

Wm

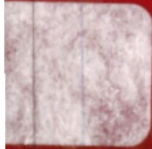
PARLIAMENT  
OF KENYA  
LIBRARY

**ESTIMATES OF  
REVENUE AND EXPENDITURE**  
OF THE  
**EAST AFRICA HIGH COMMISSION**  
(NON-SELF-CONTAINED SERVICES)  
FOR THE YEAR  
**1960-61**

(Passed by the East Africa Central Legislative Assembly on 7th April, 1960)

1960

PRINTED BY THE GOVERNMENT PRINTER, NAIROBI



### EXPLANATION OF NOTES

- \* Pensionable Office.
- a. Includes normal increments.
- b. Revised scale of salary.
- c. Change in holder of post.
- d. New appointment.
- e. Increase in cost.
- f. Token provision.
- g. Change in designation.
- h. Reduced by administrative direction as an economy measure.
- k. Post abolished.
- l. Services detailed in Appendix D.
- m. Explanation in Memorandum.
- n. Regrading.
- o. Economy.
- p. Salary personal to present holder.
- q. Previous provision inadequate.
- s. Post in abeyance.
- t. Temporary post.
- v. Previously overestimated.
- w. Committee of Supply Report.
- y. Reallocation of expenditure.
- z. Present holder pensionable.

---

NOTE.—The fact that any post is marked with an \* does not entitle the holder of that post to pensionable status. Pensionable posts are declared by general notice under the Pensions Act.

The salary scale shown against any post does not entitle the holder to that salary scale.

PARLIAMENT  
OF KENYA  
LIBRARY

# ESTIMATES OF REVENUE AND EXPENDITURE

OF THE

## EAST AFRICA HIGH COMMISSION

(NON-SELF-CONTAINED SERVICES)

FOR THE YEAR

### 1960-61

KENYA NATIONAL ASSEMBLY LIBRARY

Accession: 10006374

Call No: 658.151EAC



## CONTENTS

PAGE

Explanation of Notes Inside front cover.

Standard Salary Scales .. .. . 2

General Summary .. .. . 5

### REVENUE ESTIMATES

### EXPENDITURE ESTIMATES

<i>Contributions from:—</i>	PAGE
Aden .. .. .	18
B.L.R.A. .. .. .	18
Egypt .. .. .	14
High Commission Fund .. .. .	18
Her Majesty's Government .. .. .	9
Kenya .. .. .	11
Loan Fund .. .. .	18
E.A. Posts and Telecommunications Administration .. .. .	15
E.A. Railways and Harbours Administration	15
Reimbursements .. .. .	16
Rents of Buildings .. .. .	15
Rents Received .. .. .	17
Revenue Summary .. .. .	8
Sundry Revenue .. .. .	16
Seychelles .. .. .	15
Somaliland .. .. .	15
Tanganyika .. .. .	12
Uganda .. .. .	13
U.S. Department of Agriculture .. .. .	19
U.S. Department of Health, Education and Welfare .. .. .	19
Zanzibar .. .. .	14

	PAGE
Expenditure Summary .. .. .	22
Office of the Administrator .. .. .	23
Public Service Commission .. .. .	25
Office of the Commissioner for Transport ..	26
Office of the East African Agricultural and Fisheries Research Council .. .. .	26
Medical Research Secretary .. .. .	27
Tuberculosis Investigation .. .. .	27
Legal Secretary .. .. .	31
Financial Secretary .. .. .	33
Department of Economic Co-ordination ..	34
E.A. Hides and Leather Bureau .. .. .	35
Accountant General .. .. .	36
East African Airways Corporation .. .. .	37
East Africa Central Legislative Assembly ..	40
E.A. Agriculture and Forestry Research Organization .. .. .	49
E.A. Fishery Research Organization .. .. .	56
E.A. Industrial Research Organization .. ..	59
Desert Locust Survey .. .. .	62
E.A. Marine Fisheries Research Organization	68
Lake Victoria Fisheries Service .. .. .	71
E.A. Leprosy Research Centre .. .. .	77
E.A. Literature Bureau .. .. .	79
E.A. Institute of Malaria and Vector-borne Diseases .. .. .	83
E.A. Institute for Medical Research .. .. .	88
Royal East African Navy .. .. .	93
E.A. Office in London .. .. .	95
E.A. Statistical Department .. .. .	97
E.A. Trypanosomiasis Research Organization	105
E.A. Veterinary Research Organization .. ..	117
E.A. Virus Research Institute .. .. .	123
E.A. Directorate of Civil Aviation .. .. .	126
E.A. Meteorological Department .. .. .	133
Miscellaneous Services .. .. .	143
E.A. Customs and Excise Department .. ..	146
E.A. Income Tax Department .. .. .	150

### APPENDICES

B—Statement of Assets and Liabilities ..	153
C—Publishing Fund—Statement of Assets and Liabilities .. .. .	155
D—Details of Common Services .. .. .	157
E—Titles of Expenditure Subheads and Allocation of Expenditure .. .. .	158

## CONSOLIDATED SCALES AND SALARY POINTS

SUPER SCALE: CONSOLIDATED £2,000 x 70-2,140.

### *Consolidated Salary Points*

£  
2,000  
2,070  
2,140

SCALES A AND A(W) AND MEDICAL AND SCIENTIFIC EXTENSION CONSOLIDATED

<i>Basic Scale Consolidated</i>	<i>Inducement Scale Consolidated</i>
A3 £726 x 36-870	A3 £939 x 42-1,107
A2 £945 x 39-1,023 x 45-1,068 x 48-1,308	A2 1,194 x 45-1,284 x 51-1,335 x 54-1,389 x 57-1,617
A1 £1,359 x 51-1,410 x 54-1,518	A1 £1,677 x 60-1,737 x 63-1,863
M/S. Ext. £1,581 x 63-1,770	M/S. Ext. £1,926 x 63-2,115
A(W)3 £726 x 36-870	A(W)3 £939 x 42-1,107
A(W)2 £906 x 39-1,023 x 45-1,068 x 48-1,308	A(W)2 £1,149 x 45-1,284 x 51-1,335 x 54-1,389 x 51-1,617
A(W)1 £1,359 x 51-1,410 x 54-1,518	A(W)1 £1,677 x 60-1,737 x 63-1,863
M/S. Ext. £1,581 x 63-1,770	M/S. Ext. £1,926 x 63-2,115

### B. B(W) SCALES

#### CONSOLIDATED SALARY SCALE

<i>Basic Scale Consolidated</i>	<i>Inducement Scale Consolidated</i>
B5 £678 x 27-759 x 30-789	B5 £879 x 33-978 x 36-1,014
B4 £879 x 33-912 x 36-984	B4 £1,122 x 39-1,161 x 42-1,245
B3 £1,020 x 36-1,056 x 39-1,095 x 42-1,137	B3 £1,287 x 42-1,329 x 45-1,374 x 48-1,422
B2 £1,179 x 42-1,263 x 45-1,308	B2 £1,470 x 48-1,566 x 51-1,617
B1 £1,359 x 51-1,410 x 54-1,518	B1 £1,677 x 60-1,737 x 63-1,863
B(W)5 £678 x 27-759 x 30-789	B(W)5 £879 x 33-978 x 36-1,014
B(W)4 £819 x 30-879 x 33-912	B(W)4 £1,050 x 36-1,122 x 39-1,161
B(W)3 £948 x 36-1,056	B(W)3 £1,203 x 42-1,329
B(W)2 £1,095 x 42-1,263 x 45-1,308	B(W)2 £1,374 x 48-1,566 x 51-1,617
B(W)1 £1,359 x 51-1,410 x 54-1,518	B(W)1 £1,677 x 60-1,737 x 63-1,863

### C. C(W) SCALES

#### SALARY POINTS

<i>Basic Scale Consolidated</i>	<i>Inducement Scale Consolidated</i>
C6 £576 x 21-597	C6 £753 x 27-780
C5 £624 x 27-732	C5 £813 x 33-945
C4 £825 x 33-924	C4 £1,056 x 39-1,173
C3 £960 x 36-1,068	C3 £1,215 x 42-1,341
C2 £1,104 x 36-1,140 x 39-1,179 x 42-1,263	C2 £1,383 x 42-1,425 x 45-1,470 x 48-1,566
C1 £1,308 x 51-1,410 x 54-1,518	C1 £1,617 x 60-1,737 x 63-1,863
C(W)6 £576 x 21-597	C(W)6 £753 x 27-780
C(W)5 £624 x 27-732	C(W)5 £813 x 33-945
C(W)4 £762 x 30-792 x 33-858	C(W)4 £981 x 36-1,017 x 39-1,095
C(W)3 £891 x 33-924 x 36-996	C(W)3 £1,134 x 39-1,173 x 42-1,257
C(W)2 £1,032 x 36-1,140 x 39-1,179 x 42-1,263	C(W)2 £1,299 x 42-1,425 x 45-1,470 x 48-1,566
C(W)1 £1,308 x 51-1,410 x 54-1,518	C(W)1 £1,617 x 60-1,737 x 63-1,863

## D SCALE—TRAINING GRADE

## MEN AND WOMEN

Present Scale: £408 x 18-480

Consolidated Scale: £471 x 21-555

<i>Present Salary Points</i>	<i>Consolidated Salary Points</i>
£	£
408	471
426	492
444	513
462	534
480	555

## E. E(W)

## CONSOLIDATED SALARY SCALE

E6	£104/5s. x 6/15s.-138
E5	£152/5s. x 6/15s.-172/10s. x 7/10s.-180
E4	£187/10s. x 10/10s.-208/10s. x 13/10s.-262/10s.
E3	£290/5s. x 13/10s.-330/15s. x 14/5s.-345 x 21-366
E2	£387 x 21-450
E1	£471 x 21-555
E(W)6	£104/5s. x 6/15s.-138
E(W)5	£145/10s. x 6/15s.-172/10s. x 7/10s.-180
E(W)4	£187/10s. x 10/10s.-208/10s. x 13/10s.-262/10s.
E(W)3	£276/15s. x 13/10s.-330/15s. x 14/5s.-345
E(W)2	£366 x 21-450
E(W)1	£471 x 21-555

## N SCALE

<i>Basic Scale Consolidated</i>	<i>Inducement Scale Consolidated</i>
N5 £624 x 27-732 x 30-792 x 33-924	N5 £813 x 33-945 x 36-1,017 x 39-1,173
N4 £678 x 27-732 x 30-792 x 33-924 x 36-996	N4 £879 x 33-945 x 36-1,017 x 39-1,173 x 42-1,257

STENOGRAPHER-SECRETARY, PERSONAL SECRETARY GRADES I AND II  
CONSOLIDATED SALARY SCALES

<i>Men</i>	<i>Women</i>
Stenographer-Secretary: £471 x 21-597	£471 x 21-597
Personal Secretary, Grade II £624 x 27-732 : 825 x 33-924	£624 x 27-732 x 30-792 x 33-858
Personal Secretary, Grade I £825 x 33-924 x 36-1,068	£762 x 30-792 x 33-924 x 36-996

## SCALES APPLICABLE TO TEMPORARY STAFF ONLY

The following Consolidated Scales and Salary Points apply only to Temporary Staff in terms of Circular No. 50 of 1955.

*Consolidated Scales—Clerical and Analogous*

E4 or E(W)4	£235/10s. x 13/10s.-262/10s. : £276/15s. x 13/10s.-317/15s.
E3 or E(W)3	£345 x 21-429
E2 or E(W)2	£450 x 21-534
E1 or E(W)1	£555 x 21-639
Typists, Pool Stenographers	
E3/2 or E(W)3/2	£345 x 21-534
Stenographer-Secretaries	
E1-C6 or E(W)1-C(W)6	£555 x 21-639 : £657 x 21-678
Personal Secretary, Grade II	
C or C(W)5/4	£699 x 21-825 x 27-879
Other Post above the Clerical Level	
C6 or C(W)6	£657 x 21-678
C5 or C(W)5	£699 x 21-783
C4 or C(W)4	£804 x 21-825 x 27-879

## STANDARD SALARY SCALES

## SCALE P

P14 .. ..	£90 6s.x£2 14s.-£117 6s.x£3 12s. (biennially)-£131 14s.
P12 .. ..	£117 6s.x£5 14s.-£145 16s.
P11-10 ..	£159x£6 15s.-£172 10s.x£7 10s.-£202 10s.
P9-8 .. ..	£208 10s.x£6 15s.-£242 5s.
P7-5 .. ..	£387x£21-£555
P3 .. ..	£540x£24-£636

## SCALES FOR RESEARCH BRANCH

## WITHOUT MEDICAL OR VETERINARY QUALIFICATIONS

	Basic Scale	Scale including inducement pay
S.O.	£726 by £36 to £870: £945: £984 £726 by £36 to £906: £945 (Female)	£939 by £42 to £1,107: £1,194: £1,239 £939 by £42 to £1,149: £1,194 (Female)
S.S.O.	£1,023 by £45 to £1,068 by £48 to £1,308: £1,359 £984: then as above (Female)	£1,284: £1,335: £1,389 by £57 to £1,617: £1,677 £1,239 then as above (Female)
P.S.O.	£1,410 by £54 to £1,518: £1,581 by £63 to £1,896	£1,737 by £63 to £2,241
S.P.S.O.	£2,500	
D.C.S.O.	£2,900	
C.S.O.	£3,100	

## WITH VETERINARY QUALIFICATIONS

	Basic Scale	Scale including inducement pay
S.O.	£945 by £39 to £1,023 by £45 to £1,068 by £48 to £1,212	£1,194 by £45 to £1,284 by £51 to £1,335: £1,389 by £57 to £1,503
S.S.O.	£1,260 by £48 to £1,308 by £51 to £1,410 by £54 to £1,518 by £63 to £1,644	£1,560 by £57 to £1,617 by £60 to £1,737 by £63 to £1,989
P.S.O.	£1,707 by £63 to £1,896	£2,052 by £63 to £2,241
S.P.S.O.	£2,500	
D.C.S.O.	£2,900	
C.S.O.	£3,100	

## WITH MEDICAL QUALIFICATIONS

	Basic Scale	Scale including inducement pay
M.R.O. III	£1,023 by £45 to £1,068 by £48 to £1,212	£1,284 by £51 to £1,335 by £54 to £1,389 by £57 to £1,503
M.R.O. II	£1,260: £1,308 by £51 to £1,410 by £54 to £1,518	£1,560: £1,617 by £60 to £1,737 by £63 to £1,863
M.R.O. I	£1,581 by £63 to £1,833	£1,926 by £63 to £2,178
S.M.R.O. II	£2,300 by £50 to £2,400	
S.M.R.O. I	£2,600	
Special Grades	£2,700	

## GENERAL SUMMARY OF EXPENDITURE SHOWING SOURCES OF REVENUE

	Her Majesty's Government	Government of Kenya	Government of Tanganyika	Government of Uganda	Government of Zanzibar	Other Sources ( <i>vide</i> page 7)	Total
	£	£	£	£	£	£	£
1. Office of the Administrator (General) .. ..	7,119	42,560	42,241	42,224	774	2,846	137,764
2. Office of the Administrator (Legal) .. ..	..	6,814	6,813	6,813	..	7,727	28,167
3. Office of the Administrator (Finance, Economic Co-ordination and Accounts) .. ..	..	30,042	26,385	23,043	760	95,706	175,936
4. E.A. Central Legislative Assembly .. ..	..	5,207	5,207	5,206	..	..	15,620
5. E.A. Agriculture and Forestry Research Organization .. ..	50,674	36,677	36,677	34,663	3,803	4,775	167,269
6. E.A. Fishery Research Organization .. ..	6,988	5,102	5,102	4,822	529	333	22,876
7. E.A. Industrial Research Organization .. ..	14,491	14,157	4,000	14,156	..	2,709	49,513
8. Desert Locust Survey .. ..	81,954	186,584	70,698	22,200	..	51,951	413,387
9. E.A. Marine Fisheries Research Organization ..	12,458	7,803	7,803	7,375	808	456	36,703
10. Lake Victoria Fisheries Service .. ..	..	1,637	1,637	1,637	..	..	4,911
11. E.A. Leprosy Research Centre .. ..	..	1,980	1,979	1,980	..	4,240	10,179
12. E.A. Literature Bureau .. ..	16,050	8,255	8,254	8,255	504	1,168	42,486
13. E.A. Institute of Malaria and Vector-borne Diseases .. ..	13,131	9,058	10,158	9,058	903	2,712	45,020
14. E.A. Institute for Medical Research .. ..	16,355	10,604	10,605	10,604	..	15,023	63,191
16. Royal East African Navy .. ..	..	42,365	28,244	21,183	368	2,478	94,638
17. E.A. Office in London .. ..	..	19,021	7,133	7,133	400	7,248	40,935
20. E.A. Statistical Department .. ..	..	67,023	56,793	58,460	1,000	3,050	186,326
21. E.A. Trypanosomiasis Research Organization	41,870	22,023	22,023	20,816	2,282	3,568	112,582
22. E.A. Veterinary Research Organization ..	36,992	24,498	24,498	23,155	2,539	51,435	163,117
23. E.A. Virus Research Institute .. ..	17,310	10,160	10,161	10,161	753	4,534	53,079
24. E.A. Directorate of Civil Aviation .. ..	196,528	111,120	160,146	42,372	15,823	97,382	623,371
25. E.A. Meteorological Department .. ..	82,985	90,890	73,938	71,176	4,367	96,547	419,903
27. Miscellaneous Services .. ..	..	833	833	834	..	103,399	105,899
28. E.A. Customs and Excise Department ..	..	404,365	279,372	237,369	..	39,202	960,308
29. E.A. Income Tax Department .. ..	..	419,698	178,468	141,211	4,901	29,734	774,012
TOTAL .. ..	£ 594,905	1,578,476	1,079,168	825,906	40,514	628,223	4,747,192

5



## DETAILS OF REVENUE FROM OTHER SOURCES

HEAD No.	Loan Fund	U.S.A. Dept. of Health	Sources not Determined	Government of Egypt	U.S. Dept. of Agriculture	B.L.R.A.	Government of Aden	Government of the Seychelles	Government of Somaliland	E.A. Railways and Harbours	E.A.P. & T. Administration	Reimbursements	Sales and Sundry Revenue	Rents Received and Rent of Buildings	High Commission	Total
1	£		£	£	£	£	£	£	£	£	£	£	£	£	£	£
2	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..		..	..	..	..	..	..	42,026	..	..	..	..	..	..	..
9	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..		..	..	..	4,000	..	..	..	..	..	..	..	..	..	..
12	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..		..	..	..	..	..	..	612	..	..	..	..	..	..	..
14	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..		..	..	..	..	..	..	..	7,133	..	..	..	..	..	..
20	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..		..	..	7,705	..	..	..	..	..	..	10,000	..	..	..	..
24	..		2,634	..	..	..	..	..	..	..	..	..	..	..	..	..
25	..		59,799	2,400	..	..	..	200	..	..	..	..	..	..	..	..
27	7,775		..	..	..	..	..	..	..	..	..	..	..	..	..	..
28	600		..	..	..	..	5,006	..	..	..	..	..	..	..	..	..
29	..		..	..	..	..	..	..	..	..	..	9,620	..	..	..	..
	8,375	11,773	62,433	2,400	7,705	4,000	5,006	300	42,638	11,778	2,787	110,823	154,421	146,911	56,873	628,223

**REVENUE ESTIMATES**  
**1960/61**

## REVENUE SUMMARY

No.	DETAILS	Estimates		Increase	Decrease	Notes
		1960/61	1959/60			
		£	£	£	£	
<b>CONTRIBUTIONS FROM</b>						
1	Her Majesty's Government .. .. .	<b>225,817</b>	238,900	..	13,083	
2	Grants under C.D. and W. Act .. .. .	<b>369,088</b>	271,506	97,582	..	
	Total Her Majesty's Government .. .. .	<b>594,905</b>	510,406			
3	Government of Kenya .. .. .	<b>1,578,476</b>	1,526,966	51,510	..	
4	Government of Tanganyika .. .. .	<b>1,079,168</b>	1,041,000	38,168	..	
5	Government of Uganda .. .. .	<b>825,906</b>	794,044	31,862	..	
6	Government of Zanzibar .. .. .	<b>40,514</b>	36,860	3,654	..	
9	Government of Egypt .. .. .	<b>2,400</b>	2,400	..	..	
10	<i>The Central African Federation</i> .. .. .	..	2,745	..	2,745	
11	Rents of Buildings .. .. .	<b>95,623</b>	94,627	996	..	
12	Government of the Seychelles .. .. .	<b>300</b>	300	..	..	
13	Government of Somaliland .. .. .	<b>42,638</b>	42,338	300	..	
14	East African Railways and Harbours Administration .. .. .	<b>11,778</b>	11,038	740	..	
15	East African Posts and Telecommunications Administration .. .. .	<b>2,787</b>	2,627	160	..	
19	Reimbursements .. .. .	<b>110,823</b>	118,568	..	7,745	
20	Sundry Revenue .. .. .	<b>154,421</b>	131,511	22,910	..	
21	Rents Received .. .. .	<b>51,288</b>	52,332	..	1,044	
22	High Commission Fund .. .. .	<b>56,873</b>	2	56,871	..	
24	Government of Aden .. .. .	<b>5,006</b>	8,062	..	3,056	
28	B.L.R.A. .. .. .	<b>4,000</b>	4,000	..	..	
29	Loan Fund .. .. .	<b>8,375</b>	..	8,375	..	
30	U.S. Department of Agriculture .. .. .	<b>7,705</b>	7,000	705	..	
31	Sources not Determined .. .. .	<b>62,433</b>	..	62,433	..	
32	U.S. Department of Health .. .. .	<b>11,773</b>	..	11,773	..	
	TOTAL .. .. .	<b>4,747,192</b>	4,386,826	388,039	27,673	
	NET INCREASE—£360,366					

## REVENUE

DETAILS	Estimates		Increase	Decrease	Notes
	1960/61	1959/60			
	£	£	£	£	
<b>CONTRIBUTIONS FROM HER MAJESTY'S GOVERNMENT</b>					
8.—Desert Locust Survey .. .. .	<b>30,000</b>	30,000	..	..	
24.—East African Directorate of Civil Aviation .. .. .	<b>139,249</b>	149,022	..	9,773	
25.—East African Meteorological Department .. .. .	<b>56,568</b>	59,878	..	3,310	
Total Direct Grants .. .. .	<b>225,817</b>	238,900	..	13,083	
<b>GRANTS UNDER COLONIAL DEVELOPMENT AND WELFARE ACT ON ACCOUNT OF—</b>					
1.—Office of the Administrator (General):—					
(4) Office of the Agricultural and Fisheries Research Council .. .. .	<b>328</b>	363	..	35	
(5) Medical Research Secretary .. .. .	<b>1,791</b>	2,123	..	332	
(6) Tuberculosis Investigation .. .. .	<b>5,000</b>	1,750	3,250	..	
Total Office of the Administrator (General) .. .. .	<b>7,119</b>	4,236	..	..	
5.—East African Agriculture and Forestry Research Organization:—					
(1) Research .. .. .	<b>50,334</b>	47,367	2,967	..	
(2) East African Agricultural and Forestry Journal .. .. .	<b>340</b>	..	340	..	
(3) <i>Sorghum Research</i> .. .. .	..	525	..	525	
Total East African Agriculture and Forestry Research Organization .. .. .	<b>50,674</b>	47,892	..	..	
6.—East African Fishery Research Organization .. .. .	<b>6,988</b>	7,311	..	323	
7.—East African Industrial Research Organization .. .. .	<b>14,491</b>	14,050	441	..	
8.—Desert Locust Survey .. .. .	<b>51,954</b>	51,840	114	..	
9.—East African Marine Fisheries Research Organization .. .. .	<b>12,458</b>	8,059	4,399	..	
12.—East African Literature Bureau .. .. .	<b>16,050</b>	10,914	5,136	..	
13.—East African Institute of Malaria and Vector-borne Diseases:—					
(1) Institute .. .. .	<b>13,131</b>	10,320	2,811	..	
(2) <i>Malaria Control (C.D. &amp; W. Scheme R. 856)</i> .. .. .	..	822	..	822	
(3) <i>Malaria Control (Continuation Scheme)</i> .. .. .	..	1,087	..	1,087	
Total East African Malaria Institute .. .. .	<b>13,131</b>	12,229	..	..	
14.—East African Institute for Medical Research:—					
(1) Institute .. .. .	<b>14,969</b>	15,943	..	974	
(2) Schistosomiasis Research .. .. .	<b>1,386</b>	1,160	226	..	
Total East African Institute for Medical Research .. .. .	<b>16,355</b>	17,103	..	..	
<i>Carried forward</i> .. .. .	<b>189,220</b>	173,634	19,684	4,098	

10  
**REVENUE**

DETAILS	Estimates		Increase	Decrease	Notes
	1960/61	1959/60			
	£	£	£	£	
<b>CONTRIBUTIONS FROM HER MAJESTY'S GOVERNMENT—(Contd.)</b>					
<i>Brought forward</i> .. .. .£	<b>189,220</b>	173,634	19,684	4,098	
21.—East African Trypanosomiasis Research Organization .. .. .	<b>41,870</b>	33,504	8,366	..	
22.—East African Veterinary Research Organization .. .. .	<b>36,992</b>	33,283	3,709	..	
23.—East African Virus Research Institute .. .. .	<b>17,310</b>	15,126	2,184	..	
24.—East African Directorate of Civil Aviation .. .. .	<b>57,279</b>	6,075	51,204	..	
25.—East African Meteorological Department .. .. .	<b>26,417</b>	9,884	16,533	..	
<b>TOTAL GRANTS UNDER COLONIAL DEVELOPMENT AND WELFARE ACT</b> .. .. .	<b>369,088</b>	271,506	101,680	4,098	
<b>TOTAL DIRECT GRANTS</b> .. .. .£	<b>225,817</b>	238,900	..	13,083	
<b>TOTAL HER MAJESTY'S GOVERNMENT</b> .. .. .£	<b>594,905</b>	510,406	101,680	17,181	
 NET INCREASE—£84,499					

## REVENUE

DETAILS	Estimates		Increase	Decrease	Notes
	1960/61	1959/60			
	£	£	£	£	
<b>(3) CONTRIBUTIONS FROM THE GOVERNMENT OF KENYA ON ACCOUNT OF—</b>					
1.—Office of the Administrator (General) .. ..	42,560	69,288	..	26,728	
2.—Office of the Administrator (Legal) .. ..	6,814	..	6,814	..	
3.—Office of the Administrator (Finance, Economic Co-ordination and Accounts) .. ..	30,042	..	30,042	..	
4.—East African Central Legislative Assembly ..	5,207	4,550	657	..	
5.—East African Agriculture and Forestry Research Organization .. ..	36,677	36,227	450	..	
6.—East African Fishery Research Organization ..	5,102	5,642	..	540	
7.—East African Industrial Research Organization ..	14,157	14,392	..	235	
8.—Desert Locust Survey .. ..	186,584	186,584	..	..	
9.—East African Marine Fisheries Research Organization .. ..	7,803	7,522	281	..	
10.—Lake Victoria Fisheries Service .. ..	1,637	10,253	..	8,616	
11.—East African Leprosy Research Centre .. ..	1,980	2,313	..	333	
12.—East African Literature Bureau .. ..	8,255	8,264	..	9	
13.—East African Institute of Malaria and Vector-borne Diseases .. ..	9,058	8,705	353	..	
14.—East African Institute for Medical Research ..	10,604	9,614	990	..	
16.—Royal East African Navy .. ..	42,365	40,495	1,870	..	
17.—East African Office in London .. ..	19,021	17,758	1,263	..	
20.—East African Statistical Department .. ..	67,023	59,660	7,363	..	
21.—East African Trypanosomiasis Research Organization .. ..	22,023	25,681	..	3,658	
22.—East African Veterinary Research Organization ..	24,498	29,123	..	4,625	
23.—East African Virus Research Institute .. ..	10,160	10,589	..	429	
24.—East African Directorate of Civil Aviation ..	111,120	98,008	13,112	..	
25.—East African Meteorological Department ..	90,890	79,119	11,771	..	
27.—Miscellaneous Services .. ..	833	833	..	..	
28.—East African Customs and Excise Department ..	404,365	393,500	10,865	..	
29.—East African Income Tax Department .. ..	419,698	408,846	10,852	..	
<b>TOTAL KENYA .. ..</b>	<b>1,578,476</b>	<b>1,526,966</b>	<b>96,683</b>	<b>45,173</b>	
<b>NET INCREASE—£51,510</b>					

## REVENUE

DETAILS	Estimates		Increase	Decrease	Notes
	1960/61	1959/60			
	£	£	£	£	
<b>(4) CONTRIBUTIONS FROM THE GOVERNMENT OF TANGANYIKA ON ACCOUNT OF—</b>					
1.—Office of the Administrator (General) .. ..	<b>42,241</b>	64,142	..	21,901	
2.—Office of the Administrator (Legal) .. ..	<b>6,813</b>	..	6,813	..	
3.—Office of the Administrator (Finance, Economic Co-ordination and Accounts) .. ..	<b>26,385</b>	..	26,385	..	
4.—East African Central Legislative Assembly ..	<b>5,207</b>	4,550	657	..	
5.—East African Agriculture and Forestry Research Organization .. ..	<b>36,677</b>	36,227	450	..	
6.—East African Fishery Research Organization ..	<b>5,102</b>	5,641	..	539	
7.—East African Industrial Research Organization ..	<b>4,000</b>	4,000	..	..	
8.—Desert Locust Survey .. ..	<b>70,698</b>	70,698	..	..	
9.—East African Marine Fisheries Research Organization .. ..	<b>7,803</b>	7,522	281	..	
10.—Lake Victoria Fisheries Service .. ..	<b>1,637</b>	11,542	..	9,905	
11.—East African Leprosy Research Centre .. ..	<b>1,979</b>	2,313	..	334	
12.—East African Literature Bureau .. ..	<b>8,254</b>	8,264	..	10	
13.—East African Institute of Malaria and Vector-borne Diseases .. ..	<b>10,158</b>	9,806	352	..	
14.—East African Institute for Medical Research ..	<b>10,605</b>	9,614	991	..	
16.—Royal East African Navy .. ..	<b>28,244</b>	26,996	1,248	..	
17.—East African Office in London .. ..	<b>7,133</b>	6,659	474	..	
20.—East African Statistical Department .. ..	<b>56,793</b>	51,447	5,346	..	
21.—East African Trypanosomiasis Research Organization .. ..	<b>22,023</b>	25,680	..	3,657	
22.—East African Veterinary Research Organization ..	<b>24,498</b>	29,122	..	4,624	
23.—East African Virus Research Institute .. ..	<b>10,161</b>	10,589	..	428	
24.—East African Directorate of Civil Aviation ..	<b>160,146</b>	155,574	4,572	..	
25.—East African Meteorological Department ..	<b>73,938</b>	66,763	7,175	..	
27.—Miscellaneous Services .. ..	<b>833</b>	833	..	..	
28.—East African Customs and Excise Department ..	<b>279,372</b>	258,543	20,829	..	
29.—East African Income Tax Department .. ..	<b>178,468</b>	174,475	3,993	..	
<b>TOTAL TANGANYIKA .. ..</b>	<b>1,079,168</b>	<b>1,041,000</b>	<b>79,566</b>	<b>41,398</b>	
<b>NET INCREASE—£38,168</b>					

