

THE EFFECT OF TEMPERATURE ON THE RATE OF REACTION OF ...

The rate of reaction was measured at various temperatures ...

RESULTS AND DISCUSSION

The results of the experiments are shown in Table I ...

It is seen from Table I that the rate of reaction increases ...

The activation energy of the reaction was calculated ...

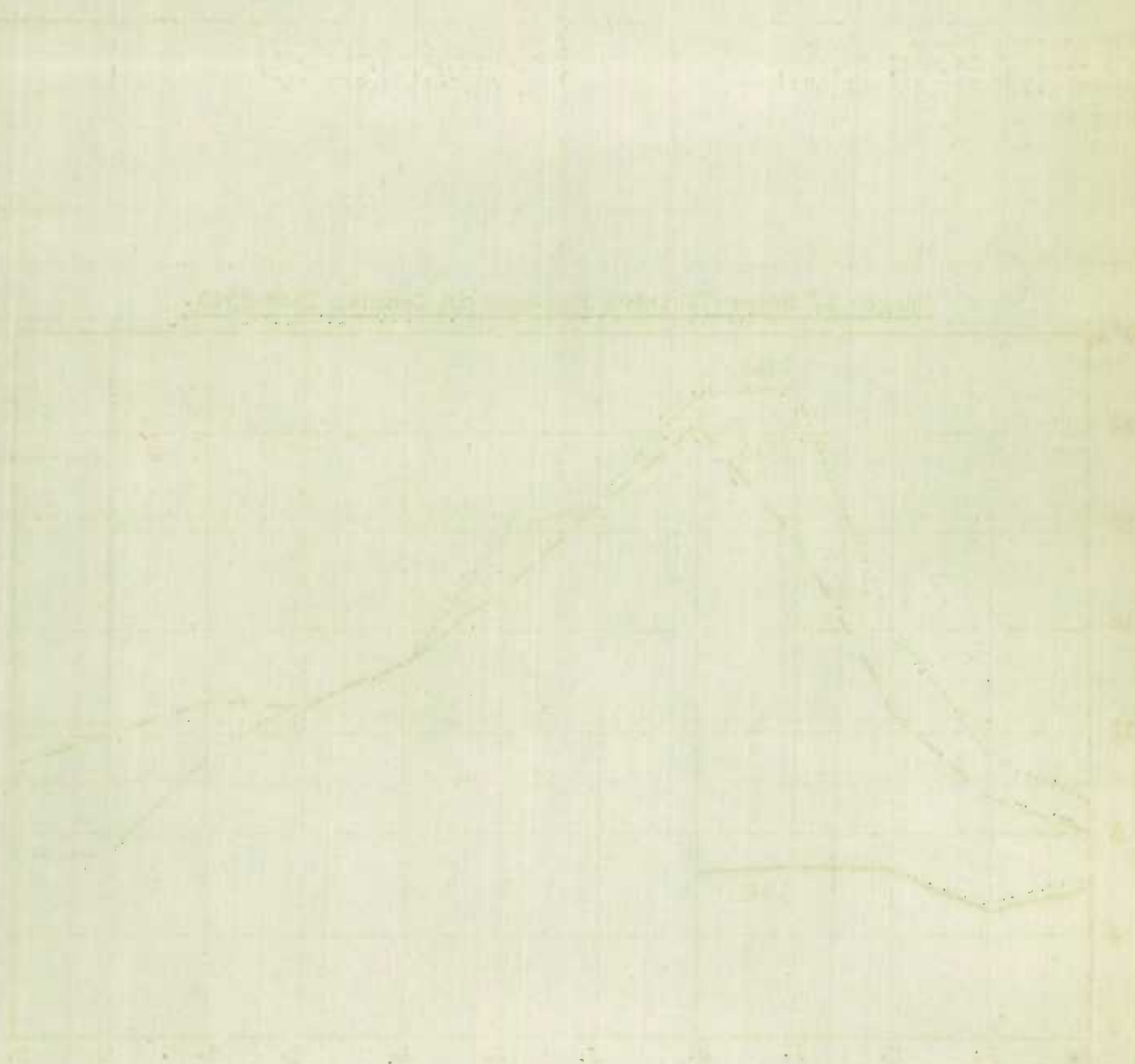


Fig. 1. Rate of reaction versus temperature.

