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P R O G R E S S R E P O R T

for the

Quarter ended 31st December, 1959.

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APPENDIX - FINANCIAL STATEMENT

Compiled in the Finance Secretariat,
Public Buildings, Georgetown.

GENERAL REVIEW

A. FINANCIAL

Expenditure on Development Projects for the final quarter ended 31st December, 1959 of the 1956 - 1960 Programme (revised to 1956 - 1959) amounted to \$6.2 mn. which together with the expenditure of \$13.2 mn. from the 1st January to the 30th September, 1959 brought expenditure for the year to \$19.4 mn. The total expenditure on the Programme was \$78.1 mn.

Details of expenditure for the year are given in the Appendix to this Progress Report. Drainage and Irrigation (\$8.2 mn.), Public Works (\$3.4 mn.), Post Office Telecommunications (\$2.1 mn.), Transport and Harbours (\$1.8 mn.), Housing (\$1.0 mn.), Geological Surveys (\$0.5 mn.), Agriculture (\$0.4 mn.), Land Development (\$0.4 mn.), Education (\$0.3 mn.), Miscellaneous (\$0.3 mn.) and Health (\$0.3 mn.) accounted for \$18.7 mn. of the total expenditure of \$19.4 mn. for the year 1959.

The table below shows the quarterly rate of expenditure in 1959, with corresponding figures for 1957 and 1958.

<u>Quarter</u>		<u>1957</u>	<u>1958</u>	<u>1959</u>
		<u>\$mn.</u>	<u>\$mn.</u>	<u>\$mn.</u>
January - March	....	2.7	3.1	2.4
April - June	....	4.5	5.2	5.2
July - September	....	4.3	5.1	5.6
October - December	....	6.8	*6.5	6.2
		<hr/>	<hr/>	<hr/>
		18.3	*19.9	19.4

Expenditure in 1956 was \$20.5 mn.

B. WORK PROGRESS

Agriculture: The main expenditure during the quarter went on Soil Surveys (\$39,955), Central Agricultural Station (\$23,439), St. Ignatius Livestock Station (\$22,047), Cocoa Trials (\$14,610) and Ebini Livestock Station (\$10,789). Work at the Hosororo Experiment Station continued.

By the end of the quarter 48,796 good quality coconut seedlings were available for distribution to farmers in the three counties. The main works of the fish station at Onverwagt were completed and 10 ponds were in operation for the cultivation of fish and shrimp.

At Hosororo 15 acres of Valencia orange, 4 acres of I.C.S. clones and the pineapple cultivation were fertilised during the quarter.

At Ebini, experiments in comparing liveweight changes and reproductive performances of cows under different systems of management continued. Steers from the first grazing trial on Pangola grass were slaughtered during November and their meat was considered good quality.

At St. Ignatius 30 calves were born during the quarter. 24 cull cows were slaughtered. 5 animals died from various causes and at the end of the year the herd numbered 519.

* Adjusted.

/The

The detailed soil survey of the Cane Grove Land Settlement Scheme was completed and a report was being prepared. That of the Tapacuma Irrigation Scheme area was started.

Civil Aviation: A preliminary survey of the Kaitour area for an airstrip was carried out. Some of the equipment destroyed by the fire at Atkinson Field in August have been replaced.

Drainage and Irrigation: In the Black Bush Polder area good progress was made on excavation works at Mibikuri, Joanna and Yakusari and work on the distributaries continued. The number of labourers employed by the contractors and sub-contractors totalled 1,300.

At the end of the quarter, all distributaries of the Boerasirie Extension Project were completed, except that at Ruby/Boerasirie. Good progress was made on the digging of drains.

In the minor Drainage and Irrigation Programme, some 3,750 rods were dug in the Den Amstel area and the clearing of dams and trenches was in progress. 99% of the work at Pouderoyen has been completed. Intakes were constructed at Lima, Richmond, Bush Lot, Reliance and L'Union. The digging of the facade drain from Devonshire Castle to Walton Hall and work on the Columbia and Affiance panels were completed. In Berbice the Gibraltar Sea Sluice was 90% completed.

At the end of the year the surveys of the Mahaicony/Abary/Berbice area was 90% completed.

Education: During the quarter construction work began on six schools and plans were being drawn up for four more. Furniture was supplied to eight new schools and also some existing ones. New sanitation was provided for seven schools in Demerara, two in Berbice and two in Essequibo.

At the end of the year grants totalling \$88,387.50 were paid to aided secondary schools, the greater portion being used to improve facilities for teaching science. The construction of the Handicraft and Domestic Science Departments will commence early in 1960 when the steel frames for the buildings which were ordered through the Crown Agents are received.

Finance: Loans made and repayments received by the Credit Corporation during the quarter totalled \$512,918 and \$796,623 respectively. Disbursements on loan totalled \$17,686 and at the end of the quarter \$11,676 was recovered.

Forests: Silvicultural work was completed at Moraballi and the nursery was prepared for next year's seedlings. An aggregate of 1,540 man days was worked.

Geological Surveys: During the quarter all ten survey parties returned to Georgetown. The prospectings for bauxite on the Pakaraima plateau gave promising results and on these will be based a programme of drilling to be carried out in 1960. The block of flats for officers' quarters in New Market Street was occupied. Work on the new laboratory proceeded.

Fifty-two analyses and identifications, twenty-one heavy mineral separations, three hundred and eighty-seven thin sections and one hundred and seventy-seven analyses etc. for private firms and members of the public were carried out during the quarter.

The fifth Inter-Guiana Conference, held in the Colony during the quarter, was attended by delegates from Surinam, French Guiana,

/Venezuela

Venezuela, Brazil, Jamaica, the Windward Islands in addition to those of British Guiana and interested persons from the metropolitan countries. This conference was acknowledged by all to be a success.

Health: At the end of the year the Cottage Hospitals at Leonora, Leguan and Mahaicony were 50%, 45% and 40% completed respectively. Good progress was made on the construction of the health centres and two mortuaries were completed during the quarter.

Housing: The revised programme of 3,218 houses was completed during the quarter with the handing over of 11 houses at Reliance. Eighty-two families were provided with rental accommodation while forty-seven received hire-purchase houses.

Revenue collected from rents, hire purchase, payments and sales of land totalled \$192,166.

Lands and Mines: Owing to bad weather conditions only 7,200 square miles were covered by aerial photographs for the 1959 programme.