## REVENUE

DETAILS	Estimates		Increase	Decrease	Notes
	1960/61	1959/60			
	£	£	£	£	
<b>(5) CONTRIBUTIONS FROM THE GOVERNMENT OF UGANDA ON ACCOUNT OF—</b>					
1.—Office of the Administrator (General) .. .. .	42,224	62,038	..	19,814	
2.—Office of the Administrator (Legal) .. .. .	6,813	..	6,813	..	
3.—Office of the Administrator (Finance, Economic Co-ordination and Accounts) .. .. .	23,043	..	23,043	..	
4.—East African Central Legislative Assembly .. .. .	5,206	4,550	656	..	
5.—East African Agriculture and Forestry Research Organization .. .. .	34,663	36,227	..	1,564	
6.—East African Fishery Research Organization .. .. .	4,822	5,642	..	820	
7.—East African Industrial Research Organization .. .. .	14,156	14,392	..	236	
8.—Desert Locust Survey .. .. .	22,200	22,273	..	73	
9.—East African Marine Fisheries Research Organization .. .. .	7,375	..	7,375	..	
10.—Lake Victoria Fisheries Service .. .. .	1,637	9,615	..	7,978	
11.—East African Leprosy Research Centre .. .. .	1,980	2,313	..	333	
12.—East African Literature Bureau .. .. .	8,255	8,264	..	9	
13.—East African Institute of Malaria and Vector-borne Diseases .. .. .	9,058	8,706	352	..	
14.—East African Institute for Medical Research .. .. .	10,604	9,614	990	..	
16.—Royal East African Navy .. .. .	21,183	20,247	936	..	
17.—East African Office in London .. .. .	7,133	6,659	474	..	
20.—East African Statistical Department .. .. .	58,460	48,483	9,977	..	
21.—East African Trypanosomiasis Research Organization .. .. .	20,816	25,680	..	4,864	
22.—East African Veterinary Research Organization .. .. .	23,155	19,415	3,740	..	
23.—East African Virus Research Institute .. .. .	10,161	10,589	..	428	
24.—East African Directorate of Civil Aviation .. .. .	42,372	38,807	3,565	..	
25.—East African Meteorological Department .. .. .	71,176	62,678	8,498	..	
27.—Miscellaneous Services .. .. .	834	834	..	..	
28.—East African Customs and Excise Department .. .. .	237,369	236,420	949	..	
29.—East African Income Tax Department .. .. .	141,211	140,598	613	..	
TOTAL UGANDA .. .. .	£ 825,906	794,044	67,981	36,119	
NET INCREASE—£31,862					



## REVENUE

DETAILS	Estimates		Increase	Decrease	Notes
	1960/61	1959/60			
	£	£	£	£	
<b>(6) CONTRIBUTIONS FROM THE GOVERNMENT OF ZANZIBAR ON ACCOUNT OF—</b>					
1.—Office of the Administrator (General) .. .. .	774	1,627	..	853	
3.—Office of the Administrator (Finance, Economic Co-ordination and Accounts) .. .. .	760	..	760	..	
5.—East African Agriculture and Forestry Research Organization .. .. .	3,803	3,094	709	..	
6.—East African Fishery Research Organization .. .. .	529	..	529	..	
9.—East African Marine Fisheries Research Organization .. .. .	808	3,761	..	2,953	
12.—East African Literature Bureau .. .. .	504	506	..	2	
13.—East African Institute of Malaria and Vector-borne Diseases .. .. .	903	903	..	..	
16.—Royal East African Navy .. .. .	368	352	16	..	
17.—East African Office in London .. .. .	400	400	..	..	
20.—East African Statistical Department .. .. .	1,000	1,000	..	..	
21.—East African Trypanosomiasis Research Organization .. .. .	2,282	..	2,282	..	
22.—East African Veterinary Research Organization .. .. .	2,539	..	2,539	..	
23.—East African Virus Research Institute .. .. .	753	784	..	31	
24.—East African Directorate of Civil Aviation .. .. .	15,823	16,032	..	209	
25.—East African Meteorological Department .. .. .	4,367	3,857	510	..	
29.—East African Income Tax Department .. .. .	4,901	4,544	357	..	
TOTAL ZANZIBAR .. .. . ..£	40,514	36,860	7,702	4,048	
NET INCREASE—£3,654					
<b>(9) CONTRIBUTION FROM THE GOVERNMENT OF EGYPT ON ACCOUNT OF—</b>					
25.—East African Meteorological Department .. .. .	2,400	2,400	..	..	
TOTAL EGYPT .. .. . ..£	2,400	2,400	..	..	
<b>(10) Contribution from the Central African Federation on Account of—</b>					
23.—East African Virus Research Institute .. .. .	..	2,745	..	2,745	
Total Central African Federation .. .. . £	..	2,745	..	2,745	

15  
**REVENUE**

DETAILS	Estimates		Increase	Decrease	Notes
	1960/61	1959/60			
	£	£	£	£	
<b>(11) RENTS OF BUILDINGS</b>					
27.—Rents .. .. .	95,623	94,627	996	..	
TOTAL RENTS OF BUILDINGS .. .. .	<b>95,623</b>	94,627	996	..	
<b>(12) CONTRIBUTIONS FROM THE GOVERNMENT OF THE SEYCHELLES ON ACCOUNT OF—</b>					
1.—Office of Administrator (General) .. .. .	100	100	..	..	
25.—East African Meteorological Department .. .. .	200	200	..	..	
TOTAL SEYCHELLES .. .. .	<b>300</b>	300	..	..	
<b>(13) CONTRIBUTIONS FROM THE GOVERNMENT OF SOMALILAND ON ACCOUNT OF—</b>					
8.—Desert Locust Survey .. .. .	42,026	41,738	288	..	
13.—East African Institute of Malaria and Vector-borne Diseases .. .. .	612	600	12	..	
TOTAL SOMALILAND .. .. .	<b>42,638</b>	42,338	300	..	
<b>(14) CONTRIBUTIONS FROM THE EAST AFRICAN RAILWAYS AND HARBOURS ADMINISTRATION ON ACCOUNT OF—</b>					
2.—Office of the Administrator (Legal) .. .. .	4,645	4,379	266	..	
17.—East African Office in London .. .. .	7,133	6,659	474	..	
TOTAL EAST AFRICAN RAILWAYS AND HARBOURS ADMINISTRATION .. .. .	<b>11,778</b>	11,038	740	..	
<b>(15) CONTRIBUTION FROM THE EAST AFRICAN POSTS AND TELECOMMUNICATIONS ADMINISTRATION ON ACCOUNT OF—</b>					
2.—Office of the Administrator (Legal) .. .. .	2,787	2,627	160	..	
TOTAL E.A. POSTS AND TELECOMMUNICATIONS ADMINISTRATION .. .. .	<b>2,787</b>	2,627	160	..	

16  
REVENUE

DETAILS	Estimates		Increase	Decrease	Notes
	1960/61	1959/60			
	£	£	£	£	
<b>(19) REIMBURSEMENTS</b>					
EAST AFRICAN AGRICULTURE AND FORESTRY RESEARCH ORGANIZATION ON ACCOUNT OF—					
13.— <i>East African Institute of Malaria and Vector-borne Diseases, Upkeep of Amani</i> .. .. .	..	25	..	25	
COFFEE BOARDS ON ACCOUNT OF—					
17.— <i>East Africa Office in London</i> .. .. .	..	942	..	942	
HIGH COMMISSION DEPARTMENTS ON ACCOUNT OF—					
1.—(1) <i>Office of the Administrator</i> .. .. .	..	1,278	..	1,278	
1.—(3) <i>Office of Commissioner for Transport</i> .. .. .	1	2,630	..	2,629	
1.—(6) <i>Maintenance Organization</i> .. .. .	..	2,980	..	2,980	
3.—(4) <i>Accountant General</i> .. .. .	91,202	91,093	109	..	
22.—(1) <i>Production of Sera and Vaccine</i> .. .. .	10,000	10,000	..	..	
KENYA HOSPITAL AUTHORITY ON ACCOUNT OF—					
29.—E.A. <i>Income Tax Department</i> .. .. .	9,620	9,620	..	..	
TOTAL REIMBURSEMENTS .. .. . £	110,823	118,568	109	7,854	
NET DECREASE—£7,745					
<b>(20) SUNDRY REVENUE</b>					
1.— <i>Sales and Miscellaneous Revenue</i> .. .. .	1,500	2,250	..	750	
3.— <i>Sales, Wheat Importations Fees and Miscellaneous Revenue</i> .. .. .	2,775	2,700	75	..	
5.— <i>Sales and Agricultural Products, etc.</i> .. .. .	1,500	2,500	..	1,000	
5.— <i>Sales of Agricultural Journal</i> .. .. .	1,100	..	1,100	..	
7.— <i>Laboratory Services and Sales</i> .. .. .	2,407	825	1,582	..	
8.— <i>Sales and Miscellaneous Revenue</i> .. .. .	6,500	15,100	..	8,600	
9.— <i>Sales and Miscellaneous Revenue</i> .. .. .	150	150	..	..	
10.— <i>Sales and Miscellaneous Revenue</i> .. .. .	..	50	..	50	
11.— <i>Sales and Miscellaneous Revenue</i> .. .. .	60	60	..	..	
12.— <i>Miscellaneous Revenue</i> .. .. .	250	75	175	..	
13.— <i>Sales and Miscellaneous Revenue</i> .. .. .	600	400	200	..	
14.— <i>Sales and Miscellaneous Revenue</i> .. .. .	750	350	400	..	
16.— <i>Fines and Miscellaneous Revenue</i> .. .. .	300	250	50	..	
17.— <i>Sales and Miscellaneous Revenue</i> .. .. .	115	150	..	35	
20.— <i>Sale of Statistical Publications and Miscellaneous Revenue</i> .. .. .	1,250	1,250	..	..	
21.— <i>Sales and Miscellaneous Revenue</i> .. .. .	600	750	..	150	
22.— <i>Sales and Miscellaneous Revenue</i> .. .. .	31,100	32,000	..	900	
23.— <i>Miscellaneous Revenue</i> .. .. .	400	400	..	..	
24.— <i>Air Navigational Services</i> .. .. .	38,534	18,750	19,784	..	
24.— <i>Air Transport Licences</i> .. .. .	400	400	..	..	
24.— <i>Aviation Fees</i> .. .. .	5,250	5,100	150	..	
24.— <i>Sale of Documents, etc.</i> .. .. .	659	801	..	142	
25.— <i>Sales, Air Navigational Charges, etc.</i> .. .. .	23,221	11,350	11,871	..	
28.— <i>Commission, Overtime and Miscellaneous Revenue</i> .. .. .	28,000	28,850	..	850	
29.— <i>Legal Costs Recovered and Miscellaneous Revenue</i> .. .. .	7,000	7,000	..	..	
TOTAL SUNDRY REVENUE .. .. . £	154,421	131,511	35,387	12,477	
NET INCREASE—£22,910					

17  
REVENUE

DETAILS	Estimates		Increase	Decrease	Notes
	1960/61	1959/60			
	£	£	£	£	
<b>(21) RENTS RECEIVED</b>					
1	OFFICE OF THE ADMINISTRATOR (GENERAL):				
	(1) Administrator .. .. .	1,029	901	128	..
	(2) Public Service Commission .. .. .	78	39	39	..
	(5) Medical Research Secretary .. .. .	138	138	..	..
2	OFFICE OF THE ADMINISTRATOR (LEGAL) ..	295	441	..	146
3	OFFICE OF THE ADMINISTRATOR (FINANCE, ECONOMIC CO-ORDINATION AND AC- COUNTS):				
	(1) Financial Secretary .. .. .	251	156	95	..
	(2) Economic Co-ordination .. .. .	363	252	111	..
	(3) E.A. Hides and Leather Bureau .. .. .	176	384	..	208
	(4) Accountant General .. .. .	938	947	..	9
5	EAST AFRICAN AGRICULTURE AND FORESTRY RESEARCH ORGANIZATION .. .. .	2,175	2,368	..	193
6	EAST AFRICAN FISHERY RESEARCH ORGANI- ZATION:				
	(1) Research .. .. .	333	392	..	59
7	EAST AFRICAN INDUSTRIAL RESEARCH OR- GANIZATION .. .. .	302	492	..	190
8	DESERT LOCUST SURVEY:				
	(1) Administrative Headquarters .. .. .	504	447	57	..
	(2) Locust Survey Teams .. .. .	921	1,011	..	90
9	EAST AFRICAN MARINE FISHERIES RESEARCH ORGANIZATION .. .. .	306	506	..	200
10	Lake Victoria Fisheries Service .. .. .	..	322	..	322
11	EAST AFRICAN LEPROSY RESEARCH CENTRE ..	180	180	..	..
12	EAST AFRICAN LITERATURE BUREAU .. .. .	918	541	377	..
13	EAST AFRICAN INSTITUTE OF MALARIA AND VECTOR-BORNE DISEASES .. .. .	1,500	1,395	105	..
14	EAST AFRICAN INSTITUTE FOR MEDICAL RE- SEARCH:				
	(1) Institute .. .. .	2,500	2,000	500	..
16	ROYAL EAST AFRICAN NAVY .. .. .	678	840	..	162
20	EAST AFRICAN STATISTICAL DEPARTMENT:				
	(1) Office of the Statistical Adviser .. .. .	336	1,553	184	..
	(2) E.A. Unit .. .. .	264			
	(3) Kenya Unit .. .. .	392			
	(4) Tanganyika Unit .. .. .	402			
	(5) Uganda Unit .. .. .	343			
21	EAST AFRICAN TRYPANOSOMIASIS RESEARCH ORGANIZATION .. .. .	1,464	1,450	14	..
22	EAST AFRICAN VETERINARY RESEARCH OR- GANIZATION .. .. .	2,180	2,033	147	..
23	EAST AFRICAN VIRUS RESEARCH INSTITUTE ..	1,500	1,669	..	169
24	EAST AFRICAN DIRECTORATE OF CIVIL AVIATION .. .. .	7,700	8,099	..	399
25	EAST AFRICAN METEOROLOGICAL DEPART- MENT:				
	(1) General .. .. .	3,646	2,840	806	..
	(2) Research Section .. .. .	120	37	83	..
	(3) Development .. .. .	384	348	36	..
	(4) Forecasting Research .. .. .	12	84	..	72
	(7) Supplementary Development .. .. .	250	..	250	..
<i>Carried forward</i> .. .. .		£ 32,578	31,865	2,932	2,219

18  
**REVENUE**

DETAILS		Estimates		Increase	Decrease	Notes
		1960/61	1959/60			
		£	£	£	£	
<b>(21) RENTS RECEIVED—(Contd.)</b>						
	<i>Brought forward</i> .. .. £	<b>32,578</b>	31,865	2,932	2,219	
28	EAST AFRICAN CUSTOMS AND EXCISE DEPARTMENT .. .. .	<b>10,602</b>	10,569	33	..	
29	EAST AFRICAN INCOME TAX DEPARTMENT:					
(1)	Income Tax .. .. .	<b>8,108</b>	9,898	..	1,790	
	<b>TOTAL RENTS</b> .. .. £	<b>51,288</b>	52,332	2,965	4,009	
NET DECREASE—£1,044						
<b>(22) HIGH COMMISSION FUND</b>						
3	(5) Office of the Administrator (Finance, Economic Co-ordination and Accounts) ..	<b>1</b>	1	..	..	
8	Desert Locust Survey .. .. .	<b>2,000</b>	..	2,000	..	
16	Royal East African Navy .. .. .	<b>1,500</b>	..	1,500	..	
20	East African Statistical Department .. ..	<b>63</b>	..	63	..	
21	East African Trypanosomiasis Research Organization .. .. .	<b>1,504</b>	..	1,504	..	
22	East African Veterinary Research Organization .. .. .	<b>450</b>	..	450	..	
24	East African Directorate of Civil Aviation ..	<b>44,839</b>	..	44,839	..	
25	East African Meteorological Department ..	<b>6,515</b>	..	6,515	..	
27	Miscellaneous Services .. .. .	<b>1</b>	1	..	..	
	<b>TOTAL HIGH COMMISSION FUND</b> .. .. £	<b>56,873</b>	2	56,871	..	
<b>(24) CONTRIBUTION FROM THE GOVERNMENT OF ADEN ON ACCOUNT OF—</b>						
29	East African Income Tax Department ..	<b>5,006</b>	8,062	..	3,056	
	<b>TOTAL GOVERNMENT OF ADEN</b> .. .. £	<b>5,006</b>	8,062	..	3,056	
<b>(28) CONTRIBUTION FROM THE BRITISH LEPROSY RELIEF ASSOCIATION ON ACCOUNT OF—</b>						
11	East African Leprosy Research Centre ..	<b>4,000</b>	4,000	..	..	
	<b>TOTAL B.L.R.A.</b> .. .. .	<b>4,000</b>	4,000	..	..	
<b>(29) LOAN FUND</b>						
27	Miscellaneous Services .. .. .	<b>7,775</b>	..	7,775	..	
28	East African Customs and Excise Department .. .. .	<b>600</b>	..	600	..	
	<b>TOTAL LOAN FUND</b> .. .. .	<b>8,375</b>	..	8,375	..	

## REVENUE

DETAILS	Estimates		Increase	Decrease	Notes
	1960/61	1959/60			
	£	£	£	£	
(30) CONTRIBUTION FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE ON ACCOUNT OF—					
22 E.A. Veterinary Research Organization ..	7,705	7,000	705	..	
TOTAL U.S. DEPARTMENT OF AGRICULTURE £	7,705	7,000	705	..	
(32) CONTRIBUTION FROM THE UNITED STATES DEPARTMENT OF HEALTH, EDUCATION AND WELFARE					
14 East African Institute for Medical Research	11,773	..	11,773	..	
TOTAL U.S. DEPARTMENT OF HEALTH ..£	11,773	..	11,773	..	

**EXPENDITURE ESTIMATES**

**1960/61**

## EXPENDITURE SUMMARY

Head No.	DETAILS	Estimates		Increase	Decrease	Notes
		1960/61	1959/60			
		£	£	£	£	
1	Office of the Administrator (General) ..	137,764	314,627	..	176,863	
2	Office of the Administrator (Legal) ..	28,167	..	28,167	..	
3	Office of the Administrator (Finance, Economic Co-ordination and Accounts) ..	175,936	..	175,936	..	
4	East Africa Central Legislative Assembly ..	15,620	13,650	1,970	..	
5	East African Agriculture and Forestry Research Organization .. .. .	167,269	164,535	2,734	..	
6	East African Fishery Research Organization ..	22,876	24,628	..	1,752	
7	East African Industrial Research Organization .. .. .	49,513	48,151	1,362	..	
8	Desert Locust Survey .. .. .	413,387	419,691	..	6,304	
9	East African Marine Fisheries Research Organization .. .. .	36,703	27,520	9,183	..	
10	Lake Victoria Fisheries Service .. .. .	4,911	31,782	..	26,871	
11	East African Leprosy Research Centre ..	10,179	11,179	..	1,000	
12	East African Literature Bureau .. .. .	42,486	36,828	5,658	..	
13	East African Institute of Malaria and Vector-borne Diseases .. .. .	45,020	42,769	2,251	..	
14	East African Institute for Medical Research ..	63,191	48,295	14,896	..	
16	Royal East African Navy .. .. .	94,638	89,180	5,458	..	
17	East African Office in London .. .. .	40,935	39,227	1,708	..	
20	East African Statistical Department ..	186,326	163,393	22,933	..	
21	East African Trypanosomiasis Research Organization .. .. .	112,582	112,745	..	163	
22	East African Veterinary Research Organization .. .. .	163,117	161,976	1,141	..	
23	East African Virus Research Institute ..	53,079	52,491	588	..	
24	East African Directorate of Civil Aviation ..	623,371	496,668	126,703	..	
25	East African Meteorological Department ..	419,903	299,438	120,465	..	
27	Miscellaneous Services .. .. .	105,899	97,128	8,771	..	
28	East African Customs and Excise Department ..	960,308	927,882	32,426	..	
29	East African Income Tax Department ..	774,012	763,043	10,969	..	
	TOTAL EAST AFRICA HIGH COMMISSION .. £	4,747,192	4,386,826	573,319	212,953	
	NET INCREASE—£360,366					



## EXPENDITURE

## HEAD 1—OFFICE OF THE ADMINISTRATOR (GENERAL)

I. ESTIMATE of the amount required for Division (1) Administrator, Division (2) Public Service Commission, Division (3) Office of the Commissioner for Transport, Division (4) Office of the East African Agricultural and Fisheries Research Council, Division (5) Medical Research Secretary, Division (6) Tuberculosis Investigation, Division (7) Maintenance Organization, in the year ending 30th June, 1961.

One hundred and thirty-seven thousand, seven hundred and sixty-four pounds.  
(£137,764)

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
			<b>(1) ADMINISTRATOR</b>	£	£	£	£	£	
			PERSONAL EMOLUMENTS						
1	1	1	*Administrator .. .. .	4,100	4,100	..	..	..	
2	1	1	*Chief Administrative Secretary .. ..	2,900	2,900	..	..	..	
3	1	1	*Chief Establishment Officer .. .. .	2,500	2,500	..	..	..	
4	1	1	Information Officer .. .. .	2,500	2,500	..	..	..	
5	1	1	*Principal Assistant Secretary .. .. .	2,300	2,300	..	..	..	
6	..	1	*Agricultural Research Secretary, £2,000 x 70-2,140 .. .. .	2,000	..	..	2,000	..	
7	5	4	*Assistant Secretaries, A .. .. .	7,235	8,973	..	..	1,738	a
8	1	1	*Senior Establishment Officer, B.1 .. ..	1,863	1,863	..	..	..	
9	2	3	*Establishment Officers, B.5-2 .. .. .	4,360	2,413	..	1,947	..	a
10	1	..	Clerk of Works (Fixed), £1,680 .. .. .	..	840	..	..	840	k
11	1	..	*Executive Officer (Buildings), C.4-3 ..	..	1,341	..	..	1,341	k
12	1	..	*Office Superintendent, C.4-3 .. .. .	..	1,341	..	..	1,341	
13	1	..	*Library Officer, C.5-4 .. .. .	..	996	..	..	996	
14	1	..	*Office Assistant, C.6-5 .. .. .	..	594	..	..	594	
15	..	1	*Senior Executive Officer, C.3-2 .. .. .	1,425	..	..	1,425	..	d
16	..	2	*Executive Officers, C.5-4 .. .. .	2,166	..	..	2,166	..	
17	1	3	*Junior Executive Officers, C.6-5 .. .. .	2,474	694	..	1,780	..	g
18	1	..	*Senior Cypher Officer, C.4-3 .. .. .	..	996	..	..	996	
19	4	..	*Cypher Officers, C.6-5 .. .. .	..	2,754	..	..	2,754	
20	1	1	*Photographer, C.4-3 .. .. .	1,341	1,300	..	41	..	
21	1	..	*Registry Assistant, C.6-5 .. .. .	..	858	..	..	858	g
22	1	1	Caretaker .. .. .	916	883	..	33	..	a
23	1	1	*Personal Secretary, Grade I .. .. .	894	850	..	44	..	a, c
24	8	7	*Personal Secretaries, Grade II .. .. .	5,880	6,425	..	..	545	a, c
25	2	3	*Secretary/Stenographers .. .. .	1,854	1,349	..	505	..	a
26	5	8	*Clerks, 7 E.4-1, 1 E.6-5 .. .. .	3,723	2,839	..	884	..	a
27	1	1	*Senior Telephonist, E.2-1 .. .. .	705	705	..	..	..	
28	2	2	*Telephonists, Grade II, 1 E.3-1, 1 E.4-3 ..	478	433	..	45	..	a
29	1	1	Dark Room Assistant, E.2-1 .. .. .	483	490	..	..	7	c
30	1	1	*Overseer Grade I, E.4-3 .. .. .	345	331	..	14	..	a
31	2	2	*Drivers, E.6-5 .. .. .	428	443	..	..	15	c
32	7	6	Office Messengers, S.S. .. .. .	548	598	..	..	50	
33	12	11	Subordinate Staff .. .. .	820	845	..	..	25	
34	..	..	Personal Allowances .. .. .	927	476	..	451	..	
35	..	..	Leave Pay .. .. .	3,107	6,278	..	..	3,171	
36	..	..	Gratuities .. .. .	2,062	1,952	..	110	..	
37	..	..	Temporary Clerical Assistance .. .. .	500	950	..	..	450	
69	65		Total Personal Emoluments .. .. .	£ 60,834	65,110	63,317	11,445	15,721	

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 1—OFFICE OF THE ADMINISTRATOR (GENERAL)—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	3,000	3,000	2,963	..	..	
3	..	..	Incidental Expenses .. .. .	450	350	289	100	..	
4	..	..	Staff Housing and Allowances .. .. .	10,579	8,606	9,218	1,973	..	
5	..	..	Common Services .. .. .	22,105	17,051	19,503	5,054	..	l
6	..	..	Equipment and Supplies .. .. .	350	350	339	..	..	
8	..	..	Maintenance of M/V and Boats .. .. .	200	300	231	..	100	
9	..	..	Maintenance of Plant and Equipment .. .. .	125	75	83	50	..	
10	..	..	Essential Services .. .. .	151	550	279	..	399	
11	..	..	Hospital Contributions and A.O.F.P.F. .. .. .	104	110	99	..	6	
12	..	..	Library .. .. .	60	30	98	30	..	q
13	..	..	Expenses of Conferences .. .. .	750	70	38	680	..	
18	..	..	Rents .. .. .	2,453	2,010	2,278	443	..	
21	..	..	Publications .. .. .	500	500	680	..	..	
29	..	..	Posts and Telegraphs Services .. .. .	4,500	4,500	4,352	..	..	
30	..	..	Printing and Stationery .. .. .	1,745	1,650	1,772	95	..	
32	..	..	Exhibitions .. .. .	2,500	2,000	1,983	500	..	
37	..	..	Entertainment Allowances .. .. .	150	150	8	..	..	
38	..	..	Cypher Services .. .. .	790	..	..	790	..	
			<i>Items not repeated</i> .. .. .	..	..	5	..	..	
			Total Annually Recurrent .. .. .£	50,512	41,302	44,218	9,715	505	
			Total Personal Emoluments .. .. .£	60,834	65,110	63,317	11,445	15,721	
			Total Recurrent .. .. .£	111,346	106,412	107,535	21,160	16,226	
			NET INCREASE—£4,934						
			(51) SPECIAL EXPENDITURE						
4	..	..	Office Equipment, Furniture, Typewriters .. .. .	218	107	299	111	..	
5	..	..	Photographic Equipment .. .. .	200	100	244	100	..	
6	..	..	Official Car for Administrator .. .. .	1,282	..	..	1,282	..	
7	..	..	Dictating Machines .. .. .	188	..	..	188	..	
			Total (51) Special Expenditure .. .. .£	1,888	207	543	1,681	..	
			NET INCREASE—£1,681						
			(58) SPECIAL EXPENDITURE						
1	..	..	Contribution to Pension Fund .. .. .	699	..	..	699	..	
			Total (58) Special Expenditure .. .. .£	699	..	..	699	..	
			TOTAL (1) ADMINISTRATOR .. .. .£	113,933	106,619	108,078	23,540	16,226	
			NET INCREASE—£7,314						

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 1—OFFICE OF THE ADMINISTRATOR (GENERAL)—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			<b>(2) PUBLIC SERVICE COMMISSION</b>						
			PERSONAL EMOLUMENTS						
1	1	1	Chairman .. .. .	600	600	..	..	..	
2	1	1	*Secretary, B.5-2 .. .. .	1,518	1,470	..	48	..	a
3	1	1	*Personal Secretary, Grade II .. .. .	758	736	..	22	..	a
4	1	1	*Clerk, E(W)2-1 .. .. .	587	566	..	21	..	a
5	1	1	Messenger, S.S. .. .. .	70	65	..	5	..	a
6	..	..	Gratuities .. .. .	135	127	..	8	..	
7	..	..	Leave Pay .. .. .	570	..	..	570	..	
	5	5	Total Personal Emoluments .. .. £	4,238	3,564	3,258			
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	575	500	548	75	..	
3	..	..	Incidental Expenses .. .. .	50	30	37	20	..	
4	..	..	Staff Housing and Allowances .. .. .	515	260	466	255	..	
5	..	..	Common Services .. .. .	706	1,167	486	..	461	l
10	..	..	Essential Services .. .. .	32	20	32	12	..	e
18	..	..	Rents .. .. .	211	198	201	13	..	
29	..	..	Posts and Telegraphs Services .. .. .	100	100	97	..	..	
30	..	..	Printing and Stationery .. .. .	200	200	106	..	..	
			Total Annually Recurrent .. .. £	2,389	2,475	1,973			
			(52) SPECIAL EXPENDITURE						
1	..	..	Office Equipment .. .. .	50	..	25	50	..	
			Total Special Expenditure .. .. £	50	..	25			
			TOTAL (2) PUBLIC SERVICE COMMISSION £	6,677	6,039	5,256	1,099	461	
			NET INCREASE—£638						

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 1—OFFICE OF THE ADMINISTRATOR (GENERAL)—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			<b>(3) OFFICE OF THE COMMISSIONER FOR TRANSPORT</b>						
			PERSONAL EMOLUMENTS						
1	1	1	Operations Officer (Chief Inspector of Accidents), C.1 .. .. .	1	1,769	..	..	1,768	
	1	1	Total Personal Emoluments .. .. £	1	1,769	1,553			
			<i>Other Charges Annually Recurrent</i>						
4	..	..	Staff Housing and Allowances .. ..	..	404	357	..	404	
5	..	..	Common Services .. .. .	..	457	..	..	457	
			Total Annually Recurrent .. .. £	..	861	357			
			TOTAL (3) OFFICE OF THE COMMISSIONER FOR TRANSPORT .. .. . £	1	2,630	1,910	..	2,629	
			NET DECREASE—£2,629						
			<b>(4) OFFICE OF THE E.A. AGRICULTURAL AND FISHERIES RESEARCH COUNCIL</b>						
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	400	400	282	..	..	
3	..	..	Incidental Expenses .. .. .	8	10	3	..	2	
13	..	..	Expenses of Conferences .. .. .	400	600	371	..	200	
21	..	..	Publications .. .. .	150	1,150	365	..	1,000	
23	..	..	Expenses of Visiting Scientists .. ..	..	1	..	..	1	
30	..	..	Printing and Stationery .. .. .	50	50	5	..	..	
			Total Annually Recurrent .. .. £	1,008	2,211	1,026	..	1,203	
			(54) SPECIAL EXPENDITURE Scheme 1959/64						
1	..	..	Typewriter .. .. . £	35	..	..	35	..	
			Total Special Expenditure .. £35	35	..	..	35	..	
			TOTAL (4) OFFICE OF THE E.A. AGRICULTURAL AND FISHERIES RESEARCH COUNCIL .. .. . £	1,043	2,211	1,026	35	1,203	
			NET DECREASE—£1,168						

For explanation of notes other than x, see inside front cover.

27  
EXPENDITURE

HEAD 1—OFFICE OF THE ADMINISTRATOR—(GENERAL)—(Contd.)

II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
<b>(5) MEDICAL RESEARCH SECRETARY</b>									
PERSONAL EMOLUMENTS									
1	1	1	Medical Research Secretary .. .. .	2,400	2,400	..	..	..	
2	1	1	*Personal Secretary Grade II .. .. .	858	858	..	..	..	
3	1	1	Office Messenger S.S. .. .. .	94	90	..	4	..	a
4	..	..	Leave Pay .. .. .	300	800	..	..	500	
5	..	..	Personal Allowances .. .. .	60	60	..	..	..	
	3	3	Total Personal Emoluments .. .. £	3,712	4,208	3,404			
OTHER CHARGES ANNUALLY RECURRENT									
2	..	..	Transport and Travelling .. .. .	400	450	377	..	50	
3	..	..	Incidental Expenses .. .. .	50	50	38	..	..	
4	..	..	Staff Housing and Allowances .. .. .	102	102	17	..	..	
5	..	..	Common Services .. .. .	406	963	204	..	557	l
7	..	..	Maintenance of Buildings and Estate .. .. .	50	50	13	..	..	
12	..	..	Library .. .. .	20	20	12	..	..	
13	..	..	Expenses of Conferences .. .. .	1,050	1,050	849	..	..	
29	..	..	Posts and Telegraphs Services .. .. .	120	120	49	..	..	
30	..	..	Printing and Stationery .. .. .	200	200	186	..	..	
			Total Annually Recurrent .. .. £	2,398	3,005	1,745			
			TOTAL (5) MEDICAL RESEARCH SECRETARY .. .. . £	6,110	7,213	5,149	4	1,107	
NET DECREASE—£1,103									
<b>(6) TUBERCULOSIS INVESTIGATION</b>									
OTHER CHARGES									
40	..	..	Annually Recurrent .. .. .	10,000	3,500	5,200	6,500	..	w
			TOTAL (6) TUBERCULOSIS INVESTIGATION £	10,000	3,500	5,200	6,500	..	
NET INCREASE—£6,500									

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 1—OFFICE OF THE ADMINISTRATOR (GENERAL)—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(7) Maintenance Organization						
			Personal Emoluments						
1	1	..	Clerk of Works (£1,680 fixed) .. ..	..	840	..	..	840	
2	1	..	Driver, E.6-5 .. .. ..	..	120	..	..	120	
3	..	..	Labour .. .. ..	..	700	..	..	700	
	2	..	Total Personal Emoluments .. .. £	..	1,660	3,154			
			Other Charges Annually Recurrent						
2	..	..	Transport and Travelling .. .. ..	..	200	287	..	200	
3	..	..	Incidental Expenses .. .. ..	..	10	23	..	10	
5	..	..	Common Services .. .. ..	..	10	..	..	10	
6	..	..	Equipment and Supplies .. .. ..	..	1,000	2,701	..	1,000	
8	..	..	Maintenance of Motor Vehicles .. ..	..	100	78	..	100	
			Total Annually Recurrent .. .. £	..	1 320	3,089			
			Total (7) Maintenance Organization £	..	2,980	6,243	..	2,980	
			NET DECREASE—£2,980						
			TOTAL (1) ADMINISTRATOR .. .. £	113,933	106,619	108,078	23,540	16,226	
			TOTAL (2) PUBLIC SERVICE COMMISSION £	6,677	6,039	5,256	1,099	461	
			TOTAL (3) OFFICE OF THE COMMISSIONER FOR TRANSPORT .. .. .. £	1	2,630	1,910	..	2,629	
			TOTAL (4) OFFICE OF THE E.A. AGRICULTURAL AND FISHERIES RESEARCH COUNCIL .. .. .. £	1,043	2,211	1,026	35	1,203	
			TOTAL (5) MEDICAL RESEARCH SECRETARY .. .. .. .. £	6,110	7,213	5,149	4	1,107	
			TOTAL (6) TUBERCULOSIS INVESTIGATION £	10,000	3,500	5,200	6,500	..	w
			TOTAL (7) MAINTENANCE ORGANIZATION .. .. .. .. £	..	2,980	6,243	..	2,980	
			TOTAL OFFICE OF THE ADMINISTRATOR (GENERAL) .. .. .. £	137,764	131,192	132,862	31,178	24,606	
			NET INCREASE—£6,572						

For explanation of notes other than x, see inside front cover.

