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# DOMINION BUREAU OF STATISTICS 

MERCHANDISING AND SERVICES SECTION OTTAWA, CANADA

## OPERATING RESULTS

OF<br>RETAIL FOOD CHAINS

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1947
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## OPERATING RESULTS

OF RETAIL
FOOD CHAINS
1947

## GROCERY CHAINS

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## OPERATING RESULTS OF RETAIL FOOD CHAINS, 1947

## Content of the Bulletin

This publication contains the results of a survey on the operations of retail food chains, in 1947, including erocery, combination grocery and meat, and meat market chains. The study is the first detailed inquiry made by the Dominion Bureau of Statistics into operating costs of this phase of retailing.

There are two other publications in the 1947 chain store operations series, one outlining ratios for four types of clothing chains - men's, wouen's, family clothine and shoe chains - the other


Purpose of the Survey
The costs of distribution, and the allocation of these costs has become the focus of attention of merchants, the general public and government in recent years. While distribution expenses are by no means confined to middlemen and retailers, the approach to the problen of assessine these costs must be made throurh those types of business organization. The Bureal has carried on extensive studies into the operatine expenses of independent retailers, first for the year 1938, and again for 1944, 1945 and 1946.

As a result of requests from the trade, from individuals ard from trade associations, it became apparent that the remaining distributive agencies should be surveyed for operating costs. The result has been studies on the operations of retail chsins and wholesalers proper covering the year 1947.

The three major channels of distribution -- independent retall firms, chain store firms and wholesalers -- leave untouched much of the field of distribution costs.

The conversion of goods from raw materials to finished products, and the placing of commodities before consumers involves the processes of production and distribution. The distinction between the two terms as made by economics seems quite clear cut. Production involves the addition of physical or form utilities to goods, by means of such acts as processing, fabrication, and transformation. Distribution, on the other hand, involves the addition of time and place utilities to goods, by such means as transportation, storage, merchandisint, display, advertising, expenses of carrying stocks (spoilage, shrinkage), losses fram bad debts and financing.

It becomes evident from the consideration of this distinction that distribution costs are not limited to the handling of finished consumers goods, and that a large part of such expense is borne by primary producers and manufacturers during the early stages of fabrication or processing of comodities. The transportation of raw materials, expenses of storage while awaiting processing, financing of inventories, are ull distribution costs incurred before the end-product is ready for the ultimate consumer.

While the producer and processor assume some of the costs of distribution, the retailer and wholesaler may take on certain productive functions. Wholesalers may package and repack comrodities whlle certain retailers such as clothiers firish off semi-ready garments or make alterations on finished clothing.

Although the distinction between production and distribution is a useful one, and serves to separate major functions, there are costs which are not clearly one or the other. 3ome of these difficult to allocate are insurance, financine, taxes, service department costs, and executive salaries. The list is not exhaustive, but where it is impossible to make a clear-cut division of functions, costs are often apportioned on a pro-rata basis, decided upon by the relative expense ratios of more easily allocated functions, such as selling salaries, store occupancy expense, advertising etc.

Distribution costs, therefore, are not limited to middlemen or retailers but are a part of the interlocking distributionproduction system which prepares inished goods and places them before the consumer. The practical distinction between distribution and production is made, however, by dividing industry into units which perform chiefly eitner productive or distributive functions.

Major distributive agencies may be classified as follows:
Wholesalers or the Intermediary Trade
Wholesalers proper
Hanufactures sales branches or offices
Petroleum bulk tank stations
Arents and Brokers
issemblers of primary products
Other types of operation
Retailers

> Independent Retailers
> Independent Consumer Co-operatives
> Chains - Voluntary chains Chains under central ownership and control. Retail co-operative chains.

Relstive importance to total trading of chain organizations is brought out by the table below.