Land Development: On the Essequibo estates, one new trench was dug at Reliance "E"; the trench at Lima was deepened and widened over a distance of 1,200 rods and further 1,000 rods were cleared to facilitate widening of the trench. 99.5 rods of drain were dug in the Cotton Field Housing Area and an additional 200 acres of land cleared at Vergenoegen. The metalling of streets continued.

At Garden of Eden the whole northern, and half the southern section, were cleared and the centre drainage trench was being dug at Mara. Thirty-one families were allocated 15-acre farmsteads for the cultivation of cocoa, limes and other permanent crops. The outlet boxes at North Mara and South Vryberg were enlarged and lowered to an invert of 45 G.D.

Post Office: In Georgetown 98% of the cable for the new telephone system was laid and 80% jointed. The automatic exchange buildings at Cove and John and Mahaica were completed while only flooring and painting remained for the one at Mon Repos. Internal wiring of new subscribers' premises was 80% completed and re-wiring of existing premises 70%.

Public Works: On the East Bank, Demerara 5,000 feet of surfacing were completed at Coverden and cutting, to get a better vertical curve and improved alignment, was carried out at the steep 9 Mile Hill.

Seven miles of survey were carried out of the Parika-Bartica Road and the re-alignment was completed of the Potaro-Lethem road between 10 and 30 Miles, and between 90 and 100 Miles.

At the end of the year, an average of over 60% of the works in the Sea and River Defences Programme was completed of which nine projects were 100% completed.

During the quarter the new Laboratory Building at the Technical Institute and the sub-Registry vault at New Amsterdam were completed. At the end of the year, five Public Buildings and eleven houses for Public Officers were completed.

Good progress was made on all works under the Rural Water Supply scheme. The drilling of wells continued and approximately eight miles of new pipe line were laid.

Transport and Harbours: Work on the re-engining of the m.v. Barima continued. The new vessel "Makouria" was brought into service on

/30th ...

30th November, 1959 on the Georgetown/Vreed-en-Hoop ferry. The alterations to the temporary sites selected for the Ferry Terminals at Georgetown and Vreed-en-Hoop were completed. Extension of the terminal at Vreed-en-Hoop progressed satisfactorily.

Overhaul work on the Mahaica, Mahaicony and Greenfield bridges was completed.

Social Welfare: During the quarter a full programme including both indoor and outdoor activities, boxing and other forms of physical education was carried out at the Albouystown Y.M.C.A. Educational and vocational classes were held regularly. The fencing of the club's building was completed during the quarter.

Local Government: The Regulations to be made under the Valuation Ordinance were drafted and submitted to the Attorney General.

Amerindian Development: The rest shelters at Lethem, Kopinang, Waipa and Kamarang and the Trade Store at Aishalton were completed during the quarter. The Wapisiana fencing scheme was also completed.

Classes in carpentry were held at Acquero, in domestic science and tailoring at Wakapau and in dress-making in the Rupununi. Adult Educational classes were held in the Rupununi.

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I. AGRICULTURE

1. STAFF TRAINING:

At the end of the quarter there were sixteen students at the Eastern Caribbean Farm Institute, eight on the 1958/60 course and eight on the 1959/61 course.

2. STATIONS:

2. Central Agricultural Station - The roads at the Stock Farm and in the Compound which had been damaged by heavy machinery travelling on them in the wet weather were repaired. A survey to provide the necessary data for the running of underground electric wires in the Station's compound was completed and arrangements were made for the extension of electricity to the Stock Farm. Approximately one mile of fencing was completed to protect a number of crops from praedial larceny.

Two Ferguson D 65 tractors, an overhead Irrigation system and a market garden tractor ordered earlier in the year were received. These were of considerable help in the preparation of land and for the growing of crops to provide seed for distribution to farmers.

3. Hosororo Experiment Station -

Citrus: Ten acres of Valencia oranges were fertilised. The growth of most plants was good but acoushi ants did considerable damage. Five acres planted in 1958 were also fertilised and weedkiller sprayed throughout the area with the Motoblo. 2.4D. was used at 30 gallons per acre; broad-leafed weeds were killed but regrowth occurred because of the continued rainfall. The pineapple cultivation was also fertilised.

Cocoa: The four and a half acres of cocoa clones planted in July were fertilised and the whole field used as a fertiliser trial. 200 clones of Imperial College Selection No. 95 were planted and 12 acres of forest cleared for planting.

Coffee: Half an acre of Liberica and half an acre of Robusta were planted on the hill.

Road: Clearing of the roads to the cocoa field and down to the swamp continued.

Grass: Five acres of worn out pegasse were planted with Locuntu grass and by the end of December cattle were grazing on it. This area was fenced to prevent the cattle from breaking down the dams and drains.

Poultry: The deep litter demonstration unit produced 1,837 eggs from the beginning of the quarter until November when all the birds were sold. The Rhode Island, Red and White Leghorn hens were trap nested.

Livestock: The calves born on the station were all retained as herd replacements. One large black boar was received from the Central Agricultural Station. This increased the herd to six. All the pigs grew well.

Buildings: A calf pen, cocoa hardening shed 24' x 60' and a spray bed 16' x 30' were constructed. Farrowing rails and creep feeds were fitted in the pig unit and the pig paddock fenced.

/4.....

4. Livestock Station - Ebini -

Experiments in Planted Pastures: The experiment studying liveweight changes and reproductive performances of cows continued. Steers from the first grazing trial on Pangola grass were slaughtered during November. The quality of the meat was considered good. The second trial is proceeding satisfactorily.

During October an experiment with in-calf animals - mainly heifers - was begun. The treatments provided a comparison between animals provided with no supplement, with high phosphorus mineral supplement and with various combinations of copper, cobalt, zinc and molybdenum. Trichomonas foetus was identified in washing from all the bulls on the Station. This organism was probably responsible for the abortions during the year. There were fewer abortions during the quarter.

5. Livestock Station - St. Ignatius - A cattle dipping tank was constructed at the Central corral. Provision was made to erect ten 50-acre paddocks for the use of the Agronomist. One hundred acres of savannah were cleared of bush for grass planting and will be fenced.

Cattle: During the quarter 30 calves were born including 16 bulls. A shipment of 24 cull cows was made, the average liveweight being 635 lbs. with a deadweight of 305 lbs. and the dressing percentage 48%. Seventeen of these animals were sold at the minimum price - 24½¢ per lb. - and the remainder at 26½¢ per lb. 5 animals died from various causes. At the end of the year the herd totalled 519.