## HEAD 1—OFFICE OF THE ADMINISTRATOR (GENERAL)

The Revenue is provided as follows:—

### (1) Administrator

	£	£
Special Expenditure (51) .. .. .		1,888
Kenya .. .. . 1/3rd .. .. .	629	
Tanganyika .. .. . 1/3rd .. .. .	630	
Uganda .. .. . 1/3rd .. .. .	629	
	—	1,888
Special Expenditure (58) .. .. .		699
Kenya .. .. . 64% .. .. .	447	
Tanganyika .. .. . 18% .. .. .	126	
Uganda .. .. . 18% .. .. .	126	
	—	699
 Total Recurrent .. .. .		 111,346
<i>Less—</i>		
Sales and Miscellaneous Revenue .. .. .	1,500	
Rents received .. .. .	1,029	
Zanzibar (Fixed) .. .. .	750	
Seychelles (Fixed) .. .. .	100	
	—	3,379
		107,967
 Balance divided—		
Kenya .. .. . 1/3rd .. .. .	35,989	
Tanganyika .. .. . 1/3rd .. .. .	35,989	
Uganda .. .. . 1/3rd .. .. .	35,989	
	—	107,967

### (2) Public Service Commission

	£	£
Total Cost .. .. .		6,677
<i>Less—</i> Rents received .. .. .		78
		6,599
 Divided—		
Kenya .. .. . 1/3rd .. .. .	2,200	
Tanganyika .. .. . 1/3rd .. .. .	2,200	
Uganda .. .. . 1/3rd .. .. .	2,199	
	—	6,599

### (3) Office of the Commissioner for Transport

Reimbursement—Head 24 .. .. .		1
		—

**(4) Office of the East African Agricultural and Fisheries Research Council**

	£	£	£
Special Expenditure .. .. .			35
Her Majesty's Government 75%		26	
East African Governments 25%	9		
Divided—			
Kenya .. .. .	3		
Tanganyika .. .. .	3		
Uganda .. .. .	3		
	—	9	
		—	35
Recurrent .. .. .			1,008
Her Majesty's Government 30%		302	
East African Governments 70%	706		
Divided—			
Kenya .. .. . 32·8%	232		
Tanganyika .. .. . 32·8%	232		
Uganda .. .. . 31·0%	218		
Zanzibar .. .. . 3·4%	24		
	—	706	
		—	1,008

**(5) Medical Research Secretary**

Total Cost .. .. .			6,110
Less—Rents received .. .. .			138
			5,972
Her Majesty's Government 30%		1,791	
East African Governments 70%	4,181		
Divided—			
Kenya .. .. . 1/3rd .. .. .	1,393		
Tanganyika .. .. . 1/3rd .. .. .	1,394		
Uganda .. .. . 1/3rd .. .. .	1,394		
	—	4,181	
		—	5,972

**(6) Tuberculosis Investigation**

Total Cost .. .. .			10,000
Her Majesty's Government 50%		5,000	
East African Governments 50%	5,000		
Divided—		£	£
Kenya .. .. . 1/3rd .. .. .	1,667		
Tanganyika .. .. . 1/3rd .. .. .	1,667		
Uganda .. .. . 1/3rd .. .. .	1,666		
	—	5,000	
		—	10,000

**Summary**

Her Majesty's Government .. .. .	7,119
Kenya .. .. .	42,560
Tanganyika .. .. .	42,241
Uganda .. .. .	42,224
Zanzibar .. .. .	774
Seychelles .. .. .	100
Sales and Miscellaneous Revenue .. .. .	1,500
Rents received .. .. .	1,245
Reimbursements .. .. .	1
Total .. .. .	<u>£137,764</u>



## EXPENDITURE

## HEAD 2—OFFICE OF THE ADMINISTRATOR (LEGAL)

I. ESTIMATE of the amount required for Legal Secretary's Office in the year ending 30th June, 1961.

**Twenty-eight thousand, one hundred and sixty-seven pounds.**  
**(£28,167)**

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
			<b>LEGAL SECRETARY</b>	£	£	£	£	£	
<b>1</b>			PERSONAL EMOLUMENTS						
1	1	1	*Legal Secretary .. .. .	3,200	3,200	..	..	..	
2	1	1	*Deputy Legal Secretary .. .. .	2,500	2,500	..	..	..	
3	2	2	*Senior Assistant Legal Secretaries, £2,300	4,600	4,600	..	..	..	
4	1	1	*Assistant Legal Secretary, A .. .. .	1,863	1,863	..	..	..	
5	..	1	*Legal Assistant, B.5-2 .. .. .	789	..	..	789	..	
6	1	1	*Personal Secretary Grade I .. .. .	996	993	..	3	..	<i>a</i>
7	1	1	*Personal Secretary Grade II .. .. .	765	858	..	..	93	<i>c</i>
8	1	1	*Secretary/Stenographer .. .. .	1	..	..	1	..	<i>f</i>
9	2	1	*Office Assistant, C.6-5 .. .. .	592	1,433	..	..	841	
10	1	1	Office Messenger, S.S. .. .. .	76	76	..	..	..	
11	..	..	Personal Allowances .. .. .	390	390	..	..	..	
12	..	..	Gratuities .. .. .	1,188	100	..	1,088	..	
13	..	..	Temporary Clerical Assistance .. .. .	335	..	..	335	..	
	<b>11</b>	<b>11</b>	Total Personal Emoluments .. .. £	<b>17,295</b>	<b>16,013</b>	<b>14,260</b>			
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	875	875	714	..	..	
3	..	..	Incidental Expenses .. .. .	100	75	139	25	..	
4	..	..	Staff Housing and Allowances .. .. .	2,797	2,355	2,059	442	..	
5	..	..	Common Services .. .. .	6,193	6,510	8,432	..	317	<i>l</i>
10	..	..	Essential Services .. .. .	30	..	..	30	..	
11	..	..	Hospital Contributions and A.O.F.P.F. ..	47	52	31	..	5	
12	..	..	Library .. .. .	150	150	122	..	..	
18	..	..	Rents .. .. .	530	510	488	20	..	
20	..	..	Fees, Rewards and Contributions .. .. .	50	75	101	..	25	
30	..	..	Printing and Stationery .. .. .	75	75	83	..	..	
			Total Annually Recurrent .. .. £	<b>10,847</b>	<b>10,677</b>	<b>12,169</b>			
			(51) SPECIAL EXPENDITURE						
1	..	..	Office Equipment and Furniture .. ..	25	25	199	..	..	
			Total (51) Special Expenditure .. .. £	<b>25</b>	<b>25</b>	<b>199</b>			
			TOTAL OFFICE OF THE ADMINISTRATOR (LEGAL) .. .. . £	<b>28,167</b>	<b>26,715</b>	<b>26,628</b>	<b>2,733</b>	<b>1,281</b>	
			NET INCREASE—£1,452						

For explanation of notes other than x, see inside front cover.

## HEAD 2—OFFICE OF THE ADMINISTRATOR (LEGAL)

The Revenue is provided as follows:—

	£	£
Total Cost . . . . .		28,167
Less—Rents received . . . . .		295
		<hr/> 27,872
Contributions by—		
East African Railways and Harbours Administration 1/6th . .	4,645	
East African Posts and Telecommunications Administration 1/10th . . . . .	2,787	
	<hr/>	7,432
		<hr/> 20,440
Balance divided—		
Kenya . . . . . 1/3rd . . . . .	6,814	
Tanganyika . . . . . 1/3rd . . . . .	6,813	
Uganda . . . . . 1/3rd . . . . .	6,813	
	<hr/>	20,440
		<hr/>

## EXPENDITURE

## HEAD 3—OFFICE OF THE ADMINISTRATOR (FINANCE, ECONOMIC CO-ORDINATION AND ACCOUNTS)

I. ESTIMATE of the amount required for Division (1) Financial Secretary, Division (2) Economic Co-ordination, Division (3) East African Hides and Leather Bureau, Division (4) Accountant General, Division (5) East African Airways Corporation, in the year ending 30th June, 1961.

One hundred and seventy-five thousand, nine hundred and thirty-six pounds.  
(£175,936)

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(1) FINANCIAL SECRETARY						
			PERSONAL EMOLUMENTS						
1	1	1	*Financial Secretary .. .. .	3,100	3,100	..	..	..	
2	1	1	*Principal Assistant Secretary .. .. .	2,300	2,300	..	..	..	
3	..	1	*Assistant Secretary, A .. .. .	1,863	..	..	1,863	..	
4	1	..	*Senior Accountant, B.1 .. .. .	..	1,838	..	..	1,838	
5	..	1	*Organization and Methods Officer, B.1 .. .. .	1,863	..	..	1,863	..	
6	1	1	*Personal Secretary Grade I .. .. .	996	996	..	..	..	
7	1	1	*Personal Secretary Grade II .. .. .	810	879	..	..	69	c
8	1	2	*Executive Officers Grade II, C.5-4 .. .. .	1,302	825	..	477	..	
9	..	1	*Clerk, E.4-1 .. .. .	387	..	..	387	..	
10	2	2	Office Messengers, S.S. .. .. .	216	201	..	15	..	a
11	..	..	Gratuities .. .. .	181	288	..	..	107	
12	..	..	Personal Allowances .. .. .	207	184	..	23	..	
	8	11	Total Personal Emoluments .. .. .£	13,225	10,611	11,551			
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	500	300	521	200	..	
3	..	..	Incidental Expenses .. .. .	175	150	201	25	..	
4	..	..	Staff Housing and Allowances .. .. .	2,770	1,962	1,742	808	..	
5	..	..	Common Services .. .. .	4,882	4,817	3,327	65	..	l
11	..	..	Hospital Contributions and A.O.F.P.F. .. .. .	59	37	16	22	..	
12	..	..	Library .. .. .	60	..	..	60	..	
13	..	..	Expenses of Conferences .. .. .	50	50	125	..	..	
18	..	..	Rents .. .. .	400	312	320	88	..	
29	..	..	Posts and Telegraphs Services .. .. .	150	200	88	..	50	
30	..	..	Printing and Stationery .. .. .	175	175	61	..	..	
			Total Annually Recurrent .. .. .£	9,221	8,003	6,401			
			(51) SPECIAL EXPENDITURE						
1	..	..	Typewriter .. .. .	45	..	..	45	..	
2	..	..	Furniture .. .. .	75	..	..	75	..	
			Total (51) Special Expenditure .. .. .£	120	..	..			
			TOTAL (1) FINANCIAL SECRETARY .. .. .£	22,566	18,614	17,952	6,016	2,064	
			NET INCREASE—£3,952						

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 3—OFFICE OF THE ADMINISTRATOR (FINANCE, ECONOMIC CO-ORDINATION AND ACCOUNTS)—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(2) DEPARTMENT OF ECONOMIC CO-ORDINATION						
			PERSONAL EMOLUMENTS						
			<i>Directorate</i>						
1	1	1	*Director .. .. .	1	1,875	..	..	1,874	
2	..	..	Acting Allowance .. .. .	34	..	..	34	..	
			<i>Commercial and General Section</i>						
3	1	1	*Deputy Director £2,000 x 70—2,140 ..	1,515	1	..	1,514	..	x
4	..	..	Duty Allowance .. .. .	160	..	..	160	..	
5	1	..	Senior Economic Officer .. .. .	..	..	..	..	..	
6	3	..	*Economic Officers, B.3-1 .. .. .	..	6,662	..	..	6,662	
7	..	1	*Senior Commercial Officer, B.1 .. .. .	1,848	..	..	1,848	..	
8	..	1	*Commercial Officer, B.3-1 .. .. .	1,518	..	..	1,518	..	
9	..	1	*Executive Officer Grade I, C.4-3 .. .. .	924	..	..	924	..	
10	1	1	*Accountant, B.4-2 .. .. .	1,172	1,327	..	..	155	c
11	2	1	*Personal Secretary Grade II .. .. .	615	1,379	..	..	764	
12	1	1	*Secretary/Stenographer .. .. .	780	678	..	102	..	p
13	1	1	*Pool Stenographer, E.3-2 .. .. .	660	600	..	60	..	
14	2	2	*Clerks, 1 E.4-1, 1 E.6-5 .. .. .	411	898	..	..	487	
15	2	2	Office Messengers, S.S. .. .. .	220	204	..	16	..	a
16	..	..	Gratuities .. .. .	62	132	..	..	70	
17	..	..	Personal Allowances .. .. .	..	136	..	..	136	
			<i>Economic Section</i>						
18	..	1	Principal Economic Officer .. .. .	2,300	..	..	2,300	..	
19	..	1	*Economic Officer, B.3-1 .. .. .	1,790	..	..	1,790	..	
20	..	1	*Personal Secretary Grade II .. .. .	765	..	..	765	..	
			<i>East African Representation Overseas</i>						
21	..	..	East African representative .. .. .	2,500	..	..	2,500	..	
22	..	..	Personal Allowance .. .. .	1	..	..	1	..	
	15	16	Total Personal Emoluments .. .. .	17,276	13,892	10,540	13,532	10,148	

x. Part cost provided from Division (3).

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

HEAD 3—OFFICE OF THE ADMINISTRATOR (FINANCE, ECONOMIC  
CO-ORDINATION AND ACCOUNTS)—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			<b>OTHER CHARGES ANNUALLY RECURRENT</b>						
2	..	..	Transport and Travelling .. .. .	850	750	636	100	..	
3	..	..	Incidental Expenses .. .. .	250	250	200	..	..	
4	..	..	Staff Housing and Allowances .. .. .	2,281	1,756	1,025	525	..	
5	..	..	Common Services .. .. .	5,444	5,245	4,657	199	..	l
6	..	..	Equipment and Supplies .. .. .	50	..	..	50	..	
11	..	..	Hospital Contributions and A.O.F.P.F. ..	16	15	6	1	..	
13	..	..	Expenses of Conferences .. .. .	300	1,000	1,171	..	700	
18	..	..	Rents .. .. .	955	955	920	..	..	
21	..	..	Publications .. .. .	300	300	412	..	..	
29	..	..	Posts and Telegraphs Services .. .. .	900	1,000	841	..	100	
30	..	..	Printing and Stationery .. .. .	270	250	346	20	..	
31	..	..	Office Expenses of the E.A. representative	15,000	..	..	15,000	..	
			<i>Items not repeated</i> .. .. .	..	..	984	..	..	
			Total Annually Recurrent .. .. .	£ 26,616	11,521	11,198	15,895	800	
			Total Recurrent .. .. .	£ 43,892	25,413	21,738	29,427	10,948	
			(52) SPECIAL EXPENDITURE						
1	..	..	Calculating Machine .. .. .	200	..	..	200	..	
			Total (52) Special Expenditure .. .. .	£ 200	..	..	200	..	
			Total Recurrent .. .. .	£ 43,892	25,413	21,738	29,427	10,948	
			TOTAL (2) DEPARTMENT OF ECONOMIC CO-ORDINATION .. .. .	£ 44,092	25,413	21,738	29,627	10,948	
			NET INCREASE—£18,679						
			<b>(3) EAST AFRICAN HIDES AND LEATHER BUREAU</b>						
			PERSONAL EMOLUMENTS						
1	1	1	*Officer in Charge .. .. .	625	625	..	..	..	
2	..	1	*Commercial Officer, B.3-1 .. .. .	1,566	..	..	1,566	..	
3	1	1	*Senior Hide Examiner, C.2 .. .. .	1,566	1,566	..	..	..	
4	4	2	*Hides Examiners, C.5-3 .. .. .	2,682	5,364	..	..	2,682	2k
5	1	..	*Leather Technologist, C.5-2 .. .. .	..	1,518	..	..	1,518	1k
6	1	1	*Personal Secretary Grade II .. .. .	205	200	..	5	..	a
7	1	1	*Secretary/Stenographer .. .. .	732	732	..	..	..	
8	1	..	*Assistant Hide Inspector, E.4-3 .. .. .	..	222	..	..	222	k
9	1	1	*Clerk, E.4-1 .. .. .	208	193	..	15	..	a
10	..	..	Labour, S.S. .. .. .	50	75	..	..	25	
11	1	1	Office Messenger, S.S. .. .. .	79	75	..	4	..	a
12	..	..	Leave Pay .. .. .	112	..	..	112	..	
13	..	..	Gratuities .. .. .	469	456	..	13	..	
	12	9	Total Personal Emoluments .. .. .	£ 8,294	11,026	13,255			

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 3—OFFICE OF THE ADMINISTRATOR (FINANCE, ECONOMIC CO-ORDINATION AND ACCOUNTS)—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	1,000	1,500	1,628	..	500	
3	..	..	Incidental Expenses .. .. .	75	80	58	..	5	
4	..	..	Staff Housing and Allowances .. .. .	1,215	1,149	1,436	66	..	
5	..	..	Common Services .. .. .	4,231	4,230	4,382	1	..	l
6	..	..	Equipment and Supplies .. .. .	50	100	100	..	50	
7	..	..	Maintenance of Buildings and Estate .. .. .	250	250	409	..	..	
9	..	..	Maintenance of Plant and Equipment .. .. .	50	50	47	..	..	
10	..	..	Essential Services .. .. .	80	80	99	..	..	
11	..	..	Hospital Contributions and A.O.F.P.F. .. .. .	12	17	5	..	5	
12	..	..	Library .. .. .	25	25	5	..	..	
13	..	..	Expenses of Conferences .. .. .	210	210	51	..	..	
14	..	..	Uniforms .. .. .	20	20	30	..	..	
18	..	..	Rents .. .. .	850	865	619	..	15	
21	..	..	Publications .. .. .	100	100	109	..	..	
29	..	..	Posts and Telegraphs Services .. .. .	375	450	545	..	75	
30	..	..	Printing and Stationery .. .. .	300	400	441	..	100	
			Total Annually Recurrent .. .. .£	8,843	9,526	9,964			
			TOTAL (3) EAST AFRICAN HIDES AND LEATHER BUREAU .. .. .£	17,137	20,552	23,219	1,782	5,197	
			NET DECREASE—£3,415						
			(4) ACCOUNTANT GENERAL						
1			PERSONAL EMOLUMENTS						
1	1	1	*Accountant General .. .. .	2,300	2,300	..	..	..	
2	1	1	*Assistant Accountant General, £2,000 x 70 —2,140 .. .. .	2,140	2,140	..	..	..	
3	2	2	*Senior Accountants, B.1 .. .. .	3,695	3,695	..	..	..	
4	8	8	*Accountants, B.4-2 .. .. .	11,252	11,216	..	36	..	a
5	1	1	*Stores and Purchasing Officer, B.3-2 .. .. .	1,506	1,458	..	48	..	a, g
6	..	2	Accounts Officers, Grade I, C4-3 .. .. .	1,992	..	..	1,992	..	w, n
7	8	7	*Accounts Officers Grade II, 6 C.4, 1 C(W)4 .. .. .	6,047	7,123	..	..	1,076	
8	17	16	*Accounting Assistants, 14 C.6-5, 2 C(W)6-5 .. .. .	10,722	11,220	..	..	498	1k
9	2	2	*Personal Secretaries Grade II .. .. .	1,554	1,527	..	27	..	a
10	3	3	*Secretary/Stenographers .. .. .	2,094	1,922	..	172	..	a, 1c
11	1	1	*Registry Assistant, C.6-5 .. .. .	723	649	..	74	..	c
12	24	23	*Clerks, 20 E.4-1, 3 E.6-5 .. .. .	10,723	11,050	..	..	327	a, 1k
13	4	4	Messengers, S.S. .. .. .	336	314	..	22	..	a
14	..	..	Personal Allowances .. .. .	83	89	..	..	6	
15	..	..	Gratuities .. .. .	922	930	..	..	8	
	72	71	Total Personal Emoluments .. .. .£	56,089	55,633	54,290			

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 3—OFFICE OF THE ADMINISTRATOR (FINANCE, ECONOMIC CO-ORDINATION AND ACCOUNTS)—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	1,100	1,150	1,000	..	50	o
3	..	..	Incidental Expenses .. .. .	250	200	249	50	..	..
4	..	..	Staff Housing and Allowances .. .. .	11,560	12,600	11,514	..	1,040	o
5	..	..	Common Services .. .. .	18,739	18,108	17,202	631	..	l
6	..	..	Equipment and Supplies .. .. .	100	100	88	..	..	..
9	..	..	Maintenance of Plant and Equipment .. .. .	200	200	166	..	..	..
10	..	..	Essential Services .. .. .	110	80	109	30	..	q
11	..	..	Hospital Contributions and A.O.F.P.F. .. .. .	695	673	610	22	..	..
15	..	..	Training Courses .. .. .	..	..	100	..	..	..
18	..	..	Rents .. .. .	1,346	1,346	1,379	..	..	..
29	..	..	Posts and Telegraphs Services .. .. .	1,151	1,250	1,154	..	99	o
30	..	..	Printing and Stationery .. .. .	800	800	793	..	..	..
			Total Annually Recurrent .. .. .	36,051	36,507	34,364			
			Total Recurrent .. .. .	92,140	92,140	88,654			
			(54) Special Expenditure						
2	..	..	Equipment .. .. .	..	..	399			
			Total Special Expenditure .. .. .	..	..	399			
			TOTAL (4) ACCOUNTANT GENERAL .. .. .	92,140	92,140	89,053	3,104	3,104	
			(5) EAST AFRICAN AIRWAYS CORPORATION						
1	..	..	Contingencies .. .. .	1	1	..	..	..	
			TOTAL (5) EAST AFRICAN AIRWAYS CORPORATION .. .. .	1	1	..	..	..	
			TOTAL (1) FINANCIAL SECRETARY .. .. .	22,566	18,614	17,952	6,016	2,064	
			TOTAL (2) DEPARTMENT OF ECONOMIC CO-ORDINATION .. .. .	44,092	25,413	21,738	29,627	10,948	
			TOTAL (3) EAST AFRICAN HIDES AND LEATHER BUREAU .. .. .	17,137	20,552	23,219	1,782	5,197	
			TOTAL (4) ACCOUNTANT GENERAL .. .. .	92,140	92,140	89,053	3,104	3,104	
			TOTAL OFFICE OF THE ADMINISTRATOR (FINANCE, ECONOMIC CO-ORDINATION AND ACCOUNTS) .. .. .	175,936	156,720	151,962	40,529	21,313	
			NET INCREASE—£19,216						

For explanation of notes other than x, see inside front cover.

**HEAD 3—OFFICE OF THE ADMINISTRATOR (FINANCE, ECONOMIC  
CO-ORDINATION AND ACCOUNTS)**

The Revenue is provided as follows:—

		£	£
<b>(1) Financial Secretary</b>			
Total Cost .. .. .			22,566
<i>Less—</i>			
Rents received .. .. .		251	
Miscellaneous Revenue .. .. .		75	
		—	326
			<hr/> 22,240
Kenya .. .. . 1/3rd .. .. .		7,414	
Tanganyika .. .. . 1/3rd .. .. .		7,413	
Uganda .. .. . 1/3rd .. .. .		7,413	
		—	<hr/> 22,240
 <b>(2) Department of Economic Co-ordination</b>			
Total Cost .. .. .			44,092
<i>Less—</i>			
E.A. Representative Overseas .. .. .		17,501	
<i>Divided—</i>			
Kenya .. .. . 1/3rd .. .. .		5,834	
Tanganyika .. .. . 1/3rd .. .. .		5,834	
Uganda .. .. . 1/3rd .. .. .		5,833	
		—	17,501
			<hr/> 26,591
<i>Less—</i>			
Kenya—Jute Control .. .. .		4,520	
Wheat Importation Fees .. .. .		2,500	
Rents received .. .. .		363	
Sales .. .. .		200	
		—	7,583
			<hr/> 19,008
<i>Balance divided—</i>			
Kenya 8/25ths .. .. .		6,083	
Tanganyika 8/25ths .. .. .		6,082	
Uganda 8/25ths .. .. .		6,083	
Zanzibar 1/25th .. .. .		760	
		—	19,008
			<hr/>
 <b>(3) E.A. Hides and Leather Bureau</b>			
Total Cost .. .. .			17,137
<i>Less—</i> Rents received .. .. .			176
			<hr/> 16,961
<i>Balance divided—</i>			
Kenya 36.5% .. .. .		6,191	
Tanganyika 41.6% .. .. .		7,056	
Uganda 21.9% .. .. .		3,714	
		—	16,961
			<hr/>





40  
EXPENDITURE

**HEAD 4—EAST AFRICA CENTRAL LEGISLATIVE ASSEMBLY**

I. ESTIMATE of the amount required in the year ending 30th June, 1961.

**Fifteen thousand, six hundred and twenty pounds.  
(£15,620)**

II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
<b>1</b>			<b>PERSONAL EMOLUMENTS</b>						
1	..	..	Speaker's Salary .. .. .	750	750	750	..	..	
2	..	..	Members' Salary .. .. .	4,000	..	..	4,000	..	
3	..	..	Attendance Allowance .. .. .	900	..	..	900	..	
4	..	..	Secretarial Assistance .. .. .	175	..	..	175	..	
			Total Personal Emoluments .. .. £	5,825	750	750			
			<b>OTHER CHARGES ANNUALLY RECURRENT</b>						
2	..	..	Transport and Travelling .. .. .	6,000	..	..	6,000	..	
3	..	..	Incidental Expenses .. .. .	145	200	337	..	55	
18	..	..	Rents .. .. .	425	1,000	379	..	575	
29	..	..	Posts and Telegraphs Services .. .. .	25	..	..	25	..	
30	..	..	Printing and Stationery .. .. .	3,150	2,000	4,146	1,150	..	
32	..	..	Entertainment Allowances .. .. .	50	..	..	50	..	
			Reporting .. .. .	..	200	295	..	200	
			Allowances to Members .. .. .	..	9,500	13,581	..	9,500	
			Total Annually Recurrent .. .. £	9,795	12,900	18,738			
			TOTAL EAST AFRICA CENTRAL LEGISLATIVE ASSEMBLY .. .. £	15,620	13,650	19,488	12,300	10,330	
			NET INCREASE—£1,970						

For explanation of notes other than x, see inside front cover.

**HEAD 4.—EAST AFRICA CENTRAL LEGISLATIVE ASSEMBLY**

The Revenue is provided as follows:—

	£	£
Total Cost .. .. .		15,620
Kenya ⅓rd .. .. .	5,207	
Tanganyika ⅓rd .. .. .	5,207	
Uganda ⅓rd .. .. .	5,206	15,620

## HEAD 5—EAST AFRICAN AGRICULTURAL AND FORESTRY RESEARCH ORGANIZATION

### Research Programme, 1960/1961

NOTE.—The programme printed below was recommended to the East African Agricultural and Fisheries Research Council by the Agricultural and Forestry Research Co-ordinating Committees. The Council endorsed the programme at its 13th meeting in January, 1960. The Council noted the decision to close down the microbiological division. This decision to close down soil fertility work at E.A.A.F.R.O. stemmed from the fact that each of the Territories now had soil chemists, and since financial stringency necessitated abandoning some work the least harm would be done to the Territories by closing the microbiological division. The Council agreed that the vacancy for a microbiologist should be used to strengthen the plant pathology division.

### THE PHYSICS DIVISION

The Physics Division will continue its study of the main components of the Water Cycle, over a wide range of East African local climates, as these are affected by the land-use practices of agriculture, silviculture and protective forestry.

The complete water-balance of ten natural valleys, under contrasting land-use changes, is being measured in four major interterritorial and interdepartmental Catchment Area experiments. These experiments in 1960 will continue to involve the co-operation of the Forestry, Water Engineering and Agricultural Departments in Kenya, Uganda and Tanganyika together with the Tea Research Institute, two major tea companies and several technical and administrative officers from other branches of Government.

#### INFILTRATION OF RAINFALL (RAINFALL ACCEPTANCE TESTS)

Continuation of existing work on the physical effects of grazing and of cultivation treatments on rainfall entry into the soil. Core-sampling and application of artificial rainfall laboratory technique to experimental areas as follows:—

*Uganda.*—Kawanda Experiment Station, Serere Experiment Station, Moroto Intensive Reclamation Area, Atumatak Catchment Area Experiment.

*Tanganyika.*—Kongwa Experiment Station, Bohoro Flats extension of Mbarali Scheme; a new experiment will be developed at Arusha to test the infiltration effects of tie-ridging with the N.I.A.E. equipment.

*Kenya.*—On the Perkerra Irrigation Scheme, and on the Muguga Terrace and Ley Rotation Experiments; and on the Katumani Experimental Station (in continuation of work at Makavete).

#### IRRIGATION EXPERIMENTS

There is a vast disproportion in East Africa between large areas of fertile land requiring irrigation and the slender water resources available for distribution.

Modern scientific techniques of engineering and agricultural physics offer valuable means of dispensing these scarce water supplies with the maximum of crop yield response. The calibration and equipment procedures are, initially, time consuming, but the eventual applications of these methods are simple and practical.

Methods already developed for the coffee crop in central Kenya, east of the Rift Valley, are proving popular with planters and during 1960 measurements will begin in co-operation with the Coffee Research Station at Ruiru to extend this service to the Solai area in the Rift Valley.

Analyses, already completed, of water-use data for the Lyamungu Coffee Research Station in Tanganyika will permit development of a similar method there if required. Assessment of the irrigation requirements of annual crops are urgently needed for planning developments and improving techniques on both the Mbarali Irrigation Scheme in Tanganyika and on some of the Kenya schemes. In these schemes the development work of calibrating soil profiles and studying climatic data has been carried out over the

past three years, and for the Perkerra scheme some of the data have already been published. The Territories have purchased the necessary equipment and have prepared the land for detailed trials. These cannot begin, however, until this Division can recruit and train a field experimental officer to reside on each experiment in turn for periods of two to three months, since the large numbers of samplings and detailed water measurements cannot possibly be accomplished by busy irrigation managers, while the staff of this Division is very fully committed. This programme received a drastic check through the recent severe reduction in the E.A.A.F.R.O. establishment, and this irrigation work is at present at a standstill.

#### EVAPORATION AND EVAPOTRANSPIRATION—PLANT WATER USE BY CHANGES IN SOIL MOISTURE STORAGE

Use of a combination of electrical resistance tensiometers with periodic soil moisture sampling to a depth of ten feet. This technique is being used on all ten valleys of the co-operative catchment area experiments, under the following covers:—

- Two valleys under tall rain forest.
- One valley under tall rain forest during conversion to tea plantations.
- Two valleys under bamboo forest.
- One valley under bamboo forest during conversion to softwood plantations.
- One valley under regenerating scrub in shifting peasant agriculture.
- One valley under regenerating scrub during clearing and cropping.
- One valley under heavily overgrazed thorn scrub.
- One valley under heavily overgrazed thorn scrub, to be cleared and put under controlled rotational grazing.

