658.87 C16n D 1946, no.6.

Published by Authority of the Rt. Hon. C. D. Howe, M.P., Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS

MERCHANDISING AND SERVICES STATISTICS

OTTAWA, CANADA



OF

RETAIL FILLING STATIONS

AND

GARAGES

1946

BULLETIN NO 6



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DEFINITIONS.....

- NET SALES represent the real volume of business done. Allowances and discounts granted to customers and value of goods returned by customers are deducted from gross sales, but sales of meals or lunches provided employees and any goods withdrawn by the proprietor for personal use are included.
- 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 deducting 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:
 - Salaries and wages 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 during the year wrapping paper, office supplies, gasoline and oil for delivery trucks.
- Loss on bad debts during the year amount written off
 Less debts which are recovered.
- Taxes and Insurance business, property and water taxes, licences including truck licences, and insurance premiums 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 paid for these used

 during the year.
- Repairs and maintenance incurred for the purposes of keeping fixed store assets, including delivery equipment, operating efficiently.
- Depreciation allowances to cover decreases in the value of fixed store assets, including delivery equipment.
- Occupancy 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.
- NET PROFIT is the difference between gross margin and total expenses, and includes proprietors' salaries and withdrawals.
- STOCK TURNOVER is the number of times in a year that the merchandise is sold and replaced. The average of the beginning and year ending inventories is divided into the cost of merchandise.

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Series, 1946 No. 17 16-7060

OPERATING RESULTS OF FILLING STATIONS AND GARAGES

INTRODUCTION

The operating results of retail filling stations and garages in "1946 are presented in this report, which continues the series of bulteting published for 1944 and 1945. The survey is based upon operating statements contributed by a sample of firms throughout the country. The sample included only unincorporated independent filling stations and garages.

Results of the two types of business are grouped to provide a composite picture of the trade. Tables and charts illustrate, clarify and facilitate understanding of the text. It is hoped that operators, students, and others, will consult these reports as sources of reference and information.

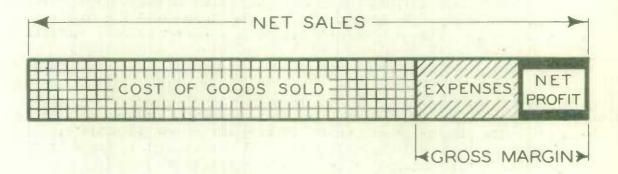
Once each year, at least, the operator must come to grips with the task of reviewing his operations, and calculating his expenses and profits. At the same time he may make plans for the coming months, applying his knowledge, experience, and personal observations to increase the efficiency of his business. This bulletin has been prepared for the purpose of augmenting the operator's experience with data thich describe the operations of his own type and size of business.

Our studies do not attempt to deal with such matters as store layout, advertising 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 book-keeping 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 1946.....

- The increase in salary expense of filling stations and garages in recent years has been accompanied by somewhat lower net profit percentages for the year 1946.
- A considerable increase in dollar volume of sales in filling stations has occurred since 1944 and 1945 while garages averaged only slightly higher in 1946 than in the previous year.
- While net profit ratios dropped off slightly, the spurt in dollar volume of business transacted gave proprietors substantially greater returns in dollars.

FILLING STATIONS

- 1. In 1946, filling stations operated on an average gross margin of 18.2 per cent of net sales, slightly wider than the 1945 gross margin of 17.9 per cent and considerably better than the 16.5 per cent margin of 1944. Increased expenses, especially in salaries paid employees, more than balanced the gain in gross margin to leave a net profit of 6.7 per cent in 1946, a ratio lower than the two previous years. (See Table 1, page 6).
- in the no definite trend was evidenced in 1946 in the ratios of gross margin to net sales over the different size ranges, not profits decreased in percentage with volume of business. Reflecting the trend of salaries, total expense ratios increased with sales volume in both owned and rented stores. (See Table 5, page 12).

5. Filling stations operated from rented premises obtained wider gross margins than did those operating from owned premises. Salaries and occupancy expenses in rented businesses, however, were generally greater to offset the advantage in gross margin. (See Table 3, page 12).

