TWENTY-SECOND
ANNUAL REPORT
OF THE
ELECTRICITY
SUPPLY BOARD
IRELAND
FOR THE YEAR ENDED
MARCH 31st
1949

INCLUDING REPORT ON SHANNON FISHERIES

[P. No. 9470]

PRICE ONE SHILLING

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INCLUDING REPORT ON SHANNON FISHERIES

(Presented to the Minister for Industry and Commerce in pursuance of Section 7 (4) and Section 32 (1) of the Electricity (Supply) Act, 1927, and Sections 17 and 18 of the Shannon Fisheries Act, 1935).

[P. No. 9470]

PRICE ONE SHILLING

ELECTRICITY SUPPLY BOARD

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ELECTRICITY SUPPLY BOARD

REPORT AND ACCOUNTS

YEAR ENDED 31st MARCH, 1949.
(Including Report on the Shannon Fisheries.)

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REPORT

OF THE

ELECTRICITY SUPPLY BOARD

27 LOWER FITZWILLIAM STREET,
DUBLIN.

TO THE MINISTER FOR INDUSTRY AND COMMERCE.

In accordance with Section 7 (4) and Section 32 (1) of the Electricity (Supply) Act, 1927, the Board presents the Annual Report and Accounts for the year ended 31st March, 1949.

Notwithstanding the difficulties of supply, which have been accentuated by the unavoidable delays in the completion of the new generating stations, the heavy maintenance on existing plant, and the absence of any margin of plant, the output for the year was 709 million units. This was an increase of 90 million units over the output for the preceding year. The hydro stations contributed 343 million units, as compared with 422 million units in the previous year, owing to less favourable water conditions, and, in consequence, there was a substantial increase in steam from 196 to 365 million units. The supplies of coal were adequate and the quality had improved, but the price remained at an unusually high level, being more than three times the price in 1938.

The programme of capital investment in additional generating capacity, and on the main transmission system, is being pressed forward as rapidly as possible. The volume of work involved, particularly in the construction of six new generating stations and major extensions to the 110,000 volt transmission network, is unprecedented and in spite of the many difficulties to be surmounted the progress can be regarded as good. The rate of development under the Rural Electrification Scheme has, at the same time, been accelerated.

The surplus carried from the Profit and Loss Account to the Net Revenue Account was £212,158 as compared with £74,996 in the previous year.

The following are the summarised figures of income and expenditure for the year :—

	Year ended 31st March, 1949	Year ended 31st March, 1948
	£	£
Gross Revenue	4,366,013	3,886,479
Working Expenditure (including depreciation)	3,131,520	2,779,660
Balance carried to Profit and Loss Account	1,234,493	1,106,819
Interest, repayment of advances and discharge of capital liabilities acquired with local authority undertakings	1,022,335	1,031,823
Surplus	212,158	74,996

Having credited the surplus for the year, together with the profit on merchandise and installations trading, to the Net Revenue Account, the opening deficiency on that account has been converted into a surplus of £220,651. In view of the necessity for a provision against contingencies, and to the circumstance that the original Contingencies Reserve was exhausted during the war years, the Board has decided to transfer £200,000 to Contingencies Reserve.

Electricity sales expanded during the year from 492 million units to 569 million units. The revenue from sales increased by £480,863. The increased revenue was absorbed to a great extent by increases in expenditure on salaries, wages and fuel. The Board is concerned because of the further effect on costs, in the near future, of the heavy capital investment at the present inflated price level. Moreover, the provision for renewals has been based on the original cost of the plant, and the sums so set aside must be strengthened by a special allocation each year to meet the higher cost of replacements. The forecasts of revenue and expenditure for some years forward do not indicate a sufficient margin for these purposes, and it is clear that unless expenditure can be stabilised, or reduced, a revision of charges for electricity will be essential.

The accumulated sum made available towards the replacement of wasting assets at 31st March, 1949, was £7,309,637. The total of assets actually retired from commission had by the 31st March, 1949, accumulated in value to £1,287,918, and the demand for renewals will now grow rapidly.

Capital subsidies received from the Minister for Finance in aid of rural electrification amounted to £725,000 at the close of the year. These subsidies, which are non-repayable, and represent 50% of the capital cost, were in the form of capital

advances under Section 41 of the Electricity (Supply) (Amendment) Act, 1945. The results so far achieved indicate that a subsidy of one-half of the capital will not be sufficient to make rural electrification self-supporting.

Capital repayments to the Minister for Finance debited to the Profit and Loss Account amounted to £118,461 and the repayment of capital liabilities assumed from local authorities to £2,030. At the 31st March, 1949, the total of the capital redeemed by repayments to the Minister for Finance was £798,177 and of the liabilities assumed from local authorities £750,772 had been repaid.

Expenditure on new capital works in course of construction at the end of the year was £5,040,682. The capital invested in plant put into commission during the year was £2,770,951, as compared with £977,064 in the preceding year.

This expenditure comprises the following :

	£
Generation	921,083
Transmission	203,913
Distribution	1,463,288
Equipment, Transport, etc. ...	182,667
	£2,770,951

The aggregate capital expenditure at 31st March, 1949, was £27,346,990.

SALE OF ELECTRICITY AND NUMBER OF CONSUMERS.

The number of units generated and sold, the revenue, the average price per unit and the number of consumers for each of the last twenty years are shown in the following table :—

Year ended 31st March.	Units Generated (and purchased).	Units Sold.	Revenue from Sales of Energy.	Average Price in Pence per Unit Sold.	Total Consumers.
			£		
1930 ...	60,947,800	43,177,228	478,006	2·66	48,606
1931 ...	119,842,700	85,500,494	735,302	2·06	69,045
1932 ...	151,843,700	110,677,196	938,933	2·04	78,511
1933 ...	166,076,300	120,098,523	1,044,475	2·09	83,052
1934 ...	185,383,300	138,503,130	1,149,681	1·99	91,267
1935 ...	206,105,600	156,964,146	1,258,388	1·92	103,037
1936 ...	244,098,700	187,015,590	1,429,888	1·84	116,704
1937 ...	284,117,500	218,758,085	1,584,433	1·74	130,483
1938 ...	314,477,200	244,460,235	1,724,873	1·69	145,230
1939 ...	377,637,400	295,258,706	1,900,563	1·54	160,382
1940 ...	406,998,700	318,551,656	1,946,310	1·47	172,545
1941 ...	435,864,400	345,230,808	2,071,888	1·44	183,747
1942 ...	450,411,800	357,252,304	2,182,970	1·47	200,419
1943 ...	414,363,000	328,052,276	2,223,708	1·63	210,475
1944 ...	442,892,900	346,938,333	2,426,082	1·68	222,013
1945 ...	406,273,400	319,010,297	2,458,411	1·85	228,008
1946 ...	483,625,900	379,094,294	3,061,518	1·94	237,136
1947 ...	571,876,300	453,655,294	3,588,550	1·90	248,030
1948 ...	619,965,500	492,148,983	3,862,701	1·88	262,598
1949 ...	710,215,000	569,256,888	4,343,564	1·83	284,198

Appendix I gives details of the number of consumers in each area this year, as compared with the previous year, and certain other particulars relating to supply.

ANALYSIS OF UNITS SOLD.

The following table gives an analysis of the units sold in the main categories of supply :—

Class of Supply	Units Sold		Increase	Per-centage Increase
	Year ended 31st March, 1949	Year ended 31st March, 1948		
Domestic ...	222,126,249	189,327,181	32,799,068	17·3
General Lighting ...	44,380,739	38,455,001	5,925,738	15·4
General Heating, Cooking and Water Heating ...	61,818,701	55,403,560	6,415,141	11·6
Motive Power ...	205,686,801	179,985,315	25,701,486	14·3
Public Lighting ...	15,719,571	11,877,160	3,842,411	32·4
Traction ...	7,246,270	7,238,698	7,572	0·1
Miscellaneous ...	12,278,557	9,862,068	2,416,489	24·5
Totals ...	569,256,888	492,148,983	77,107,905	15.7

RESTRICTIONS ON ELECTRICITY SUPPLY.

The modified restrictions which were in force at the 31st March, 1948, and which permitted consumers to use up to 100% of their basic consumptions, were continued, without alteration, throughout the year.

UNDERTAKING ACQUIRED.

To permit of the extension of supply by the Board from the national network to meet local requirements, the undertaking at Frenchpark, Co. Roscommon, was acquired.

SALES OF APPLIANCES.

There was a marked increase in the sales of appliances which amounted to £245,391 as compared with £153,102 for the preceding year. The removal of restrictions on sales of cookers and water heaters during the year contributed largely to the increase in sales. The rate of gross profit on sales was 26·3 per cent. The Merchandise Trading Account, having been charged with overhead expenses and interest on working capital, showed a profit of £11,307.

CONSUMERS' INSTALLATION DEPARTMENT.

The credit taken for contracts completed and invoiced for work carried out by the Department amounted to £234,513, as compared with £156,981 for the preceding year. The rate of gross profit was 22·5%. Having debited to the Installations Trading Account overhead expenses and interest on working capital, there was a net profit of £17,362.

GENERATION.

The output statistics for all generating stations, and the corresponding figures for the preceding year, are shown in the following table :

Year ended 31st March	Station	Generation in kWh	Maximum daily output kWh	Maximum load kW
1949 ...	Ardnacrusha ...	310,045,000		
	Liffey	33,191,000		
	Pigeon House ...	364,897,000		
	Cork	284,000		
	Acquired Stations ...	133,000		
	Total ...	708,550,000	2,848,000	187,000
1948 ...	Ardnacrusha ...	381,185,900		
	Liffey	40,815,300		
	Pigeon House ...	195,333,000		
	Cork	707,300		
	Acquired Stations ...	299,000		
	Total ...	618,340,500	2,573,500	170,600
Increase for year ended 31st March, 1949		90,209,500	274,500	16,400

The total output for all stations showed an increase of 14·6% on the preceding year, and the average load for the year was 80,900 kW. The annual load factor, on the basis of units generated, was 43·3%, compared with 41·2% last year.

A supply of 1,665,000 units was purchased in bulk at Lifford from the Electricity Board for Northern Ireland.

For reference purposes the following information is given in the appendices :—

Generation load duration, and integrated load duration curves	Appendix III
Outputs of all stations	Appendix V
Typical daily generation load curves	Appendix VI
Capacity of Board's generating stations	Appendix VII
Weekly summary of operating conditions—	
(a) Liffey catchment	Appendix IX
(b) Shannon catchment ...	Appendix X
Graph showing annual output from 1st April, 1929, to 31st March, 1949	Appendix XVI

GENERATING STATIONS.

Progress on the construction of the generating stations was not as good as had been anticipated, chiefly because of the inability of manufacturers and suppliers to adhere to their delivery programmes and the difficulty, in the case of the civil construction works, in obtaining an adequate supply of skilled and unskilled labour. It is hoped, nevertheless,

that the oil-fired station at North Wall, Dublin, and the Leixlip hydro station, will be in commission shortly.

To meet the rapidly increasing demand for electricity, two further major projects were under consideration. It was decided to construct, at an estimated cost of £3,000,000, a new steam generating station at Dublin with an initial capacity of 60,000 kW and, in addition, a scheme for the hydro-electric development of the River Lee was prepared with a view to obtaining an Approval Order in accordance with the provisions of the Electricity (Supply) (Amendment) Act, 1945. The Lee proposals envisage the development of the river in two steps, having a total capacity of 28,000 kW.

(a) Portarlington Turf-fired Station (Co. Leix) (2-12,500 kW Steam Turbo Generating Sets).

The construction of the boiler house, turbine house, switch buildings and auxiliary buildings was almost finished. The erection of the 236 feet high reinforced concrete cooling tower was completed, and the installation of the internal pre-cast concrete fittings was well advanced.

Good progress was made on the erection of the three boiler units but, owing to delays in the delivery of various parts, the work had not proceeded as fast as had been anticipated. The failure of the manufacturers to deliver the piping for connecting the boilers to the turbine will prevent the station being placed in commission before the end of 1949. The erection of the first of the two 12,500 kW steam turbo alternator sets to be installed in this station was practically completed. The fuel store travelling crane was erected, and stock piling of the turf commenced. The erection of all the electrical plant in the station was nearing completion, and the construction of the 110 kV line from the station to Portlaoighise was finished.

(b) River Erne Development (Co. Donegal).

Cliff Station (1—10,000 kW Hydro-electric Set).

At the Cliff site the dam was almost completed with the exception of the closing block. About half of the spillway section was poured. It is hoped that it will be possible to close the dam early in the autumn of 1949 and to complete the whole of the civil works early in 1950.

Practically all the material for the first 10,000 kW hydro-electric set was delivered and stored. The 90-ton station crane was erected, and work began on the installation of the draft tube liner and other parts for the turbine.

Subject to no unforeseen interruptions occurring, it is hoped to have this generating unit ready for service in the summer of 1950.

Cathaleen's Falls Station (2—22,500 kW Hydro-electric Sets).

Approximately half of the dam at Cathaleen's Falls was constructed. Excavation for the power station itself and for the tail race bay was in progress throughout the year and should

be completed in the summer of 1949. The whole of the excavation for the first section of the tail race coffer dam, and about half of the excavation of the intermediate gravel section, were completed. In the third, or upper, section the temporary diversion channel was completed and the river was diverted in August. Since then excavation has proceeded continuously. Work was continued on the embankments, road diversions and auxiliary works around the site of the Cathaleen's Falls station.

Some of the plant for the station was delivered, and the remaining equipment was in course of manufacture.

The delay in the civil constructional programme consequent on the difficulties in obtaining an adequate supply of skilled and unskilled labour, will postpone the commissioning date for the first 22,000 kW hydro-electric set to the winter of 1951, and for the second set to the spring of 1952.

(c) River Liffey Development.

Leixlip Station (1—4,000 kW Hydro-electric Set).

The whole of the civil construction works including the dam, power station, tail race and the works around the site of the reservoir were nearing completion, and it is expected that the filling of the reservoir will be undertaken during May, 1949. The erection of the 4,000 kW hydro-electric set was completed and the installation of the electrical plant was almost finished.

It is hoped to have this station in commission in the summer of 1949.

(d) Allenwood Turf-fired Station (Co. Kildare).

(2—20,000 kW Steam Turbo Generating Sets).

The contract for the civil construction works was placed in October, and work on the site began in February. The approach roads and the site drainage were completed and the construction of the foundations for the turbine house and boiler house was in progress. The foundations for the reinforced concrete cooling tower, which will be 285 feet high, were commenced.

Progress continued on the manufacture of all the plant for this station, the main units of which consist of four 150,000 lbs. per hour steam boiler units and two 20,000 kW steam turbo alternator sets.

It is expected that this station will be in commission in the spring of 1952.

(e) North Wall Oil Fired Station (Dublin).

(1—12,500 kW Steam Turbo Generating Set).

Rapid progress was made on the construction and equipment of this station. The turbine house, and the cooling water pump house on Alexandra Basin were completed and the four 1,500 ton oil storage tanks had been erected by December. The steam turbo alternator set, with its auxiliary electrical equipment, was installed and two of the four steam boiler units were made ready for steaming.

The station will be in operation in April, 1949.

(f) Pigeon House Coal-fired Station (Dublin).

The civil construction works for the two additional 100,000 lbs. per hour steam boiler units, and the new ash disposal plant, were completed early in the year and the boiler units were put into commission. The manufacture of the new coal handling plant was in progress.

(g) Ringsend Coal or Oil Fired Station (Dublin).

(2—30,000 kW Steam Turbo Generating Sets).

This station will be situated at Pigeon House Road, Ringsend, and it will be necessary, therefore, to carry out major reclamation works in the River Liffey and on the Sandymount Strand. Arrangements were made with the Dublin Port and Docks Board to proceed with the reclamation work on the river and the provision of deep water wharfage, and negotiations with the Dublin Corporation for the acquisition of the remainder of the site, were in progress at the close of the year.

The first development of the station will consist of the installation of two 30,000 kW steam turbo alternator sets and four 200,000 lbs. per hour steam boiler units. The boilers will be suitable for firing with either coal or oil. Orders for this plant have been placed, and every effort is being made to have the station ready for service by the end of 1953.

(h) River Lee Hydro-Electric Development (Co. Cork).

From an examination of the potentialities of the rivers which are capable of a reasonably large output, and which have not yet been developed, it was decided that the River Lee, Co. Cork, offered the most promising and economical return. The measuring of water flows on the river, and the survey of possible power station sites, have been in progress for a number of years and preliminary investigations indicate that the most favourable development consists in the construction of two stations, one at Inishcarra, containing two 10,000 kW turbine generating sets, and one at Carrigadrohid with two 4,000 kW sets. Towards the close of the year a scheme was prepared for submission to the Minister for approval under the Electricity (Supply) (Amendment) Act, 1945 ; the preparatory designs for the stations were drawn up and the preparation of the specifications for the turbines, generators and other associated equipment was in progress.

It is expected that the project will take approximately five years to complete.

MAIN TRANSMISSION SYSTEM.

(a) 110kV Lines :

The 110kV transmission line from Portarlington to Portlaoighise was completed and the line from Carrick-on-Shannon to Drogheda was almost completed. Construction of the 110kV line from Ballyshannon to Dublin was commenced.

To supply the projected 110kV transformer station at Athlone, a branch line, off the Ardnacrusha to Carrick-on-Shannon 110kV line, was surveyed, and the design was prepared.

Survey and design work was put in hand for 110kV transmission lines from the proposed generating station at Allenwood to Dublin, 25 miles, and to Portlaoighise, 29 miles.

Plans were prepared for the connection of the Dublin-Drogheda 110kV line to the new 110kV transformer station at Finglas, Dublin.

In consequence of the change in the relative prices of copper and aluminium, it was decided early in the year to substitute steel-cored aluminium for copper conductors on the new 110kV lines.

(b) 110kV Transformer Stations :

The switchgear additions and alterations at Portlaoighise to accommodate the new Portlaoighise-Portarlington line were completed.

Building operations for the new station at Finglas were started and the building designs for Athlone, Waterford, Drogheda and Carrick-on-Shannon were almost completed.

A considerable extension of Kilbarry Station, Cork, was partially designed and orders were placed for the necessary transformers and switchgear.

(c) Telecommunications :

It was decided to construct a central load despatch office in order to provide more direct telephonic communication with all main stations and to permit central supervision of the system operation. An order was placed for the communication equipment and the building design was nearing completion at the end of the year. The office will be situated in Dublin.

Additional high-frequency telephone equipment to connect Portarlington with Ardnacrusha and Inchicore was suplied.

The provision of a supervisory control office for the important substations in the Dublin area was under consideration.

A map of the transmission system will be found in Appendix XVII.

TRANSMISSION AND DISTRIBUTION SYSTEMS.

The following extensions and alterations to the high tension and low tension transmission and distribution networks were carried out :—

1.	Low tension overhead mains erected	84 miles
2.	Low tension overhead mains reconstructed or strengthened ...	28 ,,
3.	Low tension undergound mains installed	13 ,,
4.	10kV underground cables installed ...	22 ,,
5.	10kV overhead distribution lines erected (excluding rural lines) ...	175 ,,
*6.	38kV underground cables installed ...	8 ,,
7.	38kV overhead transmission lines erected	103 ,,
8.	Rural lines erected	1,730 ,,

* This cable, which is a continuation of the Dublin City 38kV development commenced last year, is of the oil pressure type having a cross sectional area of 3 x 260 sq. mm.

One new 38kV station was placed in commission at Allenwood.

Two hundred and seventy-one new 10kV transformer stations were placed in commission and twenty were retired from service. Eight new 5kV stations were commissioned.

RURAL ELECTRIFICATION.

The following table shows the progress of the Rural Electrification Scheme :—

Year ended 31st March	Work done during year			
	Poles erected	Miles of line strung	Consumers connected	Areas completed
1947 ...	1,300	39	Nil	Nil
1948 ...	15,986	721	2,203	7
1949 ...	32,002	1,730	9,262	30
Total to date	49,288	2,490	11,465	37

It will be noted that the progress of the construction work during the past year was more than double that of the preceding year.

Requests for supply continue to reach the Board from all parts of the country, and a considerable portion of the country has now been examined in order to select areas for immediate supply. Up to date one hundred and forty-four areas have been investigated in detail. The sixty-four areas developed, or selected for development, cover 1,596 square miles, or an average of 25 square miles per area.

The areas completed during the year, and those under construction at the close of the year, are listed in Appendix II.