## Percent

$$
81.1
$$

Chains

$$
18.7
$$

Other types
$\frac{0.2}{100.0}$

Source: 1941 Census,
Vol. X, Table 13, P. 398

$$
\text { P. } 398
$$

A comparison votween the three food classifications in terms of the relative importance of chain and independent form of organization in 1941 is demonstrated by the following table.

| Kind of Business | 1941 <br> Total Sales | 1941 <br> Chain Sales | Percentage <br> Chains to <br> Total |
| :---: | :---: | :---: | :---: |
|  | $\$$ | $\$$ | $\%$ |
| Crocery $\ldots \ldots \ldots \ldots \ldots \ldots \ldots$ | $266,027,500$ | $26,523,300$ | 9.97 |
| Combination $\ldots \ldots \ldots \ldots \ldots$ | $301,351,000$ | $145,734,100$ | 48.38 |
| Mieat $\ldots \ldots \ldots \ldots \ldots \ldots \ldots$ | $80,064,400$ | $5,088,500$ | 6.36 |

Source - 1941 Census, Vol. X.
a sample questionnai re was drawn up in the Bureau and despatched to the firms in the various trades surveyed. An accompanyines letter requested that the companies make sugeestions in order that the form be designed in such a way that it could be filled out with a minimum of effort froin existing accounting records. The suggestions received were invaluable in the format of the final form.

A facsimile of this final schedule is presented on page 2 to help clarify neanines of terms used.

Miethods

The ten kinds of business in the survey were selected for their importance in the field of retail distribution. As the majority of firms indicated that they could not give results for individual stores, a consolidated report only for each firm was required. When received, some returns could not be used for such reasons as manufacturing activities or outsice wholesaling for which expenses could not be separated from retuiling costs. Where the number of reports was sufficient, the results were tabulated accordine to the most suitable sales-size range. In most reports, no clear distinction between head office, warchouse and store expense was made, 30 that results for these functions are shown separately for only a few kirds of business. The salaries of proprictors of unincorporated firms are included with executive salaries. Income tax tabulation was made only tor incorporated firms.

As with all ourveys conducted by the Bureau, average results only are shown, and all information submitted by the co-operatine firns has been kept in strictest corfidence. This study does not replace the regular annual survey of retail chains which takes in all kinds of business and covers such items as: number of stores, net retail sales, salaries, store and warehouse stocks and custoriers accounts outstanding.

## RESULTS OF THE SURVEY.

All known chain firms in the three retail food twades were canvassed y nail in this survey. A few were excluded because of inability to complete the form or to separate outside wholesale business from their warehouse operations. The coverage, however, was nearly complete and the results shown are considered as quite average.

Chain firms were classified according to their overall business as separate reports were not requested for individual stores. For this reason, grocery chains include any meat business conducted in some of their stores and combination chains include some straight grocery stores. The rate of stock turnover is based on the average of beginning, and year end stocks which is divided into cost of goods sold. This stock average is not a 12 month average. A comparison of major expense and profit itcia in the three kinds of business is shown below.

No detailed writton analysis of the results is offered, since it is folt that the figures themselves are the portion of the report which will be used to greatest advantage. Sumnary statements point only to major items, and accompany the tables to follow.

Retail Food Chains = Main Profit and Loss Items Compared, 1947

| Kind of Business | Average Sales per Store | Gross Profit | jalary <br> Expense | Occupancy | Total <br> Expenses | Net Profit before <br> Income Taxes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \$ | \% | ! | \% | \% | \% |
| Grocery | 82,739 | 16.80 | 9.42 | 1.27 | 14.44 | 2.36 |
| Combination | 319,713 | 15.99 | 8.38 | 0.88 | 13.23 | 2.76 |
| Weat | 85,179 | 20.51 | 11.28 | 1.23 | 17.24 | 3.27 |

Combination chain ratios are undoubtedly generally smaller because of greater volume sales. By comarins chains of similar size range in the three kinds of business, the effect of meat handling costs may be observed. Grocery chains handle only small amounts of meat, combination chains are characterized by a meat department and meat market chains sell this commodity mincipally. (See table below).

| Kind of <br> Business | Average <br> Sales per <br> Store | Gross <br> Profit | Salary <br> Expense | Occu- |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| pancy |  |  |  |  | | Total |
| :---: |
| Expenses | | Net Profit |
| :---: |
| before |
| Income Taxes | | Stock |
| :---: |
| turn- |
| over |

