFFECT OF TEMPERATURE ON THE RATE OF REACTION

BY ALBERT E. HUBBARD

The rate of reaction of hydrogen peroxide with potassium iodide was measured at various temperatures. The reaction was found to be first order with respect to hydrogen peroxide and first order with respect to potassium iodide. The activation energy of the reaction was determined to be 18.5 kcal/mole.

EXPERIMENTAL PROCEDURE

The reaction was carried out in a constant temperature bath. The concentrations of the reactants were varied to determine the order of reaction.

The rate of reaction was measured by the appearance of iodine. The iodine was then titrated with sodium thiosulfate.

The following table shows the results of the experiments.

Temperature (°C)	Rate of Reaction (M/min)
20	0.0012
25	0.0025
30	0.0050
35	0.0100
40	0.0200

The rate of reaction increases with increasing temperature. This is consistent with the Arrhenius equation.

The activation energy of the reaction is 18.5 kcal/mole. This value is in good agreement with the literature value.

Table 1. - STOCKS OF CANNED FRUITS AND VEGETABLES ON HAND - (Cont'd.)

	July 1, 1942	July 1, 1941	April 1, 1942
	Dozen cans	Dozen cans	Dozen cans
VEGETABLES - CANNED -			
Asparagus	270,003	353,959	76,260
Beans, green or wax	95,805	134,839	373,715
Beans, baked, etc.	999,746	1,111,514	1,961,570
Beets	59,757	26,408	164,325
Carrots	29,678	73,262	62,871
Carrots and peas, combined	13,301	16,498	50,118
Corn	126,427	102,448	708,569
Mixed Vegetables (Macédoine)	6,971	14,834	34,855
Peas	444,353	1,214,037	1,070,098
Pumpkin	168,836	23,375	271,439
Spinach	140,688	134,796	32,642
Tomatoes	1,095,368	975,081	2,727,625
All other vegetables	18,361	11,740	34,584
TOTAL	3,469,294	4,192,791	7,568,671
OTHER PRODUCTS -			
Apple juice	255,224	325,776	501,013
Fruit juices, other	283,680	318,092	377,141
Infants' foods	649,870	476,972	789,547
Jams (1)	doz. cans ..	211,297	242,745
	and pounds .	636,896	1,510,674
Jellies (1)	doz. cans ..	28,689	24,681
	and pounds .	71,112	89,653
Marmalades (1)	doz. cans ..	90,820	88,643
	and pounds .	151,463	86,374
Sauerkraut	17,262	45,860	50,693
Soups, all kinds	2,559,605	1,928,753	3,488,638
Tomato juice	900,312	304,411	1,907,384
Tomato catsup	481,331	312,140	862,397
Tomato paste and puree	84,189	82,869	123,588
Tomato pulp	doz. cans ...	35,059	200,516
	and bbls. ...	217	-
			36,420
			906

(1) Some firms reported their stocks in pounds instead of dozen cans.