Although supplies of materials were more plentiful, prices were still abnormal and construction costs, in consequence, continued at a very high level. In order to reduce costs, steel reinforced aluminium conductor was used on the greater part of the rural networks, and as this was the first time this type of conductor was used to any appreciable extent in this country, the services of an experienced instructor were availed of to train the construction crews.

The Rural Electrification Scheme was originally based under the Electricity (Supply) (Amendment) Act, 1945, on a subsidy of 50% of the capital investment so that the anticipated revenue might meet the estimated annual costs. Owing to the high capital cost levels prevailing and to enable the Scheme to proceed, the Board obtained an undertaking that any deficiency during the first two years working would be covered by an additional subsidy from the Transition Development Fund. Negotiations were in progress to ascertain the additional sum required.

Amongst the rural population the replacement of the old methods of dwelling house lighting is still the main reason for installing electricity. This very restricted use of the supply is gradually being altered. Many out-offices are now wired

for lighting, and lighting is also being extended to the farmyard itself. Consumers are also realising the advantages of the electric kettle, iron, cooker and mains radio in the dwelling house, and, in the farmyard, the use of motive power particularly for grain grinding is growing.

The price of fractional horse-power motors fell, and it is hoped to increase the popularity of these motors for driving farmyard machinery. Considerable numbers of 3 h.p. plate mills were sold and are giving satisfactory service, many of them being used to grind maize. A number of reasonably priced pressure storage pumping sets was ordered for early delivery, and it is hoped that these sets will help materially to encourage the use of electric water pumping for rural homes.

Successful experiments were carried out in co-operation with a poultry farmer to devise a satisfactory electrically heated chicken brooder which could, at a small cost, be made by any farmer. A pamphlet giving full constructional details was prepared and issued.

The mobile demonstration unit continued to tour the country. It is estimated that at least 50,000 people have attended the demonstrations in local halls and in schools. At each centre a full working display showing the uses of electricity for the home and farm was given and, in addition, films were shown and illustrated lectures were delivered.

A system whereby the rural consumers read their own meters and post the readings to the Board's head office was introduced. Payment of the account is made by the consumer either by post, or personally, to some designated collection office. The system has worked smoothly, and rural consumers are thus helping to keep down the cost of providing service.

Including work in progress, the total capital expenditure on rural electrification amounted to £1,262,723 at the 31st March, 1949.

WATER STORAGE AND RIVER CONTROL.

RIVER SHANNON.

The following data in connection with the flow of the River Shannon is contained in Appendix XI :—

(i) Daily water levels of, and average daily outflow from Lough Allen, Lough Ree and Lough Derg, respectively.
(ii) Average daily outflow from Parteen weir.
(iii) Average daily consumption at the power station.
(iv) Average daily outflow at Killaloe.

The average inflow at Killaloe was 187·6 cbm/sec. The water used for power generation amounted to 87·2% of the total discharge, excluding river compensation water.

The important hydrometric figures were as follows :—

Average rainfall in Shannon catchment	41·14 inches.
Average inflow to Shannon catchment	187·6 cbm/sec.
Average water used at Ardnacrusha power station	154·0 ,,
Average water used per unit generated	15·65 cbm.

Average available head at Ardnacrusha power station ... ... 28·30 m

Maximum available head at Ardnacrusha power station ... ... 30·26 m.

Minimum available head at Ardnacrusha power station ... ... 24·69 m.

(The average inflow to the catchment at Killaloe for the calendar year, 1948, was 207·0 cbm/sec.).

RIVER LIFFEY.

The following data in connection with the flow of the Upper Liffey is contained in Appendix XII :—

(i) Daily water level of Pollaphuca reservoir.

(ii) Average daily discharge in river below Golden Falls.

(iii) Draw-off by Dublin Corporation water supply.

The total average inflow to Pollaphuca reservoir was 8·78 cbm/sec or 3·7% below the long term mean, (9·12 cbm/sec), as compared with 2·5% for the Shannon catchment.

The draw-off by the Dublin Corporation for the city water supply averaged 9·7 million gallons per day, (0·51 cbm/sec), over the year.

The important hydrometric figures were as follows :—

Average inflow to Pollaphuca catchment ... ... 8·78 cbm/sec.

Average water used at Pollaphuca power station ... ... 7·12 ,,

Average water used by Dublin Corporation ... ... 0·51 ,,

Average water used per unit generated at Pollaphuca ... ... 8·95 cbm.

Average water used per unit generated at Golden Falls ... ... 28·83 ,,

(The total inflow for the calendar year, 1948, was 10·33 cbm/sec).

WATER POWER RESOURCES AND HYDROMETRIC SURVEY.

The collection of data, with a view to the investigation, and possible later development, of the further water power resources of the country was continued. The total number of rivers under observation, including the Erne and Lower Liffey, was sixteen. Daily flows were computed to date on eight of the rivers under observation and the rating curves were being prepared for the remaining eight rivers.

In addition to the normal flow data collected at three stations on the River Lee, four additional flow measuring stations were established to provide information which will be of assistance in the construction of the proposed development.

Work proceeded on the collection of hydrometric data on the Shannon and Upper Liffey for river control purposes, and, on the River Erne and Lower Liffey at Leixlip, in addition to the collection of flow data, hydrometric observations were in progress in relation to the projects under construction.

PERMITTED UNDERTAKINGS.

At the 31st March, 1949, there were sixty-seven supply undertakings operating under permits from the Board. During the year one permit lapsed as a result of the acquisition of the undertaking by the Board and four undertakings ceased supply. Particulars of all permitted undertakings, except where the number of consumers is three or under, are contained in Appendix XIV.

SUPERANNUATION SCHEMES.

At the end of the year the number of contributing members in the General Employees Superannuation Scheme was 1,225, and in the Manual Workers Superannuation Scheme, 1,302. Fifty-five persons were in receipt of pensions from the funds.

A total sum of £669,200 has been invested by the Trustees of the Superannuation Funds in loans to the Board under Section 8 of the Electricity Supply Board (Superannuation) Act, 1942.

TRIBUNAL TO DETERMINE DISPUTES.

The Tribunal has sent to the Board a Report of Proceedings in the year ended 31st March, 1949, and for record purposes this Report has been reproduced in Appendix XVI.

STAFF.

The strength of the Board's regular staff at the 31st March, 1949, was 3,080.

The Board desires to express its appreciation of the manner in which the members of the staff performed their duties.

(Signed) R. F. BROWNE (Chairman).
J. M. FAY.
LIAM FORDE.
HENRY GOLDEN.
HENRY KENNEDY.
LAURENCE J. KETTLE.
T. A. McLAUGHLIN.

PATRICK J. DEMPSEY, Secretary.

29th June, 1949.

REPORT

ON THE

SHANNON FISHERIES

27 LOWER FITZWILLIAM STREET,
DUBLIN.

TO THE MINISTER FOR INDUSTRY AND COMMERCE.

In accordance with the provisions of Sections 17 and 18 of the Shannon Fisheries Act, 1935, the Board presents the Annual Report and Accounts for the year ended 31st March, 1949.

The proceeds from the sale of salmon, grilse, eels, and oysters, the leasing of fishing rights, and miscellaneous fishery receipts amounted to £14,092, as compared with £18,382 in the preceding year. Having charged interest and sinking fund amounting to £11,194 on the capital invested in the fisheries, and making an allowance of £1,006 for depreciation, the Profit and Loss Account showed a deficiency of £12,136, compared with £5,354 for the previous year. The debit for fishery rates was £3,719.

SALMON FISHERIES.

Although the run of spring salmon during February was the best experienced for a number of years, the weight of the catch at Thomond Weir and the Stake Weirs was somewhat less than in the previous year. The smolt migration was again heavy and the spawning was the most promising for several years.

The price of salmon remained unchanged and the proceeds from sales amounted to £8,674, as compared with £9,215 for the preceding year. Approximately half the catch was sold in the London market, and the remainder in the Dublin and local markets.

The following table shows the run of fish as recorded at Thomond Weir, and it will be noted that there is a steady decline until the year ended 31st March, 1946, when the lowest run was recorded.

Year ended 31st March.		Recorded run.
1942	...	22,308
1943	...	18,681
1944	...	18,344
1945	...	11,321
1946	...	6,473
1947	...	10,355
1948	...	8,809
1949	...	10,261

The average weight of salmon taken at Thomond Weir was 12·2 lbs., as compared with 13·0 lbs. last year, and the grilse averaged 6·2 lbs., as compared with 6·7 lbs. At the Stake Weirs the salmon averaged 11·1 lbs., and the grilse 5·7 lbs., as against 11·2 lbs. and 6·2 lbs., respectively, in the preceding year.

EEL FISHERIES.

The total weight of eels taken for the season showed a decrease as follows :—

Location.	Year ended 31st March. 1949.	1948.
Athlone ...	10,080 lbs.	Not Fishing
Castleconnell ...	3,941 ,,	3,948 lbs.
Killaloe ...	29,137 ,,	51,792 ,,
	43,158 lbs.	55,740 lbs.

The weirs at Athlone and Killaloe were equipped with new nets and the fishing at Athlone was reasonably satisfactory.

The revenue from eels was seriously affected by an unfortunate occurrence at Killaloe which resulted in the loss of approximately eight tons of eels, valued at £3,250. This unprecedented loss was occasioned, within a period of forty-eight hours, in one of the storage tanks, by a heavy mortality, the cause of which has not been established.

The sale of eels realised £4,203, as compared with £9,215 in the preceding year, the price varying from 3s. 0d. per lb. in the early season to 4s. per lb. in January and February. The price last year was controlled at 3s. 3d. per lb.

OYSTER FISHERIES.

A further experiment in tank oyster propagation was made, under the supervision of the late Mr. G. P. Farran, in the mussel tanks of the Irish Sea Fisheries Association at Cromane, Co. Kerry. The experiment, however, was not a success as spatting was not possible owing to the fact that the water had not reached the required temperature.

A small number of four-year-old seed oysters was imported by air from Brittany direct to Shannon Airport in April, and was placed on the oyster beds at Ballylongford, Co. Kerry. Their development during the year has been very satisfactory and a good price was obtained for a small quantity sold on the Dublin and local markets. Arrangements were being made to import a further quantity early in the coming year.

(Signed) R. F. BROWNE, (Chairman).
J. M. FAY.
LIAM FORDE.
HENRY GOLDEN.
HENRY KENNEDY.
LAURENCE J. KETTLE.
T. A. McLAUGHLIN.

PATRICK J. DEMPSEY, Secretary.

29th June, 1949.

APPENDICES

LIST OF APPENDICES.

Appendix.

I.—Number of Consumers and other particulars relating to areas supplied by the Board.

II.—Rural Electrification.

III.—Generation load duration, and integrated load duration, curves.

IV.—Distribution at high tension of units generated.

V.—Outputs of the Board's generating stations.

VI.—Typical daily generation load curves.

VII.—Capacity of the Board's main generating stations.

VIII.—Weekly outputs and peak loads year ended 31st March, 1949.

IX.—Liffey Catchment weekly operating conditions, year ended 31st March, 1949.

X.—Shannon Catchment weekly operating conditions, year ended 31st March, 1949.

XI.—Water levels and discharges, Loughs Allen, Ree and Derg.

XII.—Water levels and discharges of Pollaphuca reservoir.

XIII.—Transmission and distribution systems in commission.

XIV.—Particulars of permitted undertakings providing supply at 31st March, 1949.

XV.—Units generated per annum from 1st April, 1928, to 31st March, 1949.

XVI.—Report of the Tribunal set up under the Electricity Supply Board (Superannuation) Act, 1942.

XVII.—Map of transmission system.

Number of Consumers and other particulars relating to areas supplied by the Board.

District	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1948	1949	1948	1949
Athlone	44,192	8,984	10,151	7,249	8,927
Cork No. 1	99,011	20,038	21,247	20,128	20,831
Cork No. 2	56,277	11,922	13,314	12,684	13,284
Dublin No. 1	475,594	105,093	109,381	75,196	76,706
Dublin No. 2	106,882	28,992	32,096	16,408	17,478
Dundalk	66,833	13,668	15,520	25,191	26,234
Galway	41,034	7,770	8,737	4,619	4,881
Limerick	92,814	19,710	22,559	19,729	20,523
Portlaoighise	63,516	13,279	14,450	11,477	15,322
Sligo	41,029	9,623	10,948	7,293	7,768
Tralee	29,595	6,247	7,063	4,818	5,657
Waterford	92,936	17,272	18,732	15,094	15,648
TOTALS	1,209,713	262,598	284,198	219,886	233,259

ATHLONE DISTRICT.

Towns and Areas Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1948	1949	1948	1949
ATHLONE AREA.					
Athlone	7,257	1,742	1,814	2,586	2,807
Moate	1,326	219	228	37	37
BALLINASLOE AREA.					
Ahascragh	269	56	57	4	13
Ballinasloe	5,834	647	693	463	471
BIRR AREA.					
Banagher	720	149	154	110	110
Birr	3,297	511	576	55	276
Borrisokane	551	174	177	7	8
Cloghan	188	31	32	33	33
Eyrecourt	323	57	58	40	40
Ferbane	301	80	85	3	3
Kilcormac	448	87	89	39	48
Killimor (Rural Area) ...	—	Nil	276	Nil	Nil
Lorrha	98	26	27	Nil	Nil
Lusmagh (Rural Area) ...	—	Nil	189	Nil	11
Portumna	894	184	199	345	325
LONGFORD AREA.					
Abbeyshrule (Rural Area)	—	Nil	267	Nil	25
Ardagh	—	24	27	1	1
Ballymahon	643	140	137	63	74
Edgeworthstown	515	124	112	47	47
Granard	1,236	207	214	27	27
Longford	3,807	805	822	142	151
Newtownforbes	369	46	45	45	45
MULLINGAR AREA.					
Castlepollard	460	Nil	113	Nil	2
Mullingar	5,237	1,125	1,135	739	719
Multyfarnham (Rural Area)	—	215	233	Nil	1
ROSCOMMON AREA.					
Athleague	208	37	37	27	27
Ballygar	335	93	92	33	36
Roscommon	2,040	453	458	77	87
TULLAMORE AREA.					
Ballinagar	—	4	5	Nil	Nil
Clara	1,590	425	433	461	1,592
Daingean	518	74	73	14	14
Kilbeggan	593	146	151	20	44
Tullamore	5,135	1,103	1,143	1,831	1,853
TOTALS	44,192	8,984	10,151	7,249	8,927

CORK No. 1 DISTRICT.

Cork City	99,011	20,038	21,247	20,128	20,831
TOTALS	99,011	20,038	21,247	20,128	20,831

CORK No. 2 DISTRICT.

Towns and Areas Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1948	1949	1948	1949
BANDON AREA.					
Bandon	3,500	874	882	732	811
Crookstown	—	26	45	285	326
Innishannon	182	36	38	65	65
Kinsale	2,661	470	478	181	178
Macroom	2,382	480	491	235	237
CLONAKILTY AREA.					
Clonakilty	2,961	553	565	703	717
Courtmacsherry	221	47	50	5	5
Timoleague	248	62	66	11	11
COBH AREA.					
Cobh	6,272	1,146	1,237	1,148	1,154
Haulbowline	—	20	19	2,493	2,480
DUNMANWAY AREA.					
Ballineen	272	66	66	162	163
Bantry	2,643	480	492	117	120
Castletownsend	147	40	42	Nil	Nil
Drimoleague	344	73	77	63	63
Drinagh	—	25	29	429	429
Dunmanway	1,561	289	293	131	131
Enniskeane	162	34	36	4	4
Glandore	124	18	22	Nil	1
Glengariff	—	38	45	2	3
Leap	157	35	34	1	1
Skibbereen	2,541	567	581	418	529
FERMOY AREA.					
Castlelyons	113	25	27	128	129
Fermoy	4,123	717	751	448	458
Glanworth	261	52	53	12	12
Kildorrery	236	67	74	60	62
Mitchelstown	1,902	506	518	1,037	1,043
Rathcormac	187	31	32	Nil	3
KILBARRY AREA.					
Ballincollig	400	71	86	Nil	3
Bishopstown, etc. ...	97	179	212	36	36
Blarney	723	198	202	311	311
Carrigaline	315	105	111	193	196
Crosshaven	724	177	191	89	124
Glanmire	213	97	99	95	95
Glounthaune	—	16	21	Nil	Nil
Inniscarra (Rural Area) ...	—	246	587	Nil	41
Kilbarry	272	63	66	124	124
Monkstown	2,648	168	176	3	3
Passage West		340	363	16	19
White's Cross (Rural Area)	—	Nil	253	Nil	Nil
MALLOW AREA					
Buttevant	881	205	215	137	322
Castletownroche	443	76	76	53	53
Doneraile	740	184	187	32	32
Drommahane	96	21	21	70	70
Lombardstown (Village) ...	—	9	10	156	157
Lombardstown (Rural Area)	—	Nil	259	Nil	1
Mallow	4,948	1,069	1,093	1,174	1,200

CORK No. 2 DISTRICT—*continued.*

Towns and Areas Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1948	1949	1948	1949
MIDLETON AREA.					
Ballinacurra	403	86	92	190	190
Carrigtwohill	402	53	56	59	80
Castlemartyr	346	65	67	116	120
Cloyne	684	102	109	137	137
Killeagh	235	57	57	101	101
Midleton	2,823	563	606	354	361
Mogeely	—	8	8	25	25
Rostellan	112	48	52	Nil	Nil
Upper Aghada	155	23	23	16	16
Whitegate	286	80	88	6	8
YOUGHAL AREA.					
Youghal	5,131	836	885	321	324
TOTALS	56,277	11,922	13,314	12,684	13,284

DUBLIN No. 1 DISTRICT.

Dublin City	475,594	105,093	109,381	75,196	76,706
TOTALS	475,594	105,093	109,381	75,196	76,706

DUBLIN No. 2 DISTRICT.

BALBRIGGAN AREA.					
Balbriggan	2,434	478	497	186	252
Balrothery	—	12	11	Nil	Nil
Skerries	2,134	624	661	112	121
BALLYMUN AREA.					
Artane	996	71	99	75	84
Ballymun	—	113	253	Nil	Nil
Blanchardstown ...	417	185	203	39	39
Castleknock	1,789	184	199	151	162
Coolock	349	97	103	1	7
Finglas	1,383	455	569	277	314
Kilsallaghan (Rural Area) ...	—	355	386	Nil	131
Santry	116	127	146	97	124
Turnapin	238	29	33	Nil	Nil
BRAY AREA.					
Bray	10,347	2,688	2,829	1,901	1,911
Enniskerry	145	92	103	Nil	Nil
Kilmacanogue	—	65	71	Nil	Nil
Shankill—Loughlinstown ...	2,332	452	475	25	25
CHAPELIZOD AREA.					
Bluebell	399	96	99	92	108
Chapelizod	—	362	393	99	99
Clondalkin	967	341	384	4,078	4,113

DUBLIN No. 2 DISTRICT—*continued.*

Towns and Areas Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1948	1949	1948	1949
CHAPELIZOD AREA—*contd.*					
Clonee	112	30	31	51	51
Clonsilla—Porterstown ...	819	125	140	35	49
Dunboyne	290	60	64	44	43
Kingswood	—	18	18	Nil	Nil
Knockmaroon	—	14	14	1	1
Tallaght	611	145	150	476	487
The Ranch	—	154	303	Nil	38
DÚN LAOGHAIRE AREA.					
Dundrum—Sandyford ...	7,560	2,376	2,566	304	334
Dún Laoghaire Borough ...	39,785	9,356	9,777	1,912	2,049
Kiltiernan—Scalp ...	713	143	143	11	11
Rockbrook	—	41	51	Nil	Nil
Stepaside	102	19	20	Nil	Nil
Stillorgan—Ballybrack ...	7,000	1,507	1,629	278	282
GRANGE AREA.					
Baldoyle	765	219	226	26	26
Balgriffin	—	66	74	11	12
Raheny	—	296	326	24	24
GREYSTONES AREA.					
Delgany—Killincarrig ...	1,060	244	271	9	9
Greystones	1,535	621	648	327	331
Kilcoole	303	120	120	Nil	Nil
Newtownmountkennedy ...	208	162	206	11	11
HOWTH AREA.					
Howth—Sutton	4,832	1,229	1,291	113	119
LEIXLIP AREA.					
Ballydowd	—	20	20	Nil	Nil
Celbridge	627	207	210	133	141
Esker (Rural Area) ...	—	Nil	1	Nil	Nil
Kilcock	475	97	108	68	83
Leixlip	571	231	228	329	330
Lucan	867	398	415	271	528
Maynooth	632	171	182	166	166
Newcastle (Rural Area) ...	—	Nil	300	Nil	Nil
Palmerstown	208	35	35	60	60
Rathcoole	223	76	79	7	7
Saggart	116	49	50	1,573	1,573
Straffan (Rural Area) ...	—	Nil	329	Nil	Nil
NAAS AREA.					
Ballymore Eustace ...	338	123	115	118	118
Blessington	289	124	126	82	132
Clane	145	44	47	Nil	20
Kill—Johnstown	95	69	72	110	110
Naas	3,290	654	631	561	611
Poulaphuca	—	11	10	3	3
Sallins	276	66	74	339	339
SWORDS AREA.					
Donabate	186	186	207	123	123
Kinsaley	—	21	25	Nil	Nil

DUBLIN No. 2 DISTRICT—*continued.*

Towns and Areas Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1948	1949	1948	1949
SWORDS AREA—*contd.*					
Lusk	305	119	121	4	4
Malahide	1,259	466	502	250	260
Portmarnock	516	162	165	7	7
Ratoath (Rural Area) ...	—	Nil	200	Nil	Nil
Rush	1,651	426	465	53	76
Swords	838	302	348	227	227
WICKLOW AREA.					
Ashford	—	97	100	60	60
Glenealy	—	33	34	92	92
Kilbride (Rural Area) ...	—	81	245	Nil	Nil
Rathdrum	504	209	214	483	509
Rathnew	547	103	165	79	79
Wicklow	3,183	641	691	444	453
TOTALS	106,882	28,992	32,096	16,408	17,478

DUNDALK DISTRICT.