A small single sire unit consisting of 12 cows and 1 bull was established for the Veterinary Officer to use as a control i.e. no experimental treatments or mineral feed or worming will be given to these animals. Regular weighing of all cattle was begun. This was in addition to the regular weighing of calves.

The restriction imposed in August because of the outbreak of foot and mouth disease in the neighbouring Brazilian territory was lifted at year-end and cattle were allowed to re-enter the "buffer zone" along the Brazilian border.

3. SOIL SURVEYS:

A detailed soil survey of the Tapakuma Irrigation scheme area on the Essequibo Coast was started during the quarter. This survey is being conducted on a quarter mile grid. Although heavy rainfall during the quarter hampered the work, progress was satisfactory. Due to dense secondary growth in certain areas, much line cutting was necessary.

Laboratory analyses of soil samples taken during the soil survey of the Cane Grove Land Settlement Scheme were completed and a report was being prepared.

4. CROPS:

8. Cocoa Trials - Pruning and general maintenance work was carried out and weeding was intensified on account of the heavy rains during November and December. Work was started on a new drying floor 24' x 16' and a spray bed at the Hosororo Station. 26½ acres of new lands were cleared at Hosororo Station and planting on it awaited suitable weather. With the onset of the wet season plants suffering from suspected salt

/toxicity

toxicity, showed signs of improvement. Plants which died during the prolonged dry season were replaced. In order to stimulate interest in cacao cultivation a Field Day was held at the Atkinson Nursery. A large number of farmers attended and all showed keen interest.

10. Coconut Development - During the quarter recordings of yield and other information continued to be taken at Plantations Cane Grove and Chapman Grove in order to keep check of the genetic stocks of nuts used for germination in the nurseries and the final distribution of seedlings to farmers. The allocation of seedlings to the various districts were as follows:-

<u>Essequibo</u>	<u>West Dem- erara</u>	<u>East Dem- erara</u>	<u>Berbice</u>	<u>Miscellaneous</u>	<u>Total</u>
7,800	250	13,000	27,200	546	48,796

On account of the strike of Government employees, transportation of seedlings was held up for about three weeks. They were all taken by the farmers. This programme was definitely an incentive to farmers to plant new land with coconuts and at the same time to rehabilitate old plantations.

5. FISHERIES:

11. Onverwagt - The main works of the Station were completed and 10 ponds were in operation for the cultivation of fish and shrimp. Additional equipment was still needed and minor works to be built included a check sluice.

During October to December, the average height of the water in the ponds was 54.5 G.D. or about 14 inches above the central ground level of the ponds and 4½ feet in the ditches of the ponds. The salinity varied from 12 to 20 parts per thousand, but reduced towards year end due to heavy rains. Large numbers of fry of croakers, mullets and tarpon were collected and there was an abundance of larval shrimp. Routine records were begun of the water conditions and fish types available. Fingerlings were marked, measured and weighed to assess the rapidity of growth in the ponds. The dams were planted with coconut seedlings on the slope and mangrove or courida bush near the water's edge to counteract erosion.

The excavation of the main drainage canal draining the water from the backlands threatened to disrupt the operations of the Java Complex of ponds. In other ponds, after a full year of normal operations, a proper yield figure of production per acre per annum will be obtained.

II. CIVIL AVIATION

The preliminary survey of the Kaitour area was carried out by the Lands and Mines Department. Slow progress was made on the airstrip at Kamarang.

Some of the equipment, mainly windsock poles and fittings destroyed by fire (Atkinson Terminal Building), were replaced during the quarter.

/ III.

III. DRAINAGE AND IRRIGATION

1. BLACK BUSH POLDER:

Progress of Work - Minor modifications were made to the lifting mechanisms on the Main Sluices.

Excavation work on the Main Drain was completed at Joanna and Yakusari and on collector drains at Mibikuri. Excavation of proprietors' drains was almost completed at Joanna and good progress made on the works at Mibikuri and Yakusari. Excavation of distributaries was completed at Joanna and Mibikuri and in progress at Yakusari. At Mibikuri excavation of the watercourses was almost completed and on those at Yakusari continued.

Main Canal - Trimming and shaping continued.

Pumping Station - All the main works were completed.

Roads - Bad weather conditions resulting in a shortage of burnt-earth slowed up the work.

Bridges - All piling were completed.

Contractors' Labour - At the end of the quarter 1,300 Guianese were employed by Messrs. Pauling and Company and their sub contractors as compared with 1,200 at the end of the preceeding quarter.

2. BOERASIRIE EXTENSION PROJECT:

Headworks

Earthworks - During the quarter a new Clamshell Lorain was put into use inside the conservancy for the purpose of maintaining the conservancy dams. With this machine, the obstruction at the Boerasirie Creek mouth was removed. All earthworks were completed except for topping up in several sections.

Structures - All structures were completed and in full working order.

Distributaries

Earthworks - At the end of the quarter all distributaries were completed except the Ruby/Boerasirie of which 3,800 feet were completed.

Structures - During the quarter work on the Wales Aqueduct, the Greenheart intake box to supply Plantation Ruby and the heavy duty bridges across the Maripa/Bonasika distributary were completed.

Drains

Earthworks - During the quarter the "A" line Main Drain was completed and the collector drain overhauled. At the end of the quarter 1,000 feet of the Georgia sideline and 2,100 feet of the Hubu/Blake facade were completed.

Structures - The heavy duty bridge across the Strik-en-heuvel facade drain was completed during the quarter.

/Greenheart

Greenheart boxes were placed across the booms of facade drains in the East Bank Essequibo area and across the "A" line Dam to allow drainage from the collector drain to the Main Drain.

General

Routine maintenance work was carried out during the quarter. Naamryck compound was fenced and a stores building removed from Warimia for re-erection there. The work on moving the office and a bungalow from Warimia to Naamryck was 30% completed.

During November flooding occurred in the East Bank Essequibo area. This was due to high spring tides and lack of river defences. All intakes drew water regularly throughout the quarter. Rainfall for the quarter totalled 25.86 inches. The highest conservancy level for the quarter was 61.33, the lowest 60.23 and at the end of the quarter the level was 61.12.

At the end of the quarter employees inclusive of supervisory staff totalled 172 of whom 139 were employed by the Department and the remainder by the Contractors.

