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The Alberta Bureau of Statistic DEPARTMENT OF INDUSTRIES AND LABOR

HON. R. REIERSON Minister

FOREWORD

This book let has been prepared to interest officials of industrial and commercial firms in the possibilities of establishing manufacturing plants and commercial outlets in the Province of Alberta.

Graphically presented, it is easy to see at a glance the development which has taken place in the province, particularly since the end of the war.

The subjects chosen for presentation, as reference to the table of contents below will confirm, are those which reveal most readily the increasing volume of business in recent years, the assured basis of the economic structures of the province, and the development which has taken place in the primary and secondary industries. The statistical data used in the preparation of tables and graphs have been taken, where possible, from Dominion Bureau of Statistics publications. Other sources were the Research Council of Alberta, The Alberta Power Commission, Oil & Gas Conservation Board, and the Alberta Bureau of Statistics.

Published by

The Industrial Development Branch DEPARTMENT OF ECONOMIC AFFAIRS

HON, A. R. PATRICK		R. R. MOORE
Minister	R. MARTLAND	Deputy Minister
Minister	Director of Industrial Development	

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J. E. OBERHOLTZER Deputy Minister

NET VALUE OF PRODUCTION

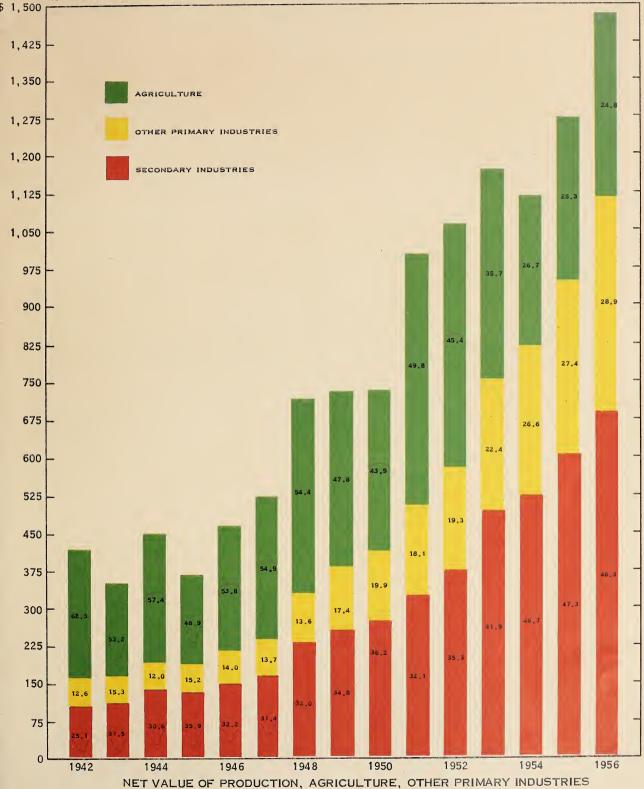
Net production of "value added" is generally considered the most significant measure of production. The net value of production of an industry measures only the value added by that industry to total production. This measure is obtained by deducting the cost of materials, fuel, purchased electricity and process supplies consumed in the production process from the total value of output.

Agriculture, mining, fishing, trapping, lumbering, and the generation of electricity are primary industries; manufacturing and construction the secondary industries. Because of the historical importance of agriculture in the province its net value of production is shown separately on the graph.

NET VALUE OF PRODUCTION AGRICULTURE, OTHER PRIMARY INDUSTRIES, AND SECONDARY INDUSTRIES ALBERTA, 1942-1956						
Agricul	ture er Cent	Other Prime	Per Cent	Secondary	Industries Per Cent	Total
\$ '000 0		\$ '000	of Total %	\$ '000	of Total %	\$ '000
1942 259,749	62.3	52,538	12.6	104,480	25.1	416,767
1943 186,755 1944 258,301	53.2 57.4	53,761 54,075	15.3 12.0	110,797 137,416	31.5 30.6	351,313 449,792
1945 179,091	48.9	55,657	15.2	131,548	35.9	366,296
1946 248,804	53.8	64,862	14.0	148,735	32.2	462,401
1947 286,080 1948 389,090	54.9 54.4	71,192 97,629	13.7	163,290 229,124	31.4 32.0	520,562 715,843
1949 349,455 1950 322,320	47.8	126,898 145,935	17.4	254,681 265,893	34.8 36.2	731,034 734,148
1951 500,210 1952 481,649	49.8	181,371 204,760	18.1	321,838 373,843	32.1 35.3	1,003,419
1953 417,895	35.7	261,807	22.4	491,041	41.9	1,170,743
1954 298,657 1955 322,215	26.7 25.3	296,811 348,539	26.6 27.4	522,225 602,422	46.7 47.3	1,117,693 1,273,176
1956 368,000	24.8	429,110	28.9	687,419	46.3	1,484,529

On a per capita basis net value of production in Alberta rose from \$537 in 1942 to \$1322 in 1956. Total net value of production rose from \$416.8 in 1942 to \$1484.5 million in 1956.

The trend has been for the proportionate net value of production of other industries to increase at the expense of agriculture over the period. Agriculture accounted for 62 per cent of the production of new wealth in 1942: for only 25 per cent in 1956. The section of the table on net value of production of the agricultural industry shows the violent year to year fluctuation in dollar values. This compares with a more "normal" and orderly growth of the other primary and secondary industries. Over the period 1942 to 1956, net value of mining (coal and petroleum mainly) production increased from 13 per cent to 26 per cent: and that of manufacturing and construction increased from 25 per cent to 46 per cent of the total.



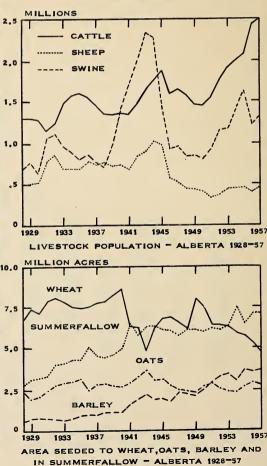
AND SECONDARY INDUSTRIES, ALBERTA, 1942-1956

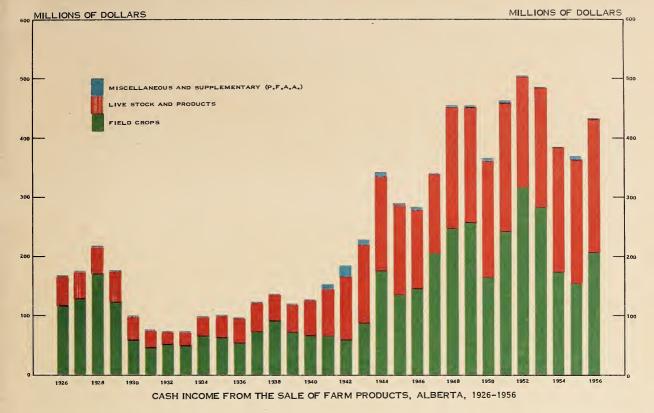
	Cash Income from the Sale of Farm Products, Alberta, 1926–1956					from Farming O berta, 1926–195	
1926 1931 1936 1941 1946 1951	Total Crops 116, 557 45, 142 53, 140 66, 289 147, 040	Total Live- stock & Products thous a 49, 148 28, 464 42, 776 78, 617 133, 163	Miscellaneous & Supplemen- tary PFAA ind dollar 147 133 179 7,899 4,672	Income 165,852 73,739 96,095 152,805 284,875	Gross Income - th 184,667 91,568 95,801 154,873 317,884	Operating & Depreciation Charges to us and doll 87,648 81,284 78,215 88,407 137,176	Total Net Income ars – 97,019 10,284 17,586 66,466 180,708
1951 1952 1953 1954 1955 1956	243,514 318,741 283,795 173,534 155,415 208,091	216,210 186,101 202,450 212,476 209,478 224,632	4,460 2,577 789 1,266 6,013 1,559	464,184 507,419 487,034 387,276 370,906 434,282	626,383 617,560 554,336 433,991 461,525 526,814	233,969 257,711 253,563 242,327 251,926 261,321	392,414 359,849 300,773 192,695 215,375 266,812