TABLE 1. - OPERATING RESULTS OF FILLING STATIONS - 1944, 1945, 1946

Item	1944	1945	1946
Number of stations reporting & Average net sales & Gross margin Operating expenses: Employees' salaries and wages Advertising Store supplies Bad debts Occupancy expense	241 22,904 16.5 3.7	515 32,492 17.9 5.0 0.2 0.7 0.1 5.8 3.7	479 42,279 18.2 6.0 0.2 0.7 0.1 5.5 3.4
All other expenses	9.2	10.8	11.5
proprietors' salaries and income tax	7.3	7.1	6.7

(Items expressed as percentages of net sales)

OPERATIONS OF FILLING STATIONS AND CARACICS

CARAGES

- 1. Very little change took place in the gross margin ratio of the average garage in the group sampled between 1945 and 1946. The ratios were, 27.7 per cent in 1946, 27.9 in 1945, and 26.7 per cent in 1944. Salary expense increased in 1946 to net a reduced profit of 8.8 per cent compared with one of 9.3 per cent in 1945. (See Table 2, below).
- 2. The gross margin ratio was irregular in 1946 over the size classes shown. Net profits followed an even trend of decreasing ratio as volume of business expanded. Salaries were much greater proportionately in the larger stores and accounted for a trend in total expense ratio increasing with sales volume. (See Table 4, page 15).

TABLE 2. - OPERATING RESULTS OF GARAGES - 1944, 1945, 1946

Item	1944	1945	1946
Number of garages reporting	165 25,769 26.7	240 34,525 27.9	28' 36,136 27.'
Operating expenses: Employees' salaries and wages Advertising	9.1	10.0	0.3
Store aupplies	8.6	0.2 8.6 5.1 2.0	0.3 4.6 1.7
Total operating expenses Net profits before deduction of proprietors' salaries and income tax	17.7	18.6	18.

(Items expressed as percentages of net sales)

OPERATIONS OF FILLING STATIONS AND GARAGES.

GROUS LIRCIN AND NET PROFIT

Gross margins in filling stations, while less than the 1938 ratio, have increased moderately since 1941 to a ratio 18.2 per cent of net sales in 1946. Net profits were highest 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 greater in 1946 than in 1944 but were still below the 1938 level. Net profit ratios have decreased from the higher levels obtained in 1944 and 1945. Because of the greater service factor, garages operated on wider margins than did filling stations - 27.7 per cent and 18.2 per cent respectively.

GROSS MARGIN AND NET PROFIT - 1938, 1941, 1944, 1945, 1946

ELENE PRESENTED IN	FILLING	STATIONS	GARACES			
Year	Gross Margin	Net Profit	Gross Margin	Net Profit		
1938	21.6	6.2	33.1	5.7		
1941	16.9	6.6	(not ava	(not available)		
1944	16.5	7.3	26.7	9.0		
1945	17.9	7.1	27.9	9.3		
1946	18.2	6.7	27.7	8.8		

AVERACE SALES, STOCK SALES RATIOS, STOCK TURNOVER:

The average net sales of filling stations increased considerably from \$27,141 in 1958 to \$42,279 in 1946. The greatest change took place between 1944 and 1946 where the cause was no doubt partly due to the termination of fasoline and tire rationing. Carages on the other hand, were more moderate in sales growth.

Because of the nature of the main commodity handled, filling stations effected a quick turnover of merchandise - 26.3 times per year as compared to a rate of 11.4 times in garages. Coupled with the accelerated turnover rate, inventories on hand in filling stations at the beginning or end of any year at no time exceeded 4.0 per cent of net sales during the year. The stock held by garages ranged between 5.6 and 7.7 per cent of annual net sales over the years on which such information is available.

AVERAGE SALES, STOCK SALES RATIOS, STOCK TURNOVER -

1938, 1941, 1944, 1945, 1946

	GARACES							
year	Average net sales	lnven % of ne Begin- ning		Stock turn- over	Average net sales	Invent of net Begin- ning	-	Stock turn- over
	\$	11 11 11 11	A A A A A A A A A A A A A A A A A A A		Ÿ			
1938	27,141	3,6	5.6	81.8	25,798	6.6	6.7	9.9
1941	29,704	٤7	3,1	28.9	(1	ot avails	ble)	
1944	£1,904	2.9	3.2	27.5	25,769	6.8	7.7	10.1
1945	32,492	3.2	3.9	23.1	34,525	5.7	6.9	11.4
1946	42,279	2.8	3.4	26.3	36,136	5.6	7.1	11.4

GENERAL DISCUSSION, TABLES AND CHARTS.

1. FILLING STATIONS

Filling stations are engaged principally in selling gasoline and oil, accessories, tires, and tubes. To remain in this classification, repairs cannot form more than 25 per cent of net sales and gasoline and oil must account for 75 per cent of total merchandise sales. The results of 479 independent unincorporated filling stations were used in this study. When classified by size of business and occupancy, there were too few establishments in owned premises with net sales over \$100,000 and in rented premises with sales less than \$10,000 to warrant publication.

Trends by Size of Business (Table 3, page 12)

Gross margins in both owned and rented filling stations in 1946 fluctuated between close limits over the size categories shown - from 17.1 to 18.7 per cent of net sales with no definite trend. Net profits in owned stations ranged from 10.9 per cent in the smallest size to 6.9 in the largest and from 9.9 to 4.2 per cent in rented establishments, decreasing in ratio with business volume.