3. MINOR DRAINAGE AND IRRIGATION WORKS:

Berbice - At the end of the quarter the construction of the Gibraltar Sea Sluice was 90% completed and work on the side canal started. At Lancaster-Manchester about 40% of excavation work was completed and work on the reconditioning of trenches in progress. Work was started on the drainage trenches at Fyrish. In the Block III Cattle Pasture area all the main works were completed except for some cleaning. At Rosehall grading and reticulating of the roadway continued.

East Demerara - During the quarter a pit was excavated at Park Sluice, sheet and junction piles driven in, 3" blindings cast below the foundation of the sluice, breach repaired and an 18" thick concrete cast at the foundation of the sluice. In the Mahaicony/Abary area, the Hyde Park/Abary facade from McDoom to 3rd Point and the Hyde Park/Mahaicony facade from McDoom to Hyde Park Sluice were completed. Work was in progress on the reconditioning of the Burma Drain from the Public Road to the R.C. sluice and the building of a new greenheart bridge at Cape Clear. In the Buxton/Friendship area slips were made and trees cleared from trenches.

West Demerara - The cleaning of dams and trenches in the Den Amstel area continued. The digging of the Fellowship Middle Walk from the last cross dam to the Conservancy, approximately 600 rods, was completed. Digging was also completed of the West Side Line (1,100 rods), Western Fellowship Side line (250 rods) and the borrow trench and the building of the eastern dam of the Middle walk began from a point approximately 660 rods north of the Conservancy Dam. The building of the western dam and the East Side Line dam approximately 375 and 950 rods by 2 rods from the railway line southwards was carried out. Work was in progress on the upstream wings of the Den Amstel R.C. intake sluice. The intake at Klien and 99% of the work at North Pouderoyen were completed.

Essequibo - During the quarter Armco Intakes were constructed at Lima, Richmond, Bush Lot, and Reliance, a greenheart intake at L'Union and a 6' R.C. Weir at Golden Fleece. The Anna Regina Waterpath, upstream of Red Loch and the Lima Control canal were satisfactorily widened and deepened while 5% of the Lima north side line was improved. Several

/new

new drains were maintained. The facade drain from Devonshire Castle to Walton Hall was completed. A four-strand barbed wire fence was erected along the McNabb/Sparta lamaha, embracing the watercourse up to the Sand Reef. Work on the Columbia and Affiance panels were completed.

4. SURVEYS FOR DRAINAGE AND IRRIGATION PROJECTS:

At the end of the quarter, the surveys for the Mahaicony/Abary/Berbice area were 90% completed.

5. HYDROGRAPHIC AND HYDROLOGICAL SURVEYS:

Four stage guages and four rainfall recorders were operated in the Canje River and three of each in the Mahaica, Mahaicony and Abary Rivers.

IV. EDUCATION

Primary School Buildings - During the quarter construction work was in progress at the following schools:- Good Hope Government, East Bank Essequibo; Resource and Common Government, Canal No. 2, West Bank Demerara; Craig Government, East Bank Demerara; Fort Ordnance Government, Sheet Anchor Berbice; St. Patrick's Anglican, Canje Berbice and Fyrish Congregational, Corentyne. Plans for the construction of Orealla Anglican and Lodge Government Schools were far advanced, and were also drawn up for the extension of Queenstown and St. Thomas More Roman Catholic Schools. There was siting difficulties with regard to Houston Methodist and Smith Church Congregational.

Furniture and Equipment - Furniture was supplied to seven of the eight schools completed under the 1958 programme as well as to the new Lutheran School at Ruimveldt which was opened in September 1959. In addition a number of existing schools received supplies to assist in meeting their shortage.

Sanitation - New blocks of latrines were provided for 2 schools in Western Berbice, 3 in the East Coast Demerara, 1 in Georgetown, 1 on East Bank Demerara, 1 on West Coast Demerara, 1 at Wismar and 2 in Essequibo.

Grants to Aided Secondary Schools - At the end of the year \$88,387.50 was paid to aided secondary schools as follows:-

St. Stanislaus	...	\$ 1,000.00
Indian Educational Trust	...	10,000.00
St. Joseph's High	...	10,000.00
Central High	...	10,000.00
St. Rose's High	...	1,000.00
Skeldon High	...	1,612.50
Corentyne High	...	10,000.00
Tutorial High	...	14,775.00
Berbice High	...	30,000.00
		<hr/>
		\$88,387.50
		<hr/>

The greater portion of these grants was used to improve facilities for teaching science. The sum of \$30,000 to Berbice High School is Government's contribution to the first phase of a new building for the school.

/Handicraft ...

Handicraft and Domestic Science Departments - The steel frames for the Handicraft and Domestic Science Centres were ordered and construction will commence early in 1960.

V. FINANCE

Credit Corporation - Loans made and repayments received by the Credit Corporation during the quarter were as follows:-

	LOANS		REPAYMENTS
	No.	Amount(\$)	Amount(\$)
AGRICULTURE	22	129,069	198,793
HOUSING-PUBLIC OFFICERS	23	137,438	111,851
-OTHERS	54	92,845	252,848
INDUSTRY	4	70,386	40,077
FISHING	1	514	4,720
LOGGING	-	-	-
FOOD PRODUCTION	17	82,666	179,257
LOCAL AUTHORITY	-	-	9,077
	121	512,918	796,623

At the end of the quarter Sundry Disbursements totalled \$17,686 with repayments of \$11,676.

VI. FORESTS

2. Timber Appraisals - The Divisional Forest Officer completed and submitted his report on the enumeration survey carried out earlier in the year over 142 square miles of forest to the south of Great Falls, Demerara River.

3. Silviculture - During the quarter at Moraballi, silvicultural operations continued and were completed for the year. Poor weather and illness among the workers greatly hindered the progress of operations.

The pine plantations were tended as required and the nursery prepared to receive next year's seedlings. Seeds of *Pinus caribaea* and *Pinus elliottii* were sown in the germination beds.

Total man days worked was 1,540.

VII. GEOLOGICAL SURVEYS

Buildings - The new block of flats, consisting of four flats for married officers and two for bachelors, was occupied during the quarter.

Work on the new laboratory proceeded very slowly. No work on the demolition of the old laboratory and servants quarters was carried out.