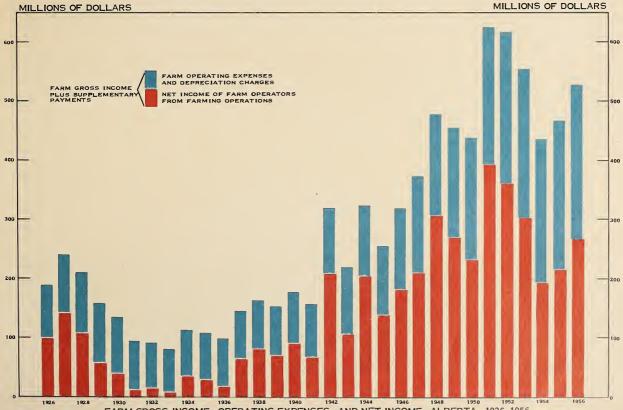
Alberta's agricultural resources provide for the production of a wide variety of food stuffs. Wheat is 2.5 still the most important cash crop while beef and pork are the principal meats produced. However, dairying, poultry, sheep raising, fur farming and apiculture 2.0 are important. The production of sugar beets, fresh vegetables for the trade, canning and freezing, forage crop seeds, mustard seed, etc, are growing in impor- 1.5 tance. In general, the choice of farm enterprises is based principally upon differences in soil fertility, precipitation and the length of the growing season. ^{1.0}

Wheat production predominates in semi-arid regions, notably in southern and eastern sections. Ranch-.5 ing, a type of specialty live stock raising, is confined to the foothills and extreme southeast areas. The fertile central belt including grey wooded soils on the west and north, are devoted to various combinations of field crops and live stock production. In the Peace River country, wheat and wheat combinations includ-10.0 ing seed production and live stock, predominate.

The accompanying graph on cash income from the sale of farm products illustrates the changing source of ^{7.5} cash income. In 1926 cash income from field crops comprised 70.2 per cent of total cash income as compared with 47.9 per cent in 1956. Cash income from ^{5.0} livestock and products accounted for only 29.6 per cent of total cash income in 1926 and increased to 51.7 per cent of the total in 1956. Net income of farm ^{2.5} operators from farming operations as shown by the second graph rose from a low of \$6.0 million in 1933 to a high of \$392.4 million in 1951. Operating expenses rose from \$72.7 million in 1933 to \$261.3 million in 1956.







FARM GROSS INCOME, OPERATING EXPENSES, AND NET INCOME, ALBERTA, 1926-1956

	V	ALUE O	F MINE	ERAL PROI	DUCTION	V	
Ontario, (Quebec,	Alberta,	Other	Provinces	and Tota	al Canada,	1943-1957

	Ontario	Quebec	Alberta	Other Provinces	Total Canada
		5		FIOVINCES	S Canada
1943	232,948,959	101,610,678	48,941,210	146,553,119	530,053,966
1944	210,706,307	90,182,553	51,066,662	133,863,592	485,819,114
1945	216,541,856	91,518,120	51 , 753 , 237	138,941,968	498,755,181
1946	191,544,429	92,785,148	60,082,513	158,404,161	502,816,251
1947	249,797,671	115,151,635	67,432,270	212, 488, 399	644,869,975
1948	294,239,673	152,038,867	93,211,229	280,759,096	820, 248, 865
1949	323,368,644	165,021,513	113,728,425	298,991,444	901,110,026
1950	366,801,525	220, 176, 517	135,758,940	322,713,091	1,045,450,073
1951	444,667,203	255, 530, 071	168,144,211	377,142,110	1,245,483,595
1952	444,669,412	270,483,962	196,811,654	373,377,325	1,285,342,353
1953	465,877,093	251,881,781	248,863,295	369,681,334	1,336,308,503
1954	496,747,571	278,818,070	279,042,735	433,773,715	1,488,382,091
1955	583,954,682	357,010,045	325,974,326	528,371,743	1,795,310,796
1956	650,823,362	422, 464, 410	411, 171, 898	600, 445, 884	2,084,905,554
1957	739,219,218	384, 465, 152	411,960,822	598,295,895	2,133,941,087

As indicated on the accompanying graph and in the table above, the province of Alberta ranked second in 1957 among the provinces of Canada in the value of mineral production. This value increased from \$48.9 million in 1943 to \$412.0 million in 1957, a 1,188 per cent increase over the fourteen year period.

The increasing contribution being made by Alberta to the total value of mineral pro-

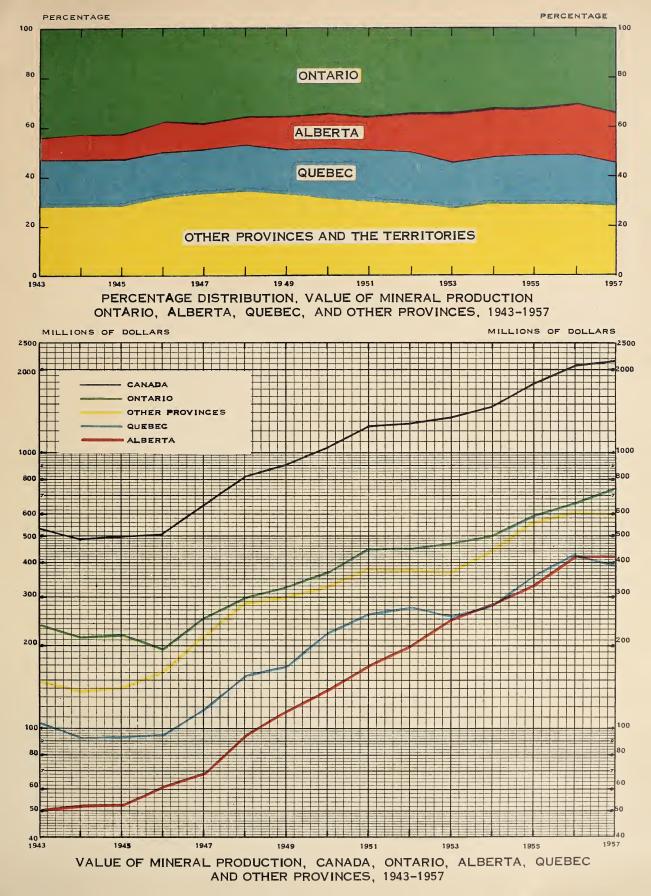
duction of Canada is shown on the accompanying graph. In 1943 the Alberta portion amounted to 9.2 per cent; this had increased to 19.3 per cent by 1957. The rapid increase in the value of mineral production from \$67.4 million in 1947 to \$412 million in 1957 – is attributable mainly to the development of Alberta petroleum resources.

In the table to the right are shown the comparative values of various minerals produced in the years 1943 and 1957.

The province has long been noted for its vast reserves of coal, which are estimated to exceed

Value o	of Mineral	Production
Alber	'ta, 1943 a	nd 1957
	1943	1957
	Value	
	Millions	of dollars
Coal	\$24.0	\$ 17.7
Natural Gas	6.2	13.2
Crude Petroleum	15.7	359.4
Clay Products	1.0	2.6
Cement	1.2	8.8
Lime	.2	.6
Sand & Gravel	.3	8.5
Salt	.3	.9

46,562 million tons. Accessible carbonate rocks, which outcrop along the frontal ranges of the Rocky Mountains, are presently used in the manufacture of cement, lime, poultry feeds, and roofing materials. Clay and shale deposits of varying quality are widespread but to date they have been used mainly in brick and tile manufacture at Medicine Hat and Edmonton. Large gypsum deposits have been found in northern Alberta. Salt beds extend from Fort McMurray in northern Alberta. Deposits of lead, zinc, and iron (siderite) have been located but not fully evaluated. It has been estimated that the bituminous sands on the Athabasca River hold reserves of from one hundred to three hundred billion barrels of crude oil.