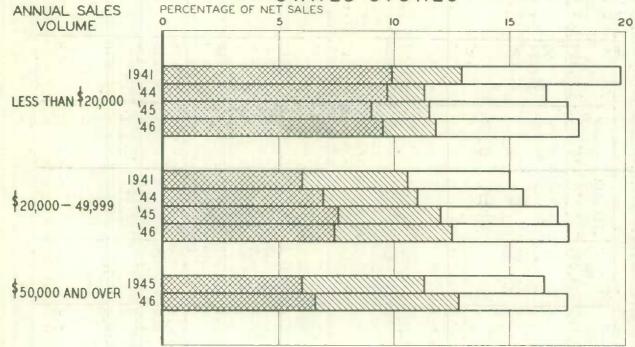
The trend of total expenses, increasing in ratio with volume of sales, reflected the pattern of salaries which, on the average, accounted for half the amount of the total. Inventories, while relatively small when compared to other kinds of business, were in greater dollar volume at the end of 1946 than at the beginning. The rate of stock turnover ranged from 13.4 times in the smallest size filling station to 47.4 times per year in the businesses whose sales were over \$100,000.

CHART NO. I

OPERATING RESULTS OF RETAIL FILLING STATIONS

GROSS MARGIN=NET PROFIT + SALARIES + OTHER EXPENSES





RENTED STORES

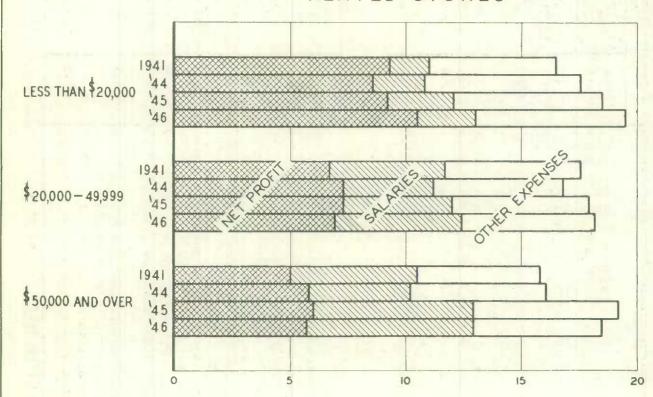


Table 5.--Filling Stations - Operating Results Classified According to Amount of Annual Sales and Occupancy Basis, Canada, 1946

			ED STOR					TED STO		
ltem (1)	Under \$10,000	to	\$20,000 to \$49,999	to	\$100,000 and Over		to	\$20,000 to \$49,999	to	\$100,000 and Over
Number of stations reporting	£0 7,538 6,214 408 521 13.4	46 15,511 12,702 911 965 13.5	90 32,034 26,387 1,195 1,519 19.4		SAMPLE	SALFIE	52 16,054 13,054 680 723 18.6	146 34,663 28,369 957 1,154 26.9	89 68,579 55,770 1,441 1,786 34.6	156,606 111,995 2,061 2,663 47.4
Average net profits	820 21	1,428	2,380 99	4,706 40			1,595	2,379 164	4,255	5,689 16
			(Items		ROFIT AND			Sales)		
Cross margin	17.6 0.2 0.1 1.2 0.2 0.8 - 1.5 1.0 0.8 0.9	18.1 2.7 0.2 1.0 0.1 1.0 - 1.4 0.8 0.9 0.8	0.1 6.7 - 0.9 0.7 0.7	0.7 0.1 0.6 - 0.6 0.4 0.5	TOO	TCO SNAIL	18.7 2.6 0.2 0.6 0.1 0.6 1.9 1.1 0.4 0.3	5.5 0.2 0.7 0.1 0.5 1.8 0.8 0.3	18.7 6.9 0.3 0.6 0.1 0.5 1.8 0.6 0.3 0.3	18.0 8.1 0.2 0.3 (a) 0.6 2.3 0.5 0.2
Total operating expenses Net profits before deduction of proprietors' salaries and income tax	10.9	8.9		10.2			9.9		12.5	4.

⁽a) Less than 0.05 per cent.

E. GARLOES

Carages used in this survey are those whose total sales comprise more than 50 per cent merchandise sales, and excludes those "service" garages where receipts from repair work predominate. Dealer garages (selling motor vehicles) are also excluded from this study.

Usable reports were received from 287 such garages. When these were classified according to size of business and occupancy, there were too few, both owned and rented, in the size class of \$100,000 sales and over and in rented garages with sales less than \$10,000 to allow presentation of results as representative of the size and occupancy group.