## OPERATING RESULTS <br> OF RETAIL FOOD CHAINS, 1947

GROSS PROFIT $=$ NET PROFIT + SALARIES + OTHER EXPENSES ANNUAL SALES
VOLUME PERCENTAGE OF NET SALES


## GROCERY CHAINS.

Seventeen reports on the operations of retail erocery chains were completed satisfactorily and were used in this survey. The eleven incorporated and six unincorporated companies operated 245 outlets. Tabulation was made for two size-of-business groups, $\$ 750,000$ annual net sales and over, and under $\$ 750,000$, with 7 firms in the larger and 10 in the smaller range. In the croup of smaller rirms, 5 were unincorporated compared to only one of the large size class.

1. The most striking reature of the reports received was the similarity in expense ratios from firm to firm. While there were sizable differences in certain expenses, the imiformity was e, eneral, and was true of conbination and meat chains as well as of the erocery chain firms.
2. Operating profits (before income tax cieductions) amounted to an average of $\$ 3.09$ out of every $\$ 100$ sales in the smaller chains and $\$ 2.21$ in those with net sales over $\$ 750,000$ in 1947. Gross profits were remarkably consistent in the firms included in the survey - $\$ 16.16$ in the smaller and $\$ 16.93$ of each $\$ 100$ ret sales in the larger chains. Employees ${ }^{\circ}$ wages were the main factor in the higher expense ratios of the larger firms.
3. Nore than half the expense dollar was absorbed by employees' salaries, the larger size stores expending \&. 81 per cent and the smaller 6.90 per cent of net sales on this item. Head office executive salaries made $u p 0.80$ and 1.56 per cent respectively.
4. Althouch average sales per store were greater in the larger sized firms, larger inventories were maintained than the average store stock of the maller class, with the result that their rate of stock turn was less than that for firms under 750,000 sales -8.2 and $9: 0$ times respectively. In woth classes, inventories at the end of the year had increased over those held at the beginning, a function of the upward trend in the trade rather than a typically seasonal charactoristic.

Table 1. - OPERATING RESULTS OF GROCHRY CHAINS, 1947

| Iter | $\begin{aligned} & \text { Under } \\ & \$ 750,000 \end{aligned}$ | $\$ 750,000$ and over | All sizes |
| :---: | :---: | :---: | :---: |
| Number of firms | 10 | 7 | 17 |
| Number of stores ............... | 49 | 196 | 245 |
| Average sales per chain ..... \$ | 349,496 | 2,396,591 | 1,192,418 |
| Average sales per store ...... \$ | 71,326 | 85,593 | 82,739 |
| Average cost of goods sold ... \$ | 59,802 | 71,099 | 68,840 |
| Average inventory per store |  |  |  |
| Beginning of year .......... \$ | 4,438 | 5,779 | 5,511 |
| End of year ...............\% | 5,839 | 6,861 | 6,656 |
| Stock turnover (times per year). | 9.0 |  |  |
|  | s express | and Loss De percentage | t sales) |
| Gross margin or profit | 16.16 | 16.93 | 16.80 |
| Operatine expenses: |  |  |  |
| Salaries - executives | 1.56 | 0.80 | 0.93 |
| - employees | 6.90 | 8. 81 | 8.49 |
| Employees' benefits .......... | 0.07 | 0.13 | 0.12 |
| Occupancy . .................... | 1.18 | 1.29 | 1.27 |
| Taxes (1) | 0.15 | 0.09 | 0.10 |
| Repairs (1) ................... | 0.32 | 0.18 | 0.21 |
| Depreciation (1) .............. | 0.22 | 0.31 | 0.29 |
| Supplies ...................... | 0.68 | 0.76 | 0.75 |
| Heat, light and power ........ | 0.36 | 0.33 | 0.34 |
| Advertising ...... | 0.29 | 0.37 | 0.35 |
| Travelling expense .......... | 0.08 | 0.15 | 0.14 |
| Communication ................ | 0.12 | 0.17 | 0.16 |
| Bad debt losses .............. | 0.05 | 0.06 | 0.06 |
| All other expenses . .......... | 1.09 | 1.27 | 1.23 |
| Total operating expenses ....... | 13.07 | 14.72 | 14.44 |
| Operating profit before income taxes $\qquad$ | 3.09 | 2.21 | 2.36 |

(1) Excludes amount attributed to real estate which is included in occupancy.