ENERGY RESOURCES

Alberta possesses immense energy resources particularly in fossil fuels and it is in this province that Canada's fuels are concentrated. These fuels include coal, petroleum, natural gas, natural gas liquids and the Athabasca Oil Sands, and their quantities together with Canadian totals and the provincial to national ratios are shown below:

	Total Available Energy (Expressed in trillions December 31, 19	of Btu's)	
	Alberta	Canada	Percent Alberta
Natural Gas Natural Gas Liquids Petroleum Oil Sands Coal	21,000 1,940 18,000 626,000 1,158,190	26,000 2,430 20,900 626,000 2,390,000	81.0% 79.5% 86.3% 100.0% 48.5%

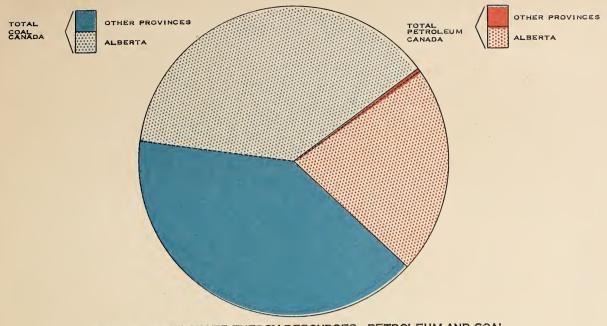
The giant among these energy resources is coal and it strongly dominates the fuel field. Alberta's share of this primary resource is estimated at 48 billion tons of mineable coal or approximately 48 per cent of Canada's total coal reserve. The coals of Alberta range in rank from lignite to semi-anthracite and are suitable for the generation of electrical energy, for space and process heating, for railway locomotives and also for the production of synthetic liquid and gaseous fuels and chemicals.

While the reserves of liquid and gaseous petroleum fuels are overshadowed by those of coal, they are none the less of great magnitude and here Alberta possesses the major share of the entire Canadian reserves. The highly convenient form of these fuels and their intensely vital role in today's industrial era places Alberta in a uniquely fortunate position in the competition for industrial expansion. The increasingly large supplies of western Canada crude oil have enabled Canada to improve its oil self-sufficiency position during the past 10 years from less than 10 per cent to over 65 per cent in spite of a three-fold increase in domestic demand for petroleum fuels. The rise in importance of petroleum and natural gas as energy sources is evident.

In addition to reserves of crude petroleum, Alberta has enormous potential reserves of oil in the Athabasca Oil Sands. There have been many estimates with respect to the amount of oil that these deposits contain but a conservative estimate would be of the order of one hundred billion barrels.

And to supplement this storehouse of energy from fossil fuels is a potential hydropower development, estimated at 2.85 million K.W. or over 6 per cent of Canada's total. This represents .6 million K.W. generating capacity on fully surveyed and proven sites on the Bow and North Saskatchewan Rivers; and a further estimated 2.25 million K.W. from partially investigated sites on the North Saskatchewan, Athabasca, Peace and Slave Rivers.

The relative magnitude of the reserves of natural gas and petroleum in Alberta as well as their relationship to the total Canadian picture is shown on the graphs opposite.



TOTAL PROPORTIONATE ENERGY RESOURCES, PETROLEUM AND COAL (EXPRESSED IN B.T.U. EQUIVALENTS) ALBERTA AND CANADA - 1957



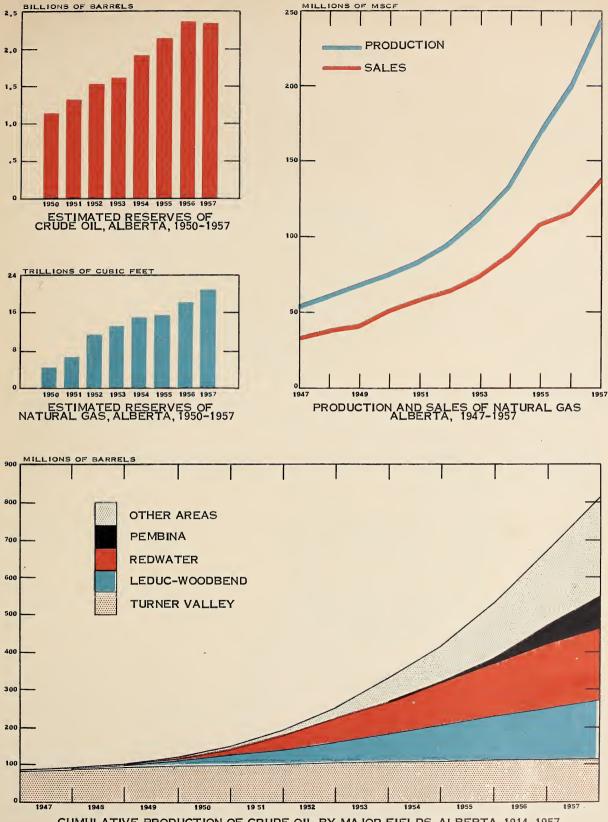
PETROLEUM & NATURAL GAS

To the end of 1957, 2.9 trillion cubic feet of natural gas and 812.0 million barrels of crude oil had been produced in Alberta: 727.5 million barrels of the crude oil since 1946. At the end of 1957 proven reserves of natural gas exceeded 21 trillion cubic feet and known reserves of crude oil --- exclusive of oil in the McMurray bituminous sands --- exceeded 2.4 billion barrels. Average daily crude oil production in 1957 was 377,000 barrels.

Estimated Crude Oil & Natural Gas Reserves, Alberta, 1950-57 Natural Gas Crude Oil Estimated Reserves Estimated Reserves trillions cu.ft. barrels 1950 4.6 1,165,000,000 1951 6.8 1,328,000,000 1952 11.5 1,526,000,000 1953 13.4 1,624,000,000 1954 15.0 1.928,479,000	Production & Sales of Natural Gas Alberta, 1950-57 Production M.C.F. Sales M.C.F. 1950 74,935,496 51,453,999 1951 83,842,985 58,014,216 1952 95,735,951 64,455,827 1953 113,894,403 73,786,054 1954 135,545,629 88,571,956
1955 15.6 2,169,985,000 1956 18.3 2,389,296,000 1957 21.0 2,360,933,000 Crude Oil Produ (Cumulative 1)	1955 168, 808, 357 108, 413, 497 1956 200, 191, 107 115, 650, 027 1957 244, 224, 735 136, 434, 809 ction, by Major Fields, Alberta 214-46 Annual 1947-57) parrels '000

Industry revenue from the sale of liquid hydrocarbons rose from \$14.3 million in 1946 to over \$356 million in 1957. Provincial government revenue from fees, rentals, royalties and crown reserves sales increased from \$0.9 million to a high of \$126.2 million in 1956. Industry expenditures on the development of Alberta oil resources rose from an estimated \$25 million in 1947 to an estimated \$536 million in the 1956 season.

The employment engendered by the development of Alberta oil and gas resources is of primary concern to the economy of the province. Approximately 2000 persons (exclusive of those working in refineries or in marketing) were engaged in the operation of oil firms in 1946 and drew salaries and wages totalling approximately \$4.5 million. By 1956 the number had risen to 21,000 and salaries and wages were in excess of \$98.6 million.



CUMULATIVE PRODUCTION OF CRUDE OIL BY MAJOR FIELDS, ALBERTA, 1914-1957 (EARLIER YEARS OMITTED)

MANUFACTURING

The gross value of manufacturing in Alberta increased nearly tenfold between 1936 and 1956, rising from \$74 million to \$702 million. The average number of employees increased from nearly 12,000 to over 37,500. Salaries and wages tripled between 1936 and 1946; and nearly tripled again in the next decade, rising to \$121 million by 1956. The net value of production, or value added by manufacturing, rose from \$25 million to over \$279 million in the twenty years.