BALLYBAY AREA.					
Ballybay	1,034	256	252	94	289
Castleblayney	1,725	407	413	593	686
Monaghan	4,780	715	739	1,041	1,096
Tydavnet (Rural Area) ...	—	Nil	175	Nil	100
CARRICKMACROSS AREA.					
Ardee	2,383	326	338	301	322
Bailieborough	854	205	214	369	370
Carrickmacross	2,095	440	470	238	223
Drumcondrath	147	27	30	Nil	Nil
Kingscourt	631	136	136	826	826
Shercock	228	66	77	171	207
CAVAN AREA.					
Arvagh	525	105	110	11	11
Ballinagh	314	64	63	Nil	4
Ballyjamesduff	434	106	108	29	29
Belturbet	1,341	236	244	259	259
Butler's Bridge	96	23	25	10	10
Cavan	3,393	658	672	286	325
Crossdoney	—	6	4	12	12
Gowna (Rural Area) ...	—	Nil	103	Nil	Nil
Killeshandra	473	105	111	444	414
Kilnaleck	247	43	45	2	2
Oldcastle	586	159	168	39	44
Virginia	418	99	103	79	80
COOTEHILL AREA.					
Clones	2,400	556	582	138	156
Cootehill	1,593	306	330	186	289
Drum	72	15	13	Nil	Nil

DUNDALK DISTRICT—*continued.*

Towns and Areas Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1948	1949	1948	1949
DROGHEDA AREA.					
Bettystown, etc.	258	207	214	46	46
Clogher Head	566	Nil	75	Nil	Nil
Drogheda	14,494	2,730	2,932	3,457	3,577
Julianstown (Rural Area)	—	159	401	Nil	15
Newtown	—	1	1	10,833	10,854
Termonfeckin (Rural Area)	—	Nil	459	Nil	Nil
DUNDALK AREA.					
Blackrock (Louth) ...	695	203	223	28	34
Cooley (Rural Area) ...	—	Nil	1	Nil	Nil
Dundalk	16,214	3,534	3,741	4,037	4,207
Dunleer	435	Nil	88	Nil	Nil
NAVAN AREA.					
An Uaimh (Navan) ...	4,123	954	971	1,232	1,265
Athboy	520	133	154	89	91
Ceanannus Mór (Kells) ...	2,304	434	467	263	271
Trim	1,455	254	268	78	120
TOTALS	66,833	13,668	15,520	25,191	26,234

GALWAY DISTRICT.

CASTLEBAR AREA.					
Balla	282	Nil	68	Nil	2
Castlebar	4,826	775	799	716	729
Newport (Mayo) ...	353	103	111	32	34
Louisburgh	346	Nil	77	Nil	Nil
Murrisk (Rural Area) ...	—	5	202	Nil	3
Westport	3,409	678	692	708	719
GALWAY AREA.					
Galway	18,294	3,423	3,517	1,849	1,921
GORT AREA.					
Ardrahan (Rural Area) ...	—	98	243	Nil	Nil
Athenry	1,048	226	227	153	153
Clarinbridge	123	20	26	Nil	Nil
Gort	1,034	230	230	163	166
Kinvara	420	47	49	Nil	Nil
Loughrea	2,891	349	356	167	292
Oranmore	184	36	37	24	24
TUAM AREA.					
Ballinrobe	1,351	278	281	40	40
Ballyhaunis	1,160	266	274	78	77
Claremorris	1,132	360	366	501	502
Dunmore (Rural Area) ...	—	Nil	283	Nil	Nil
Tuam	4,181	876	899	188	219
TOTALS	41,034	7,770	8,737	4,619	4,881

LIMERICK DISTRICT.

Towns and Areas Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1948	1949	1948	1949
CAHIR AREA.					
Ardfinnan	325	Nil	99	Nil	60
Cahir (Town)	1,638	398	409	288	288
Cahir (Rural Area) ...	—	Nil	219	Nil	Nil
Cashel	3,028	436	448	172	196
New Inn	117	21	27	96	96
ENNIS AREA.					
Clarecastle	549	105	109	Nil	1
Ennis	5,897	1,279	1,344	660	688
Kilkishen	108	25	25	Nil	Nil
Newmarket-on-Fergus ...	368	96	112	55	55
Quin (Rural Area) ...	—	Nil	139	Nil	Nil
Rineanna—Ballygireen ...	—	66	28	390	403
Tulla	474	100	106	6	17
ENNISTYMON AREA.					
Ennistymon	1,264	289	294	207	259
Kilfenora	165	43	43	Nil	3
Lahinch	327	79	82	2	2
Lisdoonvarna	193	125	128	Nil	Nil
Miltown-Malbay	809	178	180	8	8
Mullagh (Rural Area) ...	—	Nil	438	Nil	Nil
Spanish Point	—	6	6	1	1
KILRUSH AREA.					
Kilkee	1,863	336	342	34	32
Kilrush	3,426	561	601	452	585
LIMERICK AREA.					
Annacotty	—	34	39	90	90
Ardnacrusha—Clonlara ...	249	81	92	357	357
Birdhill	—	13	13	24	24
Castleconnell	219	87	95	Nil	Nil
Castlemungret	—	1	1	2,670	2,670
Castletroy	—	44	60	204	294
Killaloe—Ballina (Tipp.) ...	1,066	244	251	196	196
Limerick City	43,663	9,524	9,755	8,425	8,492
Murroe	—	2	2	40	40
Newport (Tipp.)	494	101	105	139	123
O'Brien's Bridge—Montpelier	277	32	31	Nil	Nil
Patrickswell (Rural Area) ...	—	487	494	Nil	33
NENAGH AREA.					
Nenagh	4,902	862	931	895	955
RATHKEALE AREA.					
Adare	497	143	159	183	200
Ardagh	119	36	39	121	127
Askeaton	581	120	124	191	191
Ballingarry (Co. Limerick)	339	70	76	74	74
Castlemahon	72	16	15	94	94
Cloncagh	—	6	7	74	74
Croom	791	103	105	16	16
Foynes	497	102	115	85	85
Newcastle West	2,943	466	496	222	266
Rathkeale	1,565	276	281	182	188
Shanagolden	260	Nil	53	Nil	Nil

LIMERICK DISTRICT—*continued.*

Towns and Areas Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1948	1949	1948	1949
RATH LUIRC AREA.					
Ballagh	—	1	1	165	165
Ballylanders	193	52	52	19	19
Broadford (Rath Luirc) ...	162	22	25	Nil	Nil
Bruff	349	90	93	16	13
Bruree	250	72	74	69	117
Bulgaden	—	2	2	Nil	Nil
Dromina	109	15	15	20	20
Drumcollogher	457	112	116	22	37
Elton	—	12	12	100	100
Galbally	195	33	37	20	20
Garryspillane	—	10	10	57	71
Hospital	609	121	126	38	38
Herbertstown	85	23	25	136	136
Kilfinane (Town)	818	158	159	55	56
Kilfinane (Rural Area) ...	—	Nil	196	Nil	Nil
Kilmallock	861	287	299	287	288
Knocklong	—	36	38	246	257
Martinstown	—	1	1	Nil	Nil
Milford (Rath Luirc) ...	161	36	38	222	223
Newtown (Rath Luirc) ...	106	19	22	87	87
Rath Luirc (Charleville) ...	1,625	409	424	290	307
TIPPERARY AREA.					
Bansha (Rural Area) ...	—	Nil	421	Nil	8
Caherconlish	305	47	48	Nil	Nil
Cappamore	558	72	73	168	168
Cappawhite	426	58	62	15	15
Doon	478	65	68	24	24
Emly (Rural Area) ...	—	Nil	565	Nil	Nil
Lattin	—	1	1	123	123
Limerick Junction ...	206	48	49	58	58
Oola	392	28	33	92	92
Solohead	—	9	9	49	49
Tipperary	5,384	878	947	698	749
TOTALS	92,814	19,710	22,559	19,729	20,523

PORTLAOIGHISE DISTRICT.

ATHY AREA.					
Athy	3,628	673	695	652	3,039
CARLOW AREA.					
Carlow	7,649	1,310	1,349	905	1,202
Leighlinbridge	425	88	93	112	112
Muine Bheag (Town) ...	1,897	356	374	254	259
Muine Bheag (Rural Area)	—	Nil	317	Nil	Nil
Palatine	101	19	19	Nil	Nil
Tinryland (Rural Area) ...	—	266	267	Nil	10
CASTLECOMER AREA.					
Abbeyleix	664	179	187	70	81
Ballinakill	338	63	62	36	39
Ballyragget	449	113	115	23	23

PORTLAOIGHISE DISTRICT—*continued.*

Towns and Areas Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1948	1949	1948	1949
CASTLECOMER Area—*contd.*					
Ballyroan	127	24	23	Nil	Nil
Castlecomer	809	227	232	1,262	1,263
Clogh	167	35	36	Nil	Nil
Durrow	462	100	103	12	12
Freshford	456	121	124	228	228
The Swan	—	28	27	557	514
Urlingford—Johnstown ...	835	133	140	11	11
DROICHEAD NUA AREA.					
Brannockstown—Milemill ...	—	37	39	Nil	Nil
Droichead Nua, etc. ...	2,375	709	738	1,055	1,321
Dunlavin	332	87	90	19	20
Kilcullen	441	128	139	46	50
KILDARE AREA.					
Curragh Camp, etc. ...	226	152	164	269	288
Edenderry	2,093	418	432	322	409
Kildare	1,758	487	501	166	360
Rathangan	431	82	91	76	77
KILKENNY AREA.					
Callan	1,516	261	272	271	271
Kilkenny—Talbot's Inch ...	10,345	1,737	1,801	930	1,081
PORTARLINGTON AREA.					
Clonaslee (Rural Area) ...	—	Nil	212	Nil	10
Clonbullogue	79	16	18	Nil	Nil
Monasterevan	580	136	141	142	141
Mountmellick	2,314	424	433	158	174
Portarlington—Clonsast ...	1,851	475	503	1,015	1,207
PORTLAOIGHISE AREA.					
Castletown	251	26	29	Nil	Nil
Mountrath	1,116	217	225	60	93
Portlaoighise	3,396	810	822	844	853
Stradbally	762	132	137	36	39
ROSCREA AREA.					
Ballybrophy—Donaghmore	87	13	14	7	66
Borris-in-Ossory	216	50	49	37	37
Rathdowney	825	185	186	15	23
Roscrea	3,060	637	658	830	896
THURLES AREA.					
Borrisoleigh	544	109	116	50	50
Loughmore	—	21	21	Nil	Nil
Moyne (Rural Area) ...	—	Nil	189	Nil	Nil
Templemore	1,981	345	359	201	228
Thurles	5,648	1,033	1,075	502	526
TULLOW AREA.					
Baltinglass	659	203	207	37	37
Castledermot	276	124	124	78	78
Hacketstown	377	93	98	29	30

PORTLAOIGHISE DISTRICT—*continued.*

Towns and Areas Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1948	1949	1948	1949
TULLOW AREA—*contd.*					
Kiltegan	101	24	24	Nil	Nil
Rathvilly	253	38	39	2	3
Tullow	1,616	335	341	158	161
TOTALS	63,516	13,279	14,450	11,477	15,322

SLIGO DISTRICT.

BALLAGHADEREEN AREA.					
Ballaghadereen	1,122	315	321	168	170
Ballymote	738	219	226	139	143
Castlerea	1,313	355	361	188	189
Gurteen	—	43	48	30	31
Loughglynn	114	22	24	Nil	Nil
Mantua (Rural Area) ...	—	Nil	314	Nil	12
BALLINA AREA.					
Ballina	5,728	1,344	1,368	751	754
Crocketstown	171	28	28	Nil	Nil
Crossmolina	660	150	155	44	45
Easky (Rural Area) ...	—	198	359	3	6
Inniscrone	399	125	130	23	24
Killala	449	69	69	1	1
BALLYSHANNON AREA.					
Ballintra	287	Nil	42	Nil	Nil
Ballyshannon	2,223	664	638	1,363	1,381
Bundoran	1,352	394	384	47	130
Rossnowlagh (Rural Area)	—	Nil	208	Nil	Nil
CARRICK-ON-SHANNON AREA.					
Arigna	—	13	15	358	398
Ballinamore	814	177	182	4	5
Boyle	—	2	2	36	36
Carrick-on-Shannon ...	1,015	346	350	165	240
Carrigallen (Rural Area) ...	—	Nil	198	Nil	37
Drumsna	122	15	18	Nil	Nil
Elphin	548	124	126	14	24
Jamestown	—	7	7	Nil	Nil
Leitrim	107	27	27	Nil	Nil
Mohill	714	207	211	44	56
Strokestown	628	166	168	34	36
LETTERKENNY AREA.					
Convoy	369	96	95	720	758
Letterkenny	2,649	581	597	148	155
Lifford	478	150	153	59	60
SLIGO AREA.					
Blacklion	110	32	33	Nil	Nil
Collooney	310	2	2	400	400

SLIGO DISTRICT—*continued.*

Towns and Areas Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1948	1949	1948	1949
SLIGO AREA—*contd.* ...					
Manorhamilton	976	212	213	62	80
Rosses Point	214	63	81	Nil	Nil
Sligo	12,565	2,278	2,421	1,861	1,934
Strandhill (Rural Area) ...	—	Nil	141	Nil	Nil
SWINFORD AREA.					
Charlestown—Bellahy ...	773	200	204	41	44
Curry	—	17	16	Nil	Nil
Foxford	805	173	179	264	267
Kilkelly	160	62	71	Nil	Nil
Kiltimagh	1,090	244	249	72	85
Swinford	1,203	310	318	166	178
Tubbercurry	823	193	196	88	89
TOTALS	41,029	9,623	10,948	7,293	7,768

TRALEE DISTRICT.

KANTURK AREA.					
Boherbue	242	57	62	134	134
Dromtariffe	—	2	7	48	60
Kanturk	1,555	363	378	445	449
Millstreet	975	220	221	158	158
Newmarket (Cork) ...	838	197	205	198	201
KILLARNEY AREA.					
Castlemaine	104	25	26	157	157
Killarney	5,609	956	994	332	518
Killorglin	775	243	245	150	152
Miltown	311	65	66	16	36
Rathmore	184	41	50	239	726
LISTOWEL AREA.					
Abbeyfeale	1,122	245	253	125	124
Athea	259	58	58	Nil	Nil
Ballybunion	543	233	214	Nil	Nil
Ballylongford	514	86	96	144	149
Brosna	332	67	70	285	285
Duagh	128	13	15	Nil	Nil
Glin	516	95	101	115	115
Listowel	3,098	618	633	524	560
Newtownsandes	230	45	47	59	59
Tarbert	315	58	61	32	32
TRALEE AREA.					
Ardfert (Rural Area) ...	—	Nil	212	Nil	35
Ballymacelligott (Rural Area)	—	21	236	Nil	7
Castleisland	1,325	306	312	252	256
Edenburn	—	1	1	18	18
Fenit (Rural Area) ...	—	Nil	217	Nil	Nil
Tralee	10,620	2,232	2,283	1,387	1,426
TOTALS	29,595	6,247	7,063	4,818	5,657

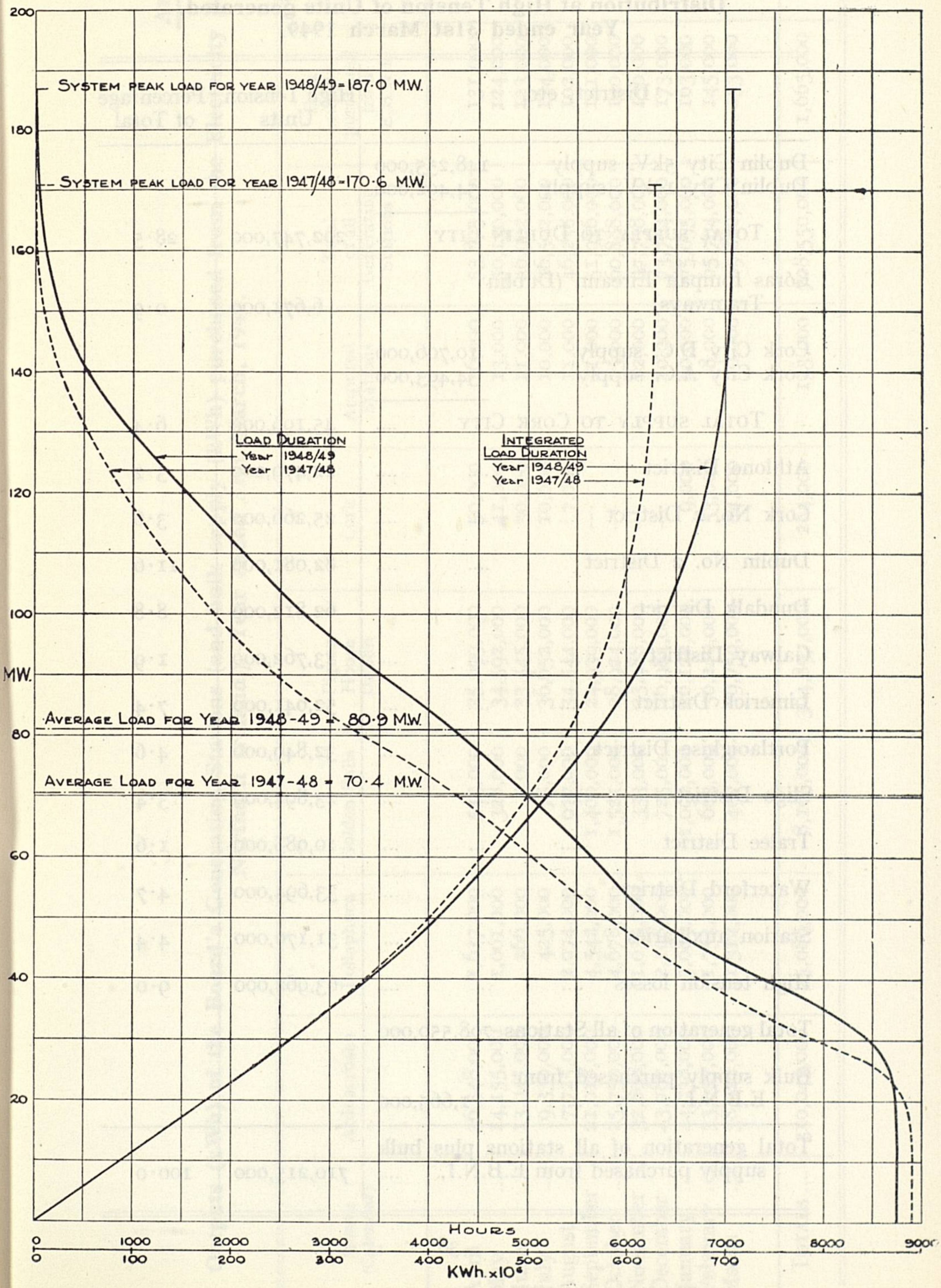
WATERFORD DISTRICT.