In addition, these water-use studies will continue in long-term experiments comparing plantation softwoods of different ages with indigenous bamboo; also in comparing all phases of three ley-arable six-year rotations with continuous cultivation, and in following the progress of irrigation treatments in coffee and pyrethrum. A new installation during 1960 will be designed to detect depth of penetration of water under different tillage treatments near Arusha, Tanganyika.

#### ESTIMATION OF EVAPORATION FROM METEOROLOGICAL DATA

The data from fully equipped and carefully supervised stations operated in co-operation with Territorial Departments are being analysed by the energy balance method on all four major catchment area experiments, on two irrigation experiments and at Muguga. At all these sites estimates of evapotranspiration can be checked against quantitative measurement of water storage changes, rainfall, and, where applicable, stream-flow, so that independent comparisons are obtained. Evapotranspiration tanks at Muguga are compared with others operated in a contrasting climate by the T.A.C. at Kongwa, and their relations with the Penman estimates will continue to be explored.

Using newly purchased and constructed equipment for radiation measurements, work on the albedo or reflecting power of various land-surface covers, already begun on a small scale, will be developed during 1960 as part of the energy-balance approach to the water use of vegetation.

Soil temperatures under various ground covers, already analysed in detail for bare soil, will be studied for estimates of heat-flux.

#### ANALYSIS OF DATA FROM EVAPORATION TANKS

The confusing variation of exposures and designs of evaporation tank used in East and Central Africa and their relative performances in the range of local climatic conditions, have shown promising signs or co-ordination by the testing of their degree of association with the main components of the energy balance of open water evaporation. The Third Formal Hydrology Conference of East and Central African Territories, held in Kampala in 1958, requested the Physics Division to co-ordinate the evaporation tank data from the six territories for presentation to the CCTA/CSA Hydrology Conference in Nairobi in February, 1961, and this will be done during 1960.

#### THE PHYSICAL EFFECTS OF SHADE TREES IN TEA PLANTATIONS

All of the above-mentioned techniques are involved in this study of the shade, shelter and soil moisture effects of shade trees in tea, and of their relation to crop yield. These experiments will be extended during 1960 in co-operation with the Tea Research Institute and with tea estates.

#### CATCHMENT AREA EXPERIMENTS

These integrate all of the foregoing techniques and engage the active participation of the whole Division. They will be developed continuously during 1960 and it is hoped to extend the work to the catchments of two large dams which are to be intensively measured by the Kenya Ministry of Works.

Each Catchment Area study is of a major change in the land-use of a complete Catchment, and each involves several separate investigations within the main experiment; one of the main problems is that of rainfall assessment.

#### ASSESSMENT OF RAINFALL OVER A CATCHMENT AREA

Of the four large experiments, that on peasant cultivation effects in the Mbeya Range in Tanganyika has proved amenable to simple statistical treatment and accuracy in rainfall estimation is already assured. The rainfall distribution in the bamboo forests of the Aberdares is complicated both by an altitude and a rain shadow effect and will be studied in more detail during 1960. The Kericho area has a peculiar local rainfall pattern due to the proximity of Lake Victoria and the Sitoten and Tinderet Mountains. Intensive patterns of rain gauges will be operated for study of individual storms during 1960. The study of the hydrological effects of grazing improvement in the Karamoja District of Uganda is complicated by the extreme discontinuity of rainfall patterns and these will be subjected to similar intensive study in 1960. At the same time the Division will co-operate with the Water Development Department in further current-meter readings for calibration of storm flow through the experimental flumes.

#### Soil Survey and Classification (Scott)

Much of Scott's time will be taken up with obtaining soil samples from the agriculturally more important soil series of East Africa, so the Physics Division can estimate the amount of available water such soils can hold within the soil profile.

#### Plant Physiology (Glover)

Mr. Glover will continue his studies on the effect of drought on the stomatal behaviour in the leaves of various crops and trees. In particular he will be studying—

- (a) the stomatal behaviour during and after drought in the leaves of drought-resistant maizes supplied by Dr. Willhausen of the Rockefeller Foundation, Office of Special Studies, Mexico. These maizes are likely to be of interest to those members of the Territorial departments who are concerned with breeding for drought resistance;
- (b) the behaviour of the stomata of crop trees will also be examined. The first to be studied will be eucalyptus.

In addition he will commence a more detailed study of the leaf temperatures of various crops, including trees, in relation to changes in such factors as solar radiation, wind, and the humidity of the air.

#### Spectrochemical Investigations (Chamberlain)

(a) Continue work on the seasonal variation of the mineral composition of plants. Much of this work will be concerned with Star grass pastures, the foddors in ranching areas, including certain troublesome plants such as Leleshwa, and pineapple. A Kenya spectrochemical assistant will be working full time on the analysis of leaf samples of coffee.

(b) Continue work on the readily extractable trace elements in the more important soil types in the three Territories. In general the soil samples are taken from areas where plant samples are also taken for analysis. Many of the plant and soil analyses will be made at the request of Territorial departments.

(c) Continue work on finding more suitable extracting solutions for estimating the availability of the important trace elements in soils.

(d) The improvement of spectrochemical techniques so that elements can either be determined more accurately or more rapidly.

### Plant Pathological and Botanical Investigations

#### PLANT BREEDING

##### 1. *Sorghum Research Scheme* (Doggett and Jowett)

The details of next year's programme will be decided after Doggett has returned from his visit to the United States and Mexico. This is a basic research programme whose objects are—

- (1) to investigate the genetics of resistance to specific pests and diseases whilst maintaining acceptable levels of palatability and weevil resistance in storage;
- (2) to investigate the possible place of tetraploid sorghums in African areas.

##### 2. *Maize Breeding* (Storey)

The primary object of these investigations is to elucidate the genetics of resistance of maize to specific diseases, and, to this end, to develop glasshouse techniques for determining the level of resistance of seedlings to these diseases.

- (a) Work on breeding maize resistant to the virus disease Streak. This work will soon be far enough advanced for resistant material to be tested in the field in areas where Streak is important in co-operation with the Territorial maize breeders.
- (b) Preliminary investigations on the possibility of breeding maize resistant to White Blight (*Helminthosporium* sp.). Work has been started to decide whether a suitable glasshouse technique can be developed for testing seedlings for resistance to this fungus, but the preliminary results are unpromising.

##### 3. *Cassava Breeding* (Storey)

A little work is still being done on the testing of clones for freedom from Brown Streak.

##### 4. *Bean Breeding* (Storey)

Some preliminary work has been started on the possibility of assessing the resistance of the white pea bean (*Phaseolus vulgaris*) to *Uromyces phaseoli*, using the juvenile testing technique. This work will be developed if the preliminary results are sufficiently promising to warrant it.

#### OTHER VIRUS DISEASE WORK (Sheffield)

1. *Stem pitting of coffee*.—The object of this work is to test whether the symptoms are due to virus infection. This work is being done in close co-operation with the Territorial Coffee Research Stations, and since a virus has not yet been proved the cause, the latter are responsible for testing how far other agents could be responsible.

2. *Ratoon stunting of sugar cane*.—The object of this work was to find species of plants which could be used as a rapid diagnostic test for the presence of the virus in sugar cane. So far no real progress has been made, and the work will probably be dropped as, until a rapid diagnostic method is available, it can be done only at specialist sugar cane research laboratories with much more extensive facilities than we possess at Muguga.

3. *The virus diseases of edible legumes*.—I am proposing that as time permits Dr. Sheffield should start a survey of the virus diseases attacking these crops.

#### PLANT PARASITIC NEMATODES (Whitehead)

1. He will complete his survey of the crops seriously attacked by nematodes in East Africa and the species of nematodes attacking these crops.

2. He will then concentrate on methods for controlling nematodes in tobacco fields in the Iringa district of Tanganyika, and elsewhere if requested.

### Ecology (Trapnell)

Much of his time will be taken up helping the Kenya Department of Agriculture in co-operation with the Directorate of Overseas Surveys, London, to prepare a vegetation-land use map of a part of western Kenya.

### East African Herbarium (Verdcourt)

The Herbarium will be understaffed until the new Botanist arrives, which I hope will be about Michaelmas, 1960.

Its principal work is the naming of plant collections submitted to it by the East African Natural Resources Departments and some official bodies outside East Africa. In addition, the staff is co-operating with Kew on the preparation of the Flora of Tropical East Africa, and Miss Napper is working on the grasses of Tanganyika. This work is bound to go very slowly with the present level of staffing of the Herbarium.

### East African Plant Quarantine Station and Standing Technical Committee for Plant Import and Export

This work takes up a considerable amount of the time of Drs. Storey and Sheffield.

## ANIMAL HUSBANDRY DIVISION

### THE CATTLE UNIT

1. (1/N.1) Study of the relative efficiency of the Boran and the Shorthorn Zebu in converting feed into beef, and the effect of the plane of nutrition on the efficiency of food conversion, rate of growth and carcass quality. This work will be done both at Muguga and in the Kedong, and will continue until 1964.

2. (1/N.4) Studies on the measurement of the intake of grass and browse by Boran and Shorthorn Zebu cattle.

3. (1.2) A co-operative trial with the Kenya Agricultural Department (Kitale Agricultural Station) on the problem of why milk production is at such a low level in some Trans-Nzoia and Uasin Gishu districts. A second trial will be started during 1960.

4. A fundamental study of the water requirements of indigenous stock to be carried out at Muguga.

5. (1.3) A co-operative trial with the Department of Veterinary Services, Tanganyika (Northern Province Stock Farm, Engare Nairobi). A study of the water requirements and productivity of indigenous cattle when subjected to the stress of infrequent watering and long daily treks. This project is still only in the planning stage, but it is hoped it will become operational during the 1960 rains.

6. In addition to the projects listed above the Division's identical twin collection is progressing, and will be carried on throughout 1960. Particular emphasis is now being placed on the collection of identical twins of indigenous cattle.

### SHEEP AND GOAT UNIT

1. (3.1) A co-operative project with the Kenya Agricultural Department (Eldoret Agricultural Station). At present these are small look-see trials designed to ascertain why sheep productivity in the Uasin Gishu district is low. It is hoped to plan a more comprehensive trial during 1960.

2. A flock of native Masai sheep will be acquired during 1960, but in the first instance will only be used for acquiring experience in managing such a flock for experimental purposes.

### PIG UNIT

1. (2/B.1) A comparison of carcass characteristics and productivity of the triple cross, Wessex  $\times$  Large White  $\times$  Landrace with the pure-bred Large White as baconers. This is an initial small-scale trial and it will be followed by a larger trial if the results make it look worth while.

2. (2/M.1) Effect of the type of farrowing equipment and the provision of heat on piglet mortality. This experiment will continue throughout 1960.

3. (2/M.3) A comparison of the growth, feed conversion and carcass quality of pigs managed on deep litter compared with pigs managed in conventional buildings. This is due to start at the end of 1959, and will continue throughout 1960.

4. (2/M.4) An investigation on the possibility of artificially raising piglets once they have received colostrum from their dams. This will continue throughout 1960.

5. (2/N.7) An investigation of the effect of restricted feeding, the feeding of high fibre feeds and the use of synthetic oestrogens on the carcass quality of bacon pigs.

6. (2/N.10) An investigation of the effect of lysine in pig rations on the productivity and carcass characteristics of the pig. This will be continued throughout 1960.

7. (2/N.11) The effect of environmental temperature on the incidence and severity of piglet anaemia. This is being carried out co-operatively with E.A.V.R.O.

8. (2/N.14) An investigation to compare the feeding value of four protein supplements for high cereal rations containing 10, 20, 30 and 40 per cent respectively of cotton seed meal.

9. Co-operative pig trials with the Kenya Veterinary Department at Naivasha and Agricultural Department at Eldoret, Kitale and Ol Joro Orok. The purpose of these trials is to compare the Pig Industry Board's protein and mineral supplement (Muguga Supplement 14B) with current standard supplements and with skim milk, and to determine the most profitable amounts of supplement to add to various cereal mixtures for pigs at different ages.

#### THE MEAT UNIT

1. (4/C.1) A comparison of the total analysis of Boran (*Bos indicus*) carcasses bred in East Africa with those of the temperate type (*Bos taurus*) bred in the United Kingdom.

2. (4/C.2) The relationship between the eye grading and the total analysis and measurements of Boran carcasses.

3. (4/C.3) The relationship between weight and/or age and carcass data in the Boran.

4. (4/C.4) A comparison of the carcasses of Boran steers slaughtered at a specific weight. This work is being done in association with the Geneticist, E.A.V.R.O., and includes a genetic study of certain carcass characteristics such as marbling.

5. (4/C.5) Use of sample joints as indicators of carcass composition. This is a co-operative experiment with the Department of Veterinary Services, Tanganyika.

6. (4/C.6) An investigation of physical methods for measuring fatness *in vivo*. This is being done partly in association with E.A.V.R.O.

7. (4/C.7) An investigation of the correlation of linear measurements of a live animal or of its carcass with the fat content of the carcass.

8. (4/C.8) A comparison of the carcasses of Boran steers raised on different planes of nutrition. This is in association with the Kenya Veterinary Department.

#### THE BIOCHEMICAL UNIT

1. (2/N.16) An investigation of the gossypol content of East African cotton seed meals. This project must await the appointment of a new Biochemist.

### SILVICULTURE DIVISION

Only the principal items are listed here. The programme has been agreed with the Territories both at the Forest Research Specialist Committee and at the Forestry Research Co-ordinating Committee. Most of the field work listed below will be done at Muguga.



### 1. NURSERY EXPERIMENTS

The principal work will be on the minimum level of fertilizers needed in seed beds.

The experimental programmes in the previous years have now given what look like reliable techniques for raising useful seedlings, with the exception that the experimental results for the minimum levels of fertilizers to be added to the seed bed are still inconsistent.

### 2. PLANTING OUT AND EARLY CARE

The principal work will be to follow the rate of root development and mycorrhizal formation in the period immediately after planting out.

The previous experiments have established the more important conditions for successful establishment of seedlings when planted out in the forest.

### 3. SHORT-TERM TREE EXPERIMENTS

A comparison of the yield of various species and varieties of eucalypts, and the physical properties of their wood, i.e. density and calorific value.

### 4. LONG-TERM TREE EXPERIMENTS

(a) Measuring the rate of wood production on living trees.

(b) The effect of methods of thinning and pruning on rate of growth.

(c) The rate of healing of pruning wounds.

### 5. THE ARBORETUM

Maintenance and measurements on existing plots, and planting out of some new ones.

*Note.*—The Tropical Products Institute, a Division of the D.S.I.R., London, will probably be carrying out tests on the quality of the wood produced by the various species of tree grown in the Arboretum, and in particular, on the fibre length and other properties likely to be of importance if the wood is used as a raw material for industry.

### 6. SEED ORCHARDS

(a) Accumulating suitable material for *P. patula* and *P. radiata* seed orchards.

(b) Learning to manage *P. radiata* grafts so they set seed as young as possible.

### 7. NATURAL FOREST AT MUGUGA

Preliminary observations on some management practices.

### 8. THE FORESTRY BUREAU

This is concerned with collecting and circulating information likely to be of interest to the Territorial forestry departments.

### 9. EXTENSION WORK

Courses will continue to be run for A.C.F.'s Foresters and Forest Rangers as requested by the Territories.

## FOREST ENTOMOLOGY DIVISION

Apart from the identification of pests, normal advisory work and the investigation of such insect epidemics as may occur, the main programme of research for the coming year falls into the following divisions:—

### 1. GENERAL

Expansion of the East African Forest Insect Survey.

## 2. TERMITES

Investigation of Termite damage to trees, comprising mainly : —

- (i) Continued collection of data on conditions of attack and species of tree and termite involved.
- (ii) Laying down of experimental control plots based on—
  - (a) direct termite nest destruction;
  - (b) protection of trees by insecticides;
  - (c) reduction of termite population by baiting.

## 3. WOOD BORERS

- (i) Survey of borers of living trees; the ecological and geographical distribution of the pests and their host range and preferences.
- (ii) Development of non-destructive techniques for the detection of borers in living trees and lumber.
- (iii) Investigation of the incidence, degree and development of borer infestation in forests and plantations and the elucidation of conditions predisposing living trees to borer attack.
- (iv) Biology and ecology of specific pests, i.e. *Oemida*, *Androeme*, the Paranari Borer and Ambrosia beetles.

## EXPENDITURE

## HEAD 5—EAST AFRICAN AGRICULTURE AND FORESTRY RESEARCH ORGANIZATION

I. ESTIMATE of the amount required in the year ending 30th June, 1961.

**One hundred and sixty-seven thousand, two hundred and sixty-nine pounds.  
(£167,269)**

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
<b>(1) RESEARCH ORGANIZATION</b>									
<b>I PERSONAL EMOLUMENTS</b>									
1	1	1	Director (C.R.S.) .. .. .	3,100	3,100	..	..	..	
2	1	1	Deputy Director (C.R.S.) .. .. .	2,900	2,500	..	400	..	<i>p</i>
3	28	23	Research Officers (C.R.S.) .. .. .	38,408	40,925	..	..	2,517	<i>a</i>
4	20	14	*Scientific and Agricultural Assistants, 2 C.5-2, 12 C.5-3 .. .. .	14,816	15,573	..	..	757	<i>a</i>
5	1	1	*Field Experimentalist, C.3-2 .. .. .	1,566	1,518	..	48	..	<i>a</i>
6	1	1	*Farm Manager, C.3-2 .. .. .	1,550	1,502	..	48	..	<i>a</i>
7	1	1	*Secretary, B.1 .. .. .	1,863	1,863	..	..	..	
8	1	1	*Storekeeper, Grade II, C.5-4 .. .. .	858	825	..	33	..	<i>a</i>
9	1	1	*Senior Maintenance Superintendent, C.3-2 .. .. .	1,566	1,566	..	..	..	
10	1	1	*Librarian, B.5-3 .. .. .	633	616	..	17	..	<i>a</i>
11	4	4	*Personal Secretaries, Grade II .. .. .	3,394	3,378	..	16	..	<i>a, c</i>
12	1	1	*Secretary/Stenographer .. .. .	732	732	..	..	..	
13	1	1	*Assistant Maintenance Superintendent, C.5-4 .. .. .	924	924	..	..	..	
14	..	1	*Senior Foreman, C.6-4 .. .. .	825	..	..	825	..	
15	3	2	*Foreman Artisans, C.6-5 .. .. .	1,359	2,064	..	..	705	
16	1	1	*Senior Artisan, E.2-1 .. .. .	533	512	..	21	..	<i>a</i>
17	12	12	*Clerks, 6 E.4-1, 6 E.6-5 .. .. .	2,321	2,196	..	125	..	<i>a</i>
18	31	43	*Laboratory Assistants, 21 E.4-3, 22 E.6-5 .. .. .	7,694	5,311	..	2,383	..	<i>a</i>
19	4	4	*Overseers, 1 E.4-3, 3 E.6-5 .. .. .	872	821	..	51	..	<i>a</i>
20	20	17	*Artisans, 4 E.4-3, 13 E.6-5 .. .. .	1,923	2,907	..	..	984	<i>2s, a</i>
21	5	5	*Drivers, E.6-5 .. .. .	603	542	..	61	..	<i>a</i>
22	..	..	Labour S.S. .. .. .	8,700	8,500	..	200	..	<i>a</i>
23	..	..	F.S.S.U. Contributions .. .. .	327	327	..	..	..	
24	..	..	Pension Contributions (C.R.S.) .. .. .	6,748	8,270	..	..	1,522	
25	..	..	Gratuities, Contract .. .. .	416	..	..	416	..	
26	..	..	Gratuities, Temporary Staff .. .. .	830	782	..	48	..	
27	..	..	Personal Allowances .. .. .	210	110	..	100	..	
28	..	..	Leave Pay .. .. .	1,618	4,210	..	..	2,592	
138	136		Total Personal Emoluments .. .. .	£ 107,289	111,574	103,996			

For explanation of notes other than *x*, see inside front cover.

50  
EXPENDITURE

HEAD 5—EAST AFRICAN AGRICULTURE AND FORESTRY  
RESEARCH ORGANIZATION—(Contd.)

No.		Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
		1959/60	1960/1		1960/61	1959/60				
					£	£	£	£	£	
<b>OTHER CHARGES ANNUALLY RECURRENT</b>										
2	..	..	..	Transport and Travelling .. .. .	6,500	6,000	6,077	500	..	
3	..	..	..	Incidental Expenses .. .. .	400	400	261	..	..	
4	..	..	..	Staff Housing and Allowances .. .. .	574	918	1,102	..	344	
5	..	..	..	Common Services .. .. .	25,855	26,508	24,497	..	653	l
6	..	..	..	Equipment and Supplies .. .. .	3,750	3,750	3,629	..	..	
7	..	..	..	Maintenance of Buildings and Estate .. .. .	3,750	4,000	3,926	..	250	o
8	..	..	..	Maintenance of Motor Vehicles and Boats .. .. .	1,350	1,200	2,076	150	..	
9	..	..	..	Maintenance of Plant and Equipment .. .. .	600	600	561	..	..	
10	..	..	..	Essential Services .. .. .	3,200	2,800	3,099	400	..	
11	..	..	..	Hospital Contributions and A.O.F.P.F. .. .. .	130	149	153	..	19	
12	..	..	..	Library .. .. .	500	500	500	..	..	
13	..	..	..	Expenses of Conferences .. .. .	50	100	6	..	50	
14	..	..	..	Uniforms .. .. .	550	550	568	..	..	
17	..	..	..	Purchase and Upkeep of Animals .. .. .	499	500	500	..	1	
18	..	..	..	Rents .. .. .	560	310	231	250	..	
21	..	..	..	Publications .. .. .	650	800	404	..	150	y
29	..	..	..	Posts and Telegraphs Services .. .. .	1,400	1,000	1,415	400	..	
30	..	..	..	Printing and Stationery .. .. .	1,100	1,100	1,098	..	..	
31	..	..	..	Vienna and London Conferences .. .. .	200	..	..	200	..	
32	..	..	..	Entertainment Allowance .. .. .	50	..	5	50	..	
36	..	..	..	Purchase and Upkeep of Animals (Supp.) .. .. .	1	..	..	1	..	
				<i>Items not repeated</i> .. .. .	..	..	3,067	..	..	
				Total Annually Recurrent .. .. . £	51,669	51,185	53,175			
				Total Recurrent .. .. . £	158,958	162,759	157,171	6,743	10,544	
				(51) SPECIAL EXPENDITURE Scheme 1959/64						
				£						
1	..	..	..	Vehicles .. .. . 10,000	3,000	..	..	3,000	..	
2	..	..	..	Equipment .. .. . 4,250	2,000	..	..	2,000	..	
				Total Special Expenditure £14,250	5,000	..	..	5,000	..	
				(54) <i>Special Expenditure</i> (C.D. & W. Schemes R.301 and R.739)						
				<i>Items not repeated</i> .. .. .	..	..	4,975	..	..	
				TOTAL (1) RESEARCH ORGANIZATION .. £	163,958	162,759	162,146	11,743	10,544	
				NET INCREASE—£1,199						

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

HEAD 5—EAST AFRICAN AGRICULTURE AND FORESTRY  
RESEARCH ORGANIZATION—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			<b>(2) E.A. AGRICULTURAL AND FORESTRY JOURNAL</b>						
			PERSONAL EMOLUMENTS						
1	..	1	Assistant Editor (Part-time) .. .. .	522	..	..	522	..	
2	..	..	Gratuity .. .. .	53	..	..	53	..	
	..	1	Total Personal Emoluments .. .. £	575	..	..			
			OTHER CHARGES ANNUALLY RECURRENT						
3	..	..	Incidental Expenses .. .. .	10	..	..	10	..	
6	..	..	Equipment and Supplies .. .. .	40	..	..	40	..	
29	..	..	Posts and Telegraphs Services .. .. .	110	..	..	110	..	
30	..	..	Printing and Stationery .. .. .	1,500	..	..	1,500	..	
			Total Annually Recurrent .. .. £	1,660	..	..			
			TOTAL (2) E.A. AGRICULTURAL AND FORESTRY JOURNAL .. .. £	2,235	..	..	2,235	..	
			NET INCREASE—£2,235						
			<b>(3) MUGUGA HOSTEL</b>						
40	..	..	Contribution .. .. .	1,076	1,076	1,076	..	..	
			TOTAL (3) MUGUGA HOSTEL .. .. £	1,076	1,076	1,076	..	..	
			(5) <i>Sorghum Research</i> (C.D. & W. Schemes R.688, R.924 and R.1022)						
1	..	..	Personal Emoluments .. .. .	..	700	273	..	700	
			Items not repeated .. .. .	..	..	4,482	..	..	
			Total Sorghum Research .. .. £	..	700	4,755	..	700	
			NET DECREASE—£700						
			(56) <i>Amani Reserve Fund</i> Items not repeated .. .. .	..	..	2,342	..	..	
			(57) <i>Special Expenditure</i> (C.D. & W. Scheme R.868) Items not repeated .. .. .	..	..	47,082	..	..	
			TOTAL (1) RESEARCH ORGANIZATION .. £	163,958	162,759	162,146	11,743	10,544	

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

HEAD 5—EAST AFRICAN AGRICULTURE AND FORESTRY  
RESEARCH ORGANIZATION—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			TOTAL (2) E.A. AGRICULTURAL AND FORESTRY JOURNAL .. .. .£	2,235	..	..	2,235	..	
			TOTAL (3) MUGUGA HOSTEL .. .. .£	1,076	1,076	1,076	..	..	
			TOTAL E.A. AGRICULTURE AND FORESTRY RESEARCH ORGANIZATION £	167,269	164,535	217,401	13,978	11,244	
			NET INCREASE—£2,734						

## HEAD 5—EAST AFRICAN AGRICULTURE AND FORESTRY RESEARCH ORGANIZATION

### (1) Research Organization

The Revenue is provided as follows:—

	£	£	£
Special Expenditure .. .. .			5,000
Her Majesty's Government 75%		3,750	
East African Governments 25%	1,250		
Divided—			
Kenya .. .. . 32·8%	410		
Tanganyika .. .. . 32·8%	410		
Uganda .. .. . 31·0%	387		
Zanzibar .. .. . 3·4%	43		
	—	1,250	
		<u>5,000</u>	
Recurrent .. .. .			158,958
Less—			
Rents Received .. .. .		2,175	
Sales and Miscellaneous Revenue .. .. .		1,500	
		<u>3,675</u>	
			155,283
Her Majesty's Government 30%		46,584	
East African Governments 70%	108,699		
Divided—			
Kenya .. .. . 32·8%	35,653		
Tanganyika .. .. . 32·8%	35,653		
Uganda .. .. . 31·0%	33,697		
Zanzibar .. .. . 3·4%	3,696		
	—	108,699	
		<u>155,283</u>	

### (2) East African Agricultural and Forestry Journal

Recurrent .. .. .			2,235
Less—			
Sales, etc. .. .. .			1,100
			<u>1,135</u>
Her Majesty's Government 30%		340	
East African Governments 70%	795		
Divided—			
Kenya .. .. . 32·8%	261		
Tanganyika .. .. . 32·8%	261		
Uganda .. .. . 31·0%	246		
Zanzibar .. .. . 3·4%	27		
	—	795	
		<u>1,135</u>	

### (3) Muguga Hostel

Recurrent .. .. .			1,076
East African Governments 100%	1,076		
Divided—			
Kenya .. .. . 32·8%	353		
Tanganyika .. .. . 32·8%	353		
Uganda .. .. . 31·0%	333		
Zanzibar .. .. . 3·4%	37		
	—		
		<u>1,076</u>	





## HEAD 6—EAST AFRICAN FISHERY RESEARCH ORGANIZATION

### Research Programme, 1960/1961

NOTE.—The programme printed below was recommended to the East African Agricultural and Fisheries Research Council by the Inland Fisheries Research Co-ordinating Committee. The Council endorsed the programme at its 13th meeting in January, 1960.

#### 1. STUDY OF NILE PERCH IN LAKE ALBERT AND ADJACENT WATERS

Before any conclusions may be drawn about the possible introduction of Nile perch into Lake Victoria much more must be known about these fish and their habits. It is proposed to establish a temporary base at Ntoroko at the south end of Lake Albert where the biological conditions are best. The following is the outline scheme of research:—

- (i) Taxonomic status.
- (ii) Topographical distribution.
  - (a) Habitat
  - (b) Movements
 } of different size groups.
- (iii) Growth rate and age.
- (iv) Reproduction.
- (v) Food requirements at all stages.
- (vi) Explanation of mass mortalities.
- (vii) Progress of fish introduced elsewhere.
- (viii) Relation to other species.

#### 2. LAKE VICTORIA

- (i) Assessment of the commercial fisheries.
- (ii) Continuation of present studies on populations of *T. esculenta* and *T. variabilis* which are designed to assess their ability to withstand exploitation.
- (iii) (a) Programme of fish stocking with *T. zillii* and *T. esculenta*.
  - (b) The establishment of substations as may be approved from time to time in order to make a further assessment of the composition of the naturally occurring populations of fish and to develop a restocking project using *T. esculenta*.
- (iv) Investigation of *Bagrus docmac*. This investigation will be closely related to the question of introducing the Nile perch into Lake Victoria.

## EXPENDITURE

## HEAD 6—EAST AFRICAN FISHERY RESEARCH ORGANIZATION

I. ESTIMATE of the amount required in the year ending 30th June, 1961.

**Twenty-two thousand, eight hundred and seventy-six pounds.**  
**(£22,876)**

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
<b>1</b>			<b>PERSONAL EMOLUMENTS</b>						
1	1	1	Director .. .. .	2,500	2,500	..	..	..	
2	5	4	Research Officers (C.R.S.) .. .. .	4,391	5,097	..	..	706	c
3	2	2	*Field Officers, C.5-2 .. .. .	3,116	3,028	..	88	..	a
4	1	1	*Personal Secretary, Grade II .. .. .	651	624	..	27	..	a
5	1	1	*Senior Artisan, E.2-1 .. .. .	555	555	..	..	..	
6	..	2	Coxwains, E.6-5 .. .. .	208	..	..	208	..	a
7	..	1	*Laboratory Assistant, E.6-5 .. .. .	104	..	..	104	..	a
8	..	..	Labour S.S. .. .. .	550	850	..	..	300	
9	..	..	Pension Contributions (C.R.S.) .. .. .	939	983	..	..	44	y
10	..	..	Personal Allowances .. .. .	150	200	..	..	50	
11	..	..	Gratuities .. .. .	..	1,067	..	..	1,067	
	10	12	Total Personal Emoluments .. .. £	13,164	14,904	12,941			
			<b>OTHER CHARGES ANNUALLY RECURRENT</b>						
2	..	..	Transport and Travelling .. .. .	925	925	899	..	..	
3	..	..	Incidental Expenses .. .. .	50	25	52	25	..	e
4	..	..	Staff Housing and Allowances .. .. .	175	175	86	..	..	
5	..	..	Common Services .. .. .	3,861	4,274	2,510	..	413	l
6	..	..	Equipment and Supplies .. .. .	1,000	850	920	150	..	
7	..	..	Maintenance of Buildings and Estate .. .. .	500	550	549	..	50	
8	..	..	Maintenance of Motor Vehicles and Boats .. .. .	1,100	1,100	1,230	..	..	
10	..	..	Essential Services .. .. .	250	200	247	50	..	
12	..	..	Library .. .. .	225	225	218	..	..	
13	..	..	Expenses of Conferences .. .. .	25	100	92	..	75	
14	..	..	Uniforms .. .. .	50	50	46	..	..	
18	..	..	Rents .. .. .	500	500	407	..	..	
21	..	..	Publications .. .. .	175	175	200	..	..	
29	..	..	Posts and Telegraphs Services .. .. .	200	200	281	..	..	
30	..	..	Printing and Stationery .. .. .	175	175	233	..	..	
			Total Annually Recurrent .. .. £	9,211	9,524	7,970			
			Total Recurrent .. .. £	22,375	24,428	20,911	652	2,705	
			NET DECREASE—£2,053						

For explanation of notes other than x, see inside front cover.