/ Field

Field Survey - During the quarter, all the parties in the field returned to Georgetown. The prospecting for bauxite on the Pakaraima plateau gave promising results and on these a programme of drilling to be carried out in 1960 will be based. Traces of nickel and molybdenum minerals were found in the North West District and this area will receive further attention. Considerable additional deposits of shell were found along the beaches of the North West District.

Laboratory Work - The work carried out during the quarter included:-

Analyses and identifications	...	52
Heavy mineral separations	...	21
Thin sections	...	387
Analyses etc. for private firms and individuals	...	177

Drawing Office - In addition to work on the provisional geological map of the colony on the scale 1:500,000, the following were done during the quarter:-

Ammonia sunprints	...	440
Photoscopic stencils	...	20
Maps and tracings	...	30

Library - During the quarter 270 books were catalogued, 162 new accessions made and 222 books were loaned to officers. The number of publications cyclostyled and distributed by sale or free exchange was:-

Bulletins	...	164
Annual Reports	...	40
Mineral Resources Pamphlets	...	71
Maps	...	88
Distribution list	...	118
Other reports	...	28

During the quarter work was concentrated on indexing all reports and this was almost completed.

The fifth Inter-Guiana Geological Conference was held in the Colony from October 28th to November 6th. More than 40 delegates came from Surinam, French Guiana, Venezuela, Brazil, Jamaica, the Windward Islands and also interested persons from the metropolitan countries. A number of delegates from this country attended. Most of the delegates went on the three field excursions, each of which lasted four days.

VIII. HEALTH

At the end of the quarter the Cottage Hospitals at Leonora, Leguan and Mahaicony were 50%, 45% and 40% completed respectively.

In the Essequibo area the Health Centre at Queenstown was 20% completed. In Demerara the buildings at Craig and Soesdyke were completed and 95%, 25% and 10% of the work was completed at Good Intent and Sisters, Clonbrook and Handsome Tree, Mahaica River, respectively. Foundation work was completed at both Vergenoegen and Windsor Forest and 75% and 50% of the blocks completed respectively.

/Excavation ...

Excavation and concrete work were in progress at Crabwood Creek, Corentyne.

The construction of mortuaries was completed at Providence, and La Bonne Mere, East Coast and Bagotville, West Coast, Demerara, and that at Lichfield, West Coast, Berbice was 91% completed.

IX. HOUSING

Construction of Houses - The eleven houses at Reliance which were 95% completed at the end of the last quarter were completed and handed over. This completed the revised programme of 3,218 houses.

Eighty-two families (60 at Wismar) were provided with rental accommodation, while 47 (40 at Wismar and 7 at Springlands) received hire purchase houses.

The report of the Estate Committee allocating the commercial sites on Government Housing Estates was submitted to the Ministry.

Nine lots of lands at Ruimveldt and La Penitence not taken up by persons to whom they were allocated, were disposed of to other applicants.

Revenue collected during the quarter amounted to \$192,166.13 and included rents, hire purchase instalments on houses and sale of land.

X. LANDS AND MINES

The Faircy Air Services Limited were awarded the contract to take aerial photographs of the Colony during 1959. Their aircraft arrived in September and left in December. An area of only 7,200 square miles was photographed. This was due to bad weather. Weather stations had to be established at Kamarang, Mahdia, Enachu and Matthews Ridge to assist in locating areas free of clouds.

XI. LAND DEVELOPMENT

1. IMPROVEMENT AND EXPANSION OF EXISTING LAND DEVELOPMENT SCHEMES:

Essequibo - At Henrietta a section of the abandoned fields was cleared for rice cultivation. A new trench was dug at Reliance "E" while the one at Lima was deepened and widened over a distance of 1,200 rods and some 1,000 rods cleared of trees and bushes for further widening. The intake at Bush Lot was renewed and the wings of the new ones at Reliance "G" and Reliance "F" were filled in and consolidated. Low spots in the Reliance and Cotton Field Housing areas were also filled in. 99.5 rods of drains were dug in the Cotton Field Housing area and box culverts installed in the Reliance and Lima Housing areas. A re-survey was carried out of the lots at Abraham Avenue and the streets in the Reliance Housing area graded and prepared for metalling. At third depth, measures to eradicate acoushi ants continued.

/Charity ...

Charity-Amazon - During the quarter a new market shed was erected and painted and the compound built up against flooding.

Vergenoegen - An additional 200 acres of land were cleared in the Philadelphia Savannah area and approximately 246 cwts. of basic slag were applied to the Greenwich Park East and West Savannah pastures. The excavation of the Greenwich Park West drainage trench and the Barnwell West drainage canal were in progress. The digging of the canal through Greenwich Park was completed. The metalling of streets continued and a portion of the Philadelphia savannah area surveyed.

3. GARDEN OF EDEN:

Fences were erected around all the staff houses and the office compound and the roadway built up. The centre drainage trench was being re-dug and the whole northern section and half of the southern were cleared.

Clearing of an acre of bush between the Public Road and the sea dam was started. At the end of the quarter there were 68 house lots cleared. The concrete bridge on the northern section was completed and construction of one on the southern section started.

4. MARA CUM ANNEXIS:

Thirty-one families were allocated 15-acre farmsteads for the cultivation of cocoa, limes and other permanent crops. A further 400 acres of land have been prepared for rice cultivation. The main drains were dug, dams built up and the layout of an area for cocoa started. All roads in the area have been metalled.

The two main outlet boxes at North Mara and South Vryberg were enlarged and lowered to an invert of 45 G.D. The trenches in these areas were dug and the spoil used to raise field reserves.

5. ONVERWAGT:

The scheme for the comprehensive drainage and irrigation and for full utilisation and occupation of Plantation Onverwagt was under consideration.

6. PURCHASE OF LAND:

The payment of the balance of \$45,000 of the purchase price of Mara was awaiting the determination of the exact acreage to be cleared.

XII. POST OFFICE

Unit Automatic Exchanges - The Exchange buildings at Cove and John and Mahaica were completed during the quarter and only flooring and painting remained for the one at Mon Repos.

Rural Automatic Exchanges - A 100 line Unit Automatic Exchange was installed at Vreed-en-Hoop and testing almost completed.

/Radio

Radio Buildings - The construction of the building at Mon Repos continued.

Underground Duct and Cable System - During the quarter 98% of the cable was laid, 80% jointed and the planning completed in Georgetown. Plans for New Amsterdam were finalised. Additional distribution was erected at Wismar and Christianburg and some thirty subscribers have been connected to the station at Mackenzie.

