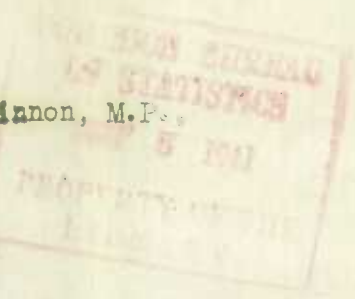


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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS - CANADA
INTERNAL TRADE BRANCH

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SECURITY PRICES AND FOREIGN EXCHANGE, April 25-May 1.
(1935-39=100)

INDUSTRIAL AND UTILITY COMMON STOCK PRICES

Nearly all industrial and utility groups suffered moderate losses in the week ended May 1, with the greater part of these occurring on April 30. Pulp and paper issues alone among the groups in the Investors' index recorded a fractional gain. The most severe declines were for milling, food, beverage, telephone, and textile issues which netted losses ranging from 3.4 to 6.1 per cent.

The Investors' index dropped from 65.2 to 63.6 between April 24 and May 1, with Industrial moving down from 61.6 to 60.1, and utilities from 67.5 to 65.4.

MINING STOCK PRICES

Traders retained a cautious attitude and mining stock prices moved lower during the week ended May 1. The Bureau's price index for mining issues registered a drop of 2 p.c. to close at 72.8. Except for a minor gain on April 26, the decline was steady throughout the period. Base metals were weaker than the gold issues as indicated by an index loss of 3.6 p.c., while the decline in golds amounted to 1 p.c. Weekly average indexes of 73.5 for the composite, 67.8 for golds and 84.1 for base metals showed net recessions of 0.6, 0.3 and 1.7 points respectively, when compared with the preceding week.

LONG-TERM BOND PRICES AND YIELDS

After remaining unchanged at 100.9 throughout April the Bureau's weekly index of Dominion of Canada long-term bond prices, on the base 1935-1939=100, advanced 0.1 to 101.0 in the week ending May 1. For the first three days the daily index remained at the previous week's level of 100.9, but on the 29th rose to 101.0, and remained at that level. The index of yields fell from 95.9 for the week ending April 24 to 95.8. This compared with 99.0 for the corresponding week of 1940. Changes in the provincial section were few and of a minor character.

British Consols were buoyant, closing 7/8 higher at 78 1/8, while the Dow-Jones average of selected United States bonds increased from 91.39 to 91.45.

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

PHYSICAL CHEMISTRY
LABORATORY

(1922, 1923, 1924)

REPORT ON THE PROGRESS OF THE WORK
DURING THE YEAR 1924

BY
J. H. VAN VLECK

CHICAGO, ILLINOIS
1925

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I. The Theory of the Specific Heat of Solids
II. The Theory of the Specific Heat of Gases
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APPENDIX

A. The Theory of the Specific Heat of Solids
B. The Theory of the Specific Heat of Gases
C. The Theory of the Specific Heat of Liquids
D. The Theory of the Specific Heat of Crystals
E. The Theory of the Specific Heat of Polymers

SUMMARY OF FINANCIAL PRICE FACTORS

Dates	1941		MAY		Weekly Average April 25- May 1	Preceding Weekly Average Apr. 18-24	Corresponding Weekly Average Last Month	Weekly Average 4 Year Ago	
	APRIL		1						
	25	26	28	29					30
INVESTORS' PRICE INDEX, 95 COMMON STOCKS	65.2	65.2	65.1	64.8	63.5	63.6	64.5	67.3	84.5
68 INDUSTRIALS	61.6	61.8	61.6	61.4	59.9	60.1	60.9	63.7	80.4
Machinery and Equipment (8)	72.8	72.5	72.6	72.9	72.5	72.4	72.6	74.6	100.7
Pulp and Paper (7)	60.2	60.2	61.3	61.3	61.4	60.6	60.9	64.8	121.5
Milling (3)	68.3	68.3	65.1	64.4	64.4	64.4	66.4	70.4	107.4
Oils (4)	49.3	49.3	49.8	49.6	48.0	48.4	49.0	49.8	69.4
Textiles and Clothing (10)	101.9	101.0	99.2	99.0	98.5	98.0	99.3	103.0	135.4
Food and Allied Products (12)	90.6	89.6	89.2	88.2	86.6	87.0	87.9	87.7	113.4
Beverages (7)	86.9	86.9	85.3	84.5	84.0	84.0	85.0	91.9	109.8
Building Materials (15)	76.1	76.2	76.0	75.8	75.3	74.8	75.9	80.3	102.4
Industrial Mines (2)	66.1	66.9	66.1	66.1	64.1	64.2	65.2	70.6	77.5
19 UTILITIES	67.4	67.1	67.0	66.5	66.0	65.4	66.5	71.1	91.8
Transportation (2)	54.9	54.9	53.8	54.9	53.9	53.9	54.5	61.3	80.1
Telephone and Telegraph (2)	96.3	95.8	95.6	95.3	93.8	92.2	94.2	99.6	104.5
Power and Traction (15)	62.4	62.1	62.3	61.3	61.3	60.9	61.8	65.7	91.7
8 BANKS	90.3	90.2	90.3	89.7	89.7	89.8	90.0	89.6	101.8
MINING STOCK PRICE INDEX, 25 STOCKS	74.1	74.2	73.7	73.6	73.1	72.8	73.5	76.4	88.4
Gold Stocks (22)	68.0	68.3	68.0	67.7	67.4	67.6	67.8	70.7	79.2
Base Metals (3)	86.0	85.7	85.1	84.9	84.4	83.0	84.1	88.2	106.0
DOMINION OF CANADA LONG-TERM BOND PRICE INDEX	100.9	100.9	100.9	101.0	101.0	101.0	101.0	100.9	99.5
DOMINION OF CANADA LONG-TERM BOND YIELD INDEX	95.9	95.9	95.9	95.6	95.6	95.6	95.8	95.9	99.0
FOREIGN EXCHANGE QUOTATIONS - NOON RATES AT MONTREAL									
#Sterling	4.4500	4.4500	4.4500	4.4500	4.4500	4.4500	4.4500	4.4500	4.4500
#U.S. dollars	1.1050	1.1050	1.1050	1.1050	1.1050	1.1050	1.1050	1.1050	1.1050
Brazil milreis (free rate)	.0562	-	.0562	.0562	.0562	.0562	.0562	.0562	.0558
India rupee	.3353	.3353	.3353	.3353	.3353	.3353	.3353	.3358	.3359
Sweden krona	.2645	.2645	.2645	.2645	.2645	.2645	.2645	.2644	.2626
Japan yen	.2602	.2602	.2602	.2602	.2602	.2602	.2602	.2602	.2602
Australia pound	3.5760	3.5760	3.5760	3.5760	3.5760	3.5760	3.5760	3.5760	3.5760
Argentine peso (free rate)	.2605	-	.2609	.2603	.2603	.2609	.2606	.2568	.2547