Towns and Areas Supplied	Population (1936)	No. of Consumers at 31st March		Industrial Motive H.P. at 31st March	
		1948	1949	1948	1949
ARKLOW AREA.					
Arklow	4,680	1,081	1,104	730	760
Gorey	2,323	455	485	437	453
CARRICK-ON-SUIR AREA.					
Carrick-on-Suir	4,840	823	836	687	692
Piltown	287	62	69	238	241
Portlaw	847	197	197	816	816
CLONMEL AREA.					
Ballingarry (Rural Area) ...	—	Nil	27	Nil	Nil
Ballypatrick	—	4	4	76	76
Clonmel	9,391	1,563	1,699	905	964
Fethard	1,112	233	243	66	66
Killenaule	511	95	97	556	559
DUNGARVAN AREA.					
Ballyduff (Rural Area) ...	—	Nil	258	Nil	1
Cappagh	—	3	3	25	25
Cappoquin	1,038	205	218	118	119
Dungarvan	5,361	1,077	1,089	912	943
Lismore	1,194	253	263	125	128
Tallow	779	170	178	34	34
ENNISCORTHY AREA.					
Carnew	516	82	86	30	30
Clonegal	136	27	30	Nil	Nil
Enniscorthy	5,873	1,034	1,099	791	837
Ferns	342	111	113	113	113
Newtownbarry—Carrickduff	766	214	226	52	57
Shillelagh	147	33	37	2	5
Tinahely	296	68	74	16	17
NEW ROSS AREA.					
Ballyhale	102	28	31	10	10
Borris (Carlow)	530	97	98	10	35
Campile	117	17	16	198	200
Graiguenamanagh—Tinnahinch	1,125	250	257	214	250
Inistioge	326	47	48	Nil	Nil
New Ross	5,056	814	835	760	765
Shelbourne (Rural Area) ...	—	Nil	241	Nil	7
Thomastown	769	185	200	54	56
TRAMORE AREA.					
Dunmore East	308	114	111	12	13
Passage East	431	68	83	5	5
Tramore	2,047	733	756	63	84
WATERFORD AREA.					
Mooncoin	308	Nil	44	Nil	Nil
Pollrone (Rural Area) ...	—	72	205	Nil	57
Waterford	27,968	5,141	5,311	5,213	5,358
WEXFORD AREA.					
Rosslare Harbour—Kilrane	629	135	140	239	239
Rosslare Strand	189	100	104	47	47
Taghmon	345	58	63	9	31
Wexford	12,247	1,623	1,754	1,531	1,555
TOTALS	92,936	17,272	18,732	15,094	15,648

Rural Electrification.

Areas completed during the year ended 31st March, 1949.		Areas under construction, or selected for development, at the 31st March, 1949.	
AREA.	COUNTY.	AREA.	COUNTY.
Muinebeag ...	Carlow	Churchtown ...	Cork
Gowna ...	Cavan	Coachford ...	Cork
Mullagh ...	Clare	Great Island ...	Cork
Quin ...	Clare	Knocknagree ...	Cork
Lombardstown	Cork	Esker ...	Dublin
White's Cross ...	Cork	Jobstown ...	Dublin
Rossnowlagh ...	Donegal	Templecarrig ...	Dublin
Newcastle ...	Dublin	Knock ...	Galway
Ardrahan ...	Galway	Spiddal ...	Galway
Dunmore ...	Galway	Ballitore ...	Kildare
Killimor ...	Galway	Caherconlish ...	Limerick
Ardfert ...	Kerry	Hospital ...	Limerick
Fenit ...	Kerry	Kilfinane ...	Limerick
Kill-Straffan ...	Kildare	Oola ...	Limerick
Pollroan ...	Kilkenny	Cooley ...	Louth
Clonaslee ...	Laoighis	Haggardstown	Louth
Carrigallen ...	Leitrim	Tydavnet ...	Monaghan
Emly ...	Limerick	Shinrone ...	Offaly
Abbeyshrule ...	Longford	Moore ...	Roscommon
Termonfeckin ...	Louth	Drumcliffe ...	Sligo
Murrisk ...	Mayo	Riverstown ...	Sligo
Julianstown ...	Meath	Strandhill ...	Sligo
Ratoath ...	Meath	Ballingarry ...	Tipperary
Lusmagh ...	Offaly	Cahir ...	Tipperary
Mantua ...	Roscommon	Shandon ...	Waterford
Bansha ...	Tipperary	Inch	Wexford
Moyne ...	Tipperary	Kilpeddar ...	Wicklow
Ballyduff ...	Waterford		
Shelburne ...	Wexford		
Kilbride ...	Wicklow		

GENERATION LOAD DURATION & INTEGRATED LOAD DURATION CURVES, YEAR ENDED 31st MARCH, 1949.



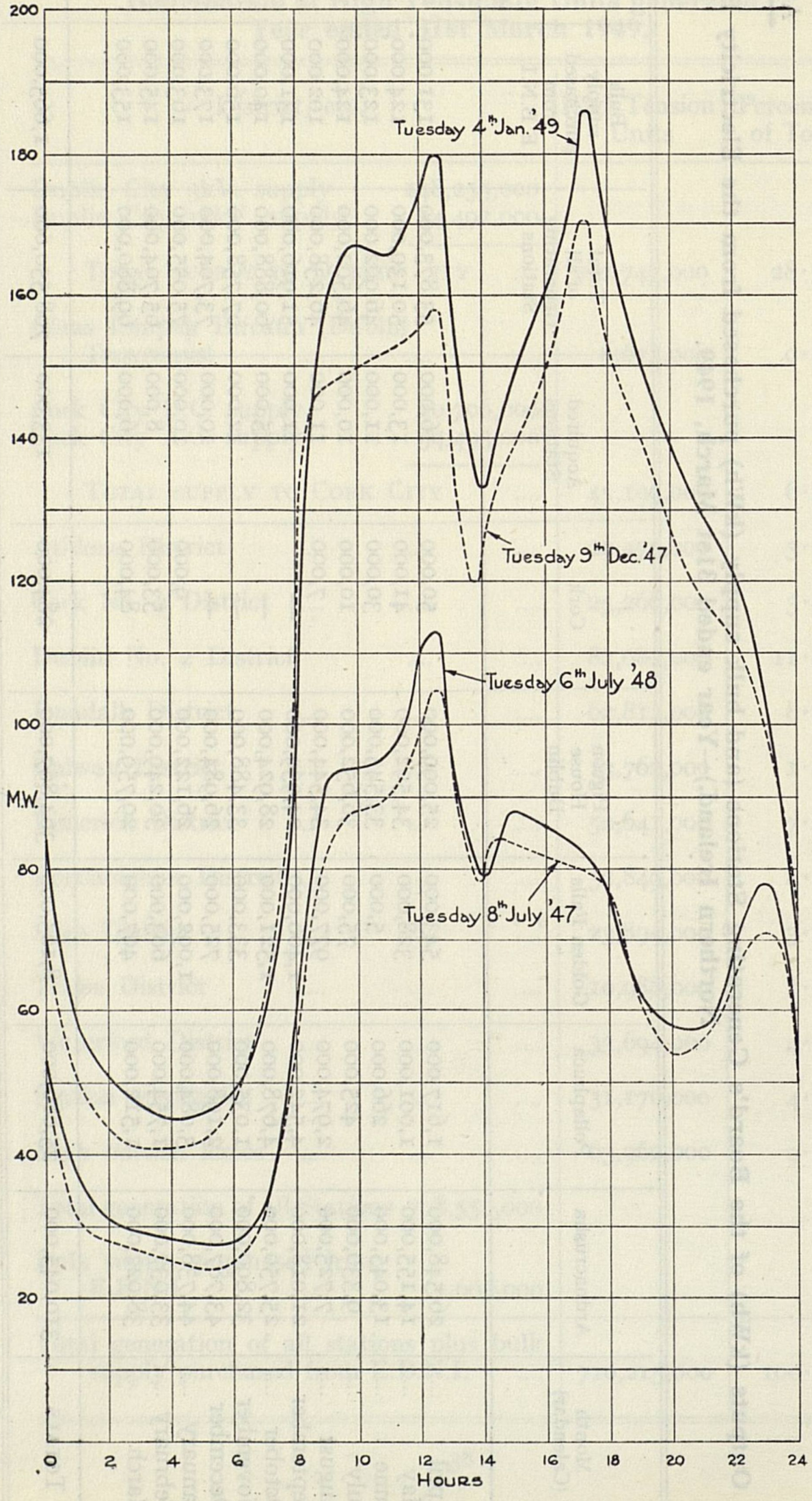
Distribution at High Tension of Units generated.
Year ended 31st March 1949.

District, etc.		High Tension Units	Percentage of Total
Dublin City 5kV. supply	148,255,000		
Dublin City 10kV. supply	54,492,000		
TOTAL SUPPLY TO DUBLIN CITY		202,747,000	28·5
Córas Iompair Éireann (Dublin Tramways)		6,671,000	0·9
Cork City D.C. supply	10,706,000		
Cork City A.C. supply	34,493,000		
TOTAL SUPPLY TO CORK CITY		45,199,000	6·4
Athlone District		22,479,000	3·2
Cork No. 2 District		25,266,000	3·6
Dublin No. 2 District		82,081,000	11·6
Dundalk District		62,812,000	8·8
Galway District		13,762,000	1·9
Limerick District		52,641,000	7·4
Portlaoighise District		32,849,000	4·6
Sligo District		23,894,000	3·4
Tralee District		10,988,000	1·6
Waterford District		33,694,000	4·7
Station auxiliaries		31,170,000	4·4
High tension losses		63,962,000	9·0
Total generation of all Stations	708,550,000		
Bulk supply purchased from E.B.N.I.	1,665,000		
Total generation of all stations plus bulk supply purchased from E.B.N.I.		710,215,000	100·0

Outputs (kWh) of the Board's Generating Stations (and bulk supply (kWh) purchased from the Electricity Board for Northern Ireland.)—Year ended 31st March, 1949.

Month (Calendar)	Ardnacrusha	Pollaphuca	Golden Falls	Pigeon House Dublin	Cork	Acquired Stations	Total of all Generating Stations	Bulk supply purchased from E.B.N.I.	Total generation and bulk supply purchased from E.B.N.I.
April	26,548,000	1,617,000	543,000	25,099,000	50,000	16,000	53,873,000	131,000	54,004,000
May	14,155,000	1,001,000	328,000	34,592,000	41,000	13,000	50,130,000	124,000	50,254,000
June	13,045,000	266,000	5,000	33,545,000	30,000	11,000	46,902,000	123,000	47,025,000
July	9,330,000	425,000	75,000	36,652,000	10,000	10,000	46,502,000	124,000	46,626,000
August	7,725,000	2,974,000	977,000	34,544,000	7,000	11,000	46,238,000	102,000	46,340,000
September	21,018,000	4,542,000	1,406,000	24,939,000	—	11,000	51,916,000	131,000	52,047,000
October	25,750,000	4,678,000	1,521,000	28,924,000	—	15,000	60,888,000	140,000	61,028,000
November	32,890,000	1,035,000	333,000	33,488,000	—	12,000	67,758,000	156,000	67,914,000
December	43,787,000	2,198,000	725,000	26,984,000	—	10,000	73,704,000	173,000	73,877,000
January	44,738,000	3,084,000	1,092,000	26,122,000	9,000	10,000	75,055,000	163,000	75,218,000
February	33,037,000	1,754,000	603,000	30,249,000	53,000	8,000	65,704,000	145,000	65,849,000
March	38,022,000	1,512,000	497,000	29,759,000	84,000	6,000	69,880,000	153,000	70,033,000
TOTALS	310,045,000	25,086,000	8,105,000	364,897,000	284,000	133,000	708,550,000	1,665,000	710,215,000

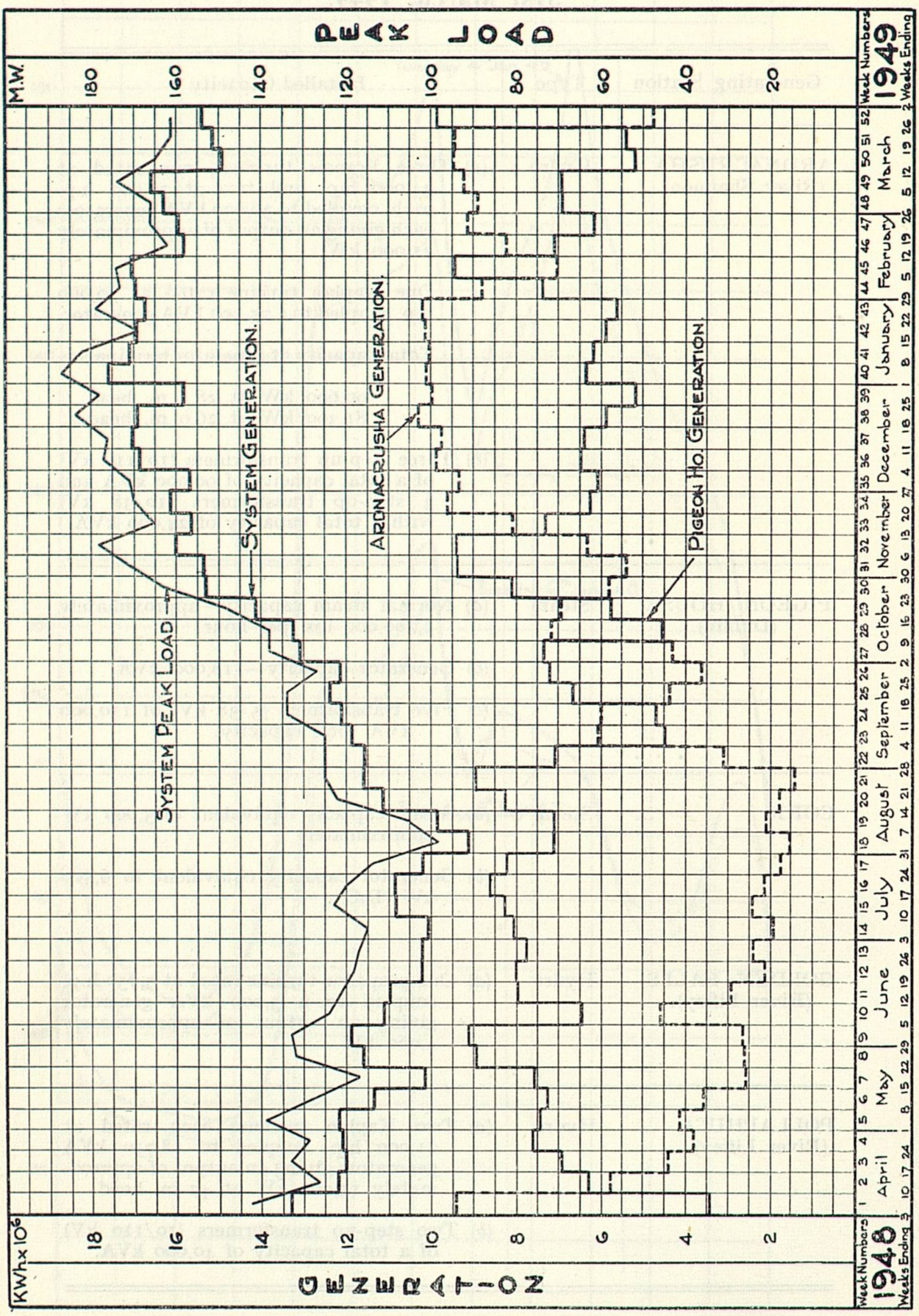
TYPICAL DAILY GENERATION LOAD CURVES, YEAR 1948/49.



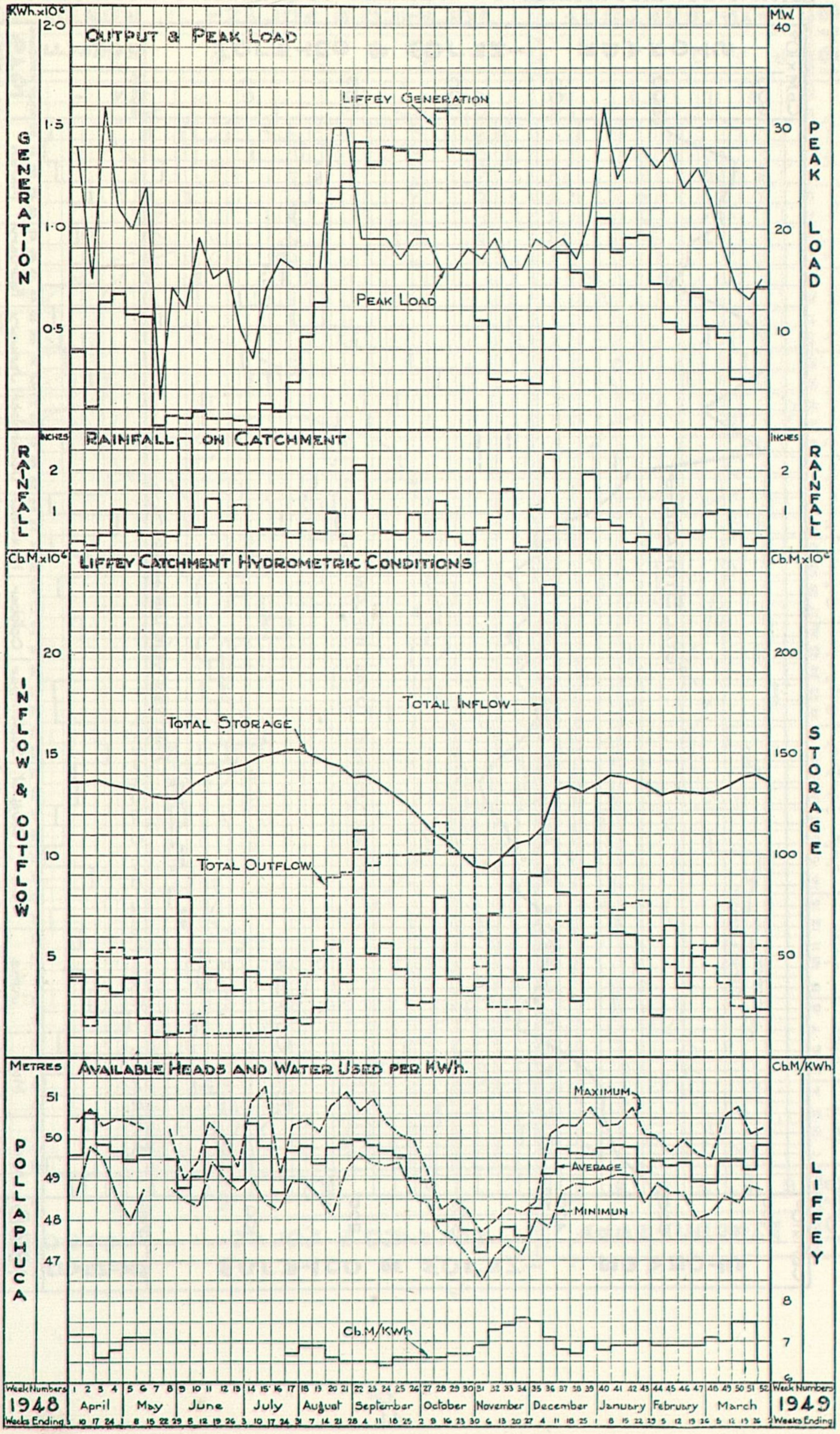
Capacity of the Board's Main Generating Stations at the 31st March, 1949.

Generating Station	Type	Installed Capacity
ARDNACRUSHA (River Shannon).	Hydro	(*a*) Three Francis turbines, one rated at 34,000 h.p. and two at 30,000 h.p. each, coupled to 30,000 kVA generators each giving an output of approximately 21,000 kW. One Kaplan turbine rated at 30,000 h.p. coupled to a 25,000 kVA generator. Total capacity at generator terminals :– 90,600 kW at 28.5 m. head. 81,300 kW at 26.0 m. head. (*b*) Three step-up transformers (10/110 kV) of a total capacity of 90,000 kVA and 3 step-up transformers (10/38 kV) with a total capacity of 24,000 kVA.
PIGEON HOUSE (Dublin)	Steam	(*a*) Normal steam capacity—approximately 1,200,000 lbs. per hour. (*b*) Generator capacity—118,000 kVA. (*c*) Five transformers (5/38 kV) of 110,000 kVA total capacity.
CORK ...	Steam	(*a*) Steam capacity equivalent to 5,000 kW approximately (*b*) Generator capacity equivalent to 6,500 kW (D.C.).
GOLDEN FALLS (River Liffey).	Hydro	(*a*) One propellor turbine rated at 5,750 h.p. coupled to a 5,000 kVA generator giving an output of approximately 4,000 kW.
POLLAPHUCA ... (River Liffey).	Hydro	(*a*) Two Kaplan turbines each rated at 21,000 h.p. coupled to 18,750 kVA generators giving an output of approximately 15,000 kW at 47 m. head. (*b*) Two step-up transformers (10/110 kV) of a total capacity of 40,000 kVA.

