DOMINION BUREAU OF STATISTICS MERCHANDISING AND SERVICES STATISTICS

OTTAWA, CANADA

# OPERATING RESULTS 

AND

## GARAGES

1946

## BULLETIN NO 6

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#### Abstract

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## DEFINITIONS....................

NET SHLS represent the real volume of business done. Allowarces and discounts erented to customers and value of goods returned by customers ere deducted from gross seles, but seles of meals or lunches provided enployees and any goods withdrawn by the proprietor for personal use are incluaded.

GROSS MARGIN is the difference between the cost of merchandise sold and the selling price. The cost of merchandise sold is calculated by adding the beginning inventory to net purchases and deductine the ending inventory.

OPERATING EXPENSES are the amounts paid out for any and all expenses incurred in the operation of a business, except the cost of merchandise. These include:

> Selaries and weges - paid to employees before deduction of income taxes or unemployment insurance. proprietors' salaries or withdrawals are included in Net profit. Advertising
> Store supplies - used in the business curing the year wrappine paper, office supplies, gasoline and oll for delivery trucks.
> Loss on bad debts - during the year - amount written off Less debts which are recovered. Tazes and Insurance - business, property and water taxes, licences including truck licences, and insurance promiums carried for the protection of the business. Income taxes and other taxes collected for remittance to governmental bodies are not included.
> Rentals - monies paid for premises used only in the business. Heat, light and power expenses - amount peld for these used durine the year.
> Repairs and maintenance - incurred for the purposes of keeping fixed store assets, including delivery equipment, operating officiently.
> Depreciation - allowances to cover decreases in the value of fixed store assets, including dolivery equipment. occupency expense - comprises taxes and insurance, rent, heat, light and power, repairs and maintenance, and depreciation. Other expenses - telephone, telegraph, postage, bank charges, legal fees, collection and auditing fees, etc.

NEI PROFIT is the difference between gross marein and total expenses, and includes proprietors' selaries and withdrawals.

STOCK TURNOVER is the number of times in a yeer that the merchandise is sold and replaced. The average of the beginning and yeer onding inventories is divided into the cost of merchandise.

# OPERATING RESULTS OF FILLING STATIONS AND GARAGES 

ITTRONUCTIOS.

The operatine results of rotail filline stations anderaces in - 1946 are prosented in this report, mich cortinues tice serios of bulLeha... ublished for 1.944 anc 1945 . The survey ic besod upor operatine: statements contributed by a sample of firmis throughout the courtry. The sample included only unincorporated indepacut filline stations exa farafes.

Resulte of the two types of busirees are rrouped to provide a composite pieture of the trade. Tables and charts illustrate, clarify and facilitate understanime of the text. It is hoped that operetors, etudents, ard others, will consult these reports, wommeas of refererce and information.

Once eack year, at leost, the operator must ome to ${ }^{\text {arims }}$ with the tas of reviewire his operations, and calculatine ife experses कun profits. I.t the same tiae be may make plams for the coniag monthis, applyine his howiedec, experience, anc personal observations to int crease the erriciency of his tuainess. This bulletin has been propared for the parpoce of whetretime the operatur"s experience with wate wioh dearrbe thic operations or his own type did size of business

Our studies do not attempt to deal with such matters as store layout, advertisinz display, and salesmanship, which may be called methods of operation. The emphasis here is upon operating results, comparisons of profit and loss statements and their component parts.

The necessity of maintaining some orderly system of bookkeeping cannot be over-emphasized. If some method of current record keeping is not employed, it is difficult to compare individual operations with average experience as shown in this study. It is essential that the meanings of terms be checked in such comparisons. For this purpose a list of definitions has been inserted at the beginning of this bulletin.

The component parts of operating ratios are graphically portrayed in the following formula and bar chart:

NET SALES = COST OF GOODS SOLD + GROSS MARGIN


GROSS MARGIN = EXPENSES + NET PROFIT

## HIGHLIGHTS AND SUMMARY IN I946........

- The increase in salary expense of tijline státions and eurages in recent yeans has boen accompanied by somewhat lower net mefit percentue es for the year 1946.
- A. considerable increase in collar volune of sales in
filline stations hes occurred since 1944 and 1945
while €arages averace only slightly higher in 1946
than in the previous year.
- While uet mrofit ratios dropped off slicintly, the spurt in dollar volume of busiress transacted dave proprietors substantially ereater returns in ciollars.