Exchange Equipment - Completed except for the radio telephone terminals, final lubrication and call through test and a few miscellaneous items.

Subscribers' Apparatus - At the end of the quarter 80% of the internal wiring of new subscribers' premises and 70% of the inspection and re-wiring of existing premises were completed.

One indent was placed during the quarter.

XIII. PUBLIC WORKS

1. ROADS:

East Coast - Work on the test section at Bushy Park continued.

East Bank - Progress on the Diamond Bridge was slow due partly to the high water level in the trench maintained by the Estate. All piles have been driven in; abutment walls and retaining wall completed and the construction of piers commenced. The revetment at the southern end of Eccles was underway, deviation driven and backfilling started and proceeding well. Progress at Coverden was poor due to the transfer of the D4 tractor to Buxton to aid in the sea defence breach there. Fair progress was made on the base course work at Coverden and at the end of the quarter 5,000 feet were completed.

The number of persons employed totalled 175.

Parika-Bartica - Owing to the numerous bends and the ribbon development along the existing road from Parika to Larima Kabra, a location survey for a new alignment east of the existing road was carried out. At the end of the year seven miles of the road were completed.

The number of persons employed was 25.

Bartica-Potaro - Boulder supply from 2 Mile Quarry increased considerably making it possible to concentrate on blending stone into sand-clay previously laid in slopes. Corrections were made to foundation failures in the 7½ and 2 - 3 Mile sections. Widening of curves in the 2 - 4 Mile section and minor straightening in the 9½ Mile section were carried out. Cutting was done to get a better vertical curve and improved alignment at the steep 9 Mile Hill. A temporary road was constructed at this section to enable construction to proceed. Major repairs were carried out to machinery and vehicles during the quarter.

Two survey parties carried out re-alignment work and at the end of the quarter from 10 to 30 Miles and 90 Miles to 100 Miles were completed.

/The

The number of persons employed totalled 180 of whom 60 were engaged on the surveys.

Potaro-Lethem - Plans for the work from the Burro Burro River to Lethem - Good Hope Road were being prepared.

2. SEA AND RIVER DEFENCES:

The position at the end of the quarter was:-

Essequibo -

Walls, Essequibo Coast	...	Materials ordered.
Walls, Leguan	...	375 feet completed.
Walls, Wakenaam	...	567 feet completed.
Boulder Groynes, Wakenaam	...	1,335 feet completed. Work delayed due to slow delivery of stone.
Works, McNabb to Somerset and Berks	...	938 feet of boulder facing, 106 feet of toe piling, 69 feet of R.C. coping and 3,631 feet of earthworks completed. Sluice at Better Success completed and the altered line from Better Success to Somerset and Berks approved.
Earth Dam, Queenstown	...	1,666 feet of earth dam completed.

West Demerara -

Raise wave-screen, DeWille/Zeeburg	...	526 feet completed.
Casing Uitvlugt Paal-off, W.C.D.	...	224 feet completed.
Underpin R.C. Wall, Stanleytown, W.B.D.	...	132 feet of underpinning completed. Work held up due to inadequate supply of crushed stone.

River Defences - Anti-erosion measures, Wismer/Christianburg	...	Completed.
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Works, Greenwich Park/Parika	...	Survey completed.
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Underpinning Wall, Metenmeerszorg, DeWille, Zeeburg	...	Steel sheet piling being transported to site.
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East Demerara -

Works, Mahaica/Mahaicony	...	3,649 feet of earth works completed from Fairfield to Planter's Hall.
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/Works

Works, Nabaclis/Strathspey	...	Works completed. This consisted of strengthening about 17,000 feet of earth dam, 8,252 feet of boulder facing to earth dam, 5,890 feet R.B.C. coping, 2,494 feet of toe piling, 1,825 feet of groynes and 1,221 pairs steel sheet piling.
Boulder Wall, Atkinson Field	...	Completed.
<u>Berbice -</u>		
Works, Springlands/Skeldon, New Sea Dam at Nos.2 & 3	...	Completed.
Wall from No. 78 Koker to Springlands Stelling	...	796 feet boulder facing completed.
R.C. Wall, River Defences Stanleytown/Islington	...	945 feet completed.
Reconditioning dam, Industry to Borlam	...	Completed.
Sea Wall, Grand Canal/ Industry	...	Dragline under repair.
New Sea Dam, Cotton Tree/ Zee Zight	...	3,200 feet of dam completed.
Recasing concrete walls (Colony wide)	...	335 feet completed.
Plant	...	2 Priestman tiger draglines, 2-D4, 1-D6 and 1-D7 tractors were in operation during the quarter and 1 compressor was purchased.
Beacons	...	12 beacons erected in the Mahaica/Fort Wellington area.
Sluice at Ithaca South Zorg-en-Hoop	...	Completed.
Sea Wall, Zeelandia/ Wakenaem	...	Completed.

3. NEW PUBLIC BUILDINGS:

During the quarter the buildings completed were the new laboratory building for the Technical Institute, the Magistrates' Court and office, New Amsterdam, the extension of the Forestry Department, Georgetown and the new office for the District Commissioner, Vreed-en-Hoop. The works at Triumph and the office for Overseer and Foreman and storeroom, Anna Regina were both 95% completed.

4. HOUSING FOR PUBLIC OFFICERS:

The position at the end of the year was as follows:-

/District ...

District Commissioner, Fort Wellington	... Completed.
Police - 1 N.C.O. and 4 Ranks, Blairmont	... No site available.
Conversion - House to 3 flats, New Amsterdam	... Completed.
Marshall's House, New Amsterdam	... Completed.
Social Assistance Officer, Mahaicony	... No site available.
Junior Public Health Officer, Plaisance	... do.
Police Constables (2), Mahaicony	... do.
Agricultural Instructor, Mahaicony	... do.
Technician, Post Office Telecommunications, Cove and John	... Completed.
Houses, Lodge	... Completed.
Block of flats, New Market Street	... Completed.
Conversion - Barracks to married quarters, Atkinson Field	... Completed.
Headteacher's Quarters, Teymouth Manor	... Work not started.
Engineer, Drainage & Irrigation, Capoey	... 98% completed.
Veterinary Officer, Suddie	... Completed.
Inspector, Post Office Telecommunications, Anna Regina	... Completed.
Engineer, Public Works Department, Lethem	... Completed.
Prison Officer, Mazaruni	... 99% completed.
2 Field Officers, Karasabai, Ishalton, Rupununi	... Completed.
Headteacher's quarters, Wakenaam	... No site available.