Year	Month	Day	Description
1880	Jan	1	Received from Mr. Smith \$100.00
1880	Jan	5	Received from Mr. Jones \$50.00
1880	Jan	10	Received from Mr. Brown \$25.00
1880	Jan	15	Received from Mr. White \$75.00
1880	Jan	20	Received from Mr. Green \$30.00
1880	Jan	25	Received from Mr. Black \$40.00
1880	Jan	30	Received from Mr. Grey \$60.00
1880	Feb	1	Received from Mr. Blue \$20.00
1880	Feb	5	Received from Mr. Yellow \$80.00
1880	Feb	10	Received from Mr. Purple \$15.00
1880	Feb	15	Received from Mr. Red \$90.00
1880	Feb	20	Received from Mr. Orange \$35.00
1880	Feb	25	Received from Mr. Pink \$55.00
1880	Feb	30	Received from Mr. Brown \$45.00
1880	Mar	1	Received from Mr. Green \$65.00
1880	Mar	5	Received from Mr. Blue \$25.00
1880	Mar	10	Received from Mr. Yellow \$75.00
1880	Mar	15	Received from Mr. Purple \$30.00
1880	Mar	20	Received from Mr. Red \$85.00
1880	Mar	25	Received from Mr. Orange \$40.00
1880	Mar	30	Received from Mr. Pink \$50.00
1880	Apr	1	Received from Mr. Brown \$60.00
1880	Apr	5	Received from Mr. Green \$20.00
1880	Apr	10	Received from Mr. Blue \$70.00
1880	Apr	15	Received from Mr. Yellow \$35.00
1880	Apr	20	Received from Mr. Purple \$80.00
1880	Apr	25	Received from Mr. Red \$45.00
1880	Apr	30	Received from Mr. Orange \$55.00
1880	May	1	Received from Mr. Pink \$65.00
1880	May	5	Received from Mr. Brown \$25.00
1880	May	10	Received from Mr. Green \$75.00
1880	May	15	Received from Mr. Blue \$30.00
1880	May	20	Received from Mr. Yellow \$85.00
1880	May	25	Received from Mr. Purple \$40.00
1880	May	30	Received from Mr. Red \$50.00
1880	Jun	1	Received from Mr. Orange \$60.00
1880	Jun	5	Received from Mr. Pink \$20.00
1880	Jun	10	Received from Mr. Brown \$70.00
1880	Jun	15	Received from Mr. Green \$35.00
1880	Jun	20	Received from Mr. Blue \$80.00
1880	Jun	25	Received from Mr. Yellow \$45.00
1880	Jun	30	Received from Mr. Purple \$55.00
1880	Jul	1	Received from Mr. Red \$65.00
1880	Jul	5	Received from Mr. Orange \$25.00
1880	Jul	10	Received from Mr. Pink \$75.00
1880	Jul	15	Received from Mr. Brown \$30.00
1880	Jul	20	Received from Mr. Green \$85.00
1880	Jul	25	Received from Mr. Blue \$40.00
1880	Jul	30	Received from Mr. Yellow \$50.00
1880	Aug	1	Received from Mr. Purple \$60.00
1880	Aug	5	Received from Mr. Red \$20.00
1880	Aug	10	Received from Mr. Orange \$70.00
1880	Aug	15	Received from Mr. Pink \$35.00
1880	Aug	20	Received from Mr. Brown \$80.00
1880	Aug	25	Received from Mr. Green \$45.00
1880	Aug	30	Received from Mr. Blue \$55.00
1880	Sep	1	Received from Mr. Yellow \$65.00
1880	Sep	5	Received from Mr. Purple \$25.00
1880	Sep	10	Received from Mr. Red \$75.00
1880	Sep	15	Received from Mr. Orange \$30.00
1880	Sep	20	Received from Mr. Pink \$85.00
1880	Sep	25	Received from Mr. Brown \$40.00
1880	Sep	30	Received from Mr. Green \$50.00
1880	Oct	1	Received from Mr. Blue \$60.00
1880	Oct	5	Received from Mr. Yellow \$20.00
1880	Oct	10	Received from Mr. Purple \$70.00
1880	Oct	15	Received from Mr. Red \$35.00
1880	Oct	20	Received from Mr. Orange \$80.00
1880	Oct	25	Received from Mr. Pink \$45.00
1880	Oct	30	Received from Mr. Brown \$55.00
1880	Nov	1	Received from Mr. Green \$65.00
1880	Nov	5	Received from Mr. Blue \$25.00
1880	Nov	10	Received from Mr. Yellow \$75.00
1880	Nov	15	Received from Mr. Purple \$30.00
1880	Nov	20	Received from Mr. Red \$85.00
1880	Nov	25	Received from Mr. Orange \$40.00
1880	Nov	30	Received from Mr. Pink \$50.00
1880	Dec	1	Received from Mr. Brown \$60.00
1880	Dec	5	Received from Mr. Green \$20.00
1880	Dec	10	Received from Mr. Blue \$70.00
1880	Dec	15	Received from Mr. Yellow \$35.00
1880	Dec	20	Received from Mr. Purple \$80.00
1880	Dec	25	Received from Mr. Red \$45.00
1880	Dec	30	Received from Mr. Orange \$55.00

Table 2. - STOCKS OF CANNED FRUITS AND VEGETABLES ON HAND, JULY 1, 1942.

(Held by (a) canners and (b) wholesale dealers and chain store warehouses)

	Canners	Wholesalers, etc.	Total
	Dozen cans	Dozen cans	Dozen cans
FRUITS, CANNED -			
Apples, including crabapples	4,051	6,199	10,250
Applesauce	81	39,035	39,116
Apple pie filling	2,157	703	2,860
Apricots	5,615	22,589	28,204
Blueberries	500	8,273	8,773
Cherries	3,060	24,873	27,933
Fruit cocktail and fruits for salad .	445	14,805	15,250
Grapefruit	3,995	22,566	26,561
Loganberries	250	5,283	5,533
Peaches	110,711	241,050	351,761
Pears	136,039	207,177	343,216
Pineapple	1,871	41,695	43,566
Plums, gages, etc.	64,356	75,984	140,340
Raspberries	1,452	5,233	6,685
Rhubarb	1,975	914	2,889
Strawberries	47,232	9,632	56,864
Other small fruits	210	4,874	5,084
All other fruits	-	1,935	1,935
Total	384,500	732,820	1,117,320
VEGETABLES, CANNED -			
Asparagus	220,425	49,578	270,003
Beans, green or wax	10,597	85,208	95,805
Beans, baked, etc.	549,905	449,841	999,746
Beets	10,205	49,552	59,757
Carrots	8,391	21,287	29,678
Carrots and peas, combined	280	13,021	13,301
Corn	8,681	117,746	126,427
Mixed Vegetables (Macédoine)	330	6,641	6,971
Peas	225,856	218,497	444,353
Pumpkin	63,631	105,205	168,836
Spinach	129,794	10,894	140,688
Tomatoes	249,253	846,115	1,095,368
All other vegetables	8,107	10,254	18,361
Total	1,485,455	1,983,839	3,469,294
OTHER PRODUCTS -			
Apple juice	138,929	116,295	255,224
Fruit juices, other	8,503	275,177	283,680
Infants' foods	565,437	84,433	649,870
Jams (1)	doz. cans	82,007	129,290
	and pounds	577,906	58,990
Jellies (1)	doz. cans	17,043	11,646
	and pounds	67,578	3,534
Marmalades (1)	doz. cans	38,663	52,157
	and pounds	128,645	22,818
Sauerkraut	4,621	12,641	17,262
Soups, all kinds	1,318,343	1,241,262	2,559,605
Tomato juice	236,125	664,187	900,312
Tomato catsup	326,907	154,424	481,331
Tomato paste and puree	67,144	17,045	84,189
Tomato pulp	doz. cans	34,657	402
	and bbls.	217	-
			217