Gross Value of Manufacturing, by Industrial Groups, Alberta, 1936, 1946, 1956 (millions of dollars)						
	19	936	1	946	19	956
	Gross	Percent	Gross	Percent	Gross	Percent
	Value	of Total	Value	of Total	Value	of Total
	\$	%	\$	%	\$	%
Agricultural Produce Plants	49.9	67.4	173.6	67.5	294.3	41.9
Textile Products	1.5	2.0	4.4	1.7	13.5	1.9
Wood-Paper Products	7.8	10.5	30.3	11.8	90.4	12.9
Iron & Steel Products	4.3	5.8	13.1	5.1	78.2	11.2
Non-Metallic Mineral Products	9.5	12.8	28.5	11.1	165.4	23.6
Chemicals & Chemical Products	.6	.8	5.4	2.1	35.3	5.0
Non-Ferrous Metal Products)	.5	.7	1.7	.7	24.5	3.4
Miscellaneous)					.2	.1
TOTAL:	74.1	100 %	257.0	100 %	701.8	100 %

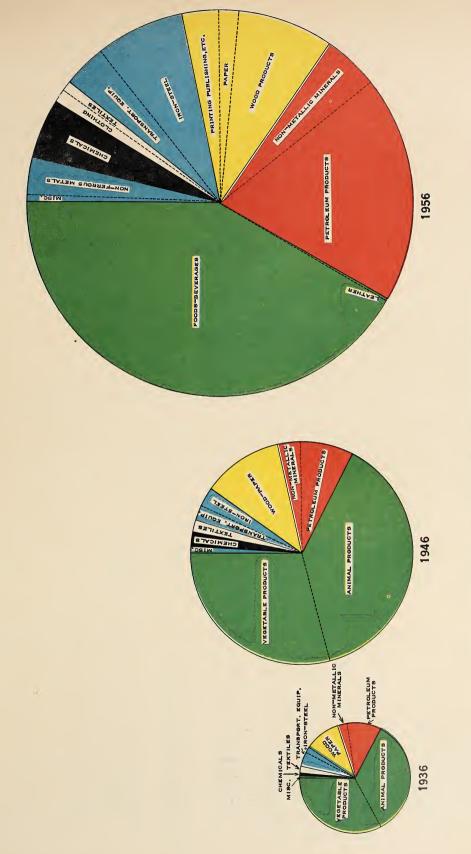
The chart opposite illustrates both the growth in volume of manufacturing and the relative changes which have taken place particularly since 1946. From 1936 to 1946 agricultural products processing plants accounted for over 67 per cent of all our manufacturing: by 1956 the proportion had fallen to 42 per cent. The proportion of production of non-metallic minerals (including petroleum products) rose from 13 per cent to 24 per cent; of wood and paper products from 11 per cent to 13 per cent; of iron and steel products from 6 per cent to 11 per cent; of chemicals and products from less than 1 per cent to 5 per cent; and of non-ferrous metals from less than 1 per cent to 4 per cent.

With the increasing population west of the Great Lakes - 4,386,000 in 1957 as compared with 3,466,000 in 1946 and 3,160,000 in 1936 - it is economically profitable for more firms to construct manufacturing plants in western Canada. From 1946 - 1957 over 800 plants of varying sizes were opened in Alberta alone.

Customs' port clearings in Alberta of manufactured and other goods rose from \$192.0 million in 1952 to \$260.1 million in 1956. These figures bolstered by imports from eastern Canada, give an indication of the market for manufactured products in Alberta alone.

-	Princi	pal Statistics of	the Manufactur (thousands of		Alberta, 1931-1	956
	Estab-	Employ-	Salaries	Cost	Net Value	Gross Value
	lish-	ees	and	of	of	of
	ments		Wages	Materials	Products	Products
	No.	No.	\$	\$	\$	\$
1931	795	10,343	12,589	35,970	25,314	62,641
1936	905	11,756	12,328	47,684	25,000	74,052
1941	1,108	16,761	20,152	94, 177	45,958	142,651
1946	1,315	22,649	34,939	169,425	83,735	257,032
1951	2,118	29,105	69,136	309,431	141,650	458,281
1956	2,150	37,571	120,966	409,438	279,199	701,768





The growth of the Central Electric Station Industry in the Province has been phenomenal. The kilowatt hours generated in 1957 were 2,243,000,000 as compared to 641,331,000 1947.

To keep pace with this growth the capacity of Central Stations has been increased from 158 to 596 megawatts during the past decade. This increase is accelerating. New plant under construction which is expected to be completed in 1958 totals 140 megawatts. Plans are underway in the next five years for an increase of approximately 500 megawatts. This increase will be made up from steam turbines, gas turbines and hydro.

Alberta's undeveloped hydro-electric possibilities total over one million H.P. The Province's vast resources of accessible coal account for more than half of all the coal in Canada. This coal is being strip-mined for the production of power and produces power at an amazingly low cost per KWH. When Alberta's resources of cheap **n**atural gas are taken into account they add yet a third source of cheap power, so that the position of the Central Electric Station Industry is bright indeed. Industry in less fortunate areas is beginning to look to Alberta, where energy resources are practically inexhaustible.

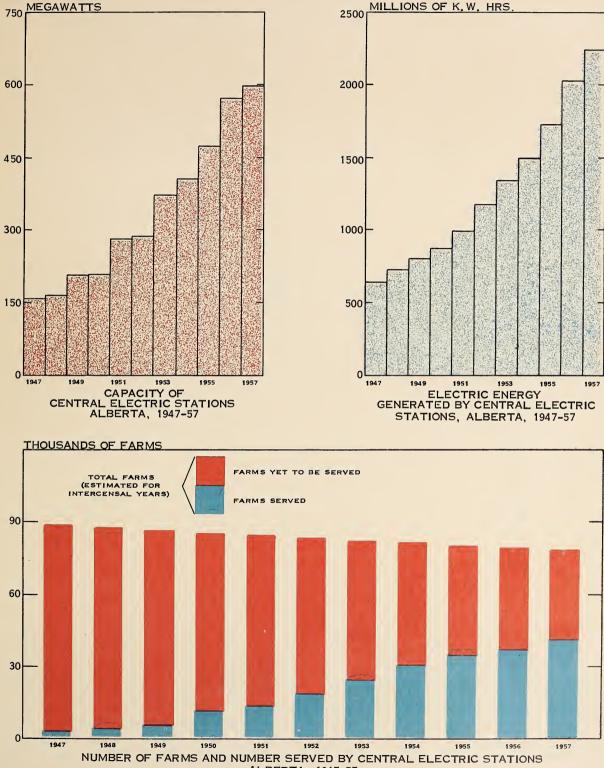
At the end of December 1957, there were 31,561 miles of farm lines and during the year 2,647 miles had been constructed. With the development of the oil fields heavy transmission lines have been extended to many new areas in the Province so that large blocks of Central Station power at low rates are available in all of the settled areas of the Province.

Since 1947 farm electrification has made great strides. At that time there were 2275 electrified farms, while at the end of 1957 over 41,130 of Alberta's farms enjoyed the benefits of Central Station electricity. It is expected that another 3,000 farms will be electrified during 1958. Most of the farms in the better soil areas of the Province have already taken service. From here on the extension of farm electrification into the more marginal areas will take place at a slower pace. The legislation passed in the spring of 1956 extending the term of financing from 10 to 25 years has been of considerable assistance to the farmers in these more marginal areas.