x Bank of Canada. # Average of daily buying and selling rates set by the Foreign Exchange Control Board. Since September 16, 1939, current buying and selling rates were: Sterling \$4.43 and \$4.47; U.S. funds \$1.10 and \$1.11.

EXCHANGE QUOTATIONS AT MONTREAL, 1940-41.

NOTE: The noon rates in Canadian Funds upon which these averages are based have been supplied by the Bank of Canada.

	New York Funds		London Sterling		Spain Peseta	Mexico Peso	Switzer-land Franc		Nether-lands Florin		Argentina Peso (Paper)	Sweden Krona
	+	\$	+	\$	\$	\$	\$	\$	\$	\$ x	\$	\$
1940												
April	+	1.1050	+	4.4500	.1015	.1849	.2489	.5892	.2550	.2634		
May	+	1.1050	+	4.4500	.1013	.1849	.2471	.5892	.2514	.2641		
June	+	1.1050	+	4.4500	.1013	.2041	.2491	-	.2438	.2642		
July	+	1.1050	+	4.4500	.1013	.2211	.2518	-	.2403	.2646		
August	+	1.1050	+	4.4500	.1013	.2219	.2526	-	.2492	.2643		
September	+	1.1050	+	4.4500	.1013	.2214	.2528	-	.2575	.2643		
October	+	1.1050	+	4.4500	.1013	.2256	.2569	/.5855	.2604	.2643		
November	+	1.1050	+	4.4500	.1013	.2264	.2575	/.5855	.2606	.2644		
December	+	1.1050	+	4.4500	.1013	.2270	.2575	/.5855	.2614	.2644		
1941												
January	+	1.1050	+	4.4500	.1013	.2276	.2576	/.5855	.2618	.2645		
February	+	1.1050	+	4.4500	.1013	.2279	.2577	/.5855	.2617	.2645		
March	+	1.1050	+	4.4500	.1013	.2280	.2576	/.5855	.2558	.2644		
April	+	1.1050	+	4.4500	.1013	.2280	.2575	/.5855	.2590	.2645		

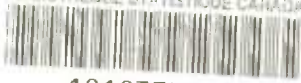
	Australia Pound	Japan Yen	Brazil Milreis x	Straits Settlement Dollar	India Rupee	China (Shanghai) Dollar	Union of S. Africa Pound	New Zealand Pound
	\$	\$	\$	\$	\$	\$	\$	\$
1940								
April	3.5760	.2602	.0558	.5253	.3359	.0666	4.4600	3.5900
May	3.5760	.2602	.0557	.5256	.3359	.0566	4.4600	3.5900
June	3.5760	.2601	.0559	.5256	.3359	.0641	4.4600	3.5900
July	3.5760	.2601	.0558	.5256	.3359	.0674	4.4600	3.5900
August	3.5760	.2601	.0557	.5256	.3359	.0611	4.4600	3.5900
September	3.5760	.2601	.0556	.5256	.3359	.0579	4.4600	3.5900
October	3.5760	.2602	.0556	.5256	.3359	.0634	4.4600	3.5900
November	3.5760	.2602	.0557	.5256	.3359	.0654	4.4600	3.5900
December	3.5760	.2602	.0557	.5256	.3359	.0635	4.4600	3.5900
1941								
January	3.5760	.2602	.0561	.5256	.3359	.0601	4.4600	3.5900
February	3.5760	.2602	.0562	.5256	.3359	.0604	4.4600	3.5900
March	3.5760	.2602	.0562	.5256	.3359	.0599	4.4600	3.5900
April	3.5760	.2602	.0562	.5256	.3353	.0578	4.4600	3.5900

x Unofficial.

+ Since Sept. 16, 1939, quotations used are the average of the daily buying and selling rate of the Foreign Exchange Control Board. The current buying and selling rate for sterling is \$4.43 and \$4.47 and U.S. funds \$1.10 and \$1.11.

/. Netherlands - Indian Guilder.

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