EXPENDITURE

HEAD 6—EAST AFRICAN FISHERY RESEARCH ORGANIZATION—(Contd.)

II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(51) SPECIAL EXPENDITURE A—RECURRENT Scheme 1959/64						
1	..	..	Equipment .. .. .	£ 2,500	500	..	500	..	
			(51) SPECIAL EXPENDITURE B—NON-RECURRENT						
11	..	..	Purchase of Vessel ..	14,000	1	..	1	..	
			Total Special Expenditure	£ 16,500	501	..	501	..	
			(53) Special Expenditure						
5	..	..	Microscope and Laboratory Equipment ..	..	..	200	..	200	
	..	..	Items not repeated .. .. .	..	..	2,220	..	..	
			Total Special Expenditure .. .. £	..	..	200	2,220	..	200
			TOTAL E.A. FISHERY RESEARCH ORGANIZATION .. .. . £		22,876	24,628	23,131	1,153	2,905
			NET DECREASE—£1,752						

For explanation of notes other than x, see inside front cover.

## HEAD 6—E.A. FISHERY RESEARCH ORGANIZATION

The Revenue is provided as follows:—

				£	£	£
Special Expenditure .. .. .						501
Her Majesty's Government	75%				375	
East African Governments	25%			126		
Divided—						
Kenya .. .. .	32·8%			41		
Tanganyika .. .. .	32·8%			41		
Uganda .. .. .	31·0%			39		
Zanzibar .. .. .	3·4%			5		
				—	126	501
Recurrent .. .. .						22,375
Less—						
Rents received .. .. .						333
						22,042
Her Majesty's Government	30%				6,613	
East African Governments	70%			15,429		
Divided—						
Kenya .. .. .	32·8%			5,061		
Tanganyika .. .. .	32·8%			5,061		
Uganda .. .. .	31·0%			4,783		
Zanzibar .. .. .	3·4%			524		
				—	15,429	22,042
<b>Summary</b>						
Her Majesty's Government					£	
Kenya .. .. .					6,988	
Tanganyika .. .. .					5,102	
Uganda .. .. .					4,822	
Zanzibar .. .. .					529	
Rents Received .. .. .					333	
Total .. .. .					<u>£22,876</u>	

## EXPENDITURE

## HEAD 7—EAST AFRICAN INDUSTRIAL RESEARCH ORGANIZATION

## I. ESTIMATE of the amount required in the year ending 30th June, 1961.

**Forty-nine thousand, five hundred and thirteen pounds.  
(£49,513)**

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
<b>1</b>			<b>PERSONAL EMOLUMENTS</b>						
1	1	1	Director, C.R.S. . . . .	1,250	2,500	..	..	1,250	c
2	1	1	Chief Chemist, C.R.S. . . . .	2,241	2,178	..	63	..	a
3	..	..	Ceramic Specialist, £2,000 x 70-£2,140 ..	1	1	..	..	..	
4	8	8	Scientific Officers, C.R.S. . . . .	11,134	11,113	..	21	..	a, 1s
5	1	1	*Assistant Office Superintendent, C.5-4 ..	861	831	..	30	..	a
6	5	5	*Laboratory Technicians, C.5-2 .. . .	4,559	4,313	..	246	..	a, c'
7	1	1	*Secretary/Stenographer .. . . .	879	879	..	..	..	
8	2	2	*Clerks, 1 E.4-1, 1 E.6-5 .. . . .	606	666	..	..	60	c
9	1	1	*Storekeeper Grade II, C.5-4 .. . . .	858	825	..	33	..	a
10	1	1	*Artisan, E.6-5 .. . . .	154	164	..	..	10	v
11	4	4	*Laboratory Assistants, 1 E.4-3, 3 E.6-5 ..	537	570	..	..	33	c
12	1	1	*Driver, E.6-5 .. . . .	105	1	..	104	..	
13	..	..	Subordinate Staff .. . . .	1,150	1,100	..	50	..	a
14	..	..	Gratuities .. . . .	1,897	2,144	..	..	247	
15	..	..	Personal Allowances .. . . .	108	30	..	..	78	
16	..	..	Pension Contributions, C.R.S. . . . .	1,886	803	..	1,083	..	
17	..	..	Leave Pay .. . . .	2,500	713	..	1,787	..	
18	..	..	Temporary Clerical Assistance .. . . .	300	..	..	300	..	
	<b>26</b>	<b>26</b>	<b>Total Personal Emoluments .. . . . £</b>	<b>31,026</b>	<b>28,831</b>	<b>27,488</b>			
			<b>OTHER CHARGES ANNUALLY RECURRENT</b>						
2	..	..	Transport and Travelling .. . . .	1,100	1,200	930	..	100	
3	..	..	Incidental Expenses .. . . .	200	200	192	..	..	
4	..	..	Staff Housing and Allowances .. . . .	3,251	3,481	3,187	..	230	
5	..	..	Common Services .. . . .	5,896	6,046	4,511	..	150	
6	..	..	Equipment and Supplies .. . . .	2,500	3,500	4,006	..	1,000	l
7	..	..	Maintenance of Buildings and Estates ..	400	405	150	..	5	
8	..	..	Maintenance of Motor Vehicles and Boats	100	100	95	..	..	
9	..	..	Maintenance of Plant and Equipment ..	100	100	98	..	..	
10	..	..	Essential Services .. . . .	950	950	806	..	..	
11	..	..	Hospital Contributions and A.O.F.P.F. . .	89	96	55	..	7	
12	..	..	Library .. . . .	400	400	454	..	..	
13	..	..	Expenses of Conferences .. . . .	100	200	11	..	100	
18	..	..	Rents .. . . .	325	380	288	..	55	
20	..	..	Fees, Rewards and Contributions .. . . .	1,326	1,362	815	..	36	
21	..	..	Publications .. . . .	100	200	62	..	100	
29	..	..	Posts and Telegraphs Services .. . . .	400	400	302	..	..	
30	..	..	Printing and Stationery .. . . .	250	300	207	..	50	
			<b>Total Annually Recurrent .. . . . £</b>	<b>17,487</b>	<b>19,320</b>	<b>16,169</b>	<b>3,795</b>	<b>3,433</b>	

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 7—EAST AFRICAN INDUSTRIAL RESEARCH ORGANIZATION—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(51) SPECIAL EXPENDITURE						
			Scheme 1959/64						
1	..	..	Equipment .. .. . £ 4,750	1,000	..	..	1,000	..	
			<i>Items not repeated</i> .. .. .	..	..	1,748	..	..	
			Total (51) Special Expenditure .. £	1,000	..	1,748	1,000	..	
			TOTAL EAST AFRICAN INDUSTRIAL RE- SEARCH ORGANIZATION .. .. £	49,513	48,151	45,405	4,795	3,433	
			NET INCREASE—£1,362						

For explanation of notes other than x, see inside front cover.

## HEAD 7—EAST AFRICAN INDUSTRIAL RESEARCH ORGANIZATION

The Revenue is provided as follows:—

		£	£	£
Special Expenditure .. .. .				1,000
Her Majesty's Government .. .. .	75%		750	
Kenya $\frac{1}{2}$ .. .. .	} 25%	{ 125		
Uganda $\frac{1}{2}$ .. .. .			125	
			<u>250</u>	<u>1,000</u>
Recurrent .. .. .				48,513
<i>Less—</i>				
Rents .. .. .			302	
Sales .. .. .			20	
Fees for Analysis .. .. .			400	
Fees for Fuel Advisory Service .. .. .			1,000	
Fees for Research .. .. .			987	
			<u>2,709</u>	<u>45,804</u>
Her Majesty's Government .. .. .	30%		13,741	
East African Governments .. .. .	70%	32,063		
Divided—				
Kenya $\frac{1}{2}$ .. .. .			14,032	
Uganda $\frac{1}{2}$ .. .. .			14,031	
Tanganyika (fixed) .. .. .			4,000	
			<u>32,063</u>	<u>45,804</u>
<b>Summary</b>				
			£	
Her Majesty's Government .. .. .			14,491	
Kenya .. .. .			14,157	
Tanganyika .. .. .			4,000	
Uganda .. .. .			14,156	
Rents received .. .. .			302	
Sales and Miscellaneous Revenue .. .. .			<u>2,407</u>	
Total .. .. .			<u>£49,513</u>	

## EXPENDITURE

## HEAD 8—DESERT LOCUST SURVEY

I. ESTIMATE of the amount required in the year ending 30th June, 1961.

**Four hundred and thirteen thousand, three hundred and eighty-seven pounds.**  
**(£413,387)**

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			<b>(1) ADMINISTRATIVE HEADQUARTERS</b>						
			PERSONAL EMOLUMENTS						
1	1	1	*Director .. .. .	2,700	2,700	..	..	..	
2	1	1	*Deputy Director .. .. .	2,300	2,300	..	..	..	
3	1	1	*Finance and Administrative Officer, £2,000 x 70—£2,140 .. .. .	2,076	2,000	..	76	..	a
4	2	2	*Administrative Officers, B.4-2 .. .. .	3,217	3,167	..	50	..	a
5	1	1	*Senior Field Officer, C.3-2 .. .. .	1,285	1,243	..	42	..	a
6	2	2	Research Officers, C.R.S. .. .. .	1,236	1,195	..	41	..	1f, a
7	2	2	*Accountants, B.4-2 .. .. .	2,753	2,664	..	89	..	a
8	2	2	*Executive Officers Grade I, C.4-3 .. .. .	1,859	2,092	..	..	233	
9	2	2	*Scientific Assistants, C.5-3 .. .. .	961	924	..	37	..	1f, a
10	2	2	*Personal Secretaries Grade II .. .. .	1,737	1,720	..	17	..	a
11	1	1	*Storekeeper Grade I, C.4-3 .. .. .	1,236	1,194	..	42	..	a
12	1	1	*Office Assistant, C.6-5 .. .. .	858	858	..	..	..	
13	1	1	*Registry Assistant, C.6-5 .. .. .	639	639	..	..	..	
14	1	1	*Clerk E.4-1 .. .. .	326	300	..	26	..	a
15	1	1	*Telephonist Grade II, E.6-3 .. .. .	209	199	..	10	..	a
16	2	2	*Drivers, E.6-5 .. .. .	368	368	..	..	..	
17	..	..	Subordinate Staff, S.S. .. .. .	1,194	1,269	..	..	75	
18	..	..	Leave Pay .. .. .	210	..	..	210	..	
19	..	..	Pensions Contributions, C.R.S. .. .. .	278	269	..	9	..	
20	..	..	Gratuities .. .. .	785	957	..	..	172	
21	..	..	Annuity Policy Premium .. .. .	217	..	..	217	..	
	23	23	Total Personal Emoluments .. .. £	26,444	26,058	24,838			
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	4,585	4,585	4,322	..	..	
3	..	..	Incidental Expenses .. .. .	215	215	268	..	..	
4	..	..	Staff Housing and Allowances .. .. .	3,471	2,939	2,282	532	..	
5	..	..	Common Services .. .. .	6,488	7,708	8,938	..	1,220	l
6	..	..	Equipment and Supplies .. .. .	560	560	551	..	..	
			<i>Carried forward</i> .. .. £	15,319	16,007	16,361			

For explanation of notes other than x, see inside front cover.



## EXPENDITURE

## HEAD 8—DESERT LOCUST SURVEY—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	*59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			<i>Brought forward</i> .. £	15,319	16,007	16,361			
			OTHER CHARGES ANNUALLY RECURRENT —(Contd.)						
7	..	..	Maintenance of Buildings and Estates ..	450	450	399	..	..	
8	..	..	Maintenance of M/V and Boats .. ..	760	760	758	..	..	
9	..	..	Maintenance of Plant and Equipment ..	170	170	98	..	..	
10	..	..	Essential Services .. .. .	400	400	368	..	..	
11	..	..	Hospital Contributions and A.O.F.P.F. ..	44	40	38	4	..	
13	..	..	Expenses of Conferences .. .. .	1,230	1,230	1,031	..	..	
18	..	..	Rents .. .. .	520	530	473	..	10	
26	..	..	Insurance .. .. .	235	230	226	5	..	
29	..	..	Posts and Telegraphs Services .. ..	600	600	480	..	..	
30	..	..	Printing and Stationery .. .. .	250	250	248	..	..	
			Total Annually Recurrent .. .. £	19,978	20,667	20,480			
			TOTAL (1) ADMINISTRATIVE HEAD- QUARTERS .. .. . £	46,422	46,725	45,318	1,407	1,710	
			NET DECREASE—£303						
			(2) LOCUST SURVEY TEAMS						
			PERSONAL EMOLUMENTS						
1	2	2	*Area Field Officers, C.2-1 .. ..	3,231	3,049	..	182	..	a, c
2	3	3	Research Officers, C.R.S. .. ..	4,959	4,788	..	171	..	a
3	5	5	*Senior Field Officers, C.3-2 .. ..	7,128	6,843	..	285	..	a, c
4	1	1	*Accounts Officer Grade I, C.4-3 ..	1,194	1,153	..	41	..	a
5	1	1	Senior Pilot, C.3-2 .. .. .	1,257	1,215	..	42	..	a
6	2	2	*Pilots, C.5-3 .. .. .	1,995	1,981	..	14	..	a
7	1	1	*Pilot (Engineer), C.5-3 .. .. .	1,072	992	..	80	..	a
8	4	4	*Transport Officers, C.4-3 .. .. .	5,106	4,938	..	168	..	a
9	1	1	*Technical Officer, C.5-3 .. .. .	1,268	1,225	..	43	..	a
10	19	19	*Field Officers, C.5-3 .. .. .	20,795	20,001	..	794	..	a, 2s, c
11	..	..	Mechanics .. .. .	4,378	4,254	..	124	..	a
12	..	..	*Clerks .. .. .	2,270	1,947	..	323	..	a
13	..	..	*Drivers .. .. .	6,472	6,444	..	28	..	a
14	..	..	Subordinate Staff .. .. .	14,369	14,263	..	106	..	a
15	..	..	Personal Allowances .. .. .	2,536	2,536	..	..	..	
16	..	..	Pension Contributions, C.R.S. .. ..	1,099	1,059	..	40	..	
17	..	..	Leave Pay .. .. .	368	..	..	368	..	
18	..	..	Gratuities .. .. .	352	823	..	..	471	
19	..	..	Annuity Policy Premiums .. .. .	851	..	..	851	..	
	39	39	Total Personal Emoluments .. .. £	80,700	77,511	76,127			

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 8—DESERT LOCUST SURVEY—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	26,600	28,292	25,237	..	1,692	
3	..	..	Incidental Expenses .. .. .	1,900	2,400	1,546	..	500	
4	..	..	Staff Housing and Allowances .. .. .	5,020	3,979	3,487	1,041	..	
5	..	..	Common Services .. .. .	19,633	19,784	20,941	..	151	l
6	..	..	Equipment and Supplies .. .. .	5,900	5,530	6,079	370	..	
7	..	..	Maintenance of Buildings and Estate .. .. .	1,650	1,850	1,438	..	200	
8	..	..	Maintenance of M/V and Boats .. .. .	12,550	12,596	12,116	..	46	
9	..	..	Maintenance of Plant and Equipment .. .. .	1,280	1,281	1,100	..	1	
10	..	..	Essential Services .. .. .	1,060	1,180	951	..	120	
11	..	..	Hospital Contributions and A.O.F.P.F. .. .. .	24	32	13	..	8	
16	..	..	Operation of Aircraft .. .. .	10,225	10,225	5,296	..	..	
18	..	..	Rents .. .. .	724	724	619	..	..	
19	..	..	Victualling .. .. .	6,000	6,094	5,581	..	94	
25	..	..	Insecticides .. .. .	4,000	4,000	..	..	..	
26	..	..	Insurance .. .. .	6,150	5,317	2,797	833	..	
29	..	..	Posts and Telegraphs Services .. .. .	740	740	674	..	..	
30	..	..	Printing and Stationery .. .. .	420	427	321	..	7	
37	..	..	Entertainment Allowance .. .. .	200	200	200	..	..	
			Total Annually Recurrent .. .. .	£ 104,076	104,651	88,396			
			Total Personal Emoluments .. .. .	£ 80,700	77,511	76,127			
			Total Recurrent .. .. .	£ 184,776	182,162	164,523	5,904	3,290	
			(52) SPECIAL EXPENDITURE						
1	..	..	Staff Housing .. .. .	4,000	1	4,000	3,999	..	
2	..	..	Equipment .. .. .	..	6,090	2,895	..	6,090	
3	..	..	Furniture .. .. .	625	1,000	982	..	375	
4	..	..	Motor Vehicles .. .. .	20,734	20,781	..	..	47	
5	..	..	Communications Equipment .. .. .	3,050	..	..	3,050	..	
6	..	..	Office Equipment .. .. .	310	..	..	310	..	
7	..	..	Technical Equipment .. .. .	2,660	..	..	2,660	..	
			Total (52) Special Expenditure .. .. .	£ 31,379	27,872	7,877	10,019	6,512	
			(55) SPECIAL EXPENDITURE (SCHEME D.3861/R.1032)						
1	..	..	Buildings (Revote) .. .. .	1,500	..	..	1,500	..	w
2	..	..	Equipment (Revote) .. .. .	1,000	..	..	1,000	..	w
			Total (55) Special Expenditure .. .. .	£ 2,500	..	..	2,500	..	
			Total Recurrent .. .. .	£ 184,776	182,162	164,523	5,904	3,290	
			TOTAL (2) LOCUST SURVEY TEAMS .. .. .	£ 218,655	210,034	172,400	18,423	9,802	
			NET INCREASE—£8,621						

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 8—DESERT LOCUST SURVEY—(Contd.)

## II. DETAILS OF THE ESTIMATES—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(3) GENERAL						
1	..	..	Research Expenses .. .. .	4,000	4,000	3,122			
			TOTAL (3) GENERAL .. .. .	4,000	4,000	3,122			
			(4) CONTROL MEASURES						
1	..	..	Personal Emoluments .. .. .	36,000	..	..	36,000	..	
			Total Personal Emoluments .. .. .	36,000	..	..			
			OTHER CHARGES ANNUALLY RECURRENT						
5	..	..	Common Services .. .. .	5,460	..	..	5,460	..	
41	..	..	Operation and Maintenance of Motor Vehicles/Aircraft, including Transport and Travelling .. .. .	31,000	..	..	31,000	..	
42	..	..	Purchase of Insecticides including Con- tainers .. .. .	5,000	..	..	5,000	..	
43	..	..	Equipment .. .. .	6,600	..	..	6,600	..	
44	..	..	Buildings .. .. .	1,000	..	..	1,000	..	
45	..	..	Incidental Expenses including Staff Hous- ing, Essential Services, Rents, Victualling, Printing and Stationery, Posts and Tele- graphs Services, Insurance .. .. .	4,000	..	..	4,000	..	
46	..	..	Contingencies .. .. .	55,250	..	..	55,250	..	
			<i>Items not repeated</i> .. .. .	..	158,932	228,831	..	158,932	
			Total Annually Recurrent .. .. .	108,310	158,932	228,831			
			TOTAL (4) CONTROL MEASURES .. .. .	144,310	158,932	228,831	144,310	158,932	
			NET DECREASE—£14,622						
			TOTAL (1) ADMINISTRATIVE HEAD- QUARTERS .. .. .	46,422	46,725	45,318	1,407	1,710	
			TOTAL (2) LOCUST SURVEY TEAMS .. .. .	218,655	210,034	172,400	18,423	9,802	
			TOTAL (3) GENERAL .. .. .	4,000	4,000	3,122	..	..	
			TOTAL DESERT LOCUST SURVEY .. .. .	413,387	419,691	449,671	164,140	170,444	
			NET DECREASE—£6,304						

For explanation of notes other than x, see inside front cover.

### HEAD 8—DESERT LOCUST SURVEY

The Control element included in these figures is arrived at by calculating *pro rata* to the 1957-58 provision.

	£	£	£
The Revenue is provided as follows:—			
Cost of—			
(1) Administrative Headquarters .. .. .			46,422
(2) Locust Survey Teams (excluding Special Expenditure (55)) ..			216,155
(3) General .. .. .			4,000
			<u>266,577</u>
Less—			
Rents received .. .. .		1,425	
Sales and Miscellaneous Revenue .. .. .		1,500	
			<u>2,925</u>
			263,652
Less—Control element .. .. .			<u>93,397</u>
			170,255
Her Majesty's Government, 20% of Net Cost including Control element but excluding Insurance .. .. .		51,454	
Somaliland, 10% of Net Cost excluding Control element ..		17,026	
			<u>68,480</u>
Balance divided—			101,775
Kenya .. .. .	53,050		
Tanganyika .. .. .	26,525		
Uganda (fixed) .. .. .	22,200		
			<u>101,775</u>
Cost of Special Expenditure (55)—			2,500
Her Majesty's Government 20% .. .. .		500	
High Commission Fund .. .. .		2,000	
			<u>2,500</u>
Cost of Control Measures—			
Recurrent Cost (1), (2) and (3) .. .. .			93,397
Control Measures—Special Expenditure .. .. .			144,310
			<u>237,707</u>
Divided—			
Her Majesty's Government .. .. .	30,000		
Somaliland .. .. .	25,000		
Sales and Miscellaneous Revenue .. .. .	5,000		
Balance—			
Kenya .. .. .	133,534		
Tanganyika .. .. .	44,173		
			<u>237,707</u>
<b>Summary</b>			
	Survey	Control	Total
	£	£	£
Her Majesty's Government .. .. .	51,954	30,000	81,954
Kenya .. .. .	53,050	133,534	186,584
Tanganyika .. .. .	26,525	44,173	70,698
Uganda .. .. .	22,200	—	22,200
Somaliland .. .. .	17,026	25,000	42,026
Rents Received .. .. .	1,425	—	1,425
Sales and Miscellaneous Revenue .. .. .	1,500	5,000	6,500
High Commission Fund .. .. .	2,000	—	2,000
	<u>175,680</u>	<u>237,707</u>	<u>413,387</u>

**HEAD 9—EAST AFRICAN MARINE FISHERIES RESEARCH  
ORGANIZATION****Research Programme, 1960/1961**

NOTE.—The programme printed below was recommended to the East African Agricultural and Fisheries Research Council by the Marine Fisheries Research Co-ordinating Committee. The Council endorsed the programme at its 13th meeting in January, 1960.

## 1. THE DEEP SEA FISHERIES

Long-line fishing to continue.

## 2. INSHORE ESTUARINE FISHERIES OF TANGANYIKA

Investigation into the prawn fisheries to continue.

## 3. THE FISHERIES OFF THE NORTH KENYA COAST

The survey of the area to be continued.

## 4. INVESTIGATION OF SHOAL FISHES

## 5. HYDROLOGICAL INVESTIGATIONS

Continuation of hydrological work in connexion with the above projects.

Continued investigation of the productivity of the sea in the whole area.

## 6. ANCILLIARY INVESTIGATIONS

(a) Surface trolling.

(b) Systematic and advisory work.

## EXPENDITURE

## HEAD 9—EAST AFRICAN MARINE FISHERIES RESEARCH ORGANIZATION

## I. ESTIMATE of the amount required in the year ending 30th June, 1961.

Thirty-six thousand, seven hundred and three pounds.  
(£36,703)

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
<b>1</b>			<b>PERSONAL EMOLUMENTS</b>						
1	1	1	Director (C.R.S.) .. .. .	2,241	2,500	..	..	259	
2	4	4	Research Officers (C.R.S.) .. .. .	5,660	5,568	..	92	..	a
3	1	1	Master .. .. .	1,717	1,672	..	45	..	a
4	1	1	Mate .. .. .	605	605	..	..	..	
5	2	2	Engineers .. .. .	1,484	1,409	..	75	..	a
6	2	2	*Clerks .. .. .	1,335	1,293	..	42	..	a
7	3	4	Assistant Engineers .. .. .	533	362	..	171	..	a
8	..	2	Laboratory Assistants .. .. .	210	..	..	210	..	d
9	1	1	Coxswain .. .. .	282	258	..	24	..	a
10	8	9	Seamen S.S. .. .. .	1,071	952	..	119	..	a
11	..	..	Subordinate Staff .. .. .	530	722	..	..	192	
12	..	..	Personal Allowances .. .. .	..	81	..	..	81	
13	..	..	Pension Contributions (C.R.S.) .. .. .	1,198	1,429	..	..	231	
14	..	..	Gratuities .. .. .	897	927	..	..	30	
15	..	..	Relief Master .. .. .	600	..	..	600	..	
	23	27	Total Personal Emoluments .. .. £	18,363	17,778	14,182			
			<b>OTHER CHARGES ANNUALLY RECURRENT</b>						
2	..	..	Transport and Travelling .. .. .	1,250	250	343	1,000	..	q
3	..	..	Incidental Expenses .. .. .	50	50	34	..	..	
4	..	..	Staff Housing and Allowances .. .. .	300	200	227	100	..	
5	..	..	Common Services .. .. .	2,525	1,987	1,768	538	..	l
6	..	..	Equipment and Supplies .. .. .	1,000	300	475	700	..	
7	..	..	Maintenance of Buildings and Estate .. .. .	250	50	85	200	..	
8	..	..	Maintenance of M/V and Boats .. .. .	5,900	3,500	7,726	2,400	..	q
9	..	..	Maintenance of Plant and Equipment .. .. .	50	60	7	..	10	
10	..	..	Essential Services .. .. .	200	125	154	75	..	
12	..	..	Library .. .. .	125	100	101	25	..	q
13	..	..	Expenses of Conferences .. .. .	50	30	8	20	..	
14	..	..	Uniforms .. .. .	135	145	121	..	10	
19	..	..	Victualling .. .. .	740	900	976	..	160	
20	..	..	Fees, Rewards and Contributions .. .. .	300	..	..	300	..	
21	..	..	Publications .. .. .	100	50	83	50	..	
26	..	..	Insurance of Vessels .. .. .	1,650	1,800	1,344	..	150	v
29	..	..	Post and Telegraph Services .. .. .	70	70	49	..	..	
30	..	..	Printing and Stationery .. .. .	125	125	158	..	..	
			Total Annually Recurrent .. .. £	14,820	9,742	13,659			
			TOTAL RECURRENT .. .. £	33,183	27,520	27,841			
			NET INCREASE—£5,663						

For explanation of notes other than x, see inside front cover.



### HEAD 9—E.A. MARINE FISHERIES RESEARCH ORGANIZATION

The Revenue is provided as follows:—

		£	£	£
Special Expenditure .. .. .				3,520
Her Majesty's Government	75%		2,640	
East African Governments	25%	880		
Divided—				
Kenya .. .. .	32.8%		289	
Tanganyika .. .. .	32.8%		289	
Uganda .. .. .	31.0%		273	
Zanzibar .. .. .	3.4%		29	
			880	3,520
Recurrent .. .. .				33,183
Less—				
Rents received .. .. .			306	
Sales and Miscellaneous Revenue .. .. .			150	
			456	
				32,727
Her Majesty's Government	30%		9,818	
East African Governments	70%	22,909		
Divided—				
Kenya .. .. .	32.8%		7,514	
Tanganyika .. .. .	32.8%		7,514	
Uganda .. .. .	31.0%		7,102	
Zanzibar .. .. .	3.4%		779	
			22,909	32,727
<b>Summary</b>				
			£	
Her Majesty's Government .. .. .			12,458	
Kenya .. .. .			7,803	
Tanganyika .. .. .			7,803	
Uganda .. .. .			7,375	
Zanzibar .. .. .			808	
Rents Received .. .. .			306	
Sales and Miscellaneous Revenue .. .. .			150	
			£36,703	
Total .. .. .				