## COMBINATION CHAINS.


#### Abstract

Twenty-four firms in this classification submitted satisfactory reports which were used in this survey. While these firms sold both fresh meats and groceries not all of the stores operated carried both lines.

For tabulation, the firms were placed in three sales-size eroups; 6 over $\$ 10,000,000,7$ between $\$ 1,000,000$ and $\$ 4,000,000$ (none between $\$ 4,000,000$ and $\$ 10,000,000$ ), and 11 under $\$ 1,000,000$ annual net sales. The latter group consisted of 4 incorporated companies and 7 individual proprietorships or partnerships while the other two size classes were entirely composed of incorporated companies.


All the firms in the largest size class were able to provide a breakdown between store expense and head office and warehouse expense, the latter two functions combined (see table 3). Too few in the other sizes separated these expenses to permit analysis.

1. The three size classes differed very slightly in gross profit from the average for all stores of 15.99 per cent of net sales. Operating expenses, however, were greater in ratio in the smaller stores to net them an operating profit of 1.20 per cent as compared to 1.97 per cent in the middle class and 2.84 per cent in the largest group.
2. Salaries paid to employees absorbed over half the operating expenses. Out of every $\$ 100$ sales an average of $\$ 7.96$ went to employees salaries, slightly less in the smaller firms and a fraction more in the two larger proups. Salaries paid to head office executive formed a smaller proportion of net sales on the average in larger firms than in the smaller, ranging from 1.80 per cent in the firms with 1947 sales less than $\$ 1,000,000$ to 0.36 per cent in the class with sales at $\$ 10,000,000$ and over.
3. The larger firms pald more proportionately for employees' benefits, taxes, advertising and travelling expenses while the other items decreased in ratio with sales volume.
4. The final net gain of the incorporated firms representing the two largest size classes, was reduced by income taxes to 1.62 per cent and 1.15 per cent of net sales from the operating profits of 2.84 per cent and 1.97 per cent.
5. Inventories were greater at the end of the year than at the beginning in all sizes. The average stock in combination chain stores in 1947 formed 4.95 per cent of net sales at the beginning and 6.49 per cent at the end of the year.
6. Stock turnover, based on the average of the two inventories divided into the cost of goods sold, averaged 14.7 times per year. This rate increased with volume of business from 10.7 times in the smallest to 14.9 times per year in the largest size group.
7. The sale of fresh meats affects certain items such as gross profit, stock turnover and some expense items. The percentage of stores selling meats in the groups was: largest size, 74 per cent; middle size, 62 per cent; smallest class, 91 per cent. The percentage of actual dollar volume of such sales is not known.
8. In the largest size firms (over $\$ 10,000,000$ ) for every $\$ 100$ net sales, head office and warehouse expense absorbed $\$ 3.97$ and store expense $\$ 9.18$ to make up a total operating expense of $\$ 13.15$.

One notable feature was the disproportionately large ratio of employees' benefits in head office and warehouses as compared to salaries. While store-employee salaries were 6,14 per cent of net sales head office and warehouse employees were 1.83 per cent, yet employees' benefits in the latter were only slightly lower - 0.11 per cent as compared to 0.13 per cent for store employees.

