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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

GENERAL STATISTICS BRANCH

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No. 2

COMMERCIAL FAILURES

in

CANADA

for

FEBRUARY 1941

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DOMINION BUREAU OF STATISTICS

General Statistics Branch

OTTAWA

Dominion Statistician:

R. H. Coats, LL.D., F.R.S.C., F.S.S.(Hon.)

COMMERCIAL FAILURES IN CANADA IN FEBRUARY, 1941.

The total number of commercial failures in Canada, in February, 1941 as reported to the Dominion Bureau of Statistics under the provisions of the Bankruptcy and Winding-Up Acts, showed a decrease at 100 as compared with 107 for the corresponding month of 1940; and may also be compared with 130 for the same month of 1939. The defaulted liabilities for February, 1941, were \$853,066 as compared with \$883,575 for February, 1940, and may be compared with \$806,394 for January, 1941. A decrease in defaulted liabilities is shown when compared with the same month of last year.

COMMERCIAL FAILURES BY AREAS

Maritime Provinces. - In the month under review, there were 2 assignments in the Maritime Provinces, as compared with 4 in January, 1941 and 3 in February, 1940. The defaulted liabilities totalled about \$4,000.

Quebec. - Commercial failures in the Province of Quebec during February, 1941, numbered 56, as against 57 in January, 1941, and 58 in February, 1940. The liabilities were approximately \$548,000.

Ontario. - In Ontario, the failures numbered 35 as compared with 34 in January, 1941, and 30 in February, 1940. The liabilities were about \$265,000.

Prairie Provinces. - In the three Prairie Provinces, failures increased from 6 in January, 1941, to 7 in February, 1941, and may be compared with 13 in February, 1940. The liabilities totalled \$35,000.

British Columbia. - In British Columbia, no commercial failures were reported, as compared with 1 for January, 1941, and 3 in February, 1940.

FAILURES BY BRANCHES OF BUSINESS

Trade. - Trading establishments furnished the largest number of failures, 56 assigning in February, 1941, as compared with 48 in January, 1941, and 53 in February, 1940. Of these 56 concerns, 6 were general stores, 7 groceries, 6 fish and meat, 8 dry goods and 1 jewelry.

Manufactures. - Manufacturing establishments failing in February, 1941, numbered 16, as against 13 in January, 1941, and 17 in February, 1940. The 16 included 2 engaged in the manufacture of vegetable foods, 2 in lumber and its manufactured products and 1 in drugs and chemicals.

Services. - In commercial services, failures declined from 18 in January, 1941, to 13 in February, 1941, and may be compared with 19 in February, 1940.

Miscellaneous. - There were 8 failures in construction and 1 in finance.

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
RESEARCH REPORT

1954

THE EFFECT OF TEMPERATURE ON THE RATE OF REACTION OF
HYDROGEN PEROXIDE WITH FERROUS SULFATE

The rate of reaction of hydrogen peroxide with ferrous sulfate was studied at various temperatures. The reaction was found to be first order with respect to the concentration of ferrous sulfate and first order with respect to the concentration of hydrogen peroxide. The rate constant, k , was determined at each temperature and the activation energy, E_a , was calculated from the Arrhenius plot.

EXPERIMENTAL

The reaction was carried out in a series of glass vessels of known volume. The ferrous sulfate solution was prepared by dissolving a known weight of ferrous sulfate heptahydrate in distilled water. The hydrogen peroxide solution was prepared by diluting a known volume of 30% hydrogen peroxide with distilled water.

The reaction was initiated by the addition of a known volume of the hydrogen peroxide solution to a known volume of the ferrous sulfate solution. The reaction was followed by the addition of a known volume of a solution of potassium dichromate, which reacts with the ferrous sulfate to form a colored complex.

The rate of reaction was determined by measuring the time required for the color to develop to a certain intensity. The rate constant, k , was calculated from the rate of reaction and the initial concentrations of the reactants.

The activation energy, E_a , was calculated from the Arrhenius plot, which is a plot of $\log k$ versus $1/T$. The slope of the line is equal to $-E_a/R$, where R is the gas constant.

The results of the experiment are shown in the following table. The rate constant, k , is given in units of min^{-1} and the activation energy, E_a , is given in units of cal/mole .

RESULTS AND DISCUSSION

The rate of reaction of hydrogen peroxide with ferrous sulfate was found to be first order with respect to the concentration of ferrous sulfate and first order with respect to the concentration of hydrogen peroxide. The rate constant, k , was determined at each temperature and the activation energy, E_a , was calculated from the Arrhenius plot.

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The results of the experiment are shown in the following table. The rate constant, k , is given in units of min^{-1} and the activation energy, E_a , is given in units of cal/mole .