## EXPENDITURE

## HEAD 10—LAKE VICTORIA FISHERIES SERVICE

## I. ESTIMATE of the amount required in the year ending 30th June, 1961.

**Four thousand, nine hundred and eleven pounds.  
(£4,911)**

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			<b>(1) HEADQUARTERS</b>						
			PERSONAL EMOLUMENTS						
1	1	1	*Chief Fisheries Officer .. .. .	1	2,300	..	..	2,299	
2	..	1	*Fisheries Officer, C.3 .. .. .	1	..	..	1	..	
3	1	..	*Maintenance Superintendent, C.5-3 .. .. .	..	1,425	..	..	1,425	
4	..	..	Clerical Assistance (Part-time) .. .. .	..	452	..	..	452	
5	1	..	*Artisans, E.2-1 .. .. .	..	618	..	..	618	
6	..	..	Leave Pay .. .. .	3,317	..	..	3,317	..	
7	..	..	Gratuities .. .. .	141	324	..	..	183	
	3	2	Total Personal Emoluments .. .. .£	3,460	5,119	18,479			
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	120	180	1,538	..	60	
3	..	..	Incidental Expenses .. .. .	25	25	67	..	..	
4	..	..	Staff Housing and Allowances .. .. .	..	30	244	..	30	
5	..	..	Common Services .. .. .	1,306	2,884	5,201	..	1,578	l
6	..	..	Equipment and Supplies .. .. .	..	400	634	..	400	
7	..	..	Maintenance of Buildings and Estates .. .. .	..	500	293	..	500	
9	..	..	Maintenance of Plant and Equipment .. .. .	..	70	102	..	70	
10	..	..	Essential Services .. .. .	..	80	127	..	80	
11	..	..	Hospital Contributions and A.O.F.P.F. .. .. .	..	12	..	..	12	
12	..	..	Library .. .. .	..	14	32	..	14	
13	..	..	Expenses of Conferences .. .. .	..	75	7	..	75	
18	..	..	Rents .. .. .	..	186	349	..	186	
20	..	..	Fees, Rewards and Contributions .. .. .	..	85	245	..	85	
29	..	..	Posts and Telegraphs Services .. .. .	..	130	255	..	130	
30	..	..	Printing and Stationery .. .. .	..	200	353	..	200	
			Items not repeated .. .. .	..	..	2,093	..	..	
			Total Annually Recurrent .. .. .£	1,451	4,871	11,540			
			Total Recurrent .. .. .£	4,911	9,990	30,019			
			(51) Special Expenditure						
			Items not repeated .. .. .	..	..	3,940	..	..	
			TOTAL (1) HEADQUARTERS .. .. .£	4,911	9,990	33,959	3,318	8,397	
			NET DECREASE—£5,079						

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 10—LAKE VICTORIA FISHERIES SERVICE—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(2) Kenya Unit						
1			Personal Emoluments						
1	1	..	*Fisheries Officer .. .. .	..	1,341	..	..	1,341	
2	1	..	*Clerk, E.6-5 .. .. .	..	156	..	..	156	
3	1	..	*Artisan, E.6-5 .. .. .	..	180	..	..	180	
4	1	..	*Coxswain, E.6-3 .. .. .	..	188	..	..	188	
5	2	..	Deckhands, S.S. .. .. .	..	185	..	..	185	
6	1	..	*Fisheries Assistant, E.6-5 .. .. .	..	180	..	..	180	
7	5	..	Senior Fish Guards, S.S. .. .. .	..	487	..	..	487	
8	20	..	Fish Guards, S.S. .. .. .	..	1,688	..	..	1,688	
9	..	..	Subordinate Staff, S.S. .. .. .	..	324	..	..	324	
	32	..	Total Personal Emoluments .. .. .	..	4,729	..			
			Other Charges Annually Recurrent						
2	..	..	Transport and Travelling .. .. .	..	530	..	..	530	
3	..	..	Incidental Expenses .. .. .	..	25	..	..	25	
4	..	..	Staff Housing and Allowances .. .. .	..	139	..	..	139	
5	..	..	Common Services .. .. .	..	1,045	..	..	1,045	
6	..	..	Equipment and Supplies .. .. .	..	60	..	..	60	
8	..	..	Maintenance of M/V and Boats .. .. .	..	350	..	..	350	
14	..	..	Uniforms .. .. .	..	110	..	..	110	
18	..	..	Rents .. .. .	..	24	..	..	24	
29	..	..	Posts and Telegraphs Services .. .. .	..	25	..	..	25	
30	..	..	Printing and Stationery .. .. .	..	10	..	..	10	
			Total Annually Recurrent .. .. .	..	2,318	..			
			Total (2) Kenya Unit .. .. .	..	7,047	..	..	7,047	

## EXPENDITURE

## HEAD 10—LAKE VICTORIA FISHERIES SERVICE—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(3) <i>Tanganyika Unit</i>						
1			<i>Personal Emoluments</i>						
1	2	..	*Fisheries Officers, 1 C.1, 1 C.5-3 .. ..	..	2,847	..	..	2,847	
2	1	..	*Clerk, E.6-5 .. ..	..	180	..	..	180	
3	1	..	*Artisan, E.6-5 .. ..	..	180	..	..	180	
4	1	..	*Coxswain, E.6-3 .. ..	..	187	..	..	187	
5	2	..	Deckhands, S.S. .. ..	..	195	..	..	195	
6	1	..	*Fisheries Assistant, E.5 .. ..	..	180	..	..	180	
7	4	..	Senior Fish Guards, S.S. .. ..	..	311	..	..	311	
8	16	..	Fish Guards, S.S. .. ..	..	1,186	..	..	1,186	
9	..	..	Subordinate Staff, S.S. .. ..	..	194	..	..	194	
	28	..	<i>Total Personal Emoluments</i> .. .. £	..	5,460	..			
			<i>Other Charges Annually Recurrent</i>						
2	..	..	Transport and Travelling .. ..	..	400	..	..	400	
3	..	..	Incidental Expenses .. ..	..	50	..	..	50	
4	..	..	Staff Housing and Allowances .. ..	..	68	..	..	68	
5	..	..	Common Services .. ..	..	1,438	..	..	1,438	
6	..	..	Equipment and Supplies .. ..	..	60	..	..	60	
8	..	..	Maintenance of M/V and Boats .. ..	..	475	..	..	475	
14	..	..	Uniforms .. ..	..	85	..	..	85	
18	..	..	Rents .. ..	..	165	..	..	165	
20	..	..	Fees, Rewards and Contributions .. ..	..	35	..	..	35	
29	..	..	Posts and Telegraphs Services .. ..	..	70	..	..	70	
30	..	..	Printing and Stationery .. ..	..	30	..	..	30	
			<i>Total Annually Recurrent</i> .. .. £	..	2,876	..			
			<i>Total (3) Tanganyika Unit</i> .. .. £	..	8,336	..	..	8,336	

## EXPENDITURE

## HEAD 10—LAKE VICTORIA FISHERIES SERVICE—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(4) Uganda Unit						
			Personal Emoluments						
1	1	..	*Fisheries Officers, A.3-1 .. .. .	..	1,385	..	..	1,385	
2	1	..	*Clerk, E.6-5 .. .. .	..	180	..	..	180	
3	1	..	*Artisan, E.6-5 .. .. .	..	180	..	..	180	
4	1	..	*Coxswain, E.5 .. .. .	..	180	..	..	180	
5	2	..	Deckhands, S.S. .. .. .	..	170	..	..	170	
6	1	..	*Fisheries Assistant, E.6-5 .. .. .	..	130	..	..	130	
7	4	..	Senior Fish Guards, S.S. .. .. .	..	443	..	..	443	
8	16	..	Fish Guards, S.S. .. .. .	..	1,312	..	..	1,312	
9	..	..	Subordinate Staff, S.S. .. .. .	..	171	..	..	171	
	27	..	Total Personal Emoluments .. .. .£	..	4,151	..			
			Other Charges Annually Recurrent						
2	..	..	Transport and Travelling .. .. .	..	400	..	..	400	
3	..	..	Incidental Expenses .. .. .	..	50	..	..	50	
4	..	..	Staff Housing and Allowances .. .. .	..	24	..	..	24	
5	..	..	Common Services .. .. .	..	1,044	..	..	1,044	
6	..	..	Equipment and Supplies .. .. .	..	60	..	..	60	
8	..	..	Maintenance of M/V and Boats .. .. .	..	475	..	..	475	
14	..	..	Uniforms .. .. .	..	85	..	..	85	
20	..	..	Fees, Rewards and Contributions .. .. .	..	25	..	..	25	
29	..	..	Posts and Telegraphs Services .. .. .	..	70	..	..	70	
30	..	..	Printing and Stationery .. .. .	..	25	..	..	25	
			Total Annually Recurrent .. .. .£	..	2,258	..			
			Total (4) Uganda Unit .. .. .£	..	6,409	..	..	6,409	
			TOTAL (1) HEADQUARTERS .. .. .£	4,911	9,990	33,959	3,318	8,397	
			Total (2) Kenya Unit .. .. .£	..	7,047	..	..	7,047	
			Total (3) Tanganyika Unit .. .. .£	..	8,336	..	..	8,336	
			TOTAL LAKE VICTORIA FISHERIES SERVICE .. .. .£	4,911	31,782	33,959	3,318	30,189	
			NET DECREASE—£26,871						

## HEAD 10—LAKE VICTORIA FISHERIES SERVICE

The Revenue is provided as follows:—

								£	£
Headquarters	..	..	..	..	..	..	..		4,911
Divided—									
Kenya	..	..	..	1/3rd	..	..	..	1,637	
Tanganyika	..	..	..	1/3rd	..	..	..	1,637	
Uganda	..	..	..	1/3rd	..	..	..	1,637	
								<u>          </u>	<u>4,911</u>

**HEAD 11—E.A. LEPROSY RESEARCH CENTRE****Research Programme, 1960/61**

As other infections are being brought under control leprosy may soon be recognized as one of the major problems in this field. Though one of the first diseases in which infecting organisms were recognized under the microscope, the background of knowledge is notable for its gaps. The unusual behaviour of the organism has contributed considerably to this.

2. Therapy is slow as compared to other diseases. Animal inoculation experiments have shown it is possible to infect certain animals under conditions which are not yet clearly understood. Therapeutic trials involving human beings still remain necessary. In addition such trials by showing what compounds have effects in leprosy and the study of their metabolites may point the way to a clearer understanding of the nutritional needs of the bacteria and thus help in the development of culture media as well as to the development of better methods of treatment. The East African Leprosy Research Centre has been developed to provide facilities for such trials.

3. Three workers have successfully infected animals with human leprosy. Other places are trying to repeat their results. If such experiments can be repeated the whole outlook will be revolutionized, and the work at Alupe would have to be reorientated. The importance of this does not need stressing here. If developments justify it, I will be only too pleased to take up the offer of the Director of the East African Trypanosomiasis Research Organization made last year to make use of his animal breeding facilities.

4. It is hoped to carry out more field work. The Kenya Government have provided a health inspector at Alupe. Development of outside clinics and greater contacts with the local population should enable accurate statistics to be collected and certain important factors studied. It may even be possible to get a more accurate idea of population ages and trace contacts.

5. Mr. Ellard will complete his second year's work as a biochemist in November, 1960. He has carried forward previous work done on SU 1906 and may soon reach definite conclusions. Radio-active tracer studies of the drug and of the uptake by other bacilli are being developed in conjunction with Dr. Naylor of Makerere College. Closer study of Etisul will be attempted. This work may prove unrewarding without radio-active isotopes as the drug quickly breaks down into substances closely allied to normal metabolic products.

6. Finally I must refer again to the way in which leprosy is becoming of greater relative importance. Research workers skilled in other disciplines are investigating the problems of leprosy. Many finding progress is slow, easily lose heart, however those who remain may at any time find a promising line in an hitherto unexpected direction. One must therefore be willing to develop almost any line.

## EXPENDITURE

## HEAD 11—EAST AFRICAN LEPROSY RESEARCH CENTRE

## I. ESTIMATE of the amount required in the year ending 30th June, 1961.

**Ten thousand, one hundred and seventy-nine pounds.  
(£10,179)**

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	*59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
<b>1</b>			<b>PERSONAL EMOLUMENTS</b>						
1	1	1	Director .. .. .	2,400	2,400	..	..	..	
2	1	1	*Laboratory Technician, C.5-2 .. .. .	1,566	1,566	..	..	..	
3	1	1	*Personal Secretary Grade II .. .. .	534	513	..	21	..	a
4	3	3	*Laboratory Assistants, 1 E.4-3, 2 E.6-5 .. .. .	433	417	..	16	..	a
5	1	1	*Clerk, E.4-1 .. .. .	240	188	..	52	..	p, t
6	2	2	*Drivers, E.6-5 .. .. .	346	345	..	1	..	a
7	..	..	Subordinate Staff S.S. .. .. .	350	300	..	50	..	
8	..	..	Personal Allowances .. .. .	22	30	..	..	8	
9	..	..	<i>Provident Fund</i> .. .. .	..	13	..	..	13	
10	..	..	Gratuities .. .. .	78	51	..	27	..	
	9	9	Total Personal Emoluments .. .. .£	5,969	5,823	5,916			
			<b>OTHER CHARGES ANNUALLY RECURRENT</b>						
2	..	..	Transport and Travelling .. .. .	550	750	541	..	200	v
3	..	..	Incidental Expenses .. .. .	40	60	32	..	20	
5	..	..	Common Services .. .. .	1,469	2,580	1,691	..	1,111	l
6	..	..	Equipment and Supplies .. .. .	600	740	567	..	140	
7	..	..	Maintenance of Buildings and Estate .. .. .	200	125	189	75	..	e
8	..	..	Maintenance of M/V and Boats .. .. .	300	300	300	..	..	
9	..	..	Maintenance of Plant and Equipment .. .. .	175	175	163	..	..	
10	..	..	Essential Services .. .. .	450	200	445	250	..	e
12	..	..	Library .. .. .	125	75	124	50	..	e
14	..	..	Uniforms .. .. .	50	50	6	..	..	
23	..	..	Expenses of Visiting Scientists .. .. .	1	1	17	..	..	f
29	..	..	Posts and Telegraphs Services .. .. .	100	150	74	..	50	v
30	..	..	Printing and Stationery .. .. .	150	150	90	..	..	
			<i>Items not repeated</i> .. .. .	..	..	417			
			Total Annually Recurrent .. .. .£	4,210	5,356	4,656			
			Total Recurrent .. .. .£	10,179	11,179	10,572	542	1,542	
			NET DECREASE—£1,000						
			(51) <i>Special Expenditure</i>						
			<i>Items not repeated</i> .. .. .	..	..	1,298	..	..	
			TOTAL E.A. LEPROSY RESEARCH CENTRE	10,179	11,179	11,870	542	1,542	
			NET DECREASE—£1,000						

For explanation of notes other than x, see inside front cover.

## HEAD 11—EAST AFRICAN LEPROSY RESEARCH CENTRE

The Revenue is provided as follows:—

	£	£
Total Cost .. .. .		10,179
B.L.R.A. .. .. .	4,000	
Rents received .. .. .	180	
Sales and Miscellaneous Revenue .. .. .	60	
	<u>          </u>	4,240
		<u>5,939</u>
Balance divided—		
Kenya .. .. .	1,980	
Tanganyika .. .. .	1,979	
Uganda .. .. .	1,980	
	<u>          </u>	<u>5,939</u>



## EXPENDITURE

## HEAD 12—EAST AFRICAN LITERATURE BUREAU

## I. ESTIMATE of the amount required in the year ending 30th June, 1961.

**Forty-two thousand, four hundred and eighty-six pounds.  
(£42,486)**

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
<b>1</b>			<b>PERSONAL EMOLUMENTS</b>						
1	1	1	*Director .. .. .	2,700	2,700	..	..	..	
2	..	1	*Senior Production Officer, C.1 .. .. .	1,647	..	..	1,647	..	<i>g</i>
3	2	1	*Branch Officer, C.4-3 .. .. .	1,191	2,731	..	..	1,540	
4	3	3	*Librarians, B.5-3 .. .. .	2,736	2,870	..	..	134	
5	1	1	*Artist, B.5-3 .. .. .	1,329	1,329	..	..	..	
6	1	1	*Production Secretary, C.4-3 .. .. .	1,198	1,115	..	83	..	<i>a, c</i>
7	1	1	*Personal Secretary Grade II .. .. .	879	879	..	..	..	
8	1	..	*Secretary/Stenographer .. .. .	..	618	..	..	618	<i>k</i>
9	4	3	*Translators/Readers, 1 E.2-1, 2 E.4-3 .. .. .	970	1,066	..	..	96	<i>k, g</i>
10	15	18	*Clerks, 14 E.4-1, 4 E.6-5 .. .. .	4,178	3,188	..	990	..	
11	2	3	*Drivers, E.6-5 .. .. .	461	360	..	101	..	<i>d</i>
12	..	4	Subordinate Staff .. .. .	330	550	..	..	220	<i>o</i>
13	..	..	Gratuities .. .. .	88	233	..	..	145	
14	..	..	Leave Pay .. .. .	..	91	..	..	91	
	31	37	Total Personal Emoluments .. .. .£	17,707	17,730	16,830			
			<b>OTHER CHARGES ANNUALLY RECURRENT</b>						
2	..	..	Transport and Travelling .. .. .	1,300	1,300	1,298	..	..	
3	..	..	Incidental Expenses .. .. .	150	225	143	..	75	
4	..	..	Staff Housing and Allowances .. .. .	1,445	1,343	1,097	102	..	
5	..	..	Common Services .. .. .	8,619	6,829	8,832	1,790	..	<i>l</i>
6	..	..	Equipment and Supplies .. .. .	23	23	28	..	..	
7	..	..	Maintenance of Buildings .. .. .	380	380	288	..	..	
8	..	..	Maintenance of M/V and Boats .. .. .	150	350	338	..	200	
10	..	..	Essential Services .. .. .	275	200	265	75	..	<i>q</i>
11	..	..	Hospital Contributions .. .. .	8	12	26	..	4	
12	..	..	Library .. .. .	20	24	19	..	4	
13	..	..	Expenses of Conferences .. .. .	150	150	125	..	..	
15	..	..	Training Courses .. .. .	9	9	5	..	..	
18	..	..	Rents .. .. .	3,650	3,103	3,096	547	..	
21	..	..	Publications .. .. .	..	300	..	..	300	
24	..	..	Purchase and Maintenance of Books .. .. .	1,000	3,000	2,262	..	2,000	
29	..	..	Posts and Telegraphs Services .. .. .	1,200	1,100	1,086	100	..	
30	..	..	Printing and Stationery .. .. .	500	500	707	..	..	
			Total Annually Recurrent .. .. .£	18,879	18,848	19,615			
			Total Recurrent .. .. .£	36,586	36,578	36,445			
			NET INCREASE—£8						

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 12—EAST AFRICAN LITERATURE BUREAU—(Contd.)

## DETAILS OF THE ESTIMATES—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(51) SPECIAL EXPENDITURE						
1	..	..	Library Book Boxes .. .. .	50	100	73	..	50	
2	..	..	Furniture and Equipment .. .. .	350	150	196	200	..	
3	..	..	Motor Vehicles .. .. .	1,500	..	..	1,500	..	
			Total Special Expenditure (51) .. £	1,900	250	269			
			(52) SPECIAL EXPENDITURE (SCHEME D.848 B)						
1	..	..	Staff Housing (Revote) .. .. .	4,000	..	..	4,000	..	w
			TOTAL SPECIAL EXPENDITURE (52) .. £	4,000	..	..			
			TOTAL E.A. LITERATURE BUREAU .. £	42,486	36,828	36,714	11,135	5,477	
			NET INCREASE—£5,658						

For explanation of notes other than x, see inside front cover.

## HEAD 12—EAST AFRICAN LITERATURE BUREAU

The Revenue is provided as follows:—

					£	£	£
Special Expenditure (51) .. .. .					..		1,900
Her Majesty's Government	75%	..	..	..	..	1,425	
East African Governments	25%	..	..	..	475		
Divided—							
Zanzibar 2% .. .. .					9		
Kenya .. .. .					156		
Tanganyika .. .. .					155		
Uganda .. .. .					155		
					—	475	
						—	1,900
Recurrent .. .. .							36,586
Less—Rents received .. .. .						918	
Miscellaneous Revenue .. .. .						250	
						—	1,168
							35,418
Her Majesty's Government	30%	..	..	..	..	10,625	
East African Governments	70%	..	..	..	24,793		
Divided—							
Zanzibar 2% .. .. .					495		
Kenya .. .. .					8,099		
Tanganyika .. .. .					8,099		
Uganda .. .. .					8,100		
					—	24,793	
						—	35,418
Special Expenditure (52) .. .. .							4,000
Her Majesty's Government 100% .. .. .							4,000

## Summary

					£
Her Majesty's Government	..	..	..	..	16,050
Kenya .. .. .	..	..	..	..	8,255
Tanganyika .. .. .	..	..	..	..	8,254
Uganda .. .. .	..	..	..	..	8,255
Zanzibar .. .. .	..	..	..	..	504
Rents .. .. .	..	..	..	..	918
Miscellaneous Revenue .. .. .	..	..	..	..	250
					—
Total .. .. .	..	..	..	..	<u>£42,486</u>

## HEAD 13—E.A. INSTITUTE OF MALARIA AND VECTOR-BORNE DISEASES

### Research Programme, 1960/61

In the *Pare Continuation Scheme* it is proposed, thanks to the assistance of the World Health Organization, to continue residual spraying of the area. This will involve the continuation also of routine catches of anopheline vectors (now only *Anopheles gambiae*) in houses and out of doors, and of the search for any appearance of resistance to insecticides in this species.

If the necessary professional staff becomes available, it is also hoped to extend the observations that have already been initiated into the behaviour of *A. gambiae* in relation to treated houses.

Under this umbrella of continued residual spraying, the efforts to establish a system of scouting for infected people will be pursued, with the double object of assessing the practicability of such scouting methods under the prevailing African conditions, and of assisting in the elimination of the residual amount of malaria transmission in the area. These regular scouting rounds will be supported by surveys of population groups in the area, and it is intended to maintain, so far as the staff available will permit, collection of vital statistics in the selected localities.

With regard to the biology of *A. gambiae* it is proposed to extend the studies that have gone on in the past in certain new directions. In the first place the analysis of host preference will be undertaken in areas in which the contact between and the proportions of men and cattle vary, through concurrent salivary gland dissections and precipitin tests of the blood meals. It is also hoped to examine the matter of choice of blood meal in a structure containing both man and cattle.

*Secondary vectors of malaria* will be sought for by means of gland dissections in different areas also, and the survival of possible vector species will be studied by means of age grouping techniques.

Similarly in the case of *A. funestus* the age composition of this species will be studied through ovarian changes.

Methods at present being elaborated for the *estimation of house-fly populations* will be applied in the field, in order to prove them, and provide a much needed means of assessing the response of flies to residual spraying. If, again, the staff position permits, it is hoped to investigate the biological relationships of other insect pests, such as fleas and bed bugs, in the house. This is an investigation that has at the present time very considerable political importance in connexion with residual spraying campaigns.

With regard to the studies that have been for some time in progress on the *toxic hazards of dieldrin* it should now be possible to extend these both in Pare, and in Zanzibar where some cases of intoxication have already occurred. In particular the assessment of human idiosyncrasy to this insecticide, and the value of urine examinations, will be further investigated.

It has been shown that there are various *chemical differences between animal species* that can comparatively easily be demonstrated by chromatographic methods, and the attempt will be made to apply such methods to the distinction of varieties or sub-species of anopheles. This will be applied in the first place to the *funestus* group, and also to *A. gambiae*, in whose case the distinction between fresh and brackish water forms has considerable relevance in Pemba.

The study of the *ecology of snail carriers* of bilharzia will be continued in the fish ponds at Korogwe. Some results already obtained here give promise of fruitful work in this direction. On the more practical side, essays in the biological control of anopheline and snail breeding in water impoundments, that have already been planned, in Uganda and Tanganyika, should be coming into operation. These will it is hoped give information both on economically feasible control methods and on the biological needs of the carriers concerned.

## EXPENDITURE

**HEAD 13—EAST AFRICAN INSTITUTE OF MALARIA  
AND VECTOR-BORNE DISEASES**

**I. ESTIMATE** of the amount required in the year ending 30th June, 1961.

**Forty-five thousand and twenty pounds.  
(£45,020)**

**II. DETAIL OF THE ESTIMATE**

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
<b>(I) INSTITUTE</b>									
<b>1</b>	..	..	PERSONAL EMOLUMENTS						
1	1	1	Director .. .. .	2,700	2,700	..	..	..	
2	1	..	Deputy Director .. .. .	..	2,400	..	..	2,400	k
3	3	3	Medical Research Officers (C.R.S.) ..	4,952	3,645	..	1,307	..	a
4	3	4	*Field Officers, C.5-3 .. .. .	4,467	3,495	..	972	..	a
5	1	1	*Malaria Engineer, A .. .. .	1,863	1,863	..	..	..	
6	1	1	*Maintenance Superintendent, C.5-3 ..	1,331	1,289	..	42	..	a
7	2	1	*Assistant Scientific Officer, B.5-2 ..	930	897	..	33	..	a, lk
8	1	..	*Office Superintendent, C.4-3 .. .. .	..	1,243	..	..	1,243	k
9	..	1	*Executive Officer, C.5-4 .. .. .	825	..	..	825	..	o, g
10	..	1	*Secretary Stenographer .. .. .	428	..	..	428	..	
11	2	2	*Clerks, 1 E.4-1, 1 E.6-5 .. .. .	486	564	..	..	78	
12	10	11	*Malaria Assistants, 5 E.4-3, 6 E.6-5 ..	1,887	1,687	..	200	..	
13	1	..	*Surveying Assistant, E.6-5 .. .. .	..	152	..	..	152	o, k
14	3	2	*Artisans, E.6-5 .. .. .	504	614	..	..	110	a, lk
15	1	1	*Clerk (Stores) E.6-5 .. .. .	166	162	..	4	..	a
16	1	1	*Overseer, E.6-5 .. .. .	163	162	..	1	..	a
17	..	..	Subordinate Staff S.S. .. .. .	3,700	1,980	..	1,720	..	
18	..	..	Labour .. .. .	1,400	1,200	..	200	..	
19	..	..	Pension Contributions (C.R.S.) .. .. .	1,749	1,391	..	358	..	
20	..	..	Gratuities .. .. .	63	778	..	..	715	
21	..	..	Leave Pay (Retiring Director) .. .. .	2,475	240	..	2,235	..	
	31	30	Total Personal Emoluments .. .. .	30,089	26,462	26,001			
<b>OTHER CHARGES ANNUALLY RECURRENT</b>									
2	..	..	Transport and Travelling .. .. .	2,950	2,500	2,641	450	..	
3	..	..	Incidental Expenses .. .. .	100	80	106	20	..	
5	..	..	Common Services .. .. .	6,921	5,168	5,010	1,753	..	l
6	..	..	Equipment and Supplies .. .. .	850	650	708	200	..	
7	..	..	Maintenance of Buildings and Estate ..	700	600	593	100	..	
8	..	..	Maintenance of M/V and Boats .. .. .	650	500	435	150	..	
9	..	..	Maintenance of Plant and Equipment ..	80	50	72	30	..	
10	..	..	Essential Services .. .. .	100	100	58	..	..	
12	..	..	Library .. .. .	300	300	241	..	..	
14	..	..	Uniforms .. .. .	100	100	64	..	..	
			Carried forward .. .. .	12,751	10,048	9,928	11,028	4,698	

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

HEAD 13—EAST AFRICAN INSTITUTE OF MALARIA  
AND VECTOR-BORNE DISEASES—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
			OTHER CHARGES ANNUALLY RECURRENT —(Contd.)	£	£	£	£	£	
			<i>Brought forward</i> ..	12,751	10,048	9,928	11,028	4,698	
15	..	..	Training Courses .. .. .	50	50	100	..	..	
21	..	..	Publications .. .. .	120	100	100	20	..	q
27	..	..	Field Experiments .. .. .	300	250	312	50	..	
29	..	..	Posts and Telegraphs Services .. .. .	260	260	259	..	..	
30	..	..	Printing and Stationery .. .. .	150	150	175	..	..	
			Total Annually Recurrent .. .. .£	13,631	10,858	10,874			
			Total Recurrent .. .. .£	43,720	37,320	36,875	11,098	4,698	
			(51) SPECIAL EXPENDITURE						
			Scheme 1959/64						
			£						
1	..	..	Equipment .. .. . 2,200	700	..	..	700	..	
2	..	..	Motor Vehicles .. .. . 1,500	..	..	..	..	..	
3	..	..	Junior Staff Housing .. .. . 900	600	..	..	600	..	
			Total Special Expenditure £ 4,600	1,300	..	..	1,300	..	
			(54) Special Expenditure Items not repeated .. .. .	..	..	1,942	..	..	
			TOTAL (1) INSTITUTE .. .. .£	45,020	37,320	38,817	12,398	4,698	
			NET INCREASE—£7,700						
			(2) Malaria Control (C.D. & W. Scheme R.856)						
			Personal Emoluments						
14	..	..	Leave Pay .. .. .	..	1,707	..	..	1,707	
			Items not repeated .. .. .	..	..	11,597	..	..	
			Total Personal Emoluments .. .. .£	..	1,707	11,597	..	..	
			Other Charges Annually Recurrent						
30	..	..	Printing and Stationery .. .. .	..	120	98	..	120	
			Items not repeated .. .. .	..	..	4,748	..	..	
			Total Annually Recurrent .. .. .£	..	120	4,846	..	..	
			Total (2) Malaria Control .. .. .£	..	1,827	16,443	..	1,827	
			NET DECREASE—£1,827						

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

HEAD 13—EAST AFRICAN INSTITUTE OF MALARIA  
AND VECTOR-BORNE DISEASES—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(3) <i>Malaria Control</i> (C.D. & W. Scheme R.1031)						
1	..	..	<i>Personal Emoluments</i>						
1	1	..	<i>Field Officer, C.5-3</i> .. .. .	..	1,215	..	..	1,215	
2	1	..	<i>Malaria Assistant, E.4-3</i> .. .. .	..	188	..	..	188	
3	..	..	<i>Subordinate Staff S.S.</i> .. .. .	..	1,196	..	..	1,196	
	2	..	<i>Total Personal Emoluments</i> .. .. £	..	2,599	..			
			<i>Other Charges Annually Recurrent</i>						
2	..	..	<i>Transport and Travelling</i> .. .. .	..	450	..	..	450	
5	..	..	<i>Common Services</i> .. .. .	..	373	..	..	373	
6	..	..	<i>Equipment and Supplies</i> .. .. .	..	200	..	..	200	
			<i>Total Annually Recurrent</i> .. .. £	..	1,023	..			
			<i>Total (3) Malaria Control Continuation Scheme</i> .. .. . £	..	3,622	..	..	3,622	
			NET DECREASE—£3,622						
			TOTAL (1) INSTITUTE .. .. . £	45,020	37,320	38,817	12,398	4,698	
			<i>Total (2) Malaria Control</i> .. .. . £	..	1,827	16,443	..	1,827	
			TOTAL E.A. INSTITUTE OF MALARIA AND VECTOR-BORNE DISEASES .. .. . £	45,020	42,769	55,260	12,398	10,147	
			NET INCREASE—£2,251						

### HEAD 13—EAST AFRICAN INSTITUTE OF MALARIA AND VECTOR-BORNE DISEASES

The Revenue is provided as follows:—

		(1) Institute		£	£	£
Special Expenditure	.. ..	.. ..	.. ..			1,300
Her Majesty's Government	.. ..	75%	.. ..		975	
Contributing Governments	.. ..	25%	.. ..	325		
Divided—						
Kenya	.. ..	8/26	.. ..	100		
Tanganyika	.. ..	8/26	.. ..	100		
Uganda	.. ..	8/26	.. ..	100		
Zanzibar	.. ..	1/26	.. ..	13		
Somaliland Protectorate	.. ..	1/26	.. ..	12		
				325		1,300
Recurrent	.. ..	.. ..	.. ..			43,720
Less—						
Rents received	.. ..	.. ..	.. ..		1,500	
Sales and Miscellaneous Revenue	.. ..	.. ..	.. ..		600	
Contribution from Tanganyika to Upkeep of Amani	.. ..	.. ..	.. ..		1,100	
					3,200	
						40,520
Her Majesty's Government	.. ..	30%	.. ..		12,156	
Contributing Governments	.. ..	70%	.. ..	28,364		
Divided—						
Somaliland Protectorate	.. ..	(1/26 or £600 maximum)		600		
Zanzibar	.. ..	(1/26 or £890 maximum)		890		
Kenya	.. ..	1/3 of balance		8,958		
Tanganyika	.. ..	1/3 of balance		8,958		
Uganda	.. ..	1/3 of balance		8,958		
				28,364		40,520
<b>Summary</b>						
Her Majesty's Government	.. ..	.. ..	.. ..		£	13,131
Kenya	.. ..	.. ..	.. ..			9,058
Tanganyika	.. ..	.. ..	.. ..			10,158
Uganda	.. ..	.. ..	.. ..			9,058
Zanzibar	.. ..	.. ..	.. ..			903
Somaliland Protectorate	.. ..	.. ..	.. ..			612
Rents received	.. ..	.. ..	.. ..			1,500
Sales and Miscellaneous Revenue	.. ..	.. ..	.. ..			600
						£45,020



## HEAD 14—E.A. INSTITUTE FOR MEDICAL RESEARCH

## Research Programme, 1960/61

## 1. GENERAL NUTRITIONAL AND METABOLIC STUDIES (Dr. McLaren, Dr. Lutz, Dr. Greaves and Mr. Read)

The part played by lipids (fats and related substances, including cholesterol and its esters) in metabolism, and as possible causal factors in diseases of the circulatory system, are claiming an increasing share of the interest both of biochemists and physicians. In general, it seems that the fat consumption of Africans is low: the nature and incidence of circulatory disease among Africans has been for some time the subject of investigation by physicians in East Africa, while the existence there of communities whose dietary habits and mode of life differ widely from one another offers possibly unique opportunities for investigations both of a clinical and biochemical nature.

The Institute now possesses facilities for work with radioactive tracers, for electrophoresis and for vapour-phase chromatography, all of which techniques are being widely used for various aspects of research on lipids. It is considered that increasing attention might well be paid to work on fat metabolism.

Nutritional problems of this kind cannot, of course, be considered in isolation, and it is not envisaged that studies on other aspects of metabolism should go by default. For instance, a quite different line of nutritional research is concerned with the problem of the nutritive value of crops grown under varying conditions (e.g. of soil, systems of cultivation, climate). It has often been suggested that these factors may alter the nutritive value of crops, for instance, their protein and amino acid content. The lines of approach to such a problem would be (a) animal feeding experiments, and (b) chemical analyses. Facilities for carrying out research in both these directions exist in the Institute.

## 2. NUTRITIONAL OPHTHALMOLOGY (Dr. D. S. McLaren) (C.D. &amp; W. Scheme R.1035) (United States Public Health Service Research Grant B-2190, 1960-62)

Dr. McLaren will continue his study of the effects of malnutrition on the eye by further animal experiments, clinical observations, and extension of nutrition and eye surveys to new areas. Additional equipment will be available under Scheme R.1035.

The United States Public Health Service has awarded a grant of \$87,225 over a period of three years, starting January, 1960 (No. B-2190, "Nutritional Ophthalmology Research in East Africa"). It is expected that this will help to make possible intensive investigation of the role of nutrition in the development of cataract, the refraction of the eye, and certain affections of the cornea and retina.

## 3. PARASITOLOGY (Dr. Jordan, Mr. McClelland, Mr. Webbe (Medical Department), Mr. Goatly)

The Schistosomiasis Research Team, which includes Dr. Jordan, Mr. McClelland and Mr. Webbe, has begun work. It will investigate the load of infection, immunity and other epidemiological questions. The cercarial content of natural waters and the ecology and bionomics of the snail vectors of *Schistosoma haematobium* in a hyper-endemic area will be studied. The ecology of *Biomphalaria* sp. will be investigated and molluscicide trials are planned. Laboratory studies on vector-parasite relationships which have a direct bearing on transmission of the disease will be carried out.

In addition, it is hoped that it will be possible to continue studies on the quantitative aspect of the transmission of infective larvae of *Wuchereria bancrofti* to the mammalian host.

## 4. PATHOLOGY (Dr. Moore)

Dr. Moore will return in early 1960, having completed the postgraduate course of Pathology at Hammersmith. He will establish a section of Pathology which will provide much needed facilities for the work of the Institute.