## FIIIING STATIONS

1. In 1946, filling stations operated on an average eross margin of 18.2 per cent of net sales, slichtly wiaer than the 1945 eross margin of 17.9 per cent and considerably better than the 16.5 per cent marein of 1944. Increaseă experises, especially in salaries puid employees, more than balanced the gein in gross margin to leave a net profit of 6.7 per cent in 1946 . a ratio lower then the two previous years. (See Tbble l, page 6).
2. Winile no definite trend was evidenced in 1946 in the ratios of eross hiarein to net sules over the different size ranees, oct profits decreased in percentace with volume of business. Deflectine tie trend of salaries, total expense ratios increased with sales volune in both owned and rented stores. ( Wee Table J, pare lí).
3. Hiiling stetions onereteu fron rented prenises obtiinea vicer eross rargins than wid those operatint fron owneu prediises. Salaries and occuparoy expenses in rerted businesses, however, were eanerelly sreater to oriset the suvantace ir rose marein. (see Table 3, pace ľ).

TABL: 1. - OPERATNC RESUITS OF FILIING STATICNO - 1944 , 1945, 1946

(Iteris expressed as percentages of net skies)

## GREAGIS

1. Very little change took place in the gross marein ratio of the average garace in the group sampled between 1945 und 1946. The ratios were, $\dot{2} 7.7$ per cent in $1946,<7.9$ in 1945 , and $\overline{6} 6.7$ per cent in 1944. Selury expense increased in 1946 to net a reduced profit of $\varepsilon . \varepsilon$ per cent compared with one of 9.3 per cerit in 1945. (See Table \&, below).
2. The gross margin ratio was irregular in 1946 over the size classes shown. Net profits followed an even trend of decreasine ratio as volurue of business expanded. Śalaries were inuch ereater proportionately in the lareer stores and accounted for a trend in total expense ratio increasine with sales volurie. (See Table 4, page 15).

THBLE E. - OFERTTNC RESULTS OF CARGGFS - $1944,2945,1946$

(Itens expressed as percentages of net sales)

## OPERATIONS OF FILLING STATIONS AND GARAGES.

GEOS NHCIN HD IET HROHT

Gross margins in filling stationt, while loss tian the laje ratio, have increased moderately since 1941 to a ratio le.: per cent of net sules in 1946. Net profits were lifhest in 1944 and in the post-war period seem to be reverting to the pre-war levels. Garages have disclosed much the same trend in operations. Gross margins were ereater in 1946 than in 1944 but were still below the lese level. Net profit retios have decreased from the hicher levels obtaineu in 1944 and 1945. Because of the ereater service factor, caraees operated on wider mareins thari did filline stations - 27.7 per cent and $18 . \dot{\text { en }}$ per cent respectively.

GHOSS MARGIT 1 D NET FROFIT - 1938, 1941, 1944, 1945, 1946

| Year | FILIING STATIONS |  | CARACES |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Gross } \\ & \text { lvarein } \end{aligned}$ | $\begin{aligned} & \text { Net } \\ & \text { Profit } \end{aligned}$ | $\begin{aligned} & \text { Gross } \\ & \text { Murgin } \end{aligned}$ | $\begin{aligned} & \text { Vet } \\ & \text { Frofit } \end{aligned}$ |
| 1938 | 21.6 | 6.2 | 33.1 | 5.7 |
| 1941 | 16.9 | 6.6 | 1 not | bie) |
| 1944 | 16.5 | 7.3 | 26.7 | 9.0 |
| 1945 | 17.9 | 7.1 | ¢7.9 | 9.3 |
| 1946 | 18.2 | 6.7 | 27.7 | 8.8 |

AVETACE GITH, STOCL-SITEU RUT1OS, GTOCH TUROVER:

The \&verafe ret sales of filling statione increasea corsiatrubly from Wh7,141 in 1920 to 42,279 in 1946. The Ereatest chance took place betweer 1344 and 1346 where the canse was no doubt partly due to the termination of easoline and tire rationing. Garages on the other harid, were more moderate in sales growth.