FINANCING OF MOTOR VEHICLE SALES IN CANADA, 1940 - 1942
(Figures for the current year are subject to final revision)

| Month | Number of Vehicles | | | | Amount of Financing | | | |
|-----------------------------------|--------------------|---------|--------|----------------------|---------------------|------------|------------|----------------------|
| | 1940 | 1941 | 1942 | % of Change, 1942/41 | 1940 | 1941 | 1942 | % of Change, 1942/41 |
| New Vehicles (a) | | | | | | | | |
| January ... | 2,454 | 2,557 | 1,793 | -22.6 | 1,834,988 | 2,168,043 | 1,475,652 | -25.1 |
| February... | 2,598 | 2,886 | 971 | -66.4 | 1,963,864 | 2,499,920 | 855,466 | -65.8 |
| March | 3,508 | 3,979 | 1,290 | -67.6 | 2,590,162 | 3,286,098 | 1,138,031 | -65.4 |
| April | 5,673 | 6,894 | 1,338 | -80.6 | 4,201,659 | 5,695,909 | 903,106 | -84.1 |
| May | 6,668 | 6,151 | 477 | -92.2 | 5,041,701 | 5,272,038 | 473,228 | -91.0 |
| 5 months .. | 20,901 | 22,466 | 5,869 | -73.9 | 15,632,374 | 18,922,008 | 4,845,483 | -74.4 |
| June | 5,292 | 4,351 | | | 3,979,592 | 3,751,141 | | |
| July | 2,845 | 4,010 | | | 2,301,572 | 3,478,182 | | |
| August | 2,494 | 2,790 | | | 1,973,436 | 2,428,379 | | |
| September.. | 2,477 | 2,519 | | | 2,015,926 | 2,162,165 | | |
| October ... | 2,638 | 1,903 | | | 2,156,746 | 1,629,857 | | |
| November .. | 2,962 | 1,367 | | | 2,571,930 | 1,116,170 | | |
| December .. | 3,373 | 1,626 | | | 2,841,821 | 1,399,189 | | |
| 12 months .. | 42,982 | 41,032 | | | 33,473,397 | 34,887,591 | | |
| Used Vehicles (a) | | | | | | | | |
| January ... | 5,615 | 6,961 | 3,976 | -31.2 | 1,793,219 | 2,452,366 | 1,401,157 | -31.7 |
| February .. | 6,934 | 8,260 | 3,959 | -52.1 | 2,223,756 | 2,949,837 | 1,306,529 | -55.7 |
| March | 9,174 | 12,230 | 5,113 | -58.2 | 2,820,514 | 4,214,622 | 1,662,722 | -60.5 |
| April | 14,031 | 18,873 | 5,259 | -72.1 | 4,316,435 | 6,656,680 | 1,585,422 | -76.2 |
| May | 17,621 | 19,348 | 5,910 | -69.5 | 5,388,290 | 6,906,661 | 1,839,637 | -73.4 |
| 5 months .. | 53,375 | 65,672 | 24,217 | -63.1 | 16,542,214 | 23,180,166 | 7,795,467 | -66.4 |
| June | 15,857 | 17,045 | | | 4,860,525 | 6,047,421 | | |
| July | 14,661 | 15,788 | | | 4,463,334 | 5,725,016 | | |
| August | 12,145 | 11,677 | | | 3,740,564 | 4,251,560 | | |
| September .. | 10,512 | 10,728 | | | 3,258,877 | 3,823,127 | | |
| October ... | 10,576 | 9,204 | | | 3,312,672 | 3,261,581 | | |
| November .. | 9,077 | 5,759 | | | 2,933,677 | 1,799,375 | | |
| December .. | 7,383 | 5,514 | | | 2,650,533 | 1,740,946 | | |
| 12 months .. | 133,596 | 141,387 | | | 41,762,396 | 49,829,192 | | |
| TOTAL - New and Used Vehicles (a) | | | | | | | | |
| January ... | 8,069 | 9,518 | 5,769 | -28.9 | 3,628,207 | 4,620,409 | 2,876,809 | -28.6 |
| February .. | 9,532 | 11,146 | 4,930 | -55.8 | 4,187,620 | 5,449,757 | 2,161,995 | -60.3 |
| March | 12,682 | 16,208 | 6,403 | -60.5 | 5,410,676 | 7,500,720 | 2,800,753 | -62.7 |
| April | 19,704 | 25,767 | 6,597 | -74.4 | 8,518,094 | 12,352,589 | 2,488,528 | -79.9 |
| May | 24,289 | 25,499 | 6,387 | -75.0 | 10,429,991 | 12,178,699 | 2,312,865 | -81.0 |
| 5 months .. | 74,276 | 88,138 | 30,086 | -65.9 | 32,174,588 | 42,102,174 | 12,640,950 | -70.0 |
| June | 21,159 | 21,396 | | | 8,840,117 | 9,798,562 | | |
| July | 17,506 | 19,798 | | | 6,764,906 | 9,203,198 | | |
| August | 14,632 | 14,467 | | | 5,714,000 | 6,680,439 | | |
| September .. | 12,989 | 13,247 | | | 5,274,803 | 5,985,292 | | |
| October ... | 13,214 | 11,107 | | | 5,469,418 | 4,891,438 | | |
| November .. | 12,039 | 7,126 | | | 5,505,607 | 2,915,545 | | |
| December... | 10,756 | 7,140 | | | 5,492,354 | 3,140,135 | | |
| 12 months.. | 176,578 | 182,419 | | | 75,235,793 | 84,716,783 | | |

(a) Includes passenger cars, trucks and buses.