Table 2. - OPERATING RESULTS OF CONBINATION CHAINS, 1947
By Size of Firm

| Item | Under $\$ 1,000,000$ | $\begin{array}{\|} \$ 1,000,000 \\ \text { to } \\ \$ 4,000,000 \end{array}$ | $\$ 10,000,000$ and over | All sizes |
| :---: | :---: | :---: | :---: | :---: |
| Number of firms | 11 | 7 | 6 | 24 |
| Number of stores | 55 | 86 | 691 | 832 |
| Average sales per chain ..... \$ | 539,889 | 2,038,476 | 40,965,537 | 11,083,389 |
| Average sales per store ..... \$ | 107,978 | 165,923 | 355,707 | 319,713 |
| Average cost of goods sold .. \$ | 90,484 | 139,588 | 298,824 | 268,592 |
| Average inventory per store |  |  |  |  |
| Beginning of year ......... \$ | 7,418 | 8,946 | 17,336 | 15,813 |
| End of year ............... \$ | 9,528 | 10,803 | 22,862 | 20,735 |
| Stock turnover (times per year) | 10.7 | 14.1 | 14.9 | 14.7 |
|  | (Items expre | Profit and essed as per | Loss Data centage of | 3ales) |
| Gross margin or profit ........ | 16.20 | 15.87 | 15.99 | 15.99 |
| Operating expenses: |  |  |  |  |
| Salaries - executives | 1.80 | 0.84 | 0.36 | 0.42 |
| - employees | 7.56 | 7.97 | 7.97 | 7.96 |
| Employees' benefits .......... | 0.08 | 0.08 | 0.24 | 0.22 |
| Occupancy .................... | 1.18 | 1.11 | 0.86 | 0.88 |
| Taxes (1) .................... | 0.10 | 0.18 | 0.23 | 0.23 |
| Repairs (1) | 0.44 | 0.37 | 0.29 | 0.30 |
| Depreciation (1) ............ | 0.31 | 0.43 | 0.31 | 0.31 |
| Supplies .................... | 1.09 | 0.96 | 0.69 | 0.71 |
| Heat, light and power ....... | 0.32 | 0.31 | 0.27 | 0.27 |
| Advertisine | 0.42 | 0.47 | 0.51 | 0.51 |
| Travelling expense ......... | 0.06 | 0.08 | 0.09 | 0.09 |
| Communication ............... | 0.15 | 0.08 | 0.10 | 0.10 |
| Bad debt losses | 0.31 | 0.07 | (a) | 0.01 |
| All other expenses ........... | 1.18 | 0.95 | 1.23 | 1.22 |
| Total operating expenses ...... | 15.00 | 13.90 | 13.15 | 13.23 |
| Operating profit before income taxes $\qquad$ | 1.20 | 1.97 | 2.84 | 2.76 |
| Income tax .................... |  | 0.82 | 1.22 |  |
| Net profit ...................... |  | 1.15 | 1.62 |  |

(1) Excludes amount attributed to real estate which is included in occupancy.
(a) Less than 0.005 per cent.

Table 3. - OPERATINC EXIENGES OF COMBINATION CHAINS, 1947
Head office and warehouse compared with store expenses.

| Item | Head Office and Warehouse | Stores | Total |
| :---: | :---: | :---: | :---: |
| Operating expenses: |  |  |  |
| Salaries - executives | 0.36 | - | 0.36 |
| - employees | 1.83 | 6.14 | 7.97 |
| Employees' benefits | 0.11 | 0.13 | 0.24 |
| Occupancy | 0.15 | 0.71 | 0.86 |
| Taxes (1) | 0.08 | 0.15 | 0.23 |
| Repairs (1) | 0.06 | 0.23 | 0.29 |
| Depreciation (1) | 0.10 | 0.21 | 0.31 |
| Supplies ...... | 0.09 | 0.60 | 0.69 |
| Heat, light and power | 0.07 | 0.20 | 0.27 |
| Advertising ..... | 0.09 | 0.42 | 0.51 |
| Travelling expense | 0.09 | - | 0.09 |
| Communication | 0.06 | 0.04 | 0.10 |
| Bad debt losses | (a) | - | (a) |
| All other expenses .......... | 0.88 | 0.35 | 1.23 |
| Total operating expenses ...... | 3.97 | 9.18 | 13.15 |

(1) Excludes amount attributed to real estate which is included in occupancy.
(a) Less than 0.005 per cent.