	Electric Energy Generated by Central Electric Stations-Alberta (million KWH)
1947	641
1948	724
1949	801
1950	869
1951	997
1952	1,174
1953	1,340
1954	1,498
1955	1,729
1956	2,019
1957	2,243

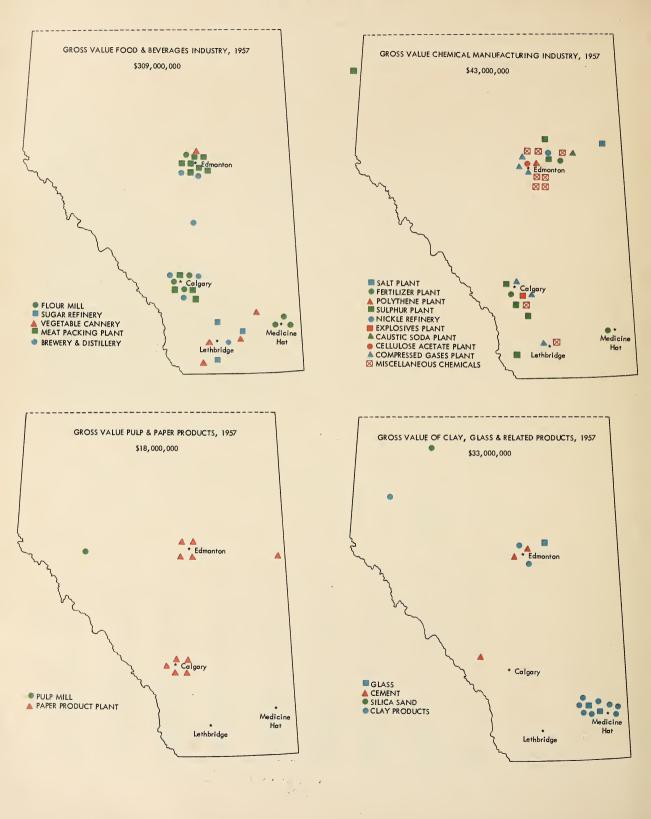
	Capacity of Central Electric Stations, Alberta (M.W.)
1947	158
1948	165
1949	207
1950	208
1951	280
1952	288
1953	372
1954	405
1955	477
1956	572
1957	596

Number of Farms & Number Served by Central Electric Stations, Alberta No. of Farms No. Farms Served 1947 88,500 * 2,275 87,400 * 3,393 1948 86,300 * 5,017 1949 85,200 * 1950 11,032 84,315 13,479 1951 83,300 * 1952 18,055 82,300 * 24, 181 1953 30,504 1954 81,300 * 80,300 * 34,768 1955 37,658 1956 79,424 78,400 * 1957 41,130 * Estimated

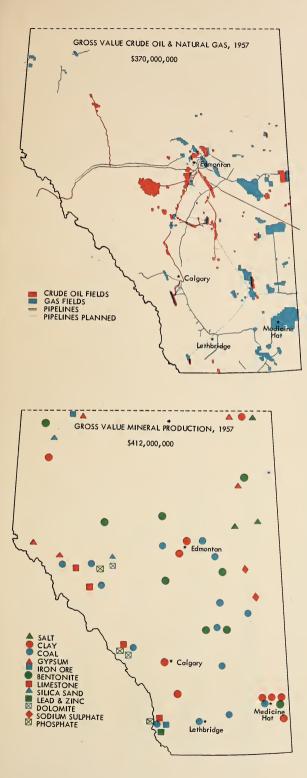


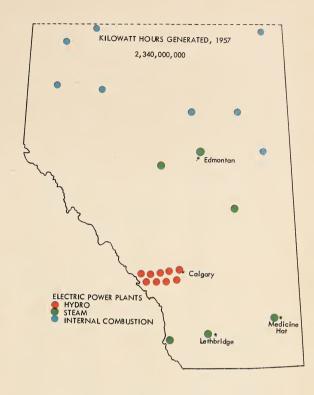
ALBERTA, 1947-57

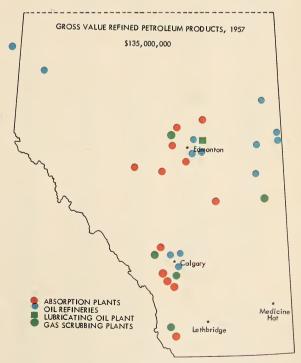
INDUSTRIAL



RESOURCES







CONSTRUCTION INDUSTRY

The Alberta construction industry has experienced a period of expansion since the close of the second World War. During the war and the immediate post-war years construction materials were often in short supply, and the consequent backlog of building contracts made for reasonably

constant employment. In later years new methods of erecting temporary enclosures especially around larger building projects, enabled building to proceed unhampered by changes in weather. Similarly residences are having the interior finishing work done during the winter months. Even strictly out-door work, such as the laying of sewer and water mains, now proceeds unabated during the winter months.

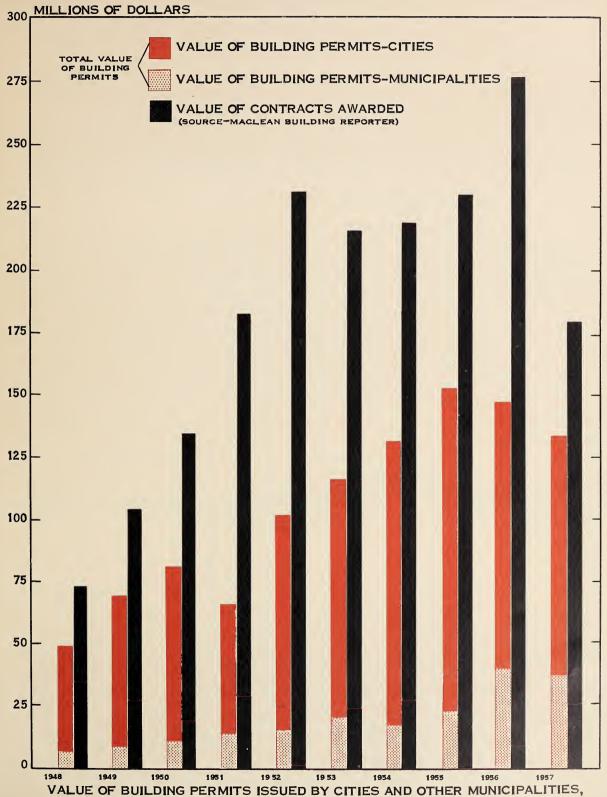
Building permits issued by the municipalities of the province provide one index of the general volume of construction. One of the encouraging features to be noted is that the smaller centres of the province have had a substantial share of the construction work. The dollar value volume of permits issued by the towns and villages increased eightfold between 1948 and 1957. That of the seven cities more than tripled, but it must be borne in

Building	Permits	Value of Contracts Awarded Alberta
Cities	Other	
\$ 1000	\$ '000	\$ '000
· · · / · · · ·	5,323	74,072 104,381
80,568	8,300	134,879 183,075
100,085	13,172 21,758	231, 191 215,011
152,555	15,059 23,899	219,205 230,310
	41,015 39,678	275,613 179,230
	Building Alberta Mur Cities \$ '000 48,214 69,624 80,568 66,437 100,085 113,833 132,771 152,555 147,186	\$ '000 \$ '000 48,214 5,323 69,624 10,542 80,568 8,300 66,437 10,910 100,085 13,172 113,833 21,758 132,771 15,059 152,555 23,899 147,186 41,015

mind that building permits cover work done only within the corporate limits of the city or town.

The graph, based on building permits issued by the cities and on figures compiled by MacLean Building Reports, indicates the increase in construction activity in the province since 1948. Figures which indicate the actual dollar volume of construction in the province are more difficult to provide in a historical series. In the table below, prepared by the Dominion Bureau of Statistics, is set forth the approximate value of construction work performed, the average number of workmen, their salaries and wages and the cost of materials used, over the period 1953-1957.

	<u>1953</u>	<u>1954</u>	<u>1955</u>	<u>1956</u>	<u>1957</u>
Value of Building		- millions	ofd	Iollars -	
Construction: Value of Engineer-	282.1	288.0	300.5	345.7	315.3
ing Construction:	273.9	262.3	323.1	402.0	392.5
Total Value:	556.0	550.3	623.6	747.7	707.8
Average Number of Employees:	50,570	50,934	52,641	59,039	56,005
Salaries & Wages:	179.3	172.9	187.3	226.1	214.1
Cost of Materials:	264.6	247.4	284.5	339.5	321.5



AND VALUE OF CONSTRUCTION CONTRACTS AWARDED, ALBERTA, 1948-1957

PUBLIC & PRIVATE INVESTMENT

In 1948 the Dominion Bureau of Statistics began the publication of annual estimates of public and private investment in each province and for Canada.

In the ten year period 1948 - 1957 such investments in Alberta rose from \$390.1 million to a high of \$1,119.0 million by 1956. Total capital and maintenance expenditures in the period exceeded \$7,592.4 million.