5. RURAL WATER SUPPLY:

The drilling of the test well at the Shelter Belt, Georgetown continued. The test hole was drilled to 1,725 feet and 485'-0" of cores were taken.

In the Essequibo area the construction of 2 C.I. tanks at Diamond and Hackney in the Pomeroon River was completed. At Queenstown a test hole was drilled to 326'-0" and 8" casing set. The well at Cullen was completed. This was drilled to a depth of 356'-3" with a flow at high tide of 5 gallons in 4 seconds and at low tide 5 gallons in 7 seconds. Work on the construction of a 20,000 gallon overhead tank and windmill and another 10,000 gallon was in progress at Queenstown and Huist'Dieren respectively and the contract was awarded for the construction of a 20,000 gallon tank and pump at Danielstown. .95 mile of new pipe line was laid at Danielstown and materials ordered were received.

In the East Demerara area the laying of $1\frac{1}{4}$ miles of

/new

new pipe line was completed in the Bagotsville/La Grange districts. The construction of overhead tanks was in progress at La Grange (1 - 20,000 gallon) and No. 2 Canal (1 - 20,000 gallon) and materials were being transported for a 36,000 gallon tank at No. 1 Canal.

At Supply in the East Demerara section the laying of 9.75 miles of pipe line was completed. The laying of $1\frac{1}{2}$ miles and $\frac{1}{2}$ mile new 6" pipe line and $\frac{1}{4}$ mile 4" was completed at Mahaica and Bachelor's Adventure and Central Mahaicony respectively. .56 mile and .25 mile of 4" and .30 mile 3" were laid at Bachelor's Adventure, Ann's Grove, Clonbrook and Lancaster respectively. 1.14 miles of 4" were relaid at Mahaica. Work on the laying of new lines was started in the Wismar area.

In Berbice laying of new pipe line was in progress at Cromarty, Corentyne and at the end of the quarter .36 mile was laid.

6. EXTENSION P.W.D. WORKSHOP:

At the end of the quarter the building was completed.

XIV. TRANSPORT AND HARBOURS

Steamer Services - During the quarter the alteration to the temporary sites selected for the Ferry Terminals at Georgetown and Vreed-en-Hoop were completed. The new ferry vessel "Makouria" commenced operations on the 30th November, 1959 on the Georgetown/Vreed-en-Hoop Service. On account of the specially designed vehicle and passenger gangways, the steel passenger gantries intended for the permanent set-up had to be erected and are being operated satisfactorily on improvised lifting gear. Electrical installation was completed.

At Vreed-en-Hoop, the extension of the terminal progressed satisfactorily. At the end of the quarter, 140 greenheart piles 45 ft. to 55 ft. were driven in, tenants cut and 500 feet of 6" x 12" greenheart caps fitted. Pile driving was being concentrated in the gap between the Goods and Ferry Stellings, after which work will be carried out eastwards by the pontoons built by Messrs. Sprostons Ltd. The installation of the new engine for the m.v. Barima continued.

Harbour Services - Work on the Vreed-en-Hoop Depot and Launch Service was completed except for the installation of two M.K.W. Diesel Electric Plants which were ordered.

Railway Renewals - The overhauling of the bridges at Mahaica and Mahaicony and the painting of the one at Greenfield were completed during the quarter. Protective sheet piling work was undertaken on the No. 74 Bridge, Enmore to arrest erosion of the embankment, and approximately one mile of track was re-laid at Belfield. General overhauling continued satisfactorily on both the East and West Coast. Improvements were being carried out to the Locomotive Shed on the West Coast.

XVII. SOCIAL WELFARE

A full programme including both indoor and outdoor activities, boxing and other forms of physical education was

/carried

carried out during the quarter at the Albouystown Y.M.C.A. Club. Educational and vocational classes in basket-making, raffia work, tailoring, wood-work, first aid and radio electronics were held regularly. The fencing of the compound was completed. At the end of the year the membership of the Club was 235.

XVIII. LOCAL GOVERNMENT

The Regulations to be made under the Valuation Ordinance were drafted and submitted to the Attorney General. The drafting of the remaining legislation continued.

XX. AMERINDIAN DEVELOPMENT

The Rest Shelters at Lethem, Kopinang, Waipa and Kamarang and the Trade Store at Aishalton were completed during the quarter. Fencing was also completed, equipment purchased for the water supply and the outboard engines and other items for the launch for Orealla obtained.

Classes in carpentry were held at Acquero, in domestic science and tailoring at Wakapau and in adult education and dress-making in the Rupununi.

APPENDIX.

Development Programme - Financial Statement.

Head of Estimate and Project	Total Provision for 1959	Total Expenditure for 1959
	\$	\$
I. <u>AGRICULTURE:</u>		
Staff Training	47,449	9,188
Central Agricultural Station	154,195	33,831
Hosororo Experiment Station	94,500	25,360
Employment of a Soil Scientist	26,856	19,894
Soil Surveys - Coast and Interior	129,652	93,219
Livestock Station - Ebini	63,440	58,610
Livestock Station - St. Ignatius	97,807	56,925
Fisheries	57,364	41,267
Fisheries D. 2555	11,839	8,643
Cocoa Trials	64,703	55,467
Jute Investigations	34,152	14,887
Development of Coconut Industry	40,000	24,336
Botanical Surveys - Intermediate and Interior Savannahs	4,830	1,804
Abattoir and Refrigeration Plant, Lethem	3,000	210
Milk Pasteurisation Plant	1,714	1,714
Cotton Investigations	347	347
	831,848	445,702
II. <u>CIVIL AVIATION:</u>		
Improvement of Interior Communications	51,409	32,849
Safety and Navigational Aids	29,506	1,423
Aeronautical Telecommunications and Navigational Aids	22,374	268
Purchase of Aircraft	63,701	63,701
	166,990	98,241
III. <u>DRAINAGE AND IRRIGATION:</u>		
Black Bush Polder	5,300,000	5,300,000
Boerasirie Project	1,943,772	1,943,772
Minor Drainage & Irrigation Works	1,270,871	353,313
Surveys for Drainage & Irrigation Projects	143,000	115,000
Hydrographic and Hydrological Surveys	105,800	72,520
Corentyne Scheme	292,000	75,000
Rosehall Village-Permanent Drainage System	15,010	5,000
Reconditioning Drainage-North Pouteroyen	33,210	26,000
Tapakuma-Investigation & Report	368,000	368,000
	9,471,663	8,258,605

/ IV.....