## MEAT CHAINS.

In 1947, 11 meat market chains submitted satisfactory reports on operating costs, six of which were incorporated companies and five individual proprietorships or partnerships. These firms were divided into two sales-size groups for tabulation, under $\$ 500,000$ and $\$ 500,000$ and over with 5 firms operatins 25 outlets in the smaller and 6 firms with 63 stores in the larger size group. Too few firms divided executive and employee salaries to permit separate tabulation.

1. Gross profits of chain store meat markets were higher than those of other food chains, as were net profits. In the smaller class (under $\$ 500,000$ net sales in 1947) (ross profit on $\$ 100$ net sales was $\$ 21.05$, expenses $\$ 18.85$ resulting in operating profit of $\$ 2.20$. The margin - $\$ 20.36$ - was smaller in the larger sales group (over $\$ 500,000$ ), but the expense figure at $\$ 16.81$ was so much lower thet net profit in this group was greater than in the smaller sales class, $\$ 3.55$ on every $\$ 100$ of net sales.
2. Salaries and wages were proportionately greater in meat chains than in other food chains, reflecting the ereater amount of handing required in the sale of meat. Salaries at 11.28 per cent of net sales formed 65 per cent of total expenses. Smaller chains reported salary expense as a greater ratio (12.45\% of net sales) than the large size group ( $10,97, \%$ ).
3. The 3maller suze clasi of meat chains paje a greater ratio for most of the other expense items - advertisine, travel, communication and the all other expense category excepted - to net a profit, before income tax deduction, of 2.20 per cent as compared to one of 3.55 per cent for chains with sales volume of $\$ 500,000$ and over.
4. With comparatively small inventories - 1.92 per cent at beginnine, and 2.11 per cent of net sales at end of year - meat chains sold and replaced their stock approximately 40 times per year. The larger firms effected a greater rate of stock turnover than those with sales under $\$ 500,000$.

Table 4. - OPERATING RESULTS OF MEAT CHAINS, 1947
By Size of Firm

| Item | $\begin{aligned} & \text { Under } \\ & \$ 500,000 \end{aligned}$ | $\$ 500,000$ and over | $\begin{gathered} \text { All } \\ \text { sizes } \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| Number of firms | 5 | 6 | 11 |
| Number of stores | 25 | 63 | 88 |
| Average sales per chain ...... \$ | 311,601 | 989,621 | 681,430 |
| Average sales per store ...... \$ | 62,320 | 94,250 | 85,179 |
| Average cost of goods sold ... \$ | 49,203 | 75,056 | 67,711 |
| Average inventory per store |  |  |  |
| Beginning of year .......... \$ | 1,105 | 1,848 | 1,637 |
| End of year ................ \$ | 1,603 | 1,874 | 1,797 |
| Stock turnover (times per year). | 36.3 | 40.3 | 39.4 |

Profit and Loss Data
(Items expressed as percentage of net sales)

| Gross margin or profit | 21.05 | 20.36 | 20.51 |
| :---: | :---: | :---: | :---: |
| Operating expenses: |  |  |  |
| Salaries and wages | 12.45 | 10.97 | 11.28 |
| Employees' benefits | 0.14 | 0.16 | 0.16 |
| Occupancy . | 1.47 | 1.16 | 1.23 |
| Taxes (1) | 0.09 | 0.08 | 0.08 |
| Repairs (1) | 0.71 | 0.58 | 0.61 |
| Depreciation (1) | 0.78 | 0.38 | 0.46 |
| Supplies ..... | 1.30 | 0.96 | 1.03 |
| Heat, light and power | 0.61 | 0.33 | 0.39 |
| Advertising ... | 0.18 | 0.42 | 0.37 |
| Travelling expense | 0.03 | 0.17 | 0.14 |
| Communication ... | 0.18 | 0.20 | 0.19 |
| Bad debt losses | - | 0.01 | 0.01 |
| All other expenses | 0.91 | 1.39 | 1.29 |
| Total operating expenses | 18.85 | 16.81 | 17.24 |
| Operating profit before income taxes $\qquad$ | 2.20 | 3.55 | 3.27 |

(1) Excludes amount attributed to real estate which is included in occupancy.