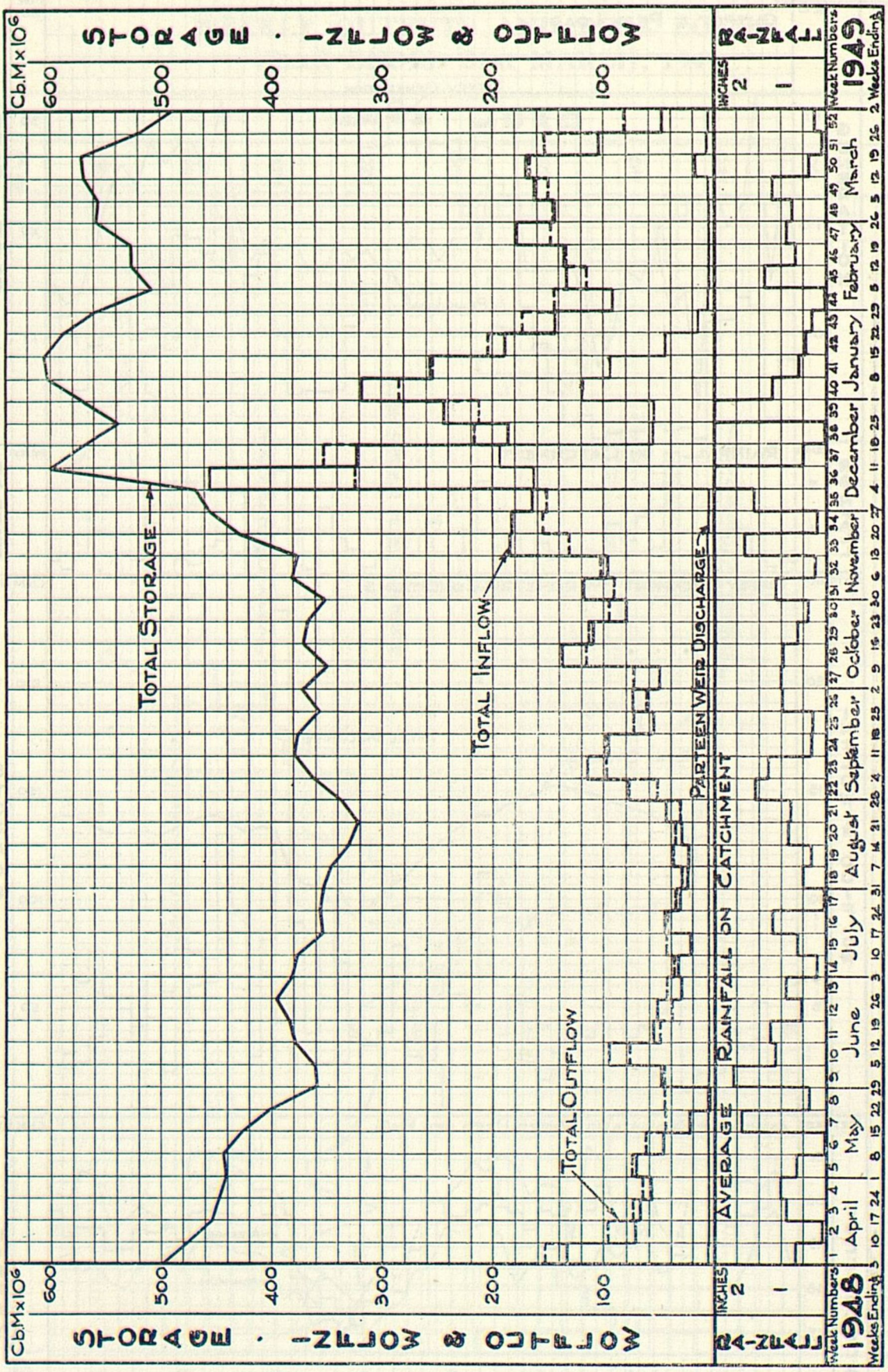
WEEKLY OUTPUTS AND PEAK LOADS, YEAR ENDED 31st MARCH, 1949.

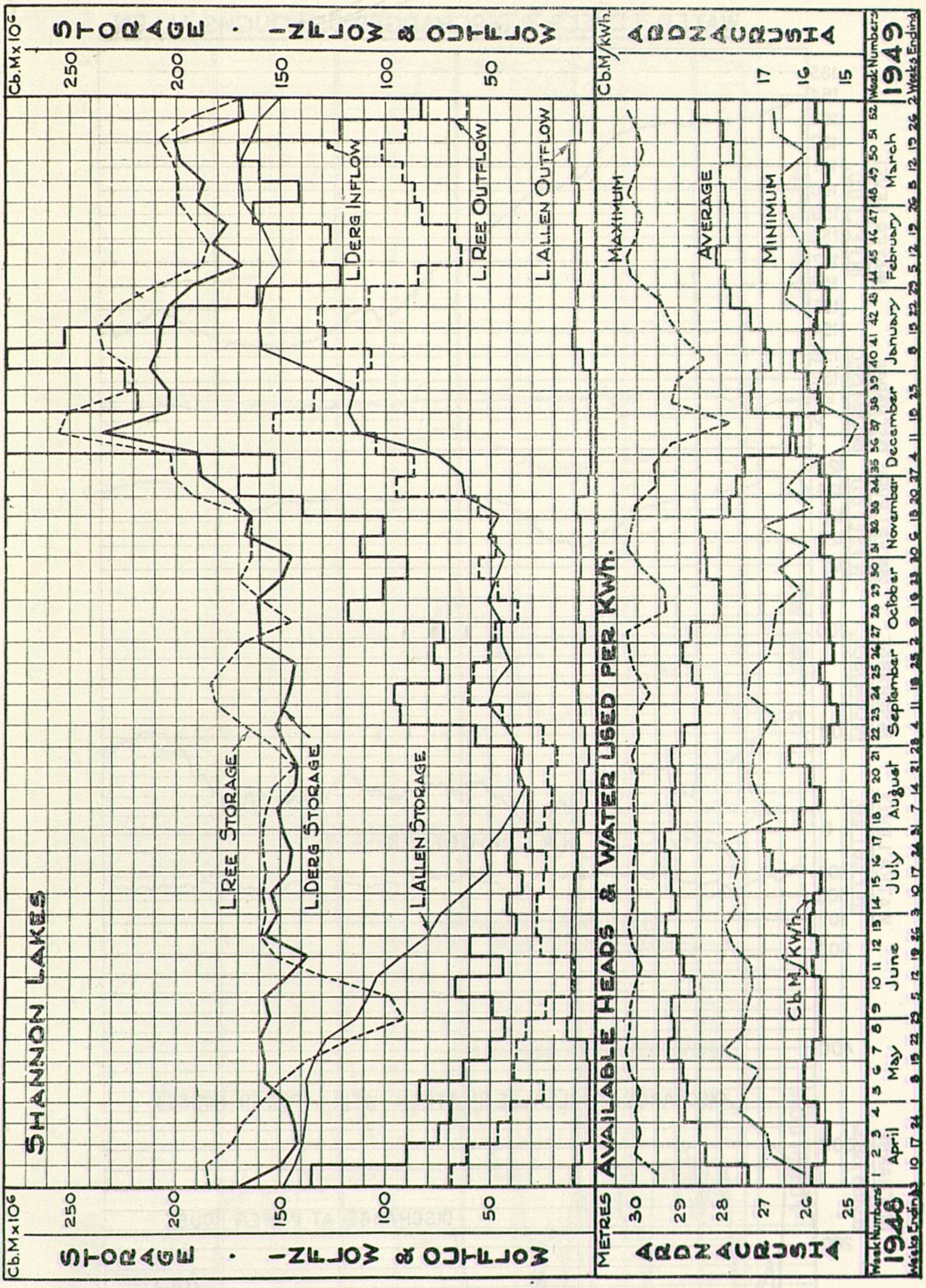


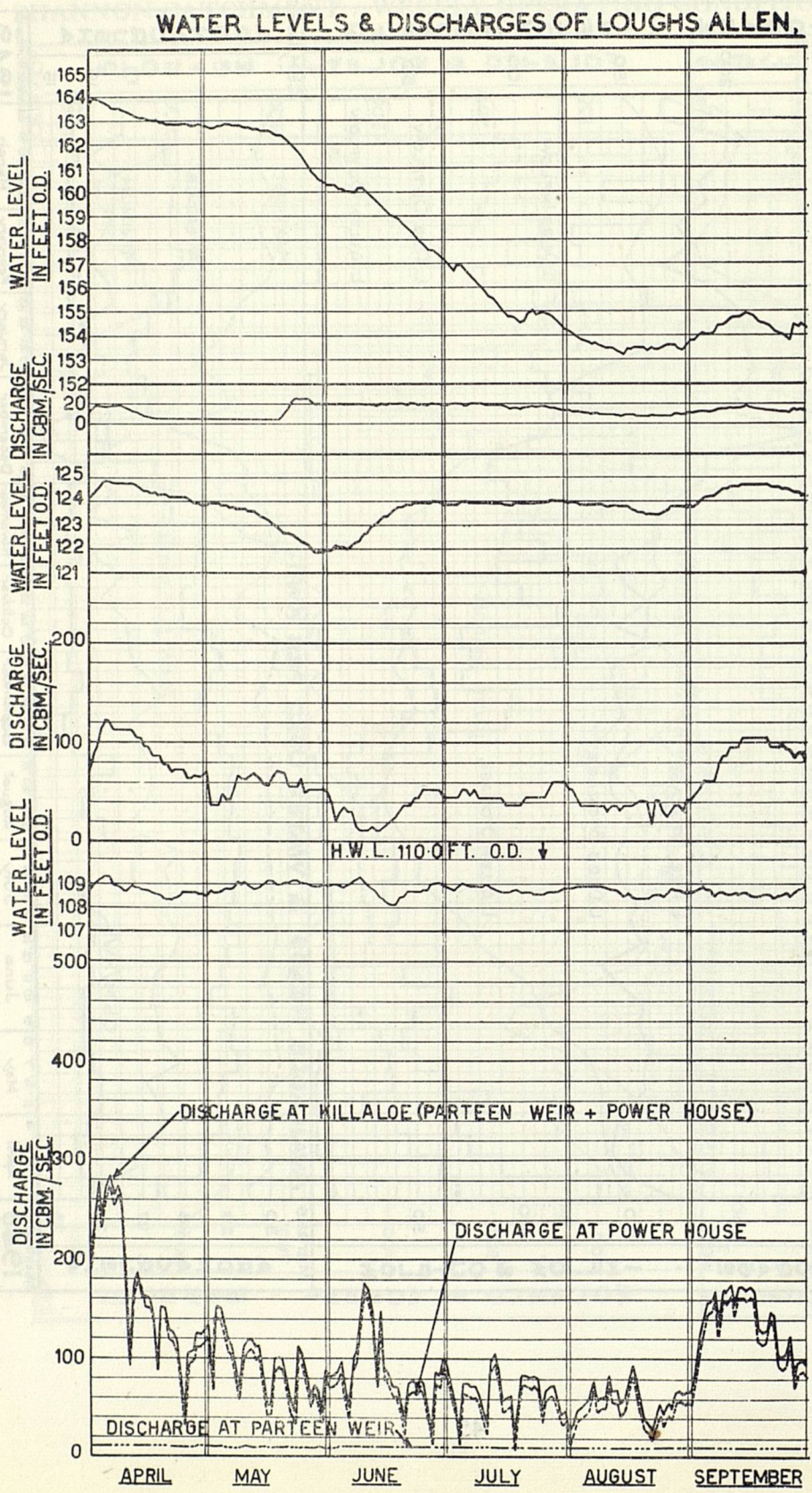
LIFFEY CATCHMENT.
Weekly Summary of Operating Conditions, Year ended 31st March, 1949.



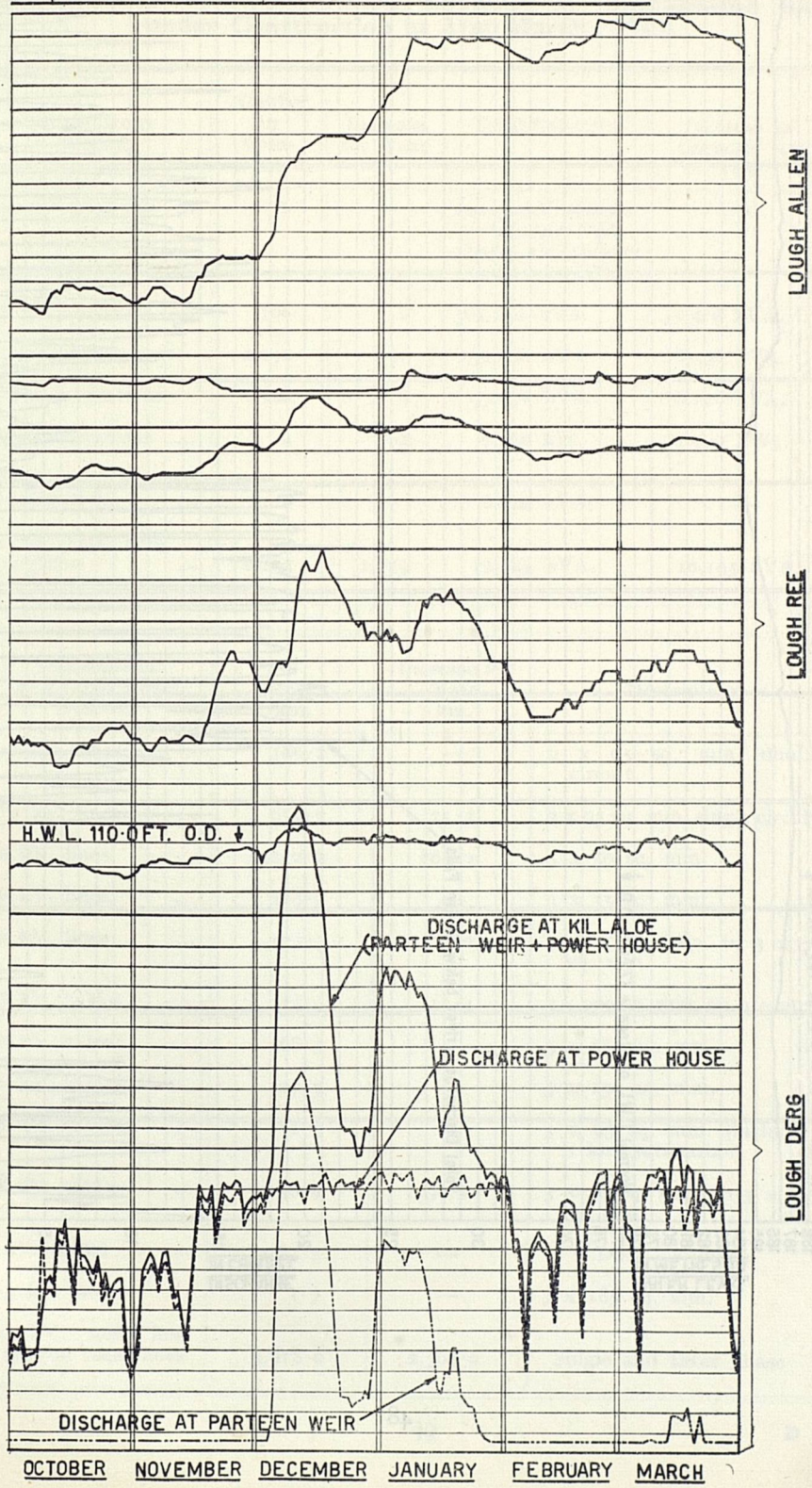
SHANNON CATCHMENT : WEEKLY OPERATING CONDITIONS,



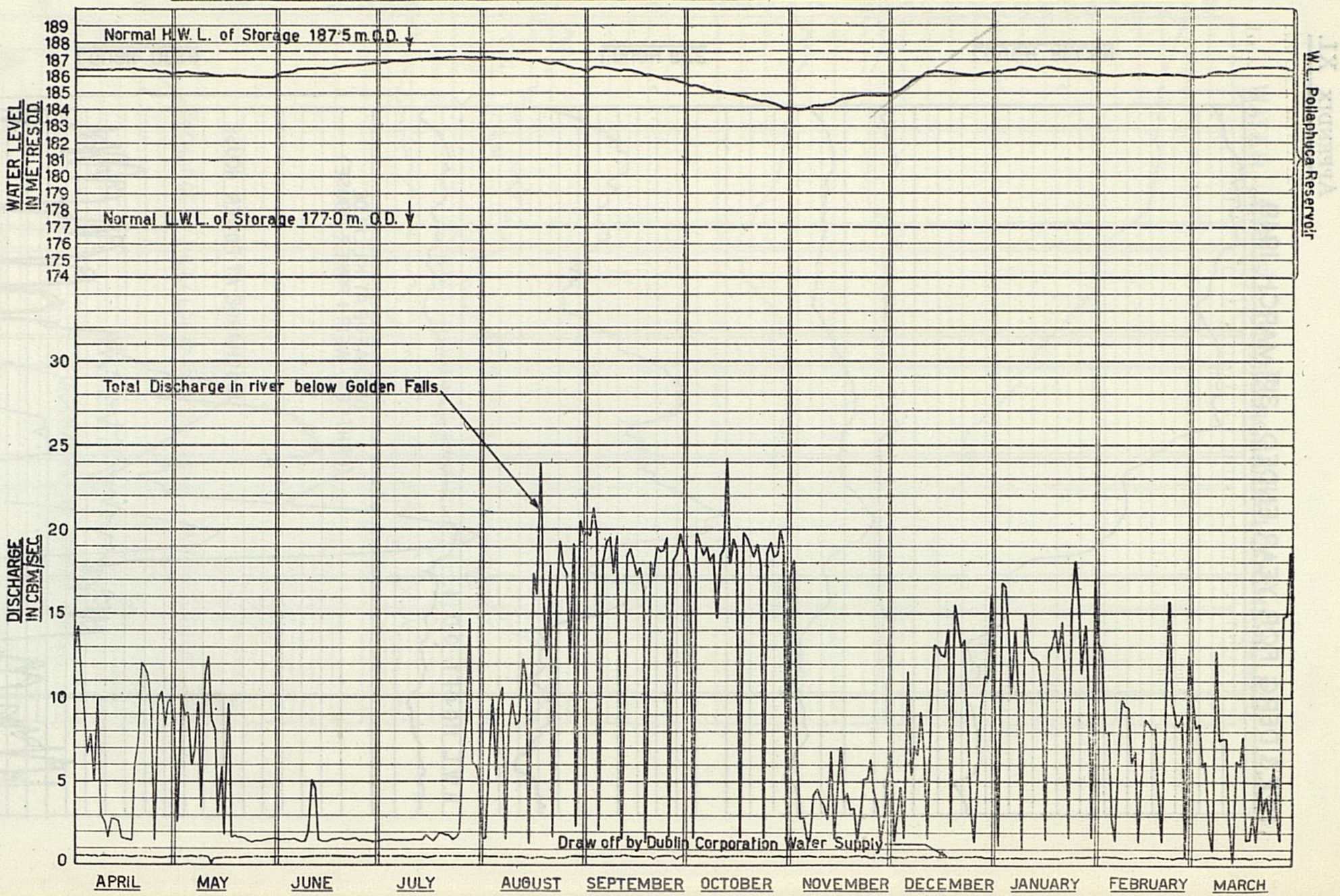

SHANNON LAKES
STORAGE · INFLOW & OUTFLOW
Cb.M x 10⁶
250
200
150
100
50
L. DERG INFLOW
L. REE OUTFLOW
L. ALLEN OUTFLOW
L. REE STORAGE
L. DERG STORAGE
L. ALLEN STORAGE
AVAILABLE HEADS & WATER USED PER KWh.
METRES
30
29
28
27
26
25
Cb.M/KWh.
MAXIMUM
AVERAGE
MINIMUM
17
16
15
Week Numbers 1948
Weeks Ending
April
May
June
July
August
September
October
November
December
January
February
March
Week Numbers 1949
2 Weeks Ending


WATER LEVELS & DISCHARGES OF LOUGHS ALLEN,
WATER LEVEL IN FEET O.D.
165
164
163
162
161
160
159
158
157
156
155
154
153
152
DISCHARGE IN CBM./SEC.
20
0
WATER LEVEL IN FEET O.D.
125
124
123
122
121
DISCHARGE IN CBM./SEC.
200
100
0
WATER LEVEL IN FEET O.D.
H.W.L. 110·0 FT. O.D.
109
108
107
DISCHARGE IN CBM./SEC.
500
400
300
200
100
0
DISCHARGE AT KILLALOE (PARTEEN WEIR + POWER HOUSE)
DISCHARGE AT POWER HOUSE
DISCHARGE AT PARTEEN WEIR
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER

REE,& DERG FOR YEAR ENDED 31ST MARCH 1949.