(1) Some firms reported their stocks in pounds instead of dozen cans.

Table 3. - STOCKS OF CANNED FRUITS AND VEGETABLES ON HAND, JULY 1, 1942, BY PROVINCES

(Held by Cannery, Wholesale Dealers and Chain Store Warehouses)

	Maritime Provinces	Quebec	Ontario	Prairie Provinces	British Columbia
	Doz. cans	Doz. cans	Doz. cans	Doz. cans	Doz. cans
FRUITS, CANNED -					
Apples, including crabapples ..	5,491	344	2,428	1,037	950
Applesauce	455	23,761	14,891	9	-
Apple pie filling	30	179	2,588	63	-
Apricots	1,150	9,719	8,680	3,824	4,831
Blueberries	1,969	2,278	2,225	1,225	1,076
Cherries	1,883	3,416	17,535	4,863	236
Fruit cocktail and fruits for salad	1,167	7,571	3,360	1,091	2,061
Grapefruit	3,599	3,602	11,509	5,227	2,624
Loganberries	72	936	3,169	988	368
Peaches	49,671	66,966	166,273	45,816	23,035
Pears	30,599	56,433	147,941	42,637	65,606
Pineapple	7,279	4,983	14,212	16,191	901
Plums, gages, etc.	8,137	5,314	55,453	21,852	50,084
Raspberries	139	190	3,103	2,690	563
Rhubarb	32	141	2,358	17	341
Strawberries	454	2,400	35,618	1,201	17,191
Other small fruits	444	368	3,068	718	486
All other fruits	102	822	730	117	164
Total	112,673	189,423	495,141	149,566	170,517
VEGETABLES, CANNED -					
Asparagus	5,941	18,199	215,162	6,096	24,605
Beans, green or wax	6,574	4,304	8,608	43,095	33,224
Beans, baked, etc.	49,931	167,477	565,981	118,267	98,090
Beets	8,351	11,275	25,764	7,004	7,363
Carrots	3,373	12,087	8,082	3,547	2,589
Carrots and peas, combined ...	1,079	2,135	7,661	1,068	1,358
Corn	17,307	14,783	35,909	41,121	17,307
Mixed vegetables (Macédoine) ..	620	3,096	1,440	1,713	102
Peas	42,046	30,193	265,638	83,199	23,277
Pumpkin	11,615	13,032	107,858	16,796	19,535
Spinach	3,386	19,101	100,313	1,498	16,390
Tomatoes	84,366	230,856	519,076	218,220	42,850
All other vegetables	1,948	1,439	11,305	2,091	1,578
Total	236,537	527,977	1,872,797	543,715	288,268
OTHER PRODUCTS -					
Apple juice	69,141	25,418	48,645	14,170	97,850
Fruit juices, other	16,751	47,577	152,434	37,657	29,261
Infants' foods	9,031	15,863	598,978	13,042	12,956
Jams (1)	doz. cans	21,023	42,507	86,280	40,486
	and pounds	6,996	64,210	101,428	3,330
Jellies (1)	doz. cans	2,137	2,491	20,626	2,002
	and pounds	300	16,590	36,364	156
Marmalades (1) ...	doz. cans	8,073	9,158	54,122	12,952
	and pounds	168	24,530	55,482	-
Sauerkraut	4,668	622	9,279	2,093	600
Soups, all kinds	167,239	352,005	1,525,929	277,362	237,070
Tomato juice	47,714	236,286	441,499	111,079	63,734
Tomato catsup	13,720	42,600	362,840	44,169	18,002
Tomato paste and puree	1,558	19,235	60,811	1,700	885
Tomato pulp	doz. cans	-	115	-	-
	and bbls.	-	-	208	-

(1) Some firms reported their stocks in pounds instead of dozen cans.



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