Trends by Size of Business (See Table 4, page 15)

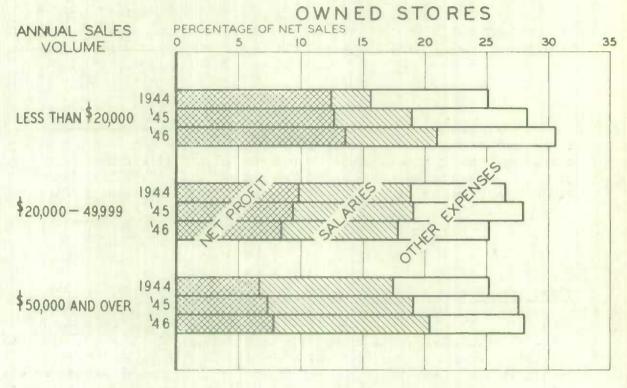
A varying amount of service work, within the limits prescribed for this classification, no doubt accounted for some of the irregularity in the trend in gross margin over the different size categories. Net profit ratios were more consistent in trend, decreasing with greater sales volume. Due to a certain amount of service work, salaries paid to employees in garages were greater in ratio to net sales than most other retail businesses. They ranged from 5.9 per cent in the smallest size garage to 12.8 per cent in the largest. Total expenses were naturally affected by this large salary expense and followed the same trend, increasing in ratio with sales volume.

Stocks on hand at the end of the year exceeded in dollar volume those held at the beginning in each size and occupancy class. The rate of turnover increased from 4.9 times in the smallest size class to 18.5 times per year in the largest size garage.

CHART NO. 2

OPERATING RESULTS OF RETAIL GARAGES

GROSS MARGIN = NET PROFIT + SALARIES + OTHER EXPENSES





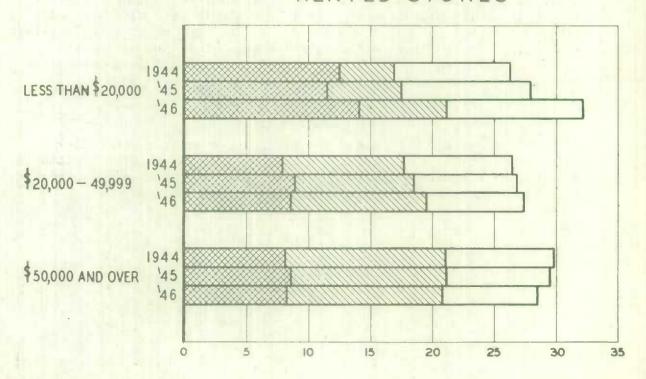


Table 4. -- Garages - Operating Results Classified According to Amount of Annual Sales and Occupancy Basis, Canada, 1946

		OWNED	STORES			RENTED	STORES	
Item	Under \$10,600	\$10,000 to \$19,999		\$50,000 to \$99,999	Under \$10,000	\$10,000 to \$19,999	\$49,999	\$50,000 to \$99,999
Number of garages reporting	6,851 4,410	47 14,747 10,464	78 31,400 25,472	24 68,046 48,858		13 14,575 9,880	56 54,454 25,021	67,165 48,165
Average inventory beginning of year \$ Average inventory end of year \$ Stock turnover (times per year)	809 979 4.9	1,282 1,608 7.2	2,212 2,672 9.6	3,968 4,546 11.5	SAMPLE	1,156 1,666 7.0	1,649 2,157 13.1	2,328 2,878 18.5
Average net profits	1,270	1,780 54	2,643 92	4,896 32		2,049	2,975 70	5,880 41
		(It	tems Expre	PROFIT AND			les)	
Gross margin Operating expenses:	35.6	29.0	25.2	28.2		32.2	27.4	28,5
Employees' salaries and wages	5.9	7.8	9.4	12.8		7.1	10.9	12.0
Store supplies	1.8	1.4	1.1	0.9	TOO	1.1	1.1	1.0
Taxes and insurance	1.6	1.2	1.1	1.1		1.0	0.8	0.9
Tight hest and nover	2.5	1.5	1.1	1,0		1.3	1.0	1.0

Light, heat, and power 2.5 0.5 1.2 0.6 0.9 0.8 1.3 Repairs and maintenance 1.5 0.8 0.6 1.2 1.2 1.2 1.6 1.6 Depreciation 1.9 1.6 1.8 1.6 1.4 1.4 1.6 All other expenses SAMPLE 18.8 19.8 16.8 20.1 18.1 17.0 17.1 Total operating expenses Net profits before deduction of proprie-14.1 8.6 8.7 8.1 18.5 12.0 8.4 tors' salaries and income tax

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