Head of Estimate and Project	Total Provision for 1959	Total Expenditure for 1959
	\$	\$
IV. EDUCATION:		
Primary Schools-Buildings	400,000	125,042
-Furniture & Equipment	88,000	83,054
-Sanitation	25,000	21,182
Capital Grants to Aided Secondary Schools	90,000	88,387
Extension & Improvements to Queen's College	32,400	-
Handicraft and Domestic Science Departments	97,000	-
Technical Institute - Laboratory and Classroom Equipment	14,000	10,677
	746,400	328,342
V. FINANCE:	-	-
VI. FORESTS:		
Additional Temporary Staff	37,940	24,426
Staff Training	4,500	1,850
Timber Appraisals	35,424	20,701
Silviculture	50,581	31,867
Central Timber Manufacturing Plant	46,000	39,708
	174,445	118,552
VII. GEOLOGICAL SURVEYS:		
Geological Surveys & Mineral Development	628,689	541,733
Inter Guiana Conference	3,800	3,800
	632,489	545,533
VIII. HEALTH:		
Purchase of Hospital Equipment	27,156	35,268
Cottage Hospital-Leonora	74,988	35,329
" " Leguan	71,420	35,658
" " Mahaicny	79,824	60,780
Health Centres	286,585	61,095
Mortuaries	13,465	7,219
Filaria Control	17,740	16,209
Poliomyelitis Vaccination	86,300	57
Erection of Central Medical Store, Pharmaceutical Manufacturing Department and Alcohol Bond	16,078	9,970

/Health

APPENDIX (Contd.)

Head of Estimate and Project	Total Provision for 1959	Total Expenditure for 1959
VIII. <u>HEALTH</u> (Contd.)	\$	\$
Health Museum - Equipment	604	604
Settlement of Ex-patients		
Mahaica Hospital	10,000	2,009
Anti-Typhoid Vaccines	13,000	8,067
	697,160	272,265
IX. <u>HOUSING</u> :		
Rural & Urban Housing	963,169	970,103
X. <u>LANDS AND MINES</u> :		
Topographic Surveys	22,000	16,748
Aerial Surveys	173,166	154,834
	195,166	171,582
XI. <u>LAND DEVELOPMENT</u> :		
Improvement & Expansion of Existing Land Settlement Schemes	189,713	112,569
Equipment for and Improvement to Workshops on Land Settlements	12,000	1,097
Development of Garden of Eden	105,698	53,136
" " Pln. Mara	545,425	207,203
" " Pln. Onverwagt	100,391	-
Purchase of Land	45,000	-
Preliminary Investigations	1,000	248
Erection of Bonds for Pure Line Seed Padi	16,405	4,118
	1,015,632	378,371
XII. <u>POST OFFICE</u> :		
Telecommunications Rehabilitation	2,444,930	2,089,541
XIII. <u>PUBLIC WORKS</u> :		
East Coast Demerara Main Road	850,000	252,370
East Bank Demerara Road	610,000	422,465
Parika-Bartica Road	30,000	22,611
Bartica-Potaro Road	200,000	198,005
Potaro-Lethem Road	200,000	171,092
Reconstruction of Berbice Road	10,000	1,110 Cr.
Sea & River Defences	1,776,982	1,536,007

/New

APPENDIX (Contd.)

Head of Estimate and Project	Total Provision for 1959	Total Expenditure for 1959
XIII. PUBLIC WORKS (Contd.)	\$	\$
New Public Buildings	100,000	80,235
Housing for Public Officers	201,044	75,236
Rural Water Supply-Artesian Wells	700,000	552,200
Road Making Plant	32,800	25,598
Extension P.W.D. Workshop	47,000	45,730
Hydrological Research and Instruments	19,000	2,608
Pure Water Supply - Hague	8,763	8,763
	4,775,589	3,391,810
XIV. TRANSPORT AND HARBOURS:		
Rehabilitation of Steamer Services	1,941,101	1,645,179
Harbour Services Improvement	50,000	14,363
Railway Renewals	193,998	181,912
	2,185,099	1,841,454
XV. MISCELLANEOUS:		
New Amsterdam-Improvement of Water Supply	120,634	5,622
Expenses of Issue	10,000	2,093
Government Recording Studio	41,000	-
Experiment in Papain Production	1,000	-
Improvement Library Facilities		
- Primary Schools	2,400	2,400
- Secondary Schools	1,200	931
Visual Aid Equipment	1,920	-
Construction Atkinson Field Sports Club	2,400	-
Extension of Georgetown Pure Water Supply to areas comprising the Greater Georgetown Area	2,008	2,000
Training in Home Economics	1,461	-
Training in Agriculture	2,150	-
Medical Research	288	-
Purchase of Generating Sets	327,574	327,574
	514,035	340,620
XVI. RURAL SELF HELP:		
Rural Self Help Schemes	300,000	37,720

/XVII.....

APPENDIX (Contd.)

Head of Estimate and Project	Total Provision for 1959	Total Expenditure for 1959
<p>XVII. <u>SOCIAL WELFARE:</u></p> <p>Community Organisation, Education and Development Extension Albouystown Y.M.C.A. Sports Development</p>	<p align="center">\$</p> <p align="right">26,622 4,450 4,000</p>	<p align="center">\$</p> <p align="right">18,694 4,442 3,997</p>
<p>XVIII. <u>LOCAL GOVERNMENT:</u></p> <p>Temporary Specialist Staff</p>	<p align="right">59,732</p>	<p align="right">50,234</p>
<p>XIX. <u>RURAL ELECTRIFICATION:</u></p> <p>Rural Electricity Schemes</p>	<p align="right">36,000</p>	<p align="right">12,532</p>
<p>XX. <u>AMERINDIAN DEVELOPMENT:</u></p> <p>Rest Shelters Water Supply - Amerindian Villages Amerindian Training Centres Trade Stores Wapisiana Fencing Scheme District Office, Orælla</p>	<p align="right">16,500 5,000 8,000 6,758 2,000 23,750</p>	<p align="right">3,847 4,985 3,518 5,374 2,000 5,989</p>
<p>TOTAL: HEADS I - XX</p>	<p align="right">25,307,427</p>	<p align="right">19,404,053</p>