## EXPENDITURE

## HEAD 14—EAST AFRICAN INSTITUTE FOR MEDICAL RESEARCH

## I. ESTIMATE of the amount required in the year ending 30th June, 1961.

Sixty-three thousand, one hundred and ninety-one pounds.  
(£63,191)

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
<b>(1) INSTITUTE</b>									
<b>1</b>	..	..	<b>PERSONAL EMOLUMENTS</b>						
1	1	1	Director .. .. .	2,700	2,700	..	..	..	
2	6	5	Medical Research Officers (C.R.S.) ..	8,452	8,286	..	166	..	a, 1k,
3	2	2	*Health Visitors, N.5-4 .. .. .	1,618	2,169	..	..	551	a, c
4	1	1	*Office Superintendent, C.4-3 .. ..	1,341	1,341	..	..	..	
5	5	4	*Laboratory Technicians, C.5-2 .. ..	5,604	5,292	..	312	..	a, 1k,
6	1	1	*Personal Secretary Grade II .. .. .	836	803	..	33	..	a
7	1	1	*Storekeeper, C.5-4 .. .. .	846	762	..	84	..	a, q
8	4	3	*Clerks, 2 E.4-1, 1 E.6-5 .. .. .	999	1,149	..	..	150	a, 1k,
9	11	10	*Laboratory Assistants, 1 E.2-1, 4 E.4-3, 5 E.6-5 .. .. .	2,043	1,785	..	258	..	a, 1k,
10	1	1	*Senior Artisan, E.2-1 .. .. .	263	249	..	14	..	a
11	3	4	*Artisans, E.6-5 .. .. .	517	360	..	157	..	a, m
12	4	3	*Drivers, E.6-5 .. .. .	506	644	..	..	138	a, 1k,
13	..	4	*Nursing Orderlies, E.6-5 .. .. .	417	..	..	417	..	a, 4d,
14	..	..	Labour S.S. .. .. .	880	732	..	148	..	
15	..	..	Gratuities .. .. .	673	1,917	..	..	1,244	
16	..	..	Provident Fund Contributions .. .. .	25	38	..	..	13	
17	..	..	Pension Contributions (C.R.S.) .. ..	1,679	1,875	..	..	196	
	<b>40</b>	<b>40</b>	<b>Total Personal Emoluments .. .. £</b>	<b>29,399</b>	<b>30,102</b>	<b>23,803</b>			
<b>OTHER CHARGES ANNUALLY RECURRENT</b>									
2	..	..	Transport and Travelling .. .. .	1,650	1,650	1,528	..	..	
3	..	..	Incidental Expenses .. .. .	75	75	64	..	..	
4	..	..	Staff Housing and Allowances .. .. .	325	225	356	100	..	
5	..	..	Common Services .. .. .	7,671	7,810	6,295	..	139	l
6	..	..	Equipment and Supplies .. .. .	1,600	1,950	2,184	..	350	
7	..	..	Maintenance of Buildings and Estate ..	1,400	1,800	1,884	..	400	
			<i>Carried forward</i> .. .. £	<b>12,721</b>	<b>13,510</b>	<b>12,311</b>	<b>1,689</b>	<b>3,181</b>	

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 14—EAST AFRICAN INSTITUTE FOR MEDICAL RESEARCH—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			<b>OTHER CHARGES ANNUALLY RECURRENT</b> <i>—(Contd.)</i>						
			<i>Brought forward</i> .. £	<b>12,721</b>	13,510	12,311	1,689	3,181	
8	..	..	Maintenance of M/V and Boats .. ..	400	400	491	..	..	
9	..	..	Maintenance of Plant and Equipment ..	500	500	369	..	..	
10	..	..	Essential Services .. ..	1,000	1,000	1,115	..	..	
12	..	..	Library .. ..	400	450	401	..	50	
13	..	..	<i>Expenses of Conferences</i> .. ..	..	1	..	..	1	
14	..	..	Uniforms .. ..	100	75	124	25	..	q
15	..	..	<i>Training Courses</i> .. ..	..	70	233	..	70	
17	..	..	Purchase and Upkeep of Animals .. ..	200	200	174	..	..	
18	..	..	Rents .. ..	50	1	..	49	..	
19	..	..	Victualling .. ..	150	50	..	100	..	
21	..	..	Publications .. ..	150	200	103	..	50	
23	..	..	Expenses of Visiting Scientists .. ..	25	25	10	..	..	
29	..	..	Posts and Telegraphs Services .. ..	350	350	352	..	..	
30	..	..	Printing and Stationery .. ..	200	200	220	..	..	
31	..	..	<i>Entertainment Allowance</i> .. ..	..	1	..	..	1	
			<i>Items not repeated</i> .. ..	..	..	1	..	..	
			Total Annually Recurrent .. .. £	<b>16,246</b>	17,033	15,904			
			Total Recurrent .. .. £	<b>45,645</b>	47,135	39,707	1,863	3,353	
			(51) SPECIAL EXPENDITURE						
				Scheme 1959/64					
				£					
1	..	..	Motor Vehicles .. ..	4,000	2,000	..	2,000	..	
2	..	..	Equipment .. ..	3,000	1,000	..	1,000	..	
			Total Special Expenditure £	7,000	3,000	..	3,000	..	
			(55) Special Expenditure						
			<i>Items not repeated</i> .. .. £	..	..	1,259	..	..	
			TOTAL (I) INSTITUTE .. .. £	<b>48,645</b>	47,135	40,966	4,863	3,353	
			NET INCREASE—£1,510						

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 14—EAST AFRICAN INSTITUTE FOR MEDICAL RESEARCH—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			<b>(2) SCHISTOSOMIASIS RESEARCH</b>						
			PERSONAL EMOLUMENTS						
1	1	1	Research Officer .. .. .	1,280	620	..	660	..	
2	..	2	Laboratory Assistants, E.6-5 .. .. .	209	..	..	209	..	
3	..	..	Pension Contributions (C.R.S.) .. .. .	272	130	..	142	..	
4	..	..	Subordinate Staff S.S. .. .. .	..	45	..	..	45	
	1	3	Total Personal Emoluments .. .. .	1,761	795	1,435	..	..	
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	400	200	120	200	..	
3	..	..	Incidental Expenses .. .. .	50	50	..	..	..	
5	..	..	Common Services .. .. .	17	15	513	2	..	1
6	..	..	Equipment and Supplies .. .. .	150	100	82	50	..	
10	..	..	Essential Services .. .. .	75	..	..	75	..	
20	..	..	Fees, Rewards and Contributions .. .. .	50	..	..	50	..	
29	..	..	Posts and Telegraphs Services .. .. .	20	..	..	20	..	
			Total Annually Recurrent .. .. .	762	365	715			
			Total Recurrent .. .. .	2,523	1,160	2,150	1,408	45	
			(52) SPECIAL EXPENDITURE						
1	..	..	Equipment .. .. .	250	..	..	250	..	
			Total Special Expenditure .. .. .	250	..	..	250	..	
			TOTAL (2) SCHISTOSOMIASIS RESEARCH .. .. .	2,773	1,160	2,150	1,658	45	
			NET INCREASE—£1,613						

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 14—EAST AFRICAN INSTITUTE FOR MEDICAL RESEARCH—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(3) <i>Physiological and Biochemical Research</i>						
			<i>Personal Emoluments</i>						
..	..		<i>Items not repeated</i> .. .. .	..	..	5,117	..	..	
			<i>Other Charges Annually Recurrent</i>						
..	..		<i>Items not repeated</i> .. .. .	..	..	2,410	..	..	
			<i>Total Recurrent</i> .. .. . £	..	..	7,527	..	..	
			(53) <i>Special Expenditure</i>						
..	..		<i>Items not repeated</i> .. .. .	..	..	1,218	..	..	
			<i>Total (3) Physiological and Biochemical Research</i> .. .. . £	..	..	8,745	..	..	
			(4) <i>Relapsing Fever Research</i>						
..	..		<i>Items not repeated</i> .. .. .	..	..	1,536	..	..	
			(5) <b>NUTRITIONAL OPHTHALMOLOGY RESEARCH</b>						
1	..	..	Personal Emoluments .. .. .	4,857	..	..	4,857	..	w
71	..	..	Permanent Equipment .. .. .	2,441	..	..	2,441	..	w
72	..	..	Consumable Supplies .. .. .	297	..	..	297	..	w
73	..	..	Travel .. .. .	2,143	..	..	2,143	..	w
74	..	..	Other Expenses .. .. .	500	..	..	500	..	w
75	..	..	Indirect Costs .. .. .	1,535	..	..	1,535	..	w
			TOTAL (5) NUTRITIONAL OPHTHALMOLOGY RESEARCH .. .. . £	11,773	..	..	11,773	..	
			TOTAL (1) INSTITUTE .. .. . £	48,645	47,135	40,966	4,863	3,353	
			TOTAL (2) SCHISTOSOMIASIS RESEARCH .. £	2,773	1,160	2,150	1,658	45	
			<i>Total (3) Physiological and Biochemical Research</i> .. .. . £	..	..	8,745	..	..	
			TOTAL E.A. INSTITUTE FOR MEDICAL RESEARCH .. .. . £	63,191	48,295	53,397	18,294	3,398	
			NET INCREASE—£14,896						

## HEAD 14—EAST AFRICAN INSTITUTE FOR MEDICAL RESEARCH

## (1) Institute

The Revenue is provided as follows:—

					£	£	£
Special Expenditure .. .. .							3,000
Her Majesty's Government	75%					2,250	
East African Governments	25%				750		
Divided—							
Kenya .. .. .					250		
Tanganyika .. .. .					250		
Uganda .. .. .					250		
					—	750	
							<u>3,000</u>
Recurrent .. .. .							45,645
Less—							
Rents received .. .. .						2,500	
Sales and Miscellaneous Revenue						750	
						—	<u>3,250</u>
							42,395
Her Majesty's Government	30%						12,719
East African Governments	70%				29,676		
Divided—							
Kenya .. .. .					9,892		
Tanganyika .. .. .					9,892		
Uganda .. .. .					9,892		
					—	29,676	
							<u>42,395</u>

## (2) Schistosomiasis Research

Recurrent and Special Expenditure .. .. .							2,773
Her Majesty's Government	50%						1,386
East African Governments	50%				1,387		
Divided—							
Kenya .. .. .					462		
Tanganyika .. .. .					463		
Uganda .. .. .					462		
					—	1,387	
							<u>2,773</u>

## (5) Nutritional Ophthalmology Research

United States Department of Health, Education and Welfare .. .. .							<u>11,773</u>
---	--	--	--	--	--	--	---------------

## Summary

					£
Her Majesty's Government .. .. .					16,355
Kenya .. .. .					10,604
Tanganyika .. .. .					10,605
Uganda .. .. .					10,604
Rents received .. .. .					2,500
Sales and Miscellaneous Revenue .. .. .					750
U.S.A. Department of Health, Education and Welfare .. .. .					11,773
Total .. .. .					<u>£63,191</u>

## EXPENDITURE

## HEAD 16—ROYAL EAST AFRICAN NAVY

## I. ESTIMATE of the amount required in the year ending 30th June, 1961.

Ninety-four thousand, six hundred and thirty-eight pounds,  
(£94,638)

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
<b>1</b>			<b>PERSONAL EMOLUMENTS</b>						
1	1	1	Commanding Officer .. .. .	1,400	1,400	..	..	..	x
2	1	1	Executive Officer, B.2-1 .. .. .	1,470	1,682	..	..	212	
3	1	1	Secretary, B.2-1 .. .. .	1,792	1,863	..	..	71	
4	1	1	Engineer Officer, B.5-3 .. .. .	879	1,800	..	..	921	c
5	4	4	Lieutenants, B.5-3 .. .. .	4,811	5,237	..	..	426	
6	8	8	Chief Petty Officers, C.5-4 .. .. .	9,172	9,594	..	..	422	
7	1	1	Engineroom Artificer, E.2-1 .. .. .	337	555	..	..	218	c
8	200	200	Ratings, S.S. .. .. .	13,610	13,130	..	480	..	
9	1	1	*Secretary/Stenographer .. .. .	678	678	..	..	..	
10	6	6	*Clerks, 4 E.4-1, 2 E.6-5 .. .. .	2,086	2,395	..	..	309	c
11	7	7	*Senior Artisans, E.2-1 .. .. .	3,869	3,832	..	37	..	a
12	1	1	*Artisan Grade I, E.4-3 .. .. .	188	349	..	..	161	c
13	..	..	Subordinate Staff, S.S. .. .. .	780	600	..	180	..	
14	..	..	Personal Allowances .. .. .	1,130	1,022	..	108	..	
15	..	..	Pension Contribution .. .. .	100	260	..	..	160	c
16	..	..	Gratuities .. .. .	330	315	..	15	..	
17	..	..	Leave Pay .. .. .	4,610	..	..	4,610	..	
	232	232	Total Personal Emoluments .. .. .	47,242	44,712	44,008			
			<b>OTHER CHARGES ANNUALLY RECURRENT</b>						
2	..	..	Transport and Travelling .. .. .	1,500	1,200	1,515	300	..	
3	..	..	Incidental Expenses .. .. .	180	180	327	..	..	
4	..	..	Staff Housing and Allowances .. .. .	1,677	1,144	1,278	533	..	
5	..	..	Common Services .. .. .	13,220	12,506	12,136	714	..	l
6	..	..	Equipment and Supplies .. .. .	4,000	4,000	3,750	..	..	
7	..	..	Maintenance of Buildings and Estate .. .. .	2,000	1,500	2,150	500	..	
8	..	..	Maintenance of M/V and Boats .. .. .	5,800	8,500	8,528	..	2,700	
9	..	..	Maintenance of Plant and Equipment .. .. .	550	550	529	..	..	
10	..	..	Essential Services .. .. .	1,500	1,200	1,552	300	..	
11	..	..	Hospital Contributions and A.O.F.P.F. .. .. .	145	179	155	..	34	
14	..	..	Uniforms .. .. .	5,000	5,000	4,155	..	..	
18	..	..	Rents .. .. .	765	854	1,222	..	89	
19	..	..	Victualling .. .. .	6,500	6,200	6,489	300	..	
29	..	..	Posts and Telegraphs Services .. .. .	550	550	494	..	..	
30	..	..	Printing and Stationery .. .. .	170	170	238	..	..	
37	..	..	Entertainment Allowances .. .. .	80	50	105	30	..	
			Total Annually Recurrent .. .. .	43,637	43,783	44,623			
			Total Recurrent .. .. .	90,879	88,495	88,631	8,107	5,723	
			NET INCREASE—£2,384						

x. Half cost paid by the Royal Navy.

For explanation of notes other than x, see inside front cover.





## EXPENDITURE

## HEAD 17—EAST AFRICAN OFFICE IN LONDON

## I. ESTIMATE of the amount required in the year ending 30th June, 1961.

**Forty thousand, nine hundred and thirty-five pounds  
(£40,935)**

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
<b>1</b>			<b>PERSONAL EMOLUMENTS</b>						
1	1	1	Commissioner .. .. .	3,000	3,000	..	..	..	
2	..	..	Entertainment Allowance to Commissioner	650	650	..	..	..	
3	5	5	* Assistants (at Various Salaries) .. .. .	8,593	8,107	..	486	..	a
4	1	1	* Clerical Officer (Male) .. .. .	1,085	1,135	..	..	50	
5	2	1	* Clerical Officers (Female) .. .. .	1,062	1,983	..	..	921	1k
6	11	11	* Clerks .. .. .	7,085	5,472	..	1,613	..	a,
7	2	2	Office Commissioners .. .. .	946	916	..	30	..	
8	..	..	National Health Insurance .. .. .	400	400	..	..	..	
9	..	..	Personal Allowances .. .. .	300	350	..	..	50	
10	..	..	Gratuities .. .. .	1,902	968	..	934	..	
	22	21	Total Personal Emoluments .. .. .£	25,023	22,981	20,882			
			<b>OTHER CHARGES ANNUALLY RECURRENT</b>						
2	..	..	Transport and Travelling .. .. .	650	650	583	..	..	
3	..	..	Incidental Expenses .. .. .	440	540	569	..	100	
4	..	..	Staff Housing and Allowances .. .. .	200	200	200	..	..	
5	..	..	Common Services .. .. .	1,944	2,271	2,139	..	327	v, l
6	..	..	Equipment and Supplies .. .. .	100	100	97	..	..	
7	..	..	Maintenance of Buildings and Estate .. .. .	25	25	405	..	..	
10	..	..	Essential Services .. .. .	350	400	405	..	50	
13	..	..	Expenses of Conferences .. .. .	5	5	1	..	..	
18	..	..	Rents .. .. .	6,998	8,155	7,737	..	1,157	
21	..	..	Publications .. .. .	1,100	1,900	1,742	..	800	
29	..	..	Posts and Telegraphs Services .. .. .	950	950	965	..	..	
30	..	..	Printing and Stationery .. .. .	550	550	398	..	..	
31	..	..	Publicity and Information Services .. .. .	2,500	500	2	2,000	..	
32	..	..	Entertainment Allowances .. .. .	50	..	..	50	..	
33	..	..	Subscription to Commonwealth Sugar Producers' Conference .. .. .	50	..	..	50	..	
			Total Annually Recurrent .. .. .£	15,912	16,246	15,243			
			<b>TOTAL EAST AFRICAN OFFICE IN LONDON .. .. .£</b>	<b>40,935</b>	<b>39,227</b>	<b>36,125</b>	<b>5,163</b>	<b>3,455</b>	
			<b>NET INCREASE—£1,708</b>						

For explanation of notes other than x, see inside front cover.

## VOTE 17.—EAST AFRICAN OFFICE IN LONDON

The Revenue is provided as follows:—

					£
Zanzibar (Fixed)	..	..	..	..	400
Sales and Miscellaneous Revenue	..	..	..	..	115
Kenya	..	..	..	.. 8/17th	19,021
Tanganyika	..	..	..	.. 3/17th	7,133
Uganda	..	..	..	.. 3/17th	7,133
East African Railways and Harbours	..	..	..	.. 3/17th	7,133
TOTAL	..	..	..	..	<u>£40,935</u>

## EXPENDITURE

## HEAD 20—EAST AFRICAN STATISTICAL DEPARTMENT

I. ESTIMATE of the amount required in the year ending 30th June, 1961.

**One hundred and eighty-six thousand, three hundred and twenty-six pounds.**  
(£186,326)

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
<b>(I) OFFICE OF STATISTICAL ADVISER</b>				£	£	£	£	£	
PERSONAL EMOLUMENTS									
1	1	1	*Statistical Adviser/Director .. .. .	2,700	2,700	..	..	..	x
2	1	1	*Senior Statistical Officer, C.2 .. .. .	1,383	1,470	..	..	87	c
3	1	1	*Planning Supervisor, B.4-2 .. .. .	1,434	1,384	..	50	..	a
4	1	1	*Machine Supervisor, C.4-3 .. .. .	1,056	960	..	96	..	
5	1	1	*Librarian, B.5-3 .. .. .	978	879	..	99	..	c
6	1	1	*Office Superintendent, C.4-3 .. .. .	1,257	1,248	..	9	..	a
7	2	2	*Personal Secretaries Grade II .. .. .	1,645	1,580	..	65	..	a
8	1	1	*Secretary/Stenographer .. .. .	1	1	..	..	..	
9	1	1	*Registry Assistant, C.6-5 .. .. .	620	594	..	26	..	a
10	9	9	*Clerks, E.4-1 .. .. .	3,520	3,590	..	..	70	c
11	1	2	*Machine Operators, C.6-5 .. .. .	1,308	732	..	576	..	
12	16	6	*Junior Machine Operators, E.2-1 .. .. .	2,590					
13	..	4	*Key Punch Operators Grade I, E.4-3 .. .. .	800					
14	..	5	*Key Punch Operators Grade II, E.6-5 .. .. .	633					
15	1	1	*Driver, E.6-5 .. .. .	291	291	..	..	..	
16	1	1	Office Messenger, S.S. .. .. .	74	64	..	10	..	a
17	..	..	Gratuities .. .. .	629	158	..	471	..	
18	..	..	Personal Allowances .. .. .	90	18	..	72	..	
19	..	..	Temporary Clerical Assistance .. .. .	100	..	..	100	..	
	38	38	Total Personal Emoluments .. .. .£	21,109	19,664	18,789			
OTHER CHARGES ANNUALLY RECURRENT									
2	..	..	Transport and Travelling .. .. .	700	850	375	..	150	
3	..	..	Incidental Expenses .. .. .	100	100	126	..	..	
4	..	..	Staff Housing and Allowances .. .. .	4,001	3,658	3,632	343	..	
5	..	..	Common Services .. .. .	7,580	6,054	5,784	1,526	..	l
6	..	..	Equipment and Supplies .. .. .	1,830	1,730	1,395	100	..	
8	..	..	Maintenance of Motor Vehicles .. .. .	50	50	21	..	..	
9	..	..	Maintenance of Plant and Equipment .. .. .	175	175	132	..	..	
10	..	..	Essential Services .. .. .	111	169	198	..	58	
11	..	..	Hospital Contributions and A.O.F.P.F. .. .. .	127	213	118	..	86	
12	..	..	Library .. .. .	75	75	90	..	..	
18	..	..	Rents .. .. .	1,353	1,266	1,297	87	..	q
21	..	..	Publications .. .. .	2,175	1,075	1,990	1,100	..	
29	..	..	Posts and Telegraphs Services .. .. .	400	400	324	..	..	
30	..	..	Printing and Stationery .. .. .	300	250	262	50	..	
	..	..	Items not repeated .. .. .	..	..	771	..	..	
			Total Annually Recurrent .. .. .£	18,977	16,065	16,515			

x. Receives £100 per annum from Kenya Government as Economist to the Kenya Treasury.

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 20—EAST AFRICAN STATISTICAL DEPARTMENT—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(51) <i>Special Expenditure</i>						
4	..	..	Typewriters .. .. .	..	150	..	..	150	
			Total (51) <i>Special Expenditure</i> .. .. £	..	150	194			
			TOTAL (1) OFFICE OF STATISTICAL ADVISER .. .. . £	40,086	35,879	35,498	4,808	601	
			NET INCREASE—£4,207						
			(2) EAST AFRICAN UNIT						
1			PERSONAL EMOLUMENTS						
1	1	1	*Assistant Director .. .. .	2,300	2,300	..	..	..	
2	3	3	*Statisticians, A .. .. .	3,370	3,038	..	332	..	
3	3	3	*Statistical Officers, C.4-3 .. .. .	2,922	2,889	..	33	..	a
4	8	7	*Statistical Assistants, C.6-5 .. .. .	4,677	5,261	..	..	584	
5	1	3	*Statistical Assistants (Trainee), D .. .. .	1,434	471	..	963	..	
6	2	2	*Personal Secretaries Grade II .. .. .	1,476	1,367	..	109	..	a
7	4	3	*Senior Statistical Clerks, E.2-1 .. .. .	1,274	1,112	..	162	..	
8	5	4	*Statistical Clerks, E.4-3 .. .. .	939	1,061	..	..	122	
9	7	3	*Junior Statistical Clerks, E.6-5 .. .. .	413	449	..	..	36	
10	1	1	*Driver, E.6-5 .. .. .	198	198	..	..	..	
11	2	2	Office Messengers, S.S. .. .. .	195	178	..	17	..	c
12	..	..	Personal Allowances .. .. .	100	18	..	82	..	
13	..	..	Gratuities .. .. .	693	72	..	621	..	
	37	32	Total Personal Emoluments .. .. £	19,991	18,414	17,268			
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	400	400	345	..	..	
3	..	..	Incidental Expenses .. .. .	100	100	90	..	..	
4	..	..	Staff Housing and Allowances .. .. .	4,030	4,031	3,391	..	1	
5	..	..	Common Services .. .. .	6,173	6,721	6,190	..	548	l
6	..	..	Equipment and Supplies .. .. .	1,830	1,730	1,467	100	..	
8	..	..	Maintenance of Motor Vehicles .. .. .	50	50	12	..	..	
9	..	..	Maintenance of Plant and Equipment .. .. .	175	175	141	..	..	
10	..	..	Essential Services .. .. .	111	167	198	..	56	
11	..	..	Hospital Contributions and A.O.F.P.F. .. .. .	158	232	137	..	74	
12	..	..	Library .. .. .	75	75	54	..	..	
18	..	..	Rents .. .. .	1,234	1,147	1,174	87	..	
21	..	..	Publications .. .. .	50	50	68	..	..	
29	..	..	Posts and Telegraphs Services .. .. .	325	325	298	..	..	
30	..	..	Printing and Stationery .. .. .	250	200	385	50	..	
			Total Annually Recurrent .. .. £	14,961	15,403	13,950			

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 20—EAST AFRICAN STATISTICAL DEPARTMENT—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
			(52) SPECIAL EXPENDITURE	£	£	£	£	£	
1	..	..	Office Equipment .. .. .	354	..	..	354	..	
2	..	..	Terminal Payments to Dr. Blacker ..	446	..	..	446	..	
			Total (52) Special Expenditure .. £	800	..	63			
			TOTAL (2) EAST AFRICA UNIT .. £	35,752	33,817	31,281	3,356	1,421	
			NET INCREASE—£1,935						
			(3) KENYA UNIT						
			PERSONAL EMOLUMENTS						
1	1	1	*Deputy Government Statistician ..	2,300	2,300	..	..	..	
2	3	4	*Statisticians, A .. .. .	4,767	3,674	..	1,093	..	
3	3	3	*Statistical Officers, C.4-3 .. .. .	3,103	3,011	..	92	..	a
4	5	5	*Statistical Assistants, C.6-5 .. .. .	3,608	3,581	..	27	..	a
5	2	2	*Statistical Assistants (Trainee), D ..	984	942	..	42	..	
6	1	1	*Personal Secretary Grade II .. .. .	764	743	..	21	..	a
7	1	1	*Secretary/Stenographer .. .. .	492	503	..	..	11	c
8	6	7	*Senior Statistical Clerks, E.2-1 .. ..	3,803	3,349	..	454	..	
9	8	7	*Statistical Clerks, E.4-3 .. .. .	1,700	1,852	..	..	152	
10	8	5	*Junior Statistical Clerks, E.6-5 .. ..	857	1,310	..	..	453	
11	1	1	*Driver, E.6-5 .. .. .	188	188	..	..	..	
12	3	3	Office Messengers, S.S. .. .. .	296	284	..	12	..	a
13	..	..	Gratuities .. .. .	547	645	..	..	98	
14	..	..	Temporary Survey Clerks .. .. .	1,300	500	..	800	..	
15	..	..	Personal Allowances .. .. .	164	..	..	164	..	
	42	40	Total Personal Emoluments .. .. £	24,873	22,882	21,097			
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	700	800	635	..	100	
3	..	..	Incidental Expenses .. .. .	100	100	90	..	..	
4	..	..	Staff Housing and Allowances .. .. .	3,900	2,928	3,527	972	..	
5	..	..	Common Services .. .. .	7,735	5,887	5,941	1,848	..	l
6	..	..	Equipment and Supplies .. .. .	2,300	2,150	1,765	150	..	
8	..	..	Maintenance of Motor Vehicles .. .. .	100	100	85	..	..	
9	..	..	Maintenance of Plant and Equipment ..	232	232	93	..	..	
10	..	..	Essential Services .. .. .	110	175	197	..	65	
11	..	..	Hospital Contributions and A.O.F.P.F. ..	73	114	71	..	41	
12	..	..	Library .. .. .	75	75	57	..	..	
18	..	..	Rents .. .. .	1,250	1,161	1,189	89	..	
20	..	..	Fees, Rewards and Contributions .. ..	150	150	115	..	..	
21	..	..	Publications .. .. .	60	60	21	..	..	
29	..	..	Posts and Telegraphs Services .. .. .	300	300	277	..	..	
30	..	..	Printing and Stationery .. .. .	325	275	275	50	..	
34	..	..	Sample Purchases .. .. .	100	170	85	..	70	
			Total Annually Recurrent .. .. £	17,510	14,677	14,423			

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 20—EAST AFRICAN STATISTICAL DEPARTMENT—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
			(53) SPECIAL EXPENDITURE	£	£	£	£	£	
1	..	..	Office Equipment .. .. .	352	..	..	352	..	
3	..	..	Card Indices .. .. .	..	40	..	..	40	
5	..	..	World Census of Agriculture .. .. .	500	100	..	400	..	
			Total (53) Special Expenditure .. £	852	140	350			
			TOTAL (3) KENYA UNIT .. .. £	43,235	37,699	35,870	6,566	1,030	
			NET INCREASE—£5,536						
			(4) TANGANYIKA UNIT						
1			PERSONAL EMOLUMENTS						
1	1	1	*Deputy Government Statistician .. .. .	2,300	2,300	..	..	..	
2	3	4	*Statisticians, A .. .. .	4,228	2,968	..	1,260	..	
3	2	2	*Statistical Officers, C.4-3 .. .. .	2,415	2,241	..	174	..	a
4	3	3	*Statistical Assistants, C.6-5 .. .. .	2,133	2,067	..	66	..	a
5	..	2	*Statistical Assistants (Trainee), D .. .. .	942	..	..	942	..	
6	1	1	*Personal Secretary Grade II .. .. .	754	725	..	29	..	a
7	5	5	*Senior Statistical Clerks, E.2-1 .. .. .	2,684	2,637	..	47	..	a
8	4	4	*Statistical Clerks, E.4-3 .. .. .	882	814	..	68	..	a
9	6	6	*Junior Statistical Clerks, E.6-5 .. .. .	885	835	..	50	..	a
10	2	2	*Clerks, E.4-1 .. .. .	360	305	..	55	..	c
11	..	1	*Driver, E.6-5 .. .. .	111	..	..	111	..	
12	3	3	Office Messengers, S.S. .. .. .	225	215	..	10	..	a
13	..	..	Personal Allowances .. .. .	60	350	..	..	290	
14	..	..	Special Survey Allowances .. .. .	500	500	..	..	..	
15	..	..	Gratuities .. .. .	311	302	..	9	..	
	30	34	Total Personal Emoluments .. .. £	18,790	16,259	14,327			
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	1,200	900	670	300	..	
3	..	..	Incidental Expenses .. .. .	75	75	45	..	..	
4	..	..	Staff Housing and Allowances .. .. .	2,772	2,709	2,628	63	..	
5	..	..	Common Services .. .. .	5,792	6,554	4,358	..	762	l
6	..	..	Equipment and Supplies .. .. .	1,920	1,820	1,517	100	..	
8	..	..	Maintenance of Motor Vehicles .. .. .	100	..	..	100	..	
9	..	..	Maintenance of Plant and Equipment .. .. .	170	150	148	20	..	
10	..	..	Essential Services .. .. .	50	50	48	..	..	
11	..	..	Hospital Contributions and A.O.F.P.F. .. .. .	62	107	54	..	45	
12	..	..	Library .. .. .	50	50	47	..	..	
21	..	..	Publications .. .. .	50	50	..	..	..	
29	..	..	Posts and Telegraphs Services .. .. .	300	300	296	..	..	
30	..	..	Printing and Stationery .. .. .	250	250	394	..	..	
34	..	..	Sample Purchases .. .. .	50	50	47	..	..	
			Total Annually Recurrent .. .. £	12,841	13,065	10,252			

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 20—EAST AFRICAN STATISTICAL DEPARTMENT—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
			(54) SPECIAL EXPENDITURE	£	£	£	£	£	
1	..	..	Motor Vehicle .. .. .	900	..	..	900	..	
2	..	..	Office Equipment .. .. .	40	..	..	40	..	
3	..	..	Camp Equipment .. .. .	200	..	..	200	..	
6	..	..	Calculating Machine .. .. .	..	250	..	..	250	
			Total (54) Special Expenditure .. £	1,140	250	66			
			TOTAL (4) TANGANYIKA UNIT .. £	32,771	29,574	24,645	4,544	1,347	
			NET INCREASE—£3,197						
			(5) UGANDA UNIT						
			PERSONAL EMOLUMENTS						
1	1	1	*Deputy Government Statistician ..	2,300	2,300	..	..	..	
2	3	4	*Statisticians, A .. .. .	3,524	3,381	..	143	..	a, If
3	3	3	*Statistical Officers, C.4-3 .. .. .	3,282	3,175	..	107	..	a
4	2	2	*Statistical Assistants, C.6-5 .. .. .	1,214	611	..	603	..	
5	..	2	*Statistical Assistants (Trainee), D ..	942	..	..	942	..	
6	1	1	*Personal Secretary, Grade II .. .. .	726	661	..	65	..	c
7	6	6	*Senior Statistical Clerks, E.2-1 .. .. .	2,318	2,540	..	..	222	c
8	4	4	*Statistical Clerks, E.4-3 .. .. .	933	809	..	124	..	
9	3	3	*Junior Statistical Clerks, E.6-5 .. .. .	359	423	..	..	64	c
10	1	1	*Driver, E.6-5 .. .. .	138	153	..	..	15	c
11	2	2	Office Messengers, S.S. .. .. .	123	117	..	6	..	a
12	..	..	Urban Survey .. .. .	500	500	..	..	..	
13	..	..	Gratuities .. .. .	628	329	..	299	..	
14	..	..	Rural Surveys .. .. .	5,000	..	..	5,000	..	
15	..	..	Personal Allowances .. .. .	214	..	..	214	..	
	26	29	Total Personal Emoluments .. .. £	22,201	14,999	14,261			
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	900	900	740	..	..	
3	..	..	Incidental Expenses .. .. .	50	50	30	..	..	
4	..	..	Staff Housing and Allowances .. .. .	2,581	2,369	2,252	212	..	
5	..	..	Common Services .. .. .	5,269	4,072	5,205	1,197	..	l
6	..	..	Equipment and Supplies .. .. .	1,720	1,620	1,407	100	..	
8	..	..	Maintenance of Motor Vehicles .. .. .	100	100	..	..	..	
9	..	..	Maintenance of Plant and Equipment ..	170	160	108	10	..	
10	..	..	Essential Services .. .. .	50	50	10	..	..	
11	..	..	Hospital Contributions and A.O.F.P.F. ..	31	54	29	..	23	
12	..	..	Library .. .. .	100	100	85	..	..	
20	..	..	Fees, Rewards and Contributions .. .. .	50	50	4	..	..	
21	..	..	Publications .. .. .	50	50	..	..	..	
29	..	..	Posts and Telegraphs Services .. .. .	300	300	328	..	..	
30	..	..	Printing and Stationery .. .. .	300	300	265	..	..	
34	..	..	Sample Purchases .. .. .	150	250	..	..	100	
			Total Annually Recurrent .. .. £	11,821	10,425	10,463			

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 20—EAST AFRICAN STATISTICAL DEPARTMENT—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	1959/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(55) SPECIAL EXPENDITURE						
1	..	..	Office Equipment .. .. .	460	..	325	460	..	
9	..	..	Motor Vehicles .. .. .	..	1,000	..	..	1,000	
			Items not repeated .. .. .	..	..	44			
			Total (55) Special Expenditure .. £	460	1,000	369			
			TOTAL (5) UGANDA UNIT .. .. £	34,482	26,424	25,093	9,482	1,424	
			NET INCREASE—£8,058						
			TOTAL (1) OFFICE OF STATISTICAL ADVISER .. .. . £	40,086	35,879	35,498	4,808	601	
			TOTAL (2) E.A. UNIT .. .. . £	35,752	33,817	31,281	3,356	1,421	
			TOTAL (3) KENYA UNIT .. .. . £	43,235	37,699	35,870	6,566	1,030	
			TOTAL (4) TANGANYIKA UNIT .. £	32,771	29,574	24,645	4,544	1,347	
			TOTAL (5) UGANDA UNIT .. .. £	34,482	26,424	25,093	9,482	1,424	
			TOTAL E.A. STATISTICAL DEPARTMENT £	186,326	163,393	152,387	28,756	5,823	
			NET INCREASE—£22,933						

For explanation of notes other than x, see inside front cover.