WATER LEVELS & DISCHARGES OF POLLAPHUCA RESERVOIR FOR YEAR ENDED 31ST MARCH 1949.



Transmission and Distribution Systems in Commission and under Construction at 31st March, 1949.

Transformer Station	Number in Commission	Increase for Year	Total Capacity	Increase in Capacity for Year
110 kV. stations ...	6	—	110/38 kV. stations =162,000 kVA. 110/10 kV. stations =22,500 kVA.	—
38 kV. stations ...	100	1	301,230 kVA.	35,520 kVA.
10 kV. substations	2,052	251	230,380 kVA.	28,090 kVA.
5 kV. substations	120	8	93,958 kVA.	6,120 kVA.
D.C. substations ...	4	—2	7,360 kW.	—1,900 kW.
Frequency changing substations ...	1	—	6,320 kVA.	—
10 kV. rural substations ...	2,283	1,779	12,844 kVA.	10,195 kVA.

Transmission and Distribution Systems	Length km.	Increase for Year km.	Description
110 kV. lines ...	186·2	—	6 x 95 sq. mm. double circuit.
110 kV. lines ...	614·7	21·3	3 x 95 sq. mm. single circuit.
38 kV. lines ...	2,232·0	165·0	3 x 50 sq. mm.
38 kV. lines ...	328·2	—	3 x 35 sq. mm.
10 kV. lines ...	4,177·3	282·0	3 x 10 sq. mm. to 3 x 70 sq. mm.
38 kV. cables ...	15·9	12·4	3 x 260 sq. mm. oil pressure.
38 kV. cables ...	68·5	—	3 x 185 sq. mm.
38 kV. cables ...	27·7	—	3 x 150 sq. mm.
38 kV. cables ...	1·5	—	3 x 95 sq. mm. (including 1 km. submarine).
10 kV. cables ...	350·9	34·6	3 x 10 sq. mm. to 3 x 185 sq. mm.
5 kV. cables ...	267·7	—	Do. do.
3·3 kV. cables ...	3·7	—	3 x 185 sq. mm.
10 kV. and low tension rural lines	3,918·0	2,768·0	Single and three phase

Particulars of Permitted Electricity Undertakings at 31st March, 1949.

NOTE.—In seven cases where the number of consumers is three or under, permits have also been issued.

These undertakings are not shown in the following schedule.

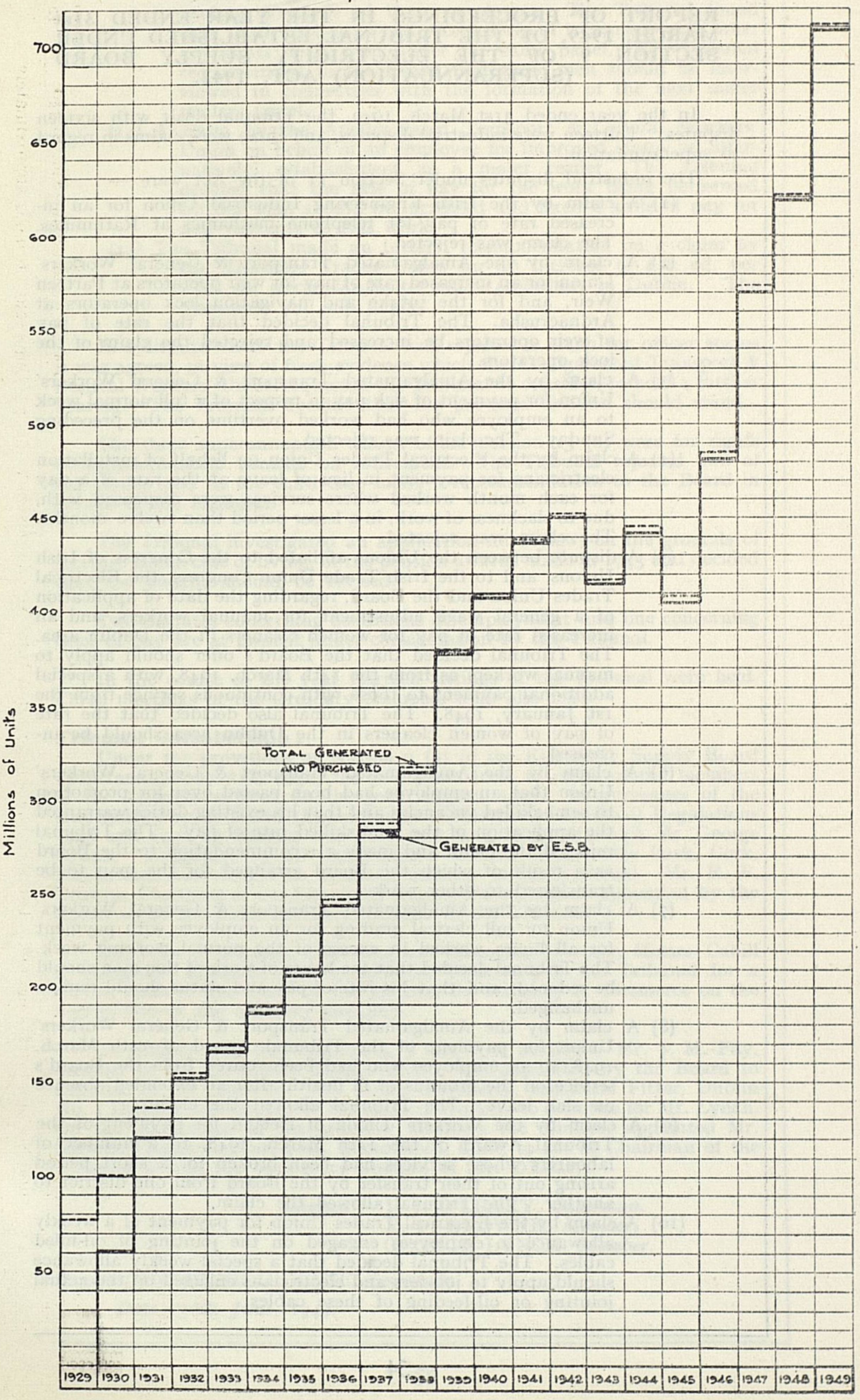
(1) Town	(2) Population	(3) Name of Undertaker	(4) No. of Consumers	(5) Normal Tariffs per Unit for			(6) Units Sold, Year ended 31st March, 1949
				Lighting	Heating and Cooking	Power	
Ardara	442	The Ardara Woollen & Industrial Co., Ltd.	137	1/–	3d.	—	13,083
Aughrim	243	W. J. Byrne	7	1/–	—	—	700 estd.
Ballinlough	248	Ballinlough Electricity Supply Co. ...	53	1/6	1/– Miscellaneous	—	7,103
Ballybofey and Stranorlar	1,198	Ballybofey & Stranorlar Electric Supply Co.	213	1/–	6d.	6d.	37,460 estd.
Ballyconnell	276	William Stewart	99	1/–	—	—	10,251
Ballysodare	205	W. G. & T. Pollexfen, Ltd.	55	7½d.	3d.	3d.	18,649 estd.
Belmont	—	Robert Perry & Co. (1927), Ltd. ...	15	6d.	6d.	4d.	5,751
Belmullet	684	M. McEntyre	110	1/–	—	6d.	22,850
Boyle	2,093	John Stewart	511	Miscellaneous 3d. to ¾d. per unit			324,862
				3d. to 7d.	1d. to 2d.	3d. to 4d.	
Buncrana	2,295	The Buncrana Electric Supply Co., Ltd. ...	506	6d. to 8d.	1½d. to 6d.	1½d. to 3½d.	270,837
Cahirciveen	1,680	The Cahirciveen E. L. & Power Co., Ltd. ...	378	10d.	6d.	6d.	56,845
Carlingford	488	The Carlingford Electricity Co., Ltd. ...	113	1/–	—	—	15,000 estd.
Carndonagh	660	Carndonagh Electric Supply Co. ...	211	1/–	6d.	6d.	36,500 estd.
Carrigart	115	Dermot Walsh	26	1/–	—	—	1,750 estd.
Castlebellingham ...	243	Smallwares, Ltd.	13	4d. & 6d.	—	3d.	7,351
Clifden	1,019	Clifden E. L. & Power Station ...	138	1/–	6d.	—	15,600 estd.

(1) Town	(2) Population	(3) Name of Undertaker	(4) No. of Consumers	(5) Normal Tariffs per Unit for			(6) Units Sold, Year ended 31st March, 1949
				Lighting	Heating and Cooking	Power	
Clogheen	479	John Browne	91	1/2	6d. Miscellaneous	6d.	18,460
Clonmany	123	Patrick Gallen	39	1/–	6d.	—	5,760 estd.
Clonmellon	273	Clonmellon Hydro Electric Co., Ltd. ...	101	1/- to 9/- per wk. according to number of lights	—	3d.	16,000 estd.
Cloughjordan	416	Martin Gleeson	100	11d.	6d. Misc.	4d.	18,200
Collooney	310	W. A. G. Middleton, Ltd.	130	7½d.	1½d.	2d.	51,063
Dingle	1,800	The Dingle E. L. & Power Co. ...	213	1/–	6d.	5d. & 4d.	48,633
Donegal	1,315	J. McGowan & Sons	260	1/–	6d.	5d.	80,696
Drumkeeran	232	The Drumkeeran Electricity Supply Co., Ltd.	48	1/3	4d.	—	5,034
Drumshambo	553	C. S. Laird, Ltd.	104	8d.	2d.	2d.	41,470
Dromahair	279	Paul Jeiter	46	9d.	3d. & 1½d.	3d.	8,166
Dungloe	593	The Templecrone Co-op. & Agrl. Society, Ltd.	156	10d.	3d.	3d.	30,960
Dunmore, Co. Galway ...	482	Dunmore Electric Light Co., Ltd. ...	90	1/5	—	9d.	13,122
Emyvale	237	C. McCluskey	56	8d.	8d.	8d.	8,282
Falcarragh	—	Leo McGinley	64	1/2	—	—	7,610
Frosses, Co. Donegal ...	—	Michael Campbell	17	1/–	—	—	2,540
Glaslough	107	David Patton, Ltd.	14	1/–	—	—	1,608
Glendalough	182	Messrs. Wynne	13	—	Included in rent.	—	10,000 estd.
Glenmore, Co. Kilkenny ...	—	Glenmore Co-operative Creamery Soc., Ltd.	30	1/–	—	—	3,658
Glenties	360	Glenties Electricity Supply Co., Ltd. ...	106	1/–	4d.	—	13,670
Gortahork	—	Michael McFadden	6	1/3	—	—	440
Kenmare	921	Kenmare Electric Supply Co.	315	6d. to 10d.	3d. & 4d.	3d. & 4d.	64,300 estd.
Killybegs	631	The Irish Sea Fisheries Association, Ltd.	156	1/–	6d.	6d.	24,682

(1) Town	(2) Population	(3) Name of Undertaker	(4) No. of Consumers	(5) Normal Tariffs per Unit for			(6) Units Sold, Year ended 31st March, 1949
				Lighting	Heating and Cooking	Power	
Kilmacthomas	357	Patrick Kiersey	55	1/–	—	11d.	10,000 estd.
Kinnegad	270	Thomas Dunne	6	1/–	—	—	5,000 estd.
Letterfrack	—	The Superior, Industrial School ...	17	8d.	—	—	2,171
Malin, Co. Donegal ...	112	Matthew O'Doherty	47	1/3	6d.	6d.	3,910 estd.
Milford ⎫ Co. Donegal ...	377	McMahon Bros.	42	1/–	1/–	1/–	4,200
Milford ⎭		William Russell	30	1/3	—	—	5,034
Miltownpass	80 estd.	Miltownpass Elec. Light & Power Co., Ltd.	20	10d.	—	—	2,000 estd.
Mountbellew	284	Mountbellew Co-op. Agrl. & Dairy Soc. Ltd.	53	1/–	—	—	10,300 estd.
Moville	937	The Moville Electric Supply Co. ...	274	9d. & 10d.	—	4d. & 3d.	82,860
Pettigo	251	Shaw Bros.	67	10d.	—	—	7,407 estd.
Ramelton	924	Robert J. Campbell (Donegal) Ltd. ...	110	1/–	4d. to 6d.	6d. to 8d.	21,298
Raphoe	754	Raphoe Electric Lighting Co., Ltd. ...	92	11d.	—	9d.	16,654
Rathfarnham	657	The Rathfarnham Mfg. Co., Ltd. ...	8	3·6d.	3·6d.	3·3d.	23,587
Riverstown, Co. Sligo ...	225	Thomas Flanagan	7	1/6	—	—	650
Roundwood	101	Joseph Keenan	47	1/1	—	—	4,414
St. Ann's Hill, Blarney ...	—	St. Ann's Hill Hydropathic Co., Ltd. ...	9	6d. to 9d. per unit minimum charge (Supply to Bungalows in Hydro Grounds).			3,055
St. Johnston, Co. Donegal	272	Edward J. White	58	1/–	—	—	14,000
Sixmilebridge	323	James O'Flynn & Sons (1945), Ltd. ...	39	10d., 8d., 6d., 3d.	—	4d.	7,000 estd.
Waterville	164	Waterville Electricity Supply Co., Ltd. ...	87	1/–	7d.	7d.	26,648
Windgap	72	Windgap Co-op. Dairy Society, Ltd. ...	8	Fixed yearly rental of £5 to £6 5 0 per house	—	—	1,500
Woodford	184	Mrs. John Roche	25	10d.	6d.	—	4,020 estd.
Various Districts ...	—	Great Northern Railway Co. (Ireland) ...	76	1·3d. to 10d.	1·3d. to 1·75d.	·84d. to 3½d.	45,308

Total No. of undertakings 67 ; Total Population 27,526 ; Total No. of Consumers 5,917 ; Units sold 1,619,962 approximately.

UNITS GENERATED FROM APRIL 1st., 1928 TO MARCH 31st., 1949.



ELECTRICITY (SUPPLY) ACTS

REPORT OF PROCEEDINGS IN THE YEAR ENDED 31st MARCH, 1949, OF THE TRIBUNAL ESTABLISHED UNDER SECTION 9 OF THE ELECTRICITY SUPPLY BOARD (SUPERANNUATION) ACT, 1942.

In the year ended 31st March, 1949, the Tribunal dealt with sixteen disputes. Thirteen were industrial disputes, and three were claims in regard to superannuation.

The industrial disputes under Section 11 of the Act were :—

(1) A claim by the Irish Engineering Industrial Union for an increased rate of pay for telephone mechanics at Rathmines. The claim was rejected.

(2) A claim by the Amalgamated Transport & General Workers' Union for an increased rate of pay for weir operators at Parteen Weir, and for the intake and navigation lock operators at Ardnacrusha. The Tribunal decided that the rate of pay of weir operators be increased and rejected the claim of the lock operators.

(3) A claim by the Amalgamated Transport & General Workers' Union for payment of sick pay in respect of a full normal week to an employee who had worked overtime on the preceding Sunday. The claim was rejected.

(4) A claim by the Electrical Trades Union on behalf of installation electricians for payment in lieu of leave at the rate of a day for each month worked where services were dispensed with, due to slackness of work, in a lesser period than twelve months. The claim was rejected.

(5) A dispute between the Unions affiliated to the Congress of Irish Unions, and to the Irish Trade Union Congress, the Electrical Trades Union and the Board, regarding the date of application of a general wage adjustment for manual workers, and an increased rate of pay for women cleaners in the Dublin area. The Tribunal decided that the Board's offer should apply to manual workers as from the 14th March, 1948, with a special additional payment to those with continuous service from the 1st January, 1948. The Tribunal also decided that the rate of pay of women cleaners in the Dublin area should be increased.

(6) A claim by the Amalgamated Transport & General Workers' Union that an employee had been passed over for promotion to semi-skilled vacancies and that his existing duties warranted the application of the semi-skilled rate of pay. The Tribunal rejected the claim and made a recommendation to the Board as a result of which the Board arranged for the man to be transferred to other work.

(7) A claim by the Amalgamated Transport & General Workers' Union for full clerical grading for an employee with payment for all hours worked in excess of the normal working week. The Tribunal decided that the hours of work of this man should be reduced, and that his rate of pay and status should remain unchanged.

(8) A claim by the Amalgamated Transport & General Workers' Union for payment of the Tribunal Award of 14th March, 1948, to an employee who had been retired from the Board's service on the grounds of ill health after an extended absence on sick leave. The Tribunal allowed the claim.

(9) A claim by the Workers' Union of Ireland for payment of the Tribunal Award of the 14th March, 1948, to a number of labourers whose services had been broken for a short period arising out of their transfer by the Board from one district to another. The Tribunal allowed the claim.

(10) A claim by the Electrical Trades Union for payment of a weekly allowance to employees engaged on the jointing of oil-filled cables. The Tribunal decided that a special weekly allowance should apply to jointers and electricians engaged on the actual jointing or oil-feeding of these cables.

(11) A claim by the Amalgamated Transport & General Workers' Union in regard to the non-selection for promotion to meter reading positions of three employees. The Tribunal found that these applicants had received equal treatment with other applicants dealt with under the same panel. The Tribunal recommended to the Board that these men should be interviewed in connection with the formation of the next meter readers panel.

(12) A claim by the Amalgamated Transport & General Workers' Union on behalf of an employee for improved status or, alternatively, establishment as a meter reader. The Tribunal decided that the rate of pay for the work being performed by this man should be increased and fixed a scale of pay for new entrants to this work.

(13) The Tribunal made an interim recommendation on a claim by the Electrical Trades Union for an increase of 11s. od. per week for electrician/meter reader/collectors in Dublin. The dispute is still sub judice.

In a dispute where the Tribunal had rejected a claim for officer status it was agreed, in view of fresh evidence which the Amalgamated Transport & General Workers' Union requested the Tribunal to consider, to hold a further hearing. The Tribunal decided that the previous decision should stand.

The three superannuation claims under Section 13 (6) were for rights to superannuation benefits on retirement. The Tribunal rejected two of the claims and in the third case made a recommendation to the Board in favour of the claimant.

The Tribunal investigated an application for review, on the grounds of increase in the cost of living, of the pension awards made in 1943 and decided that the awards should be revised.

Two disputes concerning conditions of employment and one concerning rates of pay are at present under consideration by the Tribunal.

In the course of the year thirteen sittings of the Tribunal were held. Three meetings of the Ordinary Members were also held.

Tribunal Membership :

Under the provisions of Section 9 (3) of the Electricity Supply Board (Superannuation) Act, 1942, the five years term of office of the members of the Tribunal expired on the 30th August, 1948. In pursuance of the Electricity Supply Board (Appointment of Member of Tribunal) Regulations 1943 and 1947 an election was duly held as a result of which Mr. George Lynch, " Ardgillan," 7 St. Christopher's Avenue, Montenotte Park, Cork, Electrician, was elected an ordinary member of the Tribunal. Mr. R. F. Browne, Chairman of the Electricity Supply Board, was re-appointed by the Board to be the other ordinary member of the Tribunal.

Mr. John J. O'Leary, Chairman and Managing Director, Messrs. Cahill & Company, Limited, was re-appointed Chairman of the Tribunal for a further term of five years by the Minister for Industry & Commerce on the nomination of the ordinary members.

To comply with Sub-Sections 4, 5 and 6 of Section 9 Mr. J. M. Fay, member of the Electricity Supply Board, was appointed by the Board to deputise for Mr. Browne. Mr. James O'Doherty, Electrical Fitter, Dublin No. 1 District, was elected by the Manual Workers to deputise for Mr. Lynch. On the nomination of the ordinary members the Minister appointed Mr. Seamus Fitzgerald, Carrigbeg, Summerhill, Cork, to act as Chairman of the Tribunal during the temporary absence of Mr. O'Leary.