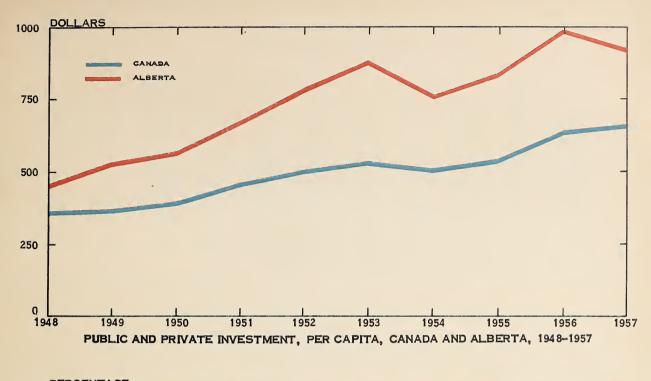
The primary industries and the construction industry together accounted for the largest share of expenditures each year, rising from \$164.8 million to a high of \$390.7 million in 1956. Included in these figures are the large investments in the development of Alberta petroleum resources.

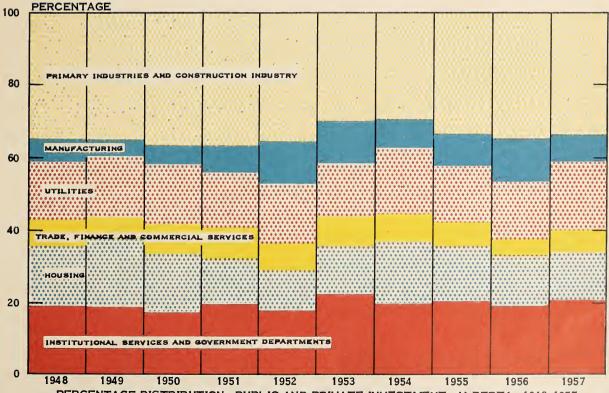
Expenditures on manufacturing plants and equipment rose from \$20.6 million in 1949 to a high of \$130.1 million in 1956.

The large investments in utilities were made necessary by the rapid growth of major urban centres of population, the installation of utilities in the smaller centres, and the expansion of power and gas facilities to meet the needs of the increasing industrialization of the province. Trade, finance and commercial services capital expenditures make up the smallest share of the total. Expenditures on housing comprised between one-fifth and one-seventh of the total each year.

Investment per capita rose from \$457 in 1948 to a high of \$996 in 1956. Comparative minimum and maximum per capita figures for Canada were \$362 in 1948 and \$659 in 1957.

PUBLIC AND PRIVATE INVESTMENT IN ALBERTA 1948 - 1957										
	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957
	\$	\$	\$	Mi \$	llions of \$	f dollars ¢	; \$	\$	\$	\$
Primary Industries		4	÷	÷	4	÷	÷	÷	Ψ	÷
and Construction										
Industry	**	164.8	192.5	234.1	272.8	269.0	238.0	308.2	390.7	364.7
Manufacturing	23.4	20.6	24.4	45.1	86.4	104.1	64.0	78.0	130.1	77.0
Utilities	61.8	79.2	86.9	97.1	125.1	130.0	144.3	143.6	176.9	203.3
Trade, Finance and Commercial										
Services	**	25.9	41.4	54.7	55.1	72.1	60.9	59.9	51.0	63.2
Housing	65.6	91.1	85.8	77.9	87.0	123.0	140.2	140.1	155.6	144.8
Institutional										
Services and										
Government										
Departments	74.3	88.0	90.2	125.9	134.8	198.9	159.7	188.3	214.0	221.9
TOTAL	390.1	469.6	521.2	634.8	761.2	897.1	807.1	918.1	1118.3	1074.9
Per Capita:										
Alberta	457	531	571	676	782	887	764	842	996	927
Canada	362	374 not ava	398	462	503	535	507	542	640	659
L	~~~	nor ava	elapie							





PERCENTAGE DISTRIBUTION, PUBLIC AND PRIVATE INVESTMENT, ALBERTA, 1948-1957

PERSONAL INCOME

Personal income includes all income in cash or in kind, whether earned or unearned, received by persons. "Persons" include individuals, private non-commercial institutions such as hospitals, universities and charitable organizations, and private pension funds.

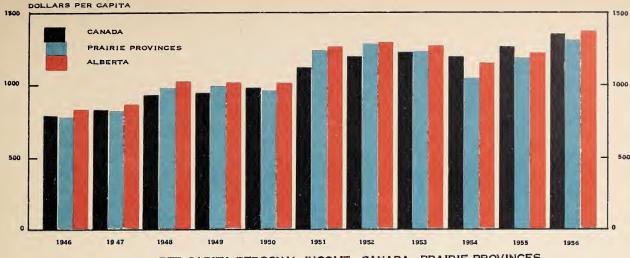
Included in personal income are wages, salaries, commissions and other labour income such as free board and room; net income of farmers and other unincorporated businesses; interest and net rental income of persons; transfer payments such as family allowances, unemployment insurance benefits, old age pensions and other payments for which no specific service is rendered; military pay and allowances; and a negative item, employer and employee contributions to social insurance and government pension funds. Undistributed corporation profits and profits of government operated enterprises are excluded from personal income.

On a per capita basis, the personal income of Albertans has been above that of residents of the three prairie provinces as a whole since 1946; and only in 1954 and 1955 was the all-Canada average higher. With 7 per cent of the national population in 1956, Albertans received 7.1 per cent of total personal income.

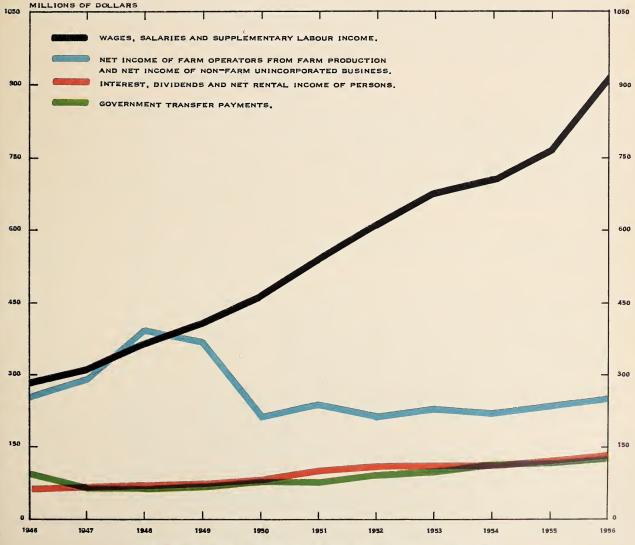
	Per Cap	ita Persona 1946-1950	
		Prairie	
	Canada	Provinces	Alberta
	\$.	\$	\$
1946	794	782	829
1947	828	820	859
1948	931	989	1,019
1949	949	996	1,012
1950	978	963	1,009
1951	1,120	1,230	1,256
1952	1,191	1,282	1,288
1953	1,221	1,234	1,263
1954	1,191	1,047	1,149
1955	1,255	1, 181	1,212
1956	1,350	1,313	1,370

It is of particular significance that despite the "levelling off" of farm income since 1950, the rapid growth of other income sources -- manufacturing and mining specifically -- has served to raise total per capita income above the all-Canada average. Total Alberta income is no longer subject to the violent year-to-year fluctuations characteristic of a largely agricultural economy. This recent development has been most pronounced in retail and wholesale businesses.

	Com	ponents of Personal Income	e, Alberta, 1946-	1956	
	Wages, Salaries & Supplementary Labour Income	Net Income of Farm Operators from Farm Production & Net Income of Non-Farm Unincorporated Business	Interest, Divi- dends & Net Rental Income of Persons	Government Transfer Payments	Total
	\$'000	\$'000	\$'000	\$'000	\$'000
1946	281,000	243,000	55,000	83,000	666,000
1947	310,000	282,000	61,000	59,000	709,000
1948	366,000	386,000	64,000	58,000	870,000
1949	406,000	362,000	68,000	63,000	896,000
1950	460,000	316,000	77,000	72,000	921,000
1951	534,000	481,000	96,000	72,000	1,179,000
1952	608,000	458,000	103,000	87,000	1,253,000
1953	674,000	405,000	105,000	96,000	1,278,000
1954	704,000	295,000	105,000	109,000	1,215,000
1955	762,000	320,000	118,000	117,000	1,322,000
1956	901,000	385,000	126,000	122,000	1,539,000







COMPONENTS OF PERSONAL INCOME, ALBERTA, 1946-1956

During the period 1940-57 the gross volume of retail trade rose from \$197.7 million to \$1206.3 million, an increase of 510 per cent. Per capita retail sales rose from \$286 to \$1040 (or by 264 per cent).