1. COMMERCIAL FAILURES IN CANADA, BY PROVINCES AND BRANCHES OF BUSINESS
FEBRUARY, 1941.

	P.E.I. and N. S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Total for February 1941 1940	
<u>TRADE</u>										
General Stores	-	-	3	2	1	-	-	-	6	9
Grocery	-	-	4	3	-	-	1	-	7	12
Confectionery	-	-	1	1	-	-	-	-	2	3
Drink and Tobacco	-	-	2	1	-	-	-	-	3	5
Fish and Meat	-	-	3	3	-	-	-	-	6	5
Boots and Shoes	-	-	-	-	-	-	-	-	-	3
Dry Goods	-	-	4	3	-	-	1	-	8	1
Clothing	-	-	5	4	-	1	-	-	10	8
Furniture	-	-	-	-	-	-	-	-	-	-
Books and Stationery	-	-	1	1	-	-	-	-	2	1
Automobile	-	-	-	-	-	-	-	-	-	-
Hardware	-	-	1	1	-	-	-	-	2	-
Electric Apparatus	-	-	-	-	-	-	-	-	-	2
Jewelry	-	-	-	1	-	-	-	-	1	-
Coal and Wood	-	-	2	-	-	-	-	-	2	1
Drugs and Chemicals	-	-	-	1	-	-	-	-	1	2
Miscellaneous	1	-	2	2	1	-	-	-	6	1
Total Trade	1	-	28	22	2	1	2	-	56	53
<u>MANUFACTURE</u>										
Vegetable Foods	-	-	1	1	-	-	-	-	2	4
Drink and Tobacco	-	-	-	-	-	-	-	-	-	-
Animal Foods	-	-	-	1	-	-	-	-	1	-
Fur and Leather	-	-	-	-	-	-	-	-	-	1
Pulp and Paper	-	-	-	-	-	-	-	-	-	-
Textiles	-	-	1	-	-	-	-	-	1	3
Clothing	-	-	-	-	-	-	-	-	-	3
Lumber and Manufacture	-	-	1	1	-	-	-	-	2	3
Iron and Steel	-	-	2	-	-	-	-	-	2	1
Non-Ferrous Metals	-	-	1	-	-	-	-	-	1	-
Non-Metallic Minerals	-	-	1	-	-	-	-	-	1	-
Drugs and Chemicals	-	-	-	1	-	-	-	-	1	2
Miscellaneous	-	-	3	2	-	-	-	-	5	-
Total Manufactures	-	-	10	6	-	-	-	-	16	17
<u>SERVICE</u>										
Garage	-	-	1	-	-	-	-	-	1	4
Other Customs and Repairs	-	-	1	-	1	-	-	-	2	2
Personal Service	-	-	4	-	-	1	-	-	5	2
Restaurants	-	-	2	1	-	-	-	-	3	7
Professional Service	-	-	1	-	-	-	-	-	1	4
Recreational Service	-	-	-	-	-	-	-	-	-	-
Business Service	-	-	-	1	-	-	-	-	1	-
Total Service	-	-	9	2	1	1	-	-	13	19
<u>OTHER</u>										
Agriculture	-	-	1	-	-	-	-	-	1	9
Mining	-	-	-	-	-	-	-	-	-	1
Logging, Fishing and Trapping	-	-	-	-	-	-	-	-	-	-
Construction	1	-	4	3	-	-	-	-	8	3
Transportation and Public Utilities	-	-	-	-	-	-	-	-	-	1
Finance	-	-	1	-	-	-	-	-	1	1
Total Other	1	-	6	3	-	-	-	-	10	15
Not Classified	-	-	3	2	-	-	-	-	5	3
GRAND TOTAL	2	-	56	35	3	2	2	-	100	107

STATE OF NEW YORK

IN SENATE

January 1, 1901

REPORT OF THE COMMISSIONER OF THE LAND OFFICE

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Table 2. COMMERCIAL FAILURES IN CANADA, BY PROVINCES, SHOWING ASSETS AND LIABILITIES FOR FEBRUARY, 1941, WITH THE TOTALS FOR JANUARY, 1941 AND FEBRUARY, 1940.

(Prepared from the preliminary statements of affairs received from trustees.)

	Number of Bankruptcies	Estimated Grand Total Assets	Estimated Grand Total Liabilities
	February	\$	\$
Prince Edward Island	-	-	-
Nova Scotia	2	2,473	3,917
New Brunswick	-	-	-
Quebec	56	434,928	549,006
Ontario	35	201,749	265,172
Manitoba	3	14,216	26,903
Saskatchewan	2	2,149	4,118
Alberta	2	2,327	3,950
British Columbia	-	-	-
Total for February, 1941	100	657,842	853,066
Total for January, 1941	102	687,127	806,394
Total for February, 1940	107	681,348	883,575

Table 3. COMMERCIAL FAILURES BY PROVINCES, 1941.

	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Total
January	-	2	2	57	34	3	3	-	1	102
February	-	2	-	56	35	3	2	2	-	100

Table 4. COMMERCIAL FAILURES, BY MONTHS AND BRANCHES OF BUSINESS, 1941.

	Trade	Manu- factures	Agri- cul- ture	Logg- ing, Fish- ing, Trap.	Min- ing	Con- struc- tion	Trans- porta- tion	Fin- ance	Serv- ice	Not Class- ified	Total
January	48	13	3	-	2	7	2	1	18	8	102
February	56	16	1	-	-	8	-	1	13	5	100



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