(Signed) J. J. O'LEARY, *Chairman.*
R. F. BROWNE, *Member.*
GEORGE LYNCH, *Member.*

(Signed) DESMOND G. KANE, Secretary.

Date : 30th *June*, 1949.

GENERAL OUTLINE OF THE ELECTRICITY SUPPLY BOARD SYSTEM

EXISTING:

- Hydro Stations ..... H
- Steam " ..... S
- 110Kv. Lines and Transformer Stations
- 38 Kv. " " " "
- 10 Kv. " " " "

PROJECTED:

- Hydro Stations ..... H
- Steam " ..... S
- 110Kv. Lines and Transformer Stations
- 38 Kv. " " " "

NORTHERN IRELAND

Atlantic Ocean

Irish Sea

St. George's Channel

MOVILLE, BUNCRANA, LETTERKENNY, LIFFORD, CONVOY, KILLYBEGS, DONEGAL, KATHALEEN'S FALL (H), CLIFF (H), BUNDORAN, ROSSES POINT, MANORHAMILTON, SLIGO, BELMULLET, KILLALA, INISHCROME, COLLOONEY, BALLINA, CROSSMOLINA, BALLYMOTE, TOBERCURRY, FOXFORD, SWINFORD, BOYLE, LEITRIM, ARIGNA, BALLINAMORE, BELTURBET, CARRICK-ON-SHANNON, CHARLESTOWN, BALLACHADERREEN, NEWPORT, CASTLEBAR, KILTIMAGH, WESTPORT, ELPHIN, STROKESTOWN, MOHILL, ARVAGH, LONGFORD, GRANARD, CASTLEREA, BALLYHAUNIS, CLAREMORRIS, OLDCASTLE, KELLS, EDGEWORTHSTOWN, ROSCOMMON, BALLINROBE, CLIFDEN, TUAM, BALLYGAR, BALLYMAHON, MULTYFARNHAM, MULLINGAR, ATHLONE, AHASCRAGH, MOATE, KILBEGGAN, CLARA, GALWAY, ATHENRY, BALLINASLOE, FERBANE, TULLAMORE, DAINGEAN, LOUGHREA, BANAGHER, KILCORMAC, GORT, PORTUMNA, BIRR, MOUNTMELLICK, LISDOONVARNA, ENNISTYMON, MILTOWN MALBAY, ENNIS, BORRISOKANE, ROSCREA, MOUNTRATH, PORTLAOIGHISE, STRADBALLY, ATHY, KILLALOE, NENAGH, RATHDOWNEY, ABBEYLEIX, DURROW, TEMPLEMORE, CASTLECOMER, CARLOW, BORRISOLEIGH, THURLES, URLINGFORD, ARDNACRUSHA (H), LIMERICK, NEWPORT, KILKEE, KILRUSH, ASKEATON, FOYNES, BALLYLONGFORD, GLIN, RATHKEALE, CROOM, CAPPAMORE, CAPPAGHWHITE, SLIEVEARDAGH, CASHEL, BRUFF, HOSPITAL, TIPPERARY, FETHARD, LISTOWEL, NEWCASTLE WEST, ABBEYFEALE, KILMALLOCK, GALBALLY, CHARLEVILLE, KILFINNANE, CAHIR, CLONMEL, CARRICK-ON-SUIR, PORTLAW, NEW ROSS, WEXFORD, ROSSLARE, WATERFORD, TRALEE, CASTLEISLAND, NEWMARKET, BUTTEVANT, DONERAILE, MITCHELSTOWN, GLANWORTH, KANTURK, MALLOW, FERMOY, LISMORE, CAPPOQUIN, TALLOW, DUNCARVAN, TRAMORE, DUNMORE, DINGLE, KILLORGLIN, KILLARNEY, MILLSTREET, CASTLELYONS, CAHIRCIVEEN, YOUGHAL, BLARNEY, CORK, MIDLETON, PASSAGE, COBH, CLOYNE, MACROOM, SNEEM, KENMARE, GLENGARIFF, BANTRY, DUNMANWAY, BANDON, KINSALE, ROSSHAVEN, DRIMOLEAGUE, CLONAKILTY, SKIBBEREEN

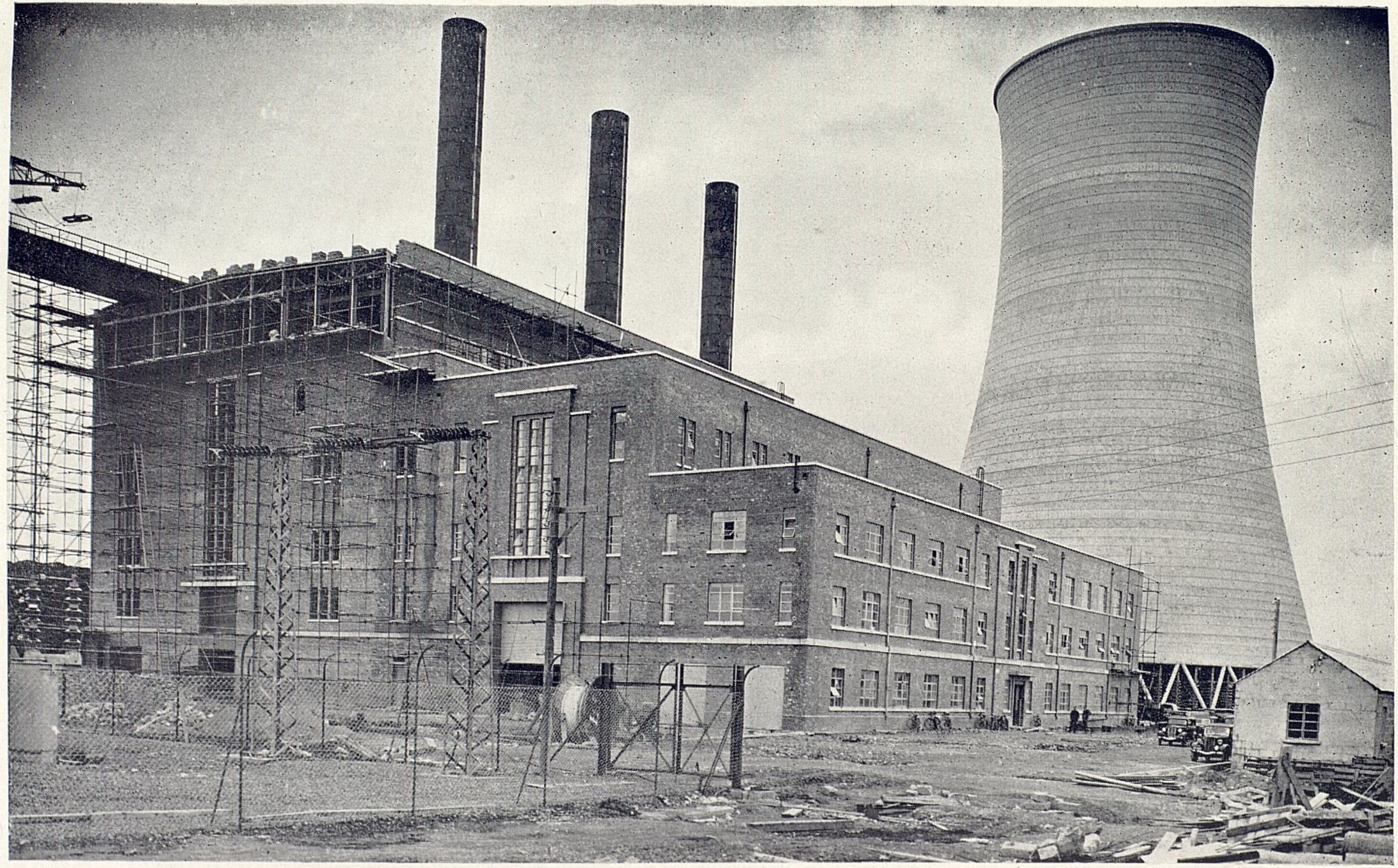
MONAGHAN, CLONES, CASTLEBLAYNEY, BALLYBAY, COOTEHILL, KILLASHANDRA, CAVAN, DUNDALK, BLACKROCK, CARRICKMACROSS, BAILIEBORO, KINGSCOURT, ARDEE, BALLYJAMESDUFF, VIRGINIA, DROGHEDA, NAVAN, ATHBOY, TRIM, BALBRIGGAN, SKERRIES, RUSH, SWORDS, MALAHIDE, GRANGE, HOWTH, DUBLIN (SEE ENLARGEMENT BELOW), INCHICORE, DEANSGRANGE, ENNISKERRY, BRAY, CREYSTONES, BLESSINGTON, NEWBRIDGE, NAAS, KILDARE, CLONSAST, PORTARLINGTON (S), ALLENWOOD (S), EDENDERRY, CELBRIDGE, MAYNOOTH, LEIXLIP (H), FINGLAS, MONASTEREVIN, POLLAPHUCA (H), GOLDEN FALLS (H), DUNLAVIN, RATHNEW, WICKLOW, RATHDRUM, BALTINGLASS, HACKETSTOWN, TINAHELY, ARKLOW, TULLOW, CARNEW, GOREY, BAGENALSTOWN, KILKENNY, NEWTOWNBARRY, BORRIS, FERNS, ENNISCORTHY, GRAIGUENAMANAGH, THOMASTOWN, CALLAN, KNOCKTOPHER

scale of miles: 0 10 20 30 40 50

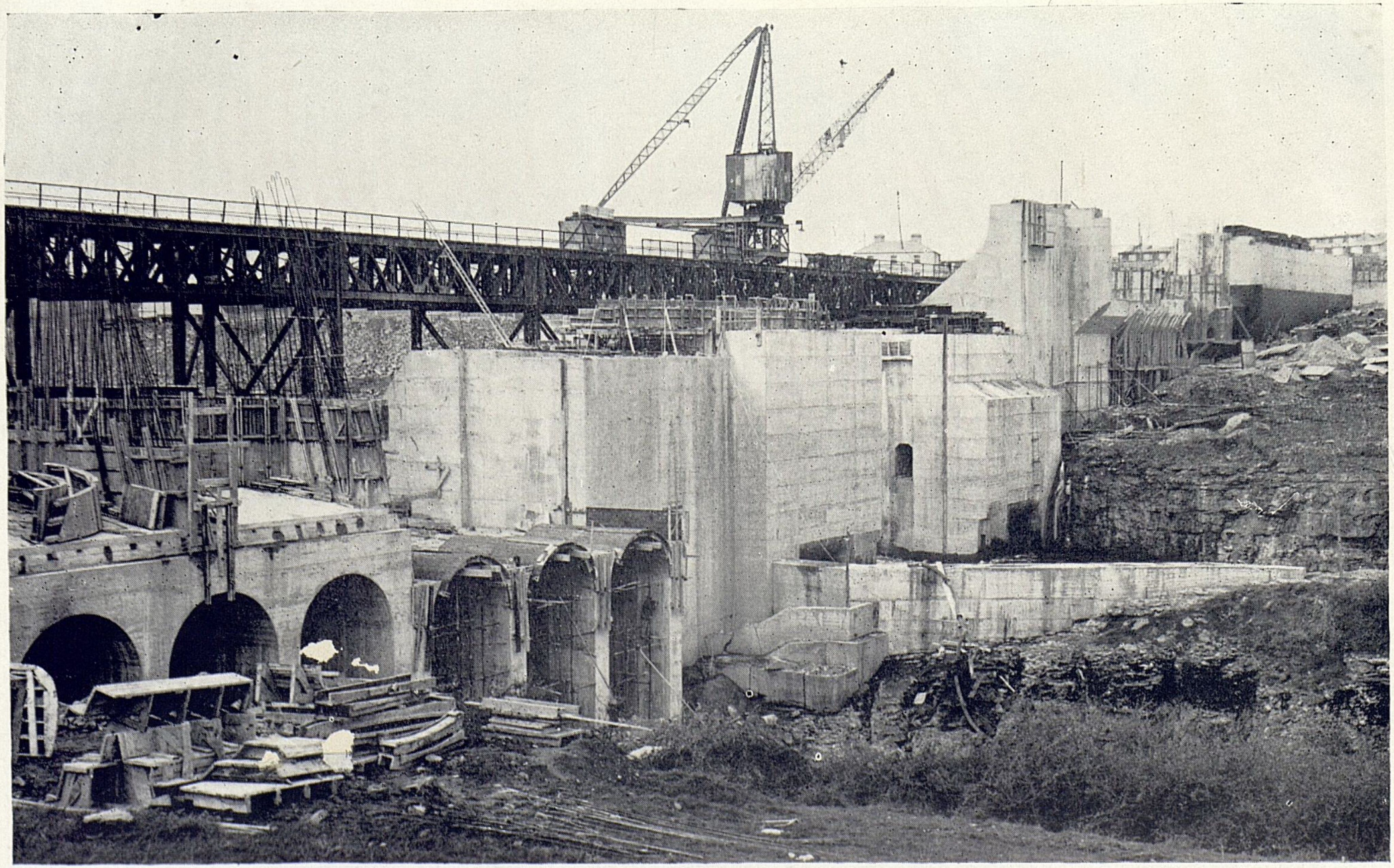
DUBLIN (ENLARGEMENT 110 kv. AND 38 kv. ONLY)

DROGHEDA, BALBRIGGAN, SWORDS, BALLYSHANNON, FINGLAS, GRANGE, BALLYMUN, H LEIXLIP, FLEET STREET, S NORTH WALL, CELBRIDGE, INCHICORE, PEMBROKE, S PIGEON HOUSE, MILLTOWN, MOUNTMERRION, DEANSGRANGE, ALLENWOOD, ARDNACRUSHA, POLLAPHUCA, BRAY

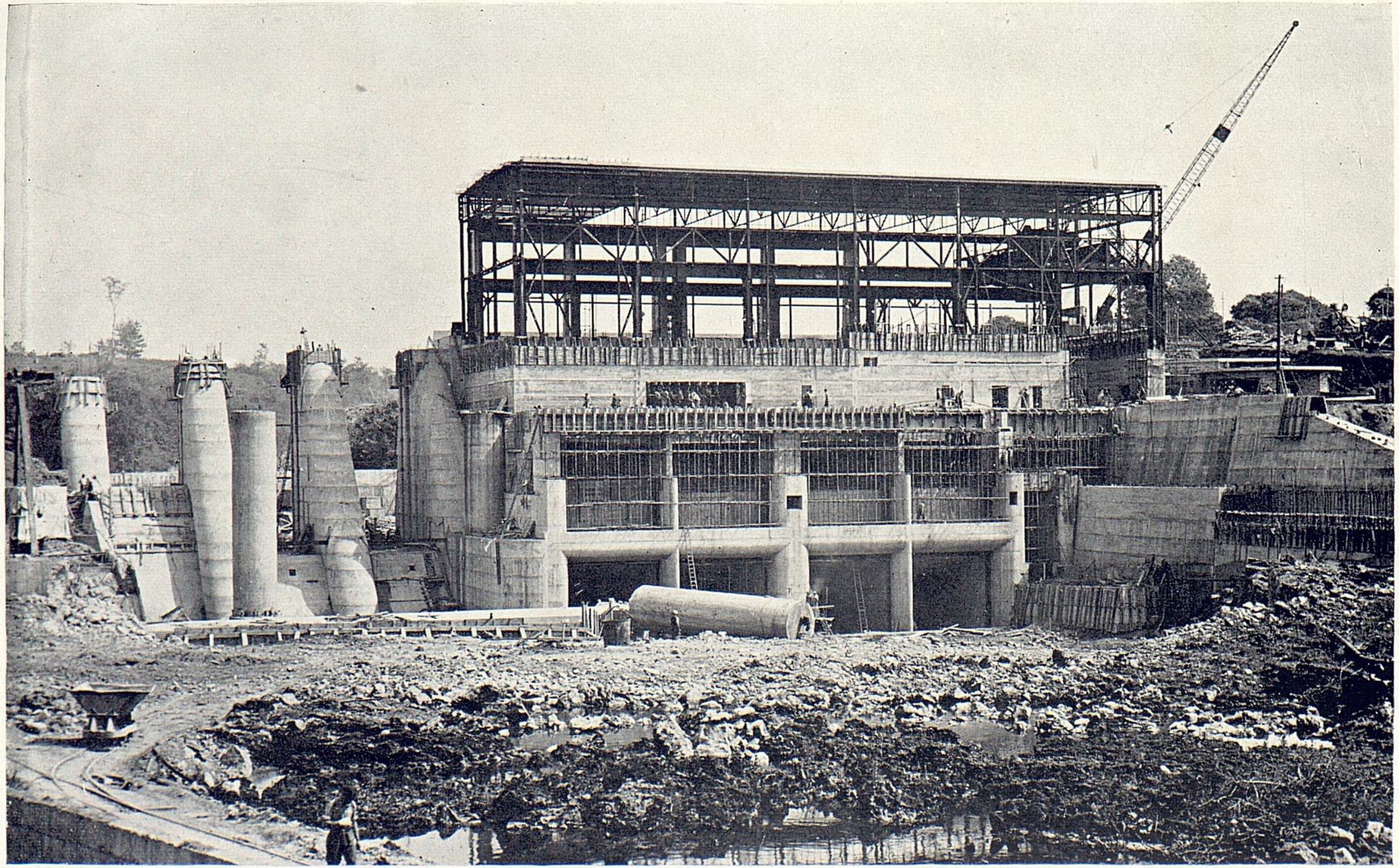
SCALE OF MILES: 0 1 2 3 4 5 6 7 8



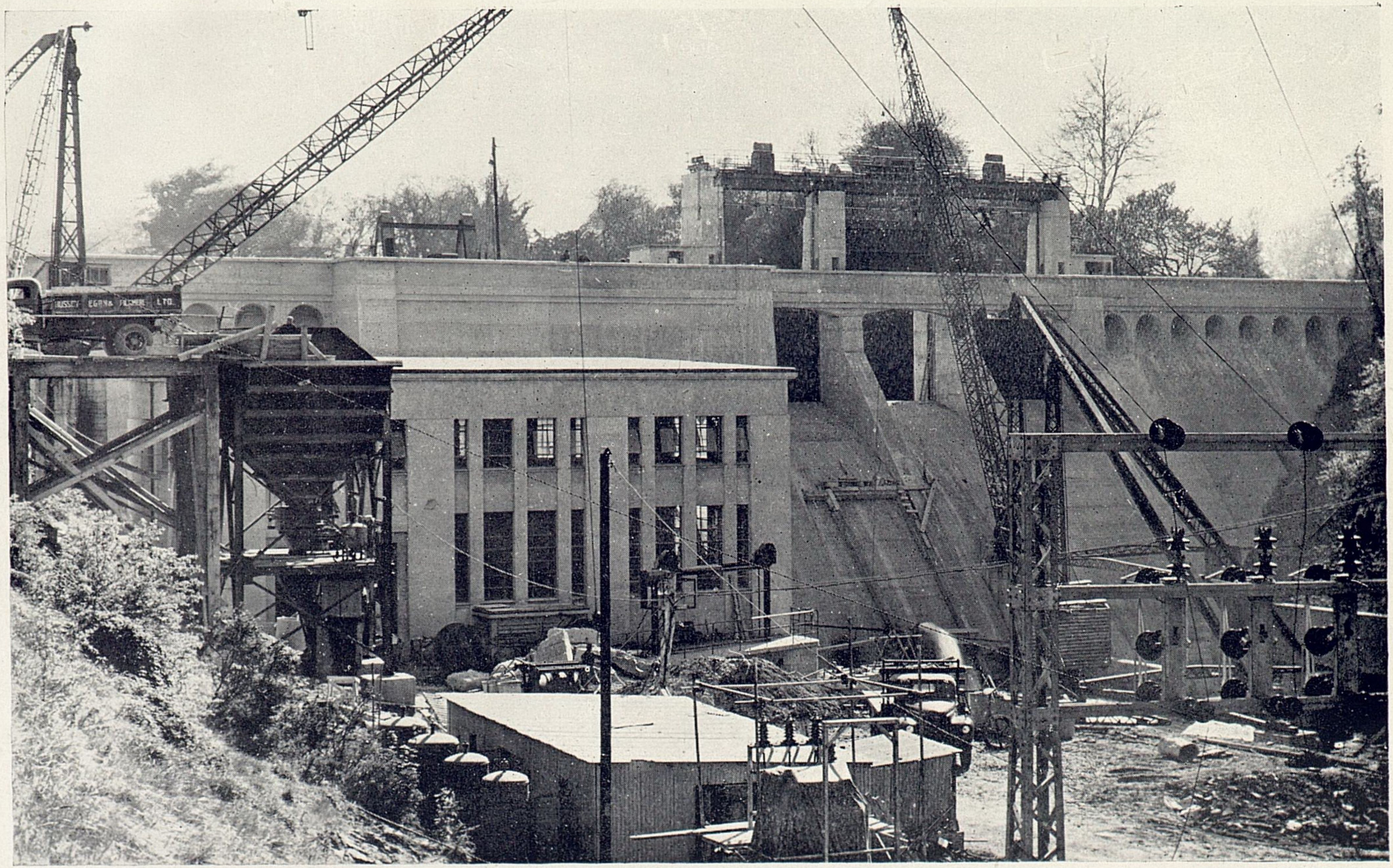
PORTARLINGTON—STATION BUILDING AND COOLING TOWER.