Total sales of all wholesale outlets, including manufacturers' sales branches, petroleum bulk stations, agents and brokers, assemblers of primary products and wholesalers proper, increased from \$323.1 million in 1941 to \$1095.0 million in 1951. Sales of wholesalers proper increased from \$120.6 million to \$392.6 million over the same period. 1957 sales are estimated at \$795.2 million.

Sales volume is closely related to concentration of population and personal income. The following figures (see map on page 32) are based on 1956 census data: out of a total population of 1,123,000-----

689,000	live	within	100	miles	of	Red Deer.
						Camrose.
						Edmonton.
355,000	live	within	100	miles	of	Calgary.
55,000	live	within	100	miles	of	Grande Prairie.
						Lethbridge.
34,000	live	within	50	miles	of	Medicine Hat.

These trading areas overlap, of course, but they indicate the main concentrations of population.

It should be noted that the Calgary and Lethbridge market areas extend into British Columbia as far as Nelson and Trail while the area tributary to Edmonton covers not only the whole northern part of the province but the North West Territories and the Yukon as well. On the other hand places such as Red Deer, Camrose and Grande Prairie are rapidly developing as commercial centres and are beginning to supplant, locally, the larger cities as distribution points.

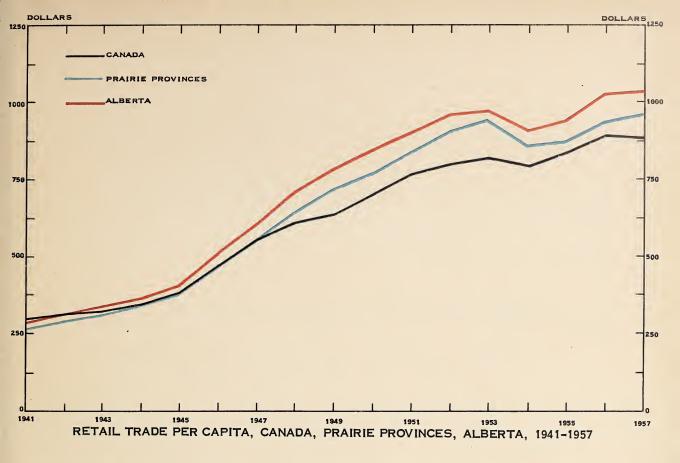
The Alberta population increased from 796,000 in 1941 to 1,160,000 in 1957, an increase of 46 per cent in the number of persons requiring Per Capita Retail Trade

	Alberta	Prairie Provinces	Canada
1941	\$ 286	\$ 252	\$ 297
1942	313	277	311
1943	338	300	321
1944	366	333	343
1945	407	370	379
1946	518	464	471
1947	611	550	555
1948	716	636	611
1949	788	711	634
1950	851	762	701
1951	909	833	763
1952	965	901	798
1953	976	936	817
1954	912	857	789
1955	949	873	835
1956	1,032	936	889
1957	1,040	959	883
	Gross	Volume Retail	Trade

Gross Volume Retail Trade (millions of dollars)

	•		
1941	\$ 228	\$ 609	\$ 3,415
1942	243	650	3,619
1943	266	704	3,786
1944	296	788	4,093
1945	329	877	4,573
1946	416	1,096	5,787
1947	504	1,321	6,963
			7,835
1948	611	1,551	
1949	697 777	1,758	8,532
1950	777	1,914	9,617
1951	854	2,122	10,693
1952	939	2,354	11,532
1953	987	2,510	12,128
1954	964	2,359	12,066
1955	1,035	2,452	13,112
1956	1,159	2,671	14,298
1957	1,206	2,780	14,654

goods and services. Total population of the four western provinces increased from 3,240,000 in 1941 to 4,386,000 in the same period, an increase of 35 per cent.





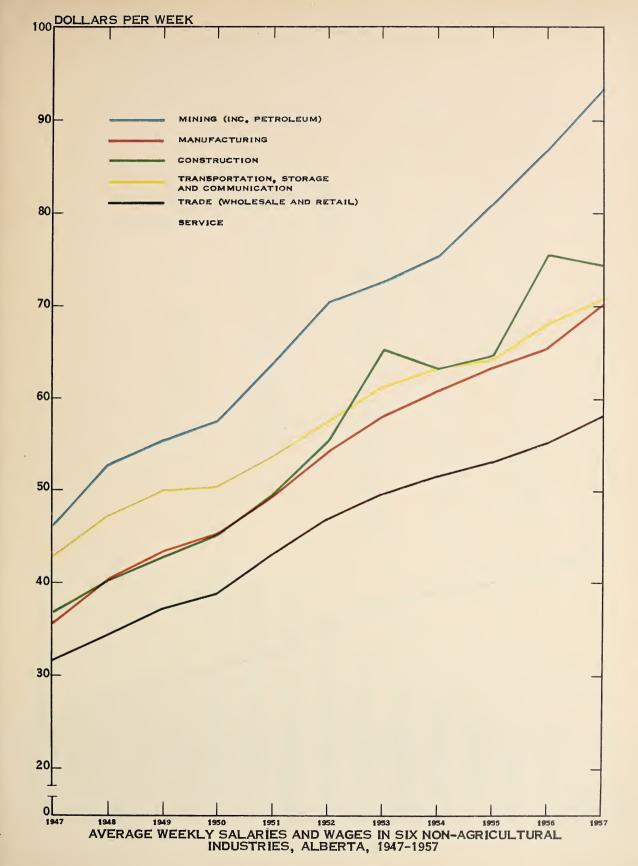
SALARIES AND WAGES

The accompanying graph on average weekly salaries and wages in six non-agricultural industries indicates the trend of increasing salaries and wages from 1947 to 1957. Over the period there has been in each industry a year-by-year increase in average weekly salaries and wages with the exception of the construction industry 1957.

During 1957 the employees in the mining industry ranked first with average weekly salaries and wages of \$93.20. This figure represents a 103 per cent increase over the 1947 figure of \$46.00. The construction industry has experienced the greatest percentage gain in salaries and wages since 1947. Construction workers' earnings were second only to the mining industry: \$74.00 in 1957, a 104 per cent increase over the 1947 figure of \$36.30. The transportation industry was third with \$70.80, followed by manufacturing with \$70.00, trade with \$58.30, and service with \$43.70.

The section of the table below covering the period January to December 1957 illustrates the effect of seasonal variations in employment on the earnings of employees in the different industries.

	Average Weekly Salaries and Wages, Six Non-agricultural Industries Alberta, by years 1947–1957, by months 1957						
1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	Mining 46.0 52.6 55.6 56.9 63.9 70.1 72.8 75.9 80.7 87.5 93.2	Manufacturing 35.2 40.1 43.6 45.1 49.4 54.4 58.0 60.6 63.0 65.5 70.0	Construction 36.3 40.0 42.5 45.0 49.8 55.2 65.0 63.0 64.7 75.3 74.1	Transportation \$ 42.6 47.3 49.9 50.1 54.7 57.9 61.8 63.4 64.1 67.7 70.8	Trade 31.4 34.3 37.0 38.7 43.1 47.1 49.8 51.9 53.5 55.5 58.3	Service 24.3 27.5 29.5 30.5 32.6 35.0 37.5 38.6 39.6 41.7 43.7	Industrial <u>Composite</u> 37.2 41.5 44.4 45.6 50.4 54.9 58.8 60.1 62.0 66.6 69.3
1957 Jan. Feb. Mar. Apr. May June July Aug. Sep. Oct. Nov. Dec.	91.0 93.3 94.0 91.9 91.9 93.2 95.6 91.4 92.7 94.6 94.2 94.7	66.6 68.7 68.9 69.3 69.7 70.4 71.8 70.2 70.6 69.9 70.9 72.4	66.1 77.7 78.0 76.9 70.7 73.0 73.9 73.9 73.9 74.1 78.4 72.0 74.2	69.9 68.4 71.1 70.6 69.1 69.1 71.9 71.0 71.8 71.1 70.8 74.6	54.7 57.2 57.8 58.0 57.1 58.8 60.0 59.3 59.8 59.4 59.0 58.5	44.4 43.5 44.9 44.1 43.9 43.5 42.1 43.1 41.8 41.7 45.2 46.3	66.0 68.7 70.0 69.4 67.9 69.2 70.3 69.1 69.8 70.4 69.8 71.0