FINANCING OF MOTOR VEHICLE SALES IN CANADA, BY PROVINCES

MAY, 1941 and 1942

| Province | Number of Vehicles | | | Amount of Financing | | |
|----------|--------------------|----------|-------------------|---------------------|----------|-------------------|
| | May 1941 | May 1942 | % Change, 1942/41 | May 1941 | May 1942 | % Change, 1942/41 |

New Vehicles (a)

| | | | | | | |
|---------------------|-------|-----|-------|-----------|---------|-------|
| CANADA | 6,151 | 477 | -92.2 | 5,272,038 | 473,228 | -91.0 |
| Maritime Provinces | 494 | 43 | -91.3 | 476,403 | 36,682 | -92.3 |
| Quebec | 1,229 | 144 | -88.3 | 1,184,594 | 155,283 | -86.9 |
| Ontario | 2,299 | 153 | -93.4 | 1,865,345 | 135,542 | -92.7 |
| Man. and Sask. | 1,190 | 53 | -95.5 | 935,237 | 55,280 | -94.1 |
| Alberta | 551 | 62 | -88.7 | 432,923 | 52,857 | -87.8 |
| British Columbia .. | 388 | 22 | -94.3 | 377,536 | 37,584 | -90.0 |

Used Vehicles (a)

| | | | | | | |
|---------------------|--------|-------|-------|-----------|-----------|-------|
| CANADA | 19,348 | 5,910 | -69.5 | 6,906,661 | 1,839,637 | -73.4 |
| Maritime Provinces | 1,598 | 286 | -82.1 | 570,898 | 86,252 | -84.9 |
| Quebec | 2,867 | 775 | -73.0 | 1,137,684 | 303,309 | -73.3 |
| Ontario | 9,329 | 3,102 | -66.7 | 3,064,176 | 838,098 | -72.6 |
| Man. and Sask. | 2,666 | 729 | -72.7 | 1,010,048 | 257,060 | -74.5 |
| Alberta | 1,500 | 638 | -57.5 | 570,500 | 215,450 | -62.2 |
| British Columbia .. | 1,388 | 380 | -72.6 | 553,355 | 139,468 | -74.8 |

TOTAL - New and Used Vehicles (a)

| | | | | | | |
|---------------------|--------|-------|-------|------------|-----------|-------|
| CANADA | 25,499 | 6,387 | -75.0 | 12,178,699 | 2,312,865 | -81.0 |
| Maritime Provinces | 2,092 | 329 | -84.3 | 1,047,301 | 122,934 | -88.3 |
| Quebec | 4,096 | 919 | -77.6 | 2,322,278 | 458,592 | -80.3 |
| Ontario | 11,628 | 3,255 | -72.0 | 4,929,521 | 973,640 | -80.2 |
| Man. and Sask. | 3,856 | 782 | -79.7 | 1,945,285 | 312,340 | -83.9 |
| Alberta | 2,051 | 700 | -65.9 | 1,003,423 | 268,307 | -73.3 |
| British Columbia .. | 1,776 | 402 | -77.4 | 930,891 | 177,052 | -81.0 |

(a) Include passenger cars, trucks and buses.



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| Province | Year | Population | Area | Population Density | Urban Population | Rural Population |
|------------------|------|------------|---------------------------|----------------------|------------------|------------------|
| Alberta | 1981 | 2,412,000 | 660,000 km ² | 36.5/km ² | 1,400,000 | 1,012,000 |
| British Columbia | 1981 | 2,600,000 | 944,800 km ² | 27.5/km ² | 1,800,000 | 800,000 |
| Manitoba | 1981 | 1,000,000 | 312,700 km ² | 32.0/km ² | 600,000 | 400,000 |
| Ontario | 1981 | 10,000,000 | 917,700 km ² | 10.9/km ² | 7,000,000 | 3,000,000 |
| Quebec | 1981 | 6,500,000 | 1,542,000 km ² | 4.2/km ² | 4,500,000 | 2,000,000 |
| Atlantic | 1981 | 3,000,000 | 1,000,000 km ² | 3.0/km ² | 2,000,000 | 1,000,000 |