ERNE DEVELOPMENT—CONSTRUCTION OF DAM FOR THE CATHALEEN'S FALLS GENERATING STATION.



ERNE DEVELOPMENT—CONSTRUCTION OF CLIFF POWER STATION.



LIFFEY DEVELOPMENT—CONSTRUCTION OF LEIXLIP POWER STATION.

ACCOUNTS

No. 1. **INSTALLATIONS TRADING ACCOUNT FOR**

Dr.

	£	£	Year 1947/48 £
To Cost value of work for which credit had not been taken at 31st March, 1948		69,277	46,328
,, Cost of installation work carried out during the year		182,153	144,380
,, Gross profit, carried down		52,742	35,550
		£304,172	£226,258
To Salaries, wages and state insurance ...	£ 21,880		
,, Travelling expenses	1,850		
,, Rents and rates	341		
,, Sundry expenses	1,266		
,, General overhead expenses and interest, as apportioned	10,043		
		35,380	26,820
,, Balance, carried to Net Revenue Account ...		17,362	8,730
		£52,742	£35,550

No. 2. **MERCHANDISE TRADING ACCOUNT FOR**

Dr.

	£	£	Year 1947/48 £
To Cost value of transactions for which credit had not been taken at 31st March, 1948 ...		37,604	16,941
,, Cost of goods issued as sales		235,617	131,531
,, Sundry costs in connection with sales ...		16,804	9,862
,, Gross profit, carried down		50,638	32,372
		£340,663	£190,706
To Salaries, wages, commission and state insurance	£ 19,053		
,, Travelling expenses	670		
,, Rents and rates	1,222		
,, Sundry expenses	2,155		
,, General overhead expenses and interest, as apportioned	16,231		
		39,331	13,882
,, Balance, carried to Net Revenue Account ...		11,307	18,490
		£50,638	£32,372

THE YEAR ENDED 31st MARCH, 1949.

Cr.

		Year 1947/48
	£	£
By Credit taken for contracts completed and charged	234,513	156,981
,, Cost value of work for which credit has not yet been taken	69,659	69,277
	£304,172	£226,258
By Gross profit, brought down	52,742	35,550
	£52,742	£35,550

THE YEAR ENDED 31st MARCH, 1949.

Cr.

		Year 1947/48
	£	£
By Credit taken for sales	245,391	153,102
,, Cost value of transactions for which credit has not yet been taken	95,272	37,604
	£340,663	£190,706
By Gross profit, brought down	50,638	32,372
	£50,638	£32,372

No. 3. **ELECTRICITY REVENUE ACCOUNT FOR**
Dr.

	£	£	Year 1947/48 £
To Generation :			
Operating expenses	153,610		
Fuel	1,115,162		
Maintenance and repair	156,293		
Transfer to depreciation reserve ...	106,000		
Supervision and local administration	63,690		
		1,594,755	1,365,631
„ Electricity Purchased in Bulk		9,718	8,776
„ Transmission :			
Operating expenses	17,017		
Maintenance and repair	30,467		
Transfer to depreciation reserve ...	62,000		
Supervision and local administration	23,239		
		132,723	
„ Distribution :			
Operating expenses	322,248		1,092,175
Maintenance and repair	183,080		
Transfer to depreciation reserve ...	190,000		
Supervision and local administration	383,141		
		1,078,469	
„ General Administration :			
Board, Secretariat and Consultants	61,850		
Engineering	87,661		
Accounting	91,284		
Audit fee	1,500		
Sales promotion and publicity ...	30,701		
General expenses	75,938		
Transfer to depreciation reserve— general assets	7,000		
	355,934		
Less : apportionment charged to other accounts and to capital works	47,240		
		308,694	303,416
„ Provision for bad debts		3,000	5,700
„ Depreciation of stocks of material		4,161	3,962
„ Balance, carried to Profit and Loss Account		1,234,493	1,106,819
		£4,366,013	£3,886,479

THE YEAR ENDED 31st MARCH, 1949.

Cr.

	£	£	Year 1947/48 £
By CHARGES FOR ELECTRICITY, ETC.:			
General consumers	4,158,814		
Public lighting	... 133,978		
Meter and other rents ...	... 50,772		
		4,343,564	3,862,701
,, Miscellaneous revenue ...	... ...	22,449	23,778
		£4,366,013	£3,886,479

No. 4. **ELECTRICITY PROFIT AND LOSS ACCOUNT**

Dr.

	£	£	Year 1947/48 £
To Interest payable to the Minister for Finance	766,448		
,, Interest on loans and loan-stocks of acquired undertakings	5,774		
,, Other interest	321,205		
	1,093,427		
Less: apportionment charged to other accounts and to capital works	184,400		
		909,027	932,520
,, Loan-stock management charges ...		6	39
,, Gross contributions to loan-stock sinking funds of acquired undertakings		4,764	13,325
,, Reserves, being the amount of capital repaid or provided for repayment in respect of—			
advances from the Minister for Finance	118,461		
acquired undertakings	477		
		118,938	94,033
,, Premium at which loan-stock was redeemed ...		295	1,840
,, Balance, carried down		213,747	76,585
		£1,246,777	£1,118,342
To Annuity in respect of moiety of advance by the Minister for Finance under the provisions of the Cork Tramways (Employees' Compensation) Act, 1933		1,589	1,589
,, Balance, carried to Net Revenue Account ...		212,158	74,996
		£213,747	£76,585

No. 4A. **ELECTRICITY NET REVENUE ACCOUNT**

Dr.

	£	Year 1947/48 £
To Balance, carried down	240,827	102,216
	£240,827	£102,216
To Balance, brought forward from last year's account	20,176	122,392
,, Contingencies reserve	200,000	—
,, Balance, carried down	20,651	—
	£240,827	£122,392
To Balance brought down		£20,176

FOR THE YEAR ENDED 31st MARCH, 1949.

Cr.

		Year 1947/48
	£	£
By Balance transferred from Revenue Account ...	1,234,493	1,106,819
,, Loan-stock sinking funds' investment income	3,512	6,908
,, Interest receivable	8,772	4,615
	£1,246,777	£1,118,342
By Balance, brought down	213,747	76,585
	£213,747	£76,585

FOR THE YEAR ENDED 31st MARCH, 1949.

Cr.

			Year 1947/48
	£	£	£
By Balance transferred from Profit and Loss Account		212,158	74,996
,, Installations trading profit	17,362		
,, Merchandise trading profit	11,307		
		28,669	27,220
		£240,827	£102,216
By Balance, brought down		240,827	102,216
,, Balance, carried down		—	20,176
		£240,827	£122,392
By Balance, brought down		£20,651	

No. 5. **ELECTRICITY CAPITAL ACCOUNT FOR**

Dr.

	Total to 31st March, 1948 less amounts written off	Expenditure during year to 31st March, 1949 less amounts written off*	Total to 31st March, 1949 less amounts written off
	£	£	£
To Generation : physical assets	7,936,952	917,246	8,854,198
„ Transmission : physical assets	3,910,019	(—)1,215,631	2,694,388
„ Distribution : (*a*) physical assets ...	4,969,003	2,806,315	7,775,318
(*b*) other capital expenditure	611,632	6,357	617,989
„ General : (*a*) physical assets ...	620,507	147,817	768,324
(*b*) other capital expenditure	310,111	(—) 1,938	308,173
	£18,358,224	£2,660,166	21,018,390
„ Non-Classified Expenditure : New works in progress ...			5,040,682
		Total ...	26,059,072
			£26,059,072

* The second column also includes certain revisions of classifications carried out during the year mainly relating to Transmission and Distribution.

THE YEAR ENDED 31st MARCH, 1949.

Cr.

	Total Receipts to 31st March, 1948 less redemptions	Receipts during year to 31st March, 1949 less redemptions	Total Receipts to 31st March, 1949 less redemptions
	£	£	£
By Local Authority Undertakings :			
Loans and loan-stocks ...	14,744	(—) 9,495	5,249
„ Minister for Finance :			
Advances under the Electricity (Supply) Acts and the Liffey Reservoir Act, and in respect of advances to the Shannon Power Development Fund as determined under section 15 of the Electricity (Supply) Act, 1927 ...	15,889,920	3,431,539	19,321,459
Total ...	£15,904,664	£3,422,044	19,326,708
By Balance			6,732,364
			£26,059,072

No. 6. **ELECTRICITY BALANCE SHEET**

Dr.

LIABILTIES.			31/3/1948
	£	£	£
To RECEIPTS, as per CAPITAL ACCOUNT ...		19,326,708	15,904,664
,, SUNDRY CREDITORS		1,604,005	1,433,286
,, LOANS under the Electricity Supply Board (Superannuation) Act, 1942 from the Trustees of			
General Employees Superannuation Fund	391,200		
Mannual Workers Superannuation Fund	278,000		
		669,200	511,300
,, NON-REPAYABLE moiety of advances for the electrification of rural areas made by the Minister for Finance under section 41 of the Electricity (Supply) (Amendment) Act, 1945		725,000	275,000
,, AMOUNT reserved in respect of sinking funds for loan-stocks of acquired undertakings ...		—	3,373
,, AMOUNTS reserved in respect of capital loans repaid, capital receipts non-repayable and sale of assets, together with additional amounts reserved for depreciation and retirement of assets, less assets retired		8,378,910	7,466,331
,, CAPITAL ASSETS ADJUSTMENT RESERVE representing surplus arising from re-valuation		270,297	270,297
	£		
,, RESERVES: Amount provided by acquired undertakings	77,898		
Contingencies reserve	200,000		
Other reserves and provisions ...	35,990		
		313,888	105,269
,, SURPLUS, as per NET REVENUE ACCOUNT ...		20,650	—
		£31,308,658	£25,969,520

AS AT 31st MARCH, 1949.

Cr.

ASSETS.		31/3/1948
	£	£
By CAPITAL ASSETS, as per CAPITAL ACCOUNT ...	26,059,072	21,620,979
,, BOYNE DEVELOPMENT SUSPENSE ACCOUNT ...	59,000	—
,, STOCKS ON HAND AND IN TRANSIT ...	3,467,463	2,508,780
,, COST VALUE OF INSTALLATIONS WORK AND SALES FOR WHICH CREDIT HAS NOT BEEN TAKEN ...	194,818	151,257
,, SUNDRY DEBTORS, after providing for bad and doubtful debts	1,136,238	1,286,074
,, SHANNON FISHERIES, temporary advances ...	48,160	35,397
,, CASH IN HAND AND WITH BANKS	343,907	343,484
,, SINKING FUNDS (held by local authorities) for loan-stocks	—	3,373
,, DEFICIENCY, as per NET REVENUE ACCOUNT	—	20,176
	£31,308,658	£25,969,520

No. 7. SHANNON FISHERIES TRADING ACCOUNT

Dr.

		Year 1947/48
	£	£
To Operation, maintenance and repair	8,403	6,565
,, Cost of fish purchased	39	8
,, Fishery rates	3,719	3,713
,, General management and overhead expenses ...	1,867	1,779
,, Transfer to depreciation reserve	1,006	1,004
,, Balance, carried to Profit and Loss Account ...	—	5,313
	£15,034	£18,382

No. 8. SHANNON FISHERIES PROFIT AND LOSS

Dr.

			Year 1947/48
		£	£
To Balance, brought from Trading Account ...		942	—
,, Interest :—	£		
Payable to the Minister for Finance ...	8,574		
Apportioned in respect of temporary advances from Electricity Funds ...	1,200		
Other interest	94		
		9,868	9,405
,, Reserve, being amount of capital repaid in respect of advances from Minister for Finance		1,326	1,262
		£12,136	£10,667
To Balance, brought down		12,136	5,354
,, Balance, brought forward from last year's account		68,453	63,098
		£80,589	£68,452
To Balance, brought down		£80,589	£68,452

FOR THE YEAR ENDED 31st MARCH, 1949.

Cr.

	£	Year 1947/48 £
By Sales of fish, letting of fishing rights and miscellaneous receipts	14,092	18,382
,, Balance, carried to Profit and Loss Account ...	942	—
	£15,034	£18,382

ACCOUNT FOR THE YEAR ENDED 31st MARCH, 1949.

Cr.

	£	Year 1947/48 £
By Balance, brought from Trading Account ...	—	5,313
,, Balance, carried down	12,136	5,354
	£12,136	£10,667
By Balance, carried down	80,589	68,452
	£80,589	£68,452

No. 9. **SHANNON FISHERIES CAPITAL ACCOUNT**

Dr.

	Total to 31st March, 1948	Expenditure during year to 31st March, 1949 less amounts written off	Total to 31st March, 1949 less amounts written off
	£	£	£
To Fishery rights and fisheries ...	93,534	40	93,574
,, Works to preserve fisheries ...	33,338	545	33,883
,, Other capital expenditure ...	21,091	378	21,469
	£147,963	£963	148,926
,, Non-classified expenditure: New works in progress ...	...	... ...	—
			148,926
,, Balance	...	... ...	21,895
			£170,821

No. 10. **SHANNON FISHERIES BALANCE SHEET**

Dr.

LIABILITIES		31/3/1948
	£	£
To Receipts, as per Capital Account	170,821	172,147
,, Electricity Funds, temporary advances ...	48,160	35,397
,, Sundry creditors	15	—
,, Amounts reserved in respect of capital loans repaid and for depreciation and retirement of assets, less assets retired	13,089	10,742
	£232,085	£218,286

FOR THE YEAR ENDED 31st MARCH, 1949.

Cr.

	Total Receipts to 31st March, 1948 less redemptions	Redemptions during year to 31st March, 1949	Total Receipts to 31st March, 1949 less redemptions
	£	£	£
By Minister for Finance : Advances under the Shannon Fisheries Act, 1935 ...	172,147	1,326	170,821
			£170,821

AS AT 31st MARCH, 1949.

Cr.

ASSETS		31/3/1948
	£	£
By Capital assets, as per Capital Account ...	148,926	148,933
,, Stock of material	1,761	768
,, Sundry debtors	803	119
,, Cash in hand and with Bank	6	14
,, Deficiency, as per Profit and Loss Account ...	80,589	68,452
	£232,085	£218,286

UNDER ELECTRICITY (SUPPLY) ACTS.

	£
Local Authority Undertakings :	
Loans and loan-stocks	
Liability under section 39 (7) of the Electricity (Supply) Act, 1927 ...	
Minister for Finance :	
Advances—	
under the Electricity (Supply) Act, 1927	
section 12 (2)	156,000
section 12 (3)	1,903,688
under the Electricity (Supply) (Amendment) Acts, 1931 to 1945, and the Liffey Reservoir Act, 1936 ...	12,029,882
to the Shannon Power Development Fund applicable, as determined under section 15 of the Electricity (Supply) Act, 1927, to the Shannon Works handed over	6,030,066

UNDER SHANNON FISHERIES ACTS.

Minister for Finance :	
Advances—	
under the Shannon Fisheries Act, 1935	

AND REDEMPTION THEREOF TO THE 31st MARCH, 1949.

Total Receipts to 31st March, 1949	Redeemed			Balance of Capital Receipts Outstanding at 31st March, 1949
	Total to 31st March, 1948	During year to 31st March, 1949	Total to 31st March, 1949	
£	£	£	£	£
740,955	726,211	9,495	735,706	5,249
15,066	15,066	—	15,066	—
20,119,636	679,717	118,460	798,177	19,321,459
£20,875,657	£1,420,994	£127,955	£1,548,949	£19,326,708
180,000	7,853	1,326	9,179	170,821
£21,055,657	£1,428,847	£129,281	£1,558,128	£19,497,529

No. 12. **GENERAL BALANCE SHEET**

Dr.

LIABILITIES.	£	£	31/3/1948 £
To RECEIPTS :			
per ELECTRICITY CAPITAL ACCOUNT	19,326,708		
per SHANNON FISHERIES CAPITAL ACCOUNT	170,821		
		19,497,529	16,076,811
,, SUNDRY CREDITORS		1,604,020	1,433,286
,, LOANS under the Electricity Supply Board (Superannuation) Act, 1942, from the Trustees of			
General Employees Superannuation Fund	£ 391,200		
Manual Workers Superannuation Fund	278,000		
		669,200	511,300
,, NON-REPAYABLE moiety of advances for the electrification of rural areas made by the Minister for Finance under section 41 of the Electricity (Supply) (Amendment) Act, 1945		725,000	275,000
,, AMOUNT reserved in respect of sinking funds for loan-stocks of acquired undertakings ...		—	3,373
,, AMOUNTS reserved in respect of capital loans repaid, capital receipts non-repayable and sale of assets, together with additional amounts reserved for depreciation and retirement of assets, less assets retired		8,391,999	7,477,073
,, CAPITAL ASSETS ADJUSTMENT RESERVE representing surplus arising from re-valuation		270,297	270,297
,, RESERVES :	£		
Amount provided by acquired undertakings	77,898		
Contingencies reserve ...	200,000		
Other reserves and provisions	35,990		
		313,888	105,269
,, SURPLUS :			
per ELECTRICITY NET REVENUE ACCOUNT ...		20,650	—
		£31,492,583	£26,152,409

R. F. BROWNE, *Chairman.*

PATRICK J. DEMPSEY, *Secretary.*

AS AT 31st MARCH, 1949.

Cr.

ASSETS.	£	£	31/3/1948 £
By CAPITAL ASSETS :			
per ELECTRICITY CAPITAL ACCOUNT	26,059,072		
per SHANNON FISHERIES CAPITAL ACCOUNT	148,926		
		26,207,998	21,769,912
,, BOYNE DEVELOPMENT SUSPENSE ACCOUNT ...		59,000	—
,, STOCKS ON HAND AND IN TRANSIT		3,469,224	2,509,548
,, COST VALUE OF INSTALLATIONS WORK AND SALES FOR WHICH CREDIT HAS NOT BEEN TAKEN ...		194,818	151,257
,, SUNDRY DEBTORS, after providing for bad and doubtful debts		1,137,041	1,286,193
,, CASH IN HAND AND WITH BANK		343,913	343,498
,, SINKING FUNDS (held by local authorities) for loan-stocks		—	3,373
,, DEFICIENCY :			
per ELECTRICITY NET REVENUE ACCOUNT		—	20,176
per SHANNON FISHERIES PROFIT AND LOSS ACCOUNT		80,589	68,452
		£31,492,583	£26,152,409

JOSEPH FOGARTY, *Chief Accountant.*

AUDITORS' REPORT

As Auditors appointed by the Minister for Industry and Commerce, with the consent of the Minister for Finance, we have examined the foregoing Accounts and Balance Sheet. We certify, subject to the undermentioned qualifications, that the Balance Sheet as at the 31st March, 1949, exhibits a true and correct view of the state of the Board's affairs according to the best of our information and the explanations given to us, and as shown by the books of the Board.

Overhead expenses are charged in the foregoing accounts in accordance with the estimated allocations made by the Board's Officials and approved by the Board :

(*a*) The Revenue Account has been relieved of a proportion of supervision and administration expenses which has been charged to the Installations Trading Account, the Merchandise Trading Account, the Shannon Fisheries Trading Account, and to capital expenditure on new works.

(*b*) The Profit and Loss Account has been relieved of a proportion of the interest chargeable which has been transferred to the Installations Trading Account, the Merchandise Trading Account, and to capital expenditure on new works.

(*c*) Credit has been given to the Merchandise Trading Account for a sum representing a proportion of the expenses regarded as relating to the sale of electricity, and this amount has been charged to Revenue Account.

Depreciation has been charged in the Revenue Account, on the Capital Assets referred to as physical assets in the Capital Account, on the same basis as heretofore.

KENNEDY, CROWLEY & CO.,
Auditors.

4 AND 5 WESTMORELAND STREET,
DUBLIN, 1*st July*, 1949.

Alex Thom & Co., Ltd., Dublin.