Because of the nature of the main comudodty hanaled, filline stations effected a nuick tumover of merchandise - ce. 3 times per year as somprea to a rate of 1.1 .4 tines in Earages. Couplod with the accelerated turnover rate, inventoriee on hand in filling stations at the beeinning or end of cny ytar \&t no time exceecied 4.0 per cent of net sales uhrime the year. The stock held by earages raneed between 5.6 ard 7.7 per cent of annual net sales over the years on which such information is uvailable.

MERHGE MALEU, GTOCK -MUEN ETIOS, STOCK IURNOVEK -
1936, 1941, 1944, 1945, 1946


# GENERAL DISCUSSION, TABLES AND CHARTS. 

## 1. FILLINC STITONS

Hilline stotions are enceqea principally in sellinc fasoline and oil, accessories, tires, and thbes. To remain in this clasisificetion, repaire camnot form nore than ¿j per cent of het seles and Gasoline und oil must account for 75 per cert ot total dierchanaise sales. The results of 479 incependent linincorporatec lilline stations were usea in this study. nher classifiea by siate of busirusis arid occupancy, there were too few establishanits in owned premises with ret sales over 100,000 ana in rented premises with sales less than \$10,000 to warrant publication.

## Trends by Size of Business (Table 3, pate 1i)

Gross merejns in both owned enc rentec filline stations in 1946 fluctluted betweer close limits over the size categoried uhown from 17.1 to 18.7 per cent of net sules with no ciefinite trend. Net profits jri owned stations raneed from 10.9 per cent in the smallest size to 6.9 in the lereest and from 9.9 to 4.8 por cont in rented establishments, decreasing in ratio with business volurie.

The trend of totel exrerses, incressimg in ratio with volume of sales, reflected the pettern of saleries which, on the avertace, \&ccounted for hiclf the an:ount of the totsl. Inventories, while relatively small when compered to other kinds of business, were iri Ereater dollar volume at the end of 1946 than at the begiming. The IEte of stock turnover rarifed from 10.4 times in the smallest size rilling station to 47.4 times per year in the businesses whose sales were over $\$ 100,000$.



PROFIT MTD LONS DATA
(Items Bxpresseu as Pereentages of ret sules)


[^0]
## 2. Ohange

Guruges used in this survey are those whone total sules conmrise more then 50 per cent merchamaise ssles, und weludes those "service" furafes where receipts from repair work predominate. bealur eareees (selline notor vehicles) are dlso excluded from this study.

Usable reports vere receiveu trom ¿عク such farages. When these were classifiea accordine to size of business and occupancy, there were too few, both owiea and rentea, ix the size class of *LCC, COO sales and over anu in rented furaces with sales less than \$10,000 to allow presentation. of results as represcostative of the size \&nd occupency Eroup.

## Treris by Size of Business (Bee Tuble 4. page 15)

A varyine enourt of service work, within the linits mescribed for this closeification, ro donbt acconnted for sone of the irreeularity in the trend in Exoss mareir over the different size catefories. Net profit rutiow mere dore consistent in trend, decressing with erostez sales volume. Due to a eertain anount of service work, salirius puid to mmloyees in f゙arafes were greater in ratso to net sales than most other retwil blisinesses. They ranced tron 5.9 per cosit in the 3milest size Earafe to $12 . \varepsilon$ per cent in the lergest. Totul expenses were raturally offected by this large selary expense and followed the same trend, increasirg in ratio with sales volume.

Etocks on hand at the end of the year exceeded in dollar volume those ield at, the beginsing in each aize und oceupancy oless. The rate of turnover increased from 4.9 tirese in the snimllest size cluss to 18.5 tines per year in the lurgest size eurafe.

## OPERATING RESULTS

OF
RETAIL GARAGES

GROSS MARGIN = NET PROFIT + SALARIES + OTHER EXPENSES


RENTED STORES




## STATISTICS CANADA LIQRAR




[^0]:    (a) Less than C.05 per cent.