POPULATION

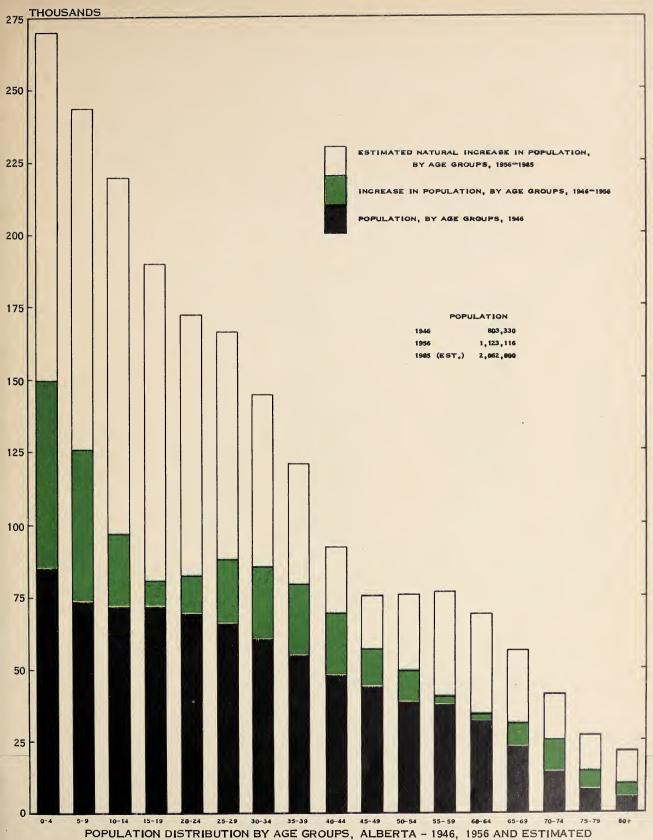
	BIRTHS, DE	EATHS, NATU	JRAL INCREA A, 1939-1957	SE AND TOTAL INC.	REASE IN PC	PULATION
	Births *	Deaths *	Net Natural Increase	Net Immigration** or (-) Emigration	Net Inc. or (-) Dec.	Total Population in thousands
	No.	No.	No.	No	No.	No.
1939	16,470	5,789	10,681	- 6,000	5,000	786
1940	17,359	6,203	11,156	- 7,000	4,000	790
1941	17,308	6,385	10,923	- 5,000	6,000	796
1942	18,317	6,091	12,226	-32,000	-20,000	776
1943	19,290	6,524	12,766	- 4,000	9,000	785
1944	19,372	6,320	13,052	10,000	23,000	808
1945	19,939	6,454	13,485	-13,000		808
1946	22,184	6,601	15,583	-21,000	- 5,000	803
1947	24,631	6,543	18,088	4,000	22,000	825
1948	24,075	6,987	17,088	12,000	29,000	854
1949	24,935	7,083	17,852	13,000	31,000	885
1950	25,625	6,856	18,769	9,000	28,000	913
1951	27,003	7,167	19,836	6,000	26,000	939
1952	29,105	7,345	21,760	9,000	31,000	973
1953	31,376	7,646	23,730	8,000	32,000	1,012
1954	33,593	7,520	26,073	19,000	45,000	1,057
1955	34,357	7,956	26,401	8,000	34,000	1,091
1956	32,905	7,589	25,316	7,000	32,000	1,123
1957	36,661	8,465	28,196	9,000	37,000	1,160
1961	37,000	9,000 13,000	28,000 26,000	Λ,		1,261 1,392
1971	39,000	14,400	30,000	*0 ⁺ ¢		1,531
1976	44,000 49,000	15,000	34,000	Nor Estin	7	1,691
1981	54,000	17,000	37,000		"Sted	1,867
1985	59,000	20,000	39,000		•	2,061
	· · · ·	* Exclusive of	•			-/001

The population of Alberta increased to 1,160,000 in 1957 from 786,000 in 1939, or by 48 per cent. Since 1946, when the total population was estimated at 803,000 there has been a steady net immigration into the province from other parts of Canada, Europe, and the United States of America. The population increase for the period 1946–1957 was 44 per cent.

The chart opposite shows the actual population in 1946 and 1956 by age groups and an estimate (excluding immigration and emigration) of the population of the province in 1985. The table above shows estimated population at five-year intervals to that date. Particularly notable is the current shortage (due to a low birthrate in the 1930's) of persons in the 15 to 24 years of age groups. Equally notable is the surge of population in the 0 to 9 years of age groups.

Along with the increasing population has come an accelerating trend towards urbanization. Between 1906 and 1941 the proportion of population in rural areas fell slowly from 69 per cent to 62 per cent. By 1951 it had dropped to 48 per cent; and by 1956 to 43 per cent. The ten cities comprise 77 per cent of the urban population or 44 per cent of the total population of the province.

The main axis of population as shown by the population density map on page 32 runs along the Lethbridge, Calgary, Edmonton line and then veers eastward. Another significant concentration is in the Peace River Block. In 1956 over half the population of Alberta (689,000 persons) lived within a one hundred mile radius of the City of Red Deer.



NATURAL INCREASE TO 1985

PUBLIC FINANCE

Provincial revenues are obtained mainly from the following sources:

- Petroleum and Natural Gas royalties, rentals, and sales of crown leases and reservations.
- Dominion-Provincial Taxation Agreement Rental of provincial taxation fields to Canada.
- Motor Vehicles and Fuel Oil Tax Licenses from the registration of motor vehicles, and tax on the sale of fuel oil.
- Alberta Liquor Control Board Profit on sale of liquor.

Expenditures include debt retirement and construction of public roads and buildings, in addition to ordinary government services.

	Public Fina	nce, Government of Alber	rta, 1946-1958	
	Total Revenues Income & Capital <u>Account</u> \$	Total Expenditures Income & Capital <u>Account</u> \$	Loans and Advances \$	Public Debt \$
1946	42,200,799	31,889,943	3,000,000	146,501,764
1947	44,558,752	38,530,470		145,068,324
1948	57,692,728	50,952,245		128,031,179
1949 1950 1951 1952	72,173,017 101,486,778 120,456,977 122,563,953	64,644,714 71,648,643 96,354,968 113,062,237	6,978,353 11,055,650	129,898,282 130,600,688 111,830,132 100,437,091
1953	158,307,775	131,759,329	12,861,070	97,452,424
1954	204,130,274	181,941,345	42,399,206	94,349,738
1955	197,765,461	161,862,719	49,411,418	91,598,796
1956	247,653,534	182,969,231	48,661,473	88,213,213
1957	266,874,121	196,548,697	36,396,327	86,137,772
1958 est.	252,626,425	224,969,370	60,500,000	34,000,000

Surpluses of income and capital revenues over income and capital expenditures have provided funds to finance the capital requirements of Alberta municipalities and schools and of the Alberta Government Telephones. Loans and advances outstanding as at March 31, 1957 amount to \$250, 149, 889 and are made up of the following:

Loans to Municipalities	\$153,816,229
Loans to School Boards	
Loans to Rural Electrification Associations	11,271,890
Loans to Alberta Government Telephones	57,997,444
Miscellaneous loans and advances	1,582,920
	\$250,149,889

In addition to the above loans and advances, the Province of Alberta had on hand the following cash and investments as at March 31, 1957:

Cash	\$ 36,266,371
Government of Canada bonds	46,974,266
Provincial bonds	50,953,680
	\$134, 194, 317