## HEAD 21—EAST AFRICAN TRYPANOSOMIASIS RESEARCH ORGANIZATION

### Research Programme, 1960/1961

NOTE.—The programme printed below was recommended to the East African Agricultural and Fisheries Research Council and the East African Council for Medical Research by the East African Trypanosomiasis Research Advisory Committee. The two Councils endorsed the programme at their meetings in January and February, 1960. The East African Agricultural and Fisheries Research Council agreed that work on comparative drug trials should remain with the Kenya Veterinary Department.

#### 1. HUMAN TRYPANOSOMIASIS

The central problem is that of the epidemiology of *T. rhodesiense* sleeping sickness, why the disease is discontinuous in distribution within the distribution of the tsetse flies which are known to transmit it. The main medical programme of E.A.T.R.O. would be related to this problem, it being primarily studied in south-east Uganda where very suitable field areas exist near to Tororo, but also in the other territories, particularly Tanganyika, where similar situations exist in relation to different species of tsetse.

This study has already been begun in its purely medical aspects, the elementary facts being known from the results of recent clinical investigations. The work will be extended through studies of the behaviour of the human population in the area, and on the flies and on the wild mammals which provide the natural reservoirs of the disease. Concurrent laboratory studies on the protozoology and immunology of the disease are required to develop methods for the diagnosis of trypanosome species and for the recognition of infections in both man and animals.

Clinical and therapeutic studies would be expected to continue, partly to continue some important studies on the pathology of the disease and on the action of drugs and partly to keep close contact with the actual disease which is important, not only to engender a proper appreciation of the problem among the workers but also to maintain the present excellent confidence of the population in our research workers.

Some biochemical studies are also projected—mainly in relation to drugs and to trypanosome metabolism but also in relation to the recognition of trypanosome species and infections.

#### 2. ANIMAL TRYPANOSOMIASIS

A clearly-defined central problem to which most of the work can be related has not yet emerged in the veterinary field in the way that it has in the medical one. In the main however, thought appears to be tending away from the control of trypanosomiasis by purely vector control and towards other possibilities of keeping cattle productively in infested areas. Thus the main problems would appear to relate to this, especially the mechanisms of drug prophylaxis and the part played by the immune mechanisms of the animal. It does appear that the immunological field holds most promise of such advance—towards understanding and using the protective mechanisms of the animal against the parasite, both in the presence and in the absence of anti-trypanosomal drugs. Studies suggested in this field include empirical ones as well as more systematic investigations of the subject in the hope of developing diagnostic methods, regimes of exposure to infection and even vaccines.

Another study field of importance is that of chemotherapy—as far as E.A.T.R.O. is concerned mainly in relation to the mechanism of development and to the significance of strains of trypanosomes resistant to drugs.

Related to chemoprophylaxis are studies on “challenge” to develop methods of estimating the degree to which cattle are exposed to trypanosome infection under varying field conditions.

Protozoological, biochemical and pathological studies mainly in relation to these preceding fields are proposed. Epidemiological studies, which would appear to me to be important in relation to challenge are however not included; it is however true to say that much of application on the veterinary side in this sphere is likely to accrue from the medical studies proposed above.

### 3. PROTOZOOLOGY

All of the important protozoological work proposed is directly related to the preceding sections—the development of standard, quantitative methods of handling the parasites, culture techniques, the location of cryptic infections in the immune body, and biochemical studies, including metabolic studies by radioactive methods.

### 4. ENTOMOLOGY

All the studies proposed and accepted are of direct and important application both in the understanding of the mechanisms of transmission of the parasites or for control. With the refusals of the higher Committees (S.C.H.T., (A) T.R.C.C.) to accept the recommendation of the Entomological subcommittee that “research into the vector should not be subordinated to the medical or veterinary requirements” it is possible to be eclectic in this respect.

The entomological programme may be summarized:—

*Studies directed to the improvement of methods*—of sampling populations, for finding flies in particular stages and for rearing in the laboratory.

*Ecological studies*—population dynamics, host relationships and studies of particular important species.

*Studies on behaviour*—reactions of flies to humidity, light, attractants and repellents; mechanisms of attraction to hosts.

*Physiological studies*—metabolism of water and fat to deduce the physiological state of the population; other methods of determining population stresses.

*Histological studies*—structure of sensory organs in relation to fly behaviour.

*Control*—the study of the effect of bush-clearing methods; insecticides, arboricides.

## EXPENDITURE

## HEAD 21—EAST AFRICAN TRYPANOSOMIASIS RESEARCH ORGANIZATION

I. ESTIMATE of the amount required in the year ending 30th June, 1961.

**One hundred and twelve thousand, five hundred and eighty-two pounds.  
(£112,582)**

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
<b>(1) RESEARCH</b>									
PERSONAL EMOLUMENTS									
1	1	1	Director .. .. .	2,900	2,900	..	..	..	
2	1	..	<i>Deputy Director</i> .. .. .	..	2,500	..	..	2,500	k,
3	1	1	Chief Entomologist .. .. .	2,300	2,300	..	..	..	
4	14	10	Research Officers (C.R.S.) .. .. .	15,195	20,667	..	..	5,472	a, 4k
5	1	1	*Secretary, B.1 .. .. .	1,810	1,748	..	62	..	a
6	4	5	*Laboratory Technicians, C.5-2 .. .. .	6,105	3,560	..	2,545	..	a, 1d
7	1	..	* <i>Field Officer, C.5-3</i> .. .. .	..	1,383	..	..	1,383	k,
8	1	1	*Livestock Officer, C.5-3 .. .. .	1,128	1,089	..	39	..	a
9	..	1	*Maintenance Superintendent, C.5-3 .. .. .	1,470	..	..	1,470	..	d,
10	1	1	*Accounts Officer Grade II, C.4 .. .. .	899	875	..	24	..	a
11	1	1	*Personal Secretary, Grade II .. .. .	840	715	..	125	..	a
12	1	1	*Assistant Storekeeper, C.6-5 .. .. .	678	651	..	27	..	a
13	1	..	* <i>Senior Foreman, C.6-4</i> .. .. .	..	651	..	..	651	k,
14	..	1	*Foreman Artisan, C.6-5 .. .. .	678	..	..	678	..	d,
15	..	1	*Secretary Stenographer .. .. .	592	..	..	592	..	d,
16	16	12	*Laboratory Assistants, 2 E.2-1, 7 E.4-3, 3 E.6-5 .. .. .	2,701	3,164	..	..	463	a, 4k n,
17	10	7	*Field Survey Assistants, 1 E.2-1, 3 E.4-3, 3 E.6-5 .. .. .	1,406	1,794	..	..	388	a, 3k, n,
18	8	8	*Clerks, 5 E.4-1, 3 E.6-5 .. .. .	2,222	2,409	..	..	187	a, c
19	2	2	*Medical Assistants, E.4-3 .. .. .	533	494	..	39	..	a
20	2	2	*Veterinary Assistants, 1 E.4-3, 1 E.6-5 .. .. .	313	331	..	..	18	a, 1c
21	1	1	*Agricultural Assistant, E.4-3 .. .. .	173	146	..	27	..	n
22	1	1	*Telephonist, Grade II, E.6-3 .. .. .	118	111	..	7	..	a
23	5	4	*Artisans, 2 E.4-3, 2 E.6-5 .. .. .	770	1,098	..	..	328	a, 1k
24	3	3	*Nursing Orderlies, E.6-5 .. .. .	392	373	..	19	..	a
25	6	5	*Drivers, E.6-5 .. .. .	982	1,370	..	..	388	a, 1k
26	5	4	*Overseers, E.6-5 .. .. .	540	637	..	..	97	a, 1k
27	..	..	Subordinate Staff, S.S. .. .. .	4,000	5,000	..	..	1,000	
28	..	..	Labour .. .. .	3,750	4,500	..	..	750	
29	..	..	Personal Allowances .. .. .	125	140	..	..	15	
30	..	..	Pension Contributions (C.R.S.) .. .. .	3,485	5,166	..	..	1,681	
31	..	..	<i>Leave Pay</i> .. .. .	..	2,793	..	..	2,793	
32	..	..	Provident Fund .. .. .	13	27	..	..	14	
33	..	..	Gratuities .. .. .	235	645	..	..	410	
34	..	..	Temporary Clerical Assistance .. .. .	100	..	..	100	..	
	87	74	Total Personal Emoluments .. .. .	£ 56,453	69,237	80,642			

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 21—EAST AFRICAN TRYPANOSOMIASIS RESEARCH ORGANIZATION—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	5,500	7,000	6,718	..	1,500	<i>o</i>
3	..	..	Incidental Expenses .. .. .	125	285	189	..	160	<i>o</i>
4	..	..	Staff Housing and Allowances .. ..	2,000	1,650	1,042	350	..	<i>q</i>
5	..	..	Common Services .. .. .	12,110	17,843	18,361	..	5,733	<i>l</i>
6	..	..	Equipment and Supplies .. .. .	3,400	3,700	4,048	..	300	<i>o</i>
7	..	..	Maintenance of Buildings and Estate ..	2,100	1,650	2,087	450	..	<i>q</i>
8	..	..	Maintenance of M/V and Boats .. ..	1,300	1,600	1,843	..	300	
9	..	..	Maintenance of Plant and Equipment ..	300	500	297	..	200	<i>v</i>
10	..	..	Essential Services .. .. .	1,200	1,200	1,369	..	..	
11	..	..	Hospital Contributions and A.O.F.P.F. ..	106	70	54	36	..	<i>q</i>
12	..	..	Library .. .. .	500	400	560	100	..	<i>q</i>
14	..	..	Uniforms .. .. .	450	650	724	..	200	<i>o</i>
15	..	..	Training Courses .. .. .	1	..	..	1	..	<i>f</i>
17	..	..	Purchase and Upkeep of Animals .. ..	2,299	2,750	2,566	..	451	<i>o</i>
18	..	..	Rents .. .. .	170	130	170	40	..	<i>q</i>
19	..	..	Victualling .. .. .	375	500	444	..	125	<i>o</i>
21	..	..	Publications .. .. .	100	120	85	..	20	
29	..	..	Posts and Telegraphs Services .. ..	1,100	960	1,324	140	..	<i>q</i>
30	..	..	Printing and Stationery .. .. .	800	800	830	..	..	
31	..	..	Overseas Conferences .. .. .	400	..	236	400	..	
36	..	..	Purchase and Upkeep of Animals (Supp.)	1	..	..	1	..	
			<i>Items not repeated</i> .. .. .	..	..	1,017	..	..	
			Total Annually Recurrent .. .. .	£ 34,337	41,808	43,964			
			Total Recurrent .. .. .	£ 90,790	111,045	124,606	7,272	27,527	
			NET DECREASE—£20 255						
			(51) SPECIAL EXPENDITURE						
			A.—RECURRENT	Scheme 1959/64					
				£					
1	..	..	M/V., Boats and Tractors .. .. .	9,700	4,700	..	4,700	..	
2	..	..	Scientific Equipment .. .. .	11,000	3,000	..	3,000	..	
3	..	..	Office Equipment and Furniture	600	600	..	600	..	
4	..	..	Replacement of Domestic Fur- niture .. .. .	1,500	200	..	200	..	
5	..	..	Camp Equipment—Field Stations	1,500	500	..	500	..	
6	..	..	Equipment for Farm and Animal Houses .. .. .	1,300	500	..	500	..	
			Total Special Expenditure— Recurrent .. .. .	£ 25 000	9,500	..	9 500	..	

For explanation of notes other than *x*, see inside front cover.

## EXPENDITURE

## HEAD 21—EAST AFRICAN TRYPANOSOMIASIS RESEARCH ORGANIZATION—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	1959/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(51) SPECIAL EXPENDITURE						
			B.—NON-RECURRENT						
			Scheme 1959/64						
			£						
11	..	..	Sleeping Sickness Ward ..	4,000	4,000	..	..	4,000	..
12	..	..	Field Laboratory and Camp, South Busoga .. ..	2,700	1,500	..	..	1,500	..
13	..	..	Animal Accommodation ..	1,000	500	..	..	500	..
14	..	..	Lock up Stores .. ..	1,000	1	..	..	1	..
15	..	..	Static Water Tank .. ..	500	1	..	..	1	..
16	..	..	Rewiring of Laboratories ..	1,000	500	..	..	500	..
17	..	..	Standby Electric Plant ..	400	1	..	..	1	..
18	..	..	Staff Housing .. ..	8,000	4,000	..	..	4,000	..
			Total Special Expenditure— Non-Recurrent .. ..	18,600	10,503	..	..	10,503	..
			Total Special Expenditure— A and B .. ..	£ 43,600	20,003	..	..	20,003	..
			(52) SPECIAL EXPENDITURE						
			(C.D. & W. SCHEMES R.757A)						
2	..	..	Equipment (Revote) .. ..	..	500	400	1,925	100	..
11	..	..	Alteration to Laboratories ..	..	..	300	..	..	300
12	..	..	Expenses of Closing Shinyanga Items not repeated .. ..	..	..	1,000	..	..	1,000
			Total Special Expenditure (52) .. £	..	500	1,700	3,955	100	1,300
			TOTAL RESEARCH ORGANIZATION .. £	111,293	112,745	128,561	27,375	28,827	
			NET DECREASE—£1,452						
			(3) Drug Trials						
			Items not repeated .. ..	..	..	1,996	..	..	..
			(54) SPECIAL EXPENDITURE (HOUSING)						
20	..	..	Additional Housing (Revote) ..	..	1,254	..	1,327	1,254	..
			Total Special Expenditure (54) .. £	..	1,254	..	1,327	1,254	..

For explanation of notes other than x, see inside front cover.

109  
EXPENDITURE

HEAD 21—EAST AFRICAN TRYPANOSOMIASIS RESEARCH ORGANIZATION—(Contd.)

II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(55) SPECIAL EXPENDITURE (PENSION CONTRIBUTION)						
1	..	..	Contribution to Tanganyika Government	35	..	..	35	..	
			Total (55) Special Expenditure ..£	35	..	..	35	..	
			Net Increase—£35						
			TOTAL RESEARCH ORGANIZATION ..£	111,293	112,745	128,561	27,375	28,827	
			TOTAL SPECIAL EXPENDITURE (54) ..	1,254	..	1,327	1,254	..	
			TOTAL EAST AFRICAN TRYPANOSOMIASIS RESEARCH ORGANIZATION .. ..£	112,582	112,745	131,884	28,664	28,827	
			NET DECREASE—£163						

For explanation of notes other than x, see inside front cover.

## HEAD 21—EAST AFRICAN TRYPANOSOMIASIS RESEARCH ORGANIZATION

The Revenue is provided as follows:—

			£	£	£
Special Expenditure (51) .. .. .					20,003
Her Majesty's Government	75%			15,002	
East African Governments	25%		5,001		
Divided—					
Kenya .. .. .	32.8%		1,640		
Tanganyika .. .. .	32.8%		1,640		
Uganda .. .. .	31.0%		1,551		
Zanzibar .. .. .	3.4%		170		
			<hr/>	5,001	
					<hr/> 20,003
Recurrent .. .. .					90,790
Less—					
Rents received .. .. .				1,464	
Sales and Miscellaneous Revenue				600	
				<hr/>	2,064
					<hr/> 88,726
Her Majesty's Government	30%			26,618	
East African Governments	70%		62,108		
Divided—					
Kenya .. .. .	32.8%		20,371		
Tanganyika .. .. .	32.8%		20,371		
Uganda .. .. .	31.0%		19,254		
Zanzibar .. .. .	3.4%		2,112		
			<hr/>	62,108	
					<hr/> 88,726
Special Expenditure (52) .. .. .					500
Her Majesty's Government 50%				250	
High Commission Fund 50%				250	
				<hr/>	500
Special Expenditure (54)—					
High Commission Fund .. .. .					1,254
					<hr/> 3
Special Expenditure (Pension Contribution) (55)					35
Kenya .. .. .			12		
Tanganyika .. .. .			12		
Uganda .. .. .			11		
			<hr/>		35

## Summary

	£
Her Majesty's Government	41,870
Kenya .. .. .	22,023
Tanganyika .. .. .	22,023
Uganda .. .. .	20,816
Zanzibar .. .. .	2,282
Rents received	1,464
Sales and Miscellaneous Revenue	600
High Commission Fund	1,504
	<hr/>
Total .. .. .	£112,582



## HEAD 22—EAST AFRICAN VETERINARY RESEARCH ORGANIZATION

### Research Programme, 1960/1961

NOTE.—The programme printed below was recommended to the East African Agricultural and Fisheries Research Council by the Veterinary Research Co-ordinating Committee. The Council endorsed the programme at its meeting in January, 1960.

### VIRUS DISEASES

#### RINDERPEST

1. Continuation of research on the growth of virus in tissue culture.  
*Progress:* Comparative studies showed close similarity between cytopathic changes produced by rinderpest and distemper viruses; to be extended to human measles virus.
2. Application of tissue culture neutralization test.  
*Progress:* Test now used as routine technique in most immunological work. Relation established between rinderpest and measles antibodies; to be extended to distemper.
3. Attenuation of virus in tissue culture.  
*Progress:* Immunity of cattle following inoculation of 40th passage virus solid at 18 months. Attenuation at 70th passage being studied.
4. Attempts to develop a tissue culture plaque technique for rinderpest virus.  
*Progress:* No success hitherto; investigations to be intensified.
5. Studies on rodent-adapted viruses.  
*Progress:* Passage of mouse and hamster strains continued; both still non-pathogenic.
6. Studies on avianized virus in the developing egg, and development of a neutralization test.  
*Progress:* Completed and discontinued.
7. Studies on avianized virus vaccine.  
*Progress:* Completed and discontinued.
8. Research on properties and improved methods of production of attenuated virus vaccines.  
*Progress:* Studies made on retention of potency of caprinized virus following reconstitution of vaccine. Technique for dispensing single doses developed and tested.
9. Long-term studies on duration of immunity.  
*Progress:* Regular examination of sera continuing.
10. Research on antigen-antibody reactions with rinderpest virus.  
*Progress:* An indirect gel diffusion reaction for detection of antibody in serum of convalescent cattle developed and compared with serum neutralization. Column chromatography and ultracentrifugation studies revealed a soluble antigen distinct from infective particles; studies to be continued to determine nature of antigen.
11. Research on rinderpest-like diseases.  
*Progress:* See below regarding malignant catarrh and bovine papular stomatitis.
12. Rinderpest in goats.  
*Progress:* Rinderpest in goats in Karamoja demonstrated by virus isolation and serum antibodies. Serological investigations to be extended to other areas.
13. Rinderpest in sheep.  
*Progress:* Earlier work at Kabete on susceptibility of sheep confirmed.

## 14. Rinderpest in pigs.

*Progress:* Pigs of European origin shown to be fully susceptible, and capable of transmitting disease to in-contact pigs and cattle. Infection in pigs is clinically inapparent. Investigations continuing.

## 15. Lapinized rinderpest virus in pigs.

*Progress:* Apparent modification of lapinized virus by passage in pigs; to be studied further.

## AFRICAN SWINE FEVER

Co-operative research between the United States Department of Agriculture and E.A.V.R.O.

## 1. Continuation of research on the virus in tissue culture.

*Progress:* Haemadsorption inhibition test shows promise as a method of typing virus strains.

## 2. Studies on culture-virus in pigs.

*Progress:* Virus cultivated in sheep kidney cells showed decreased virulence for pigs, survivors were resistant to inoculation with homologous virulent virus.

## 3. Research on immunological aspects of A.S.F.

*Progress:* Studies on complement fixation gave very promising results.

## 4. Continuation of epizootiological studies.

*Progress:* Virus isolated on various occasions from wart hog; in one instance five out of nine apparently normal animals were virus carriers. Virus has not hitherto been obtained from bush pig.

## RIFT VALLEY FEVER

## 1. Development of tissue culture neutralization test for diagnosis and research.

*Progress:* Hamster kidney shown to be most suitable cells. Kinetics and complement dependence of R.V.F. virus being studied in hamster kidney cultures.

## 2. Studies on hamster-adapted strain of virus.

*Progress:* Completed and discontinued.

## 3. Investigation of factors influencing the heat inactivation of the virus.

*Progress:* Studies continuing.

## 4. Search for reservoir hosts of R.V.F. virus.

*Progress:* Numerous sera of four species of rat from farms where R.V.F. has occurred examined with negative results.

## BOVINE MALIGNANT CATARRH

## 1. Epizootiology of malignant catarrh.

*Progress:* Virus isolated from two apparently normal pregnant wildebeest. Nature of infection and virus cycle, including relation to sex and pregnancy, to be studied.

## 2. Studies on malignant catarrh in cattle.

*Progress:* Comparative pathogenicity studies showed close similarity of gross lesion to those of rinderpest; many cases indistinguishable. Viraemia appears a week before symptoms develop. Cattle which survive become chronic carriers.

## 3. Attempt to grow the virus in tissue culture.

*Progress:* Virus propagated in thyroid and kidney cells. Difficulty experienced in passaging virus: third infected cattle.

**CONTAGIOUS POSTULAR DERMATITIS**

Research on the virus in tissue culture.

*Progress:* Studies on growth and cytopathogenicity in kidney and testis cells completed and published. Comparisons made with other mammalian pox-like viruses.

1. Clinico-pathological study of the disease.

*Progress:* Studies on the natural infection and the disease produced by culture-passaged virus completed and published.

2. Study of the virus in tissue culture.

*Progress:* Earlier research continued and published.

Research to be continued.

**PATHOLOGY**

Continuation of studies on the morbid anatomy and histopathology of the major diseases of livestock in East Africa. Decision on details of programme to await return of Mr. Plowright and appointment of a Technician.

**BACTERIAL DISEASES****CONTAGIOUS BOVINE PLEUROPNEUMONIA**

1. Investigations on avianized vaccine.

*Progress:* A satisfactory vaccine which regularly combines adequate immunizing potency with absence of unduly severe reactions has still not been developed. It seems inevitable that strains of varying virulence must be used in different circumstances, as was done with culture vaccine. Mortality and severe reactions experienced in Uganda.

2. Continuation of selection and study of vaccine strains, including investigations on standard Australian vaccine strain V5.

*Progress:* Laboratory experiment with challenge at two and six months showed no significant difference between immunity produced by V5 culture vaccine and T2/32 avianized vaccine. Investigations on drying of V5 culture vaccine, using agar, soluble starch, skimmed milk plus lactose as suspending agents, gave disappointing results. Alumina gel vaccine gives some promise.

3. Investigation of possible value of an adjuvant vaccine and comparison with normal culture and avianized vaccine.

*Progress:* Experimental vaccine prepared by a modification of Mendes' technique, using formalin and aluminium hydroxide, proved disappointing.

4. The aetiology of severe reactions to avianized vaccine, including relation to the natural disease.

*Progress:* Laboratory experiments discontinued. Investigations suggest that the vaccine caused the disease in one instance in the field.

5. The preparation of antigen for the complement fixation test.

6. Studies on the immune mechanism in pleuropneumonia, including antigen-antibody relationships.

*Progress:* Studies on the nature of complement fixing antigen continued. Attempts to separate and analyse an immunogenic fraction in progress.

7. Attempt to develop an allergic test for field diagnosis.

*Progress:* No success hitherto.

## PROTOZOAL DISEASES

### EAST COAST FEVER

1. Continuation of isolation and cross immunity studies on field strains from Tanganyika and Uganda.

*Progress:* No strains yet obtained; attempts continuing.

2. Investigations on the mild strain—*T. parva* (Icely). Pathogenicity; tick transmission; mechanical transmission; carrier status of recovered animals, including effect of splenectomy.

*Progress:* Mild character retained through four tick passages. About 85 per cent recovery with solid immunity. Transmission with *R. appendiculatus* irregular.

3. Studies on carrier status of animals recovered from *T. lawrencei* (Harvard), including effect of splenectomy.

*Progress:* No carriers hitherto detected in unsplenectomized cattle or buffaloes.

4. Continuation on research on relationship between *T. lawrencei* and *T. parva*, including apparent tendency of the former to develop the characters of the latter at this laboratory.

*Progress:* Buffalo strain from the field which was regarded as *T. lawrencei* successfully transmitted from cattle to cattle by ticks using unsplenectomized animals. Two separate lines passaged in cattle; both showed progressive increase in number of schizonts and production of piroplasms.

5. Morphological study of schizonts of several strains of *T. parva* and *T. lawrencei* to determine whether reliable differential criteria exist.

*Progress:* Overlap in density of parasitosis and number of nuclei in the two species confirmed.

6. Attempts to establish transovarial transmission of *T. parva* in ticks.

7. Studies on the life cycle of *T. lawrencei* in *R. appendiculatus*.

*Progress:* Preliminary results suggest similarity to *T. parva*.

8. Search for other vectors of *T. lawrencei*.

9. Comparative pathology of Theilerial infections.

10. Attempts to develop a serological test for *T. parva* and other Theilerias.

*Progress:* Investigations using gel diffusion precipitin reaction started.

11. Attempts to adapt *T. parva* to splenectomized laboratory animals. Studies in collaboration with Wellcome Research Laboratory, Kabete.

12. Growth of Theilerias in tissue culture. Future primary emphasis on infected leucocytes.

13. Studies on chemotherapy of E.C.F. investigating any compound which appears promising.

14. Research on immunization against E.C.F. by the use of Aurofac.

*Progress:* Laboratory studies completed. Future work in collaboration with Territorial departments.

### GENERAL

1. Investigation of role of game in the epizootiology of Theilerias and other protozoa of livestock.

*Progress:* A parasite apparently of Cytauxzoon species identified in eland. Attempts to infect cattle.

2. Investigation of any Theilerias or other protozoa which may be isolated by feeding of field collections of ticks on domestic animals.

## ENTOMOLOGY

### RESEARCH ON TICKS

1. Continuation of research on systematics, distribution and biology of ticks, including collaboration in field surveys by Territorial departments.

*Progress:* Long-term work on East African ticks progresses steadily. Considerable assistance given in identification of field collections, and in advice on surveys.

2. Extension of studies on *Rhipicephalus* larvae and nymphae to cover all known immature stages of species belonging to this genus.

*Progress:* Thesis on immature stages of 13 species recently completed.

3. Laboratory studies and accumulation of data with a view to producing a monograph on the genus *Rhipicephalus*.

4. Studies on the genus *Amblyomma*; comparison between *A. eburneum* and *A. gemma*.

5. Investigation on the biology and life-cycle of *A. lepidum* with a view to experiments on transmission of heartwater, in collaboration with Kabete.

## HELMINTH DISEASES

### FASCIOLIASIS

1. Continuation of studies on morphology and systematics of liver flukes.

*Progress:* Research completed on three species, *E. hepatica*, *F. gigantica* and *F. nyanzae*.

2. Continuation of research on the life-cycle of *F. gigantica*.

*Progress:* Studies on the relationship of temperature to development and survival of eggs and larvae completed and being published. *Lymnaea natalensis* and *L. truncatula* shown to be snail hosts in East Africa.

3. Epizootiology of fascioliasis. Investigations to be made in the Lake Province of Tanganyika and Nyanza Province of Kenya.

### PARAMPHISTOMIASIS

1. Completion of research on systematics and distribution of paramphistomes of domestic ruminants in East Africa.

2. Continuation of research on the life-cycles of paramphistomes.

*Progress:* *Lymnaea truncatula* established as the snail host of *P. daubneyi*.

3. Clinico-pathological investigations in *P. microbothrium* infection in calves.

*Progress:* Experimental infection of small number of calves with up to 8,000 cercariae produced no clinical signs or gross lesions. Histological studies to be undertaken.

4. Studies on morphology, taxonomy and life-cycle of schistosomes in domestic ruminants.

*Progress:* Preliminary surveys made in Lake Province of Tanganyika and Nyanza Province of Kenya.

### BOVINE CYTICEROSIS

1. Laboratory studies on experimental infections in calves.

*Progress:*

(i) About 50 per cent of calves up to six weeks of age are highly susceptible to infection; resistance of remainder is partial to complete. Ability to resist infection is apparently due to two factors—

(a) a small proportion of calves appear to have an innate resistance not associated with previous infection,

(b) prior infection in early post-natal life.

Colostrum plays no part in resistance. Pre-natal infection is probably rare.

- (ii) Calves six to twelve weeks old relatively resistant due to previous infection, not to age immunity.
  - (iii) Calves four to twelve months old solidly resistant.
2. Laboratory studies on experimental infections of adult cattle.  
*Progress:* Cattle exposed at Muguga completely resistant; at Glasgow susceptible.
  3. Field studies on epizootiology in beef cattle.  
*Progress:* Results confirm laboratory studies, calves usually contracting infection in first few weeks of life, and thereafter resistant. Cysts of original infection appear to persist for life of host cattle.
  4. Determination of the longevity of *C. bovis* cysts in cattle.  
*Progress:* Cysts shown to be completely viable 11 months after experimental infection, the longest interval hitherto tested. Longer periods to be investigated.
  5. Attempts to develop a method of artificial immunization.  
*Progress:* Research on X-irradiation to be resumed.

#### GENERAL DEFICIENCIES AND METABOLIC DISORDERS

1. Preliminary balance studies in respect of Na, K, P, Ca, Mg carried out in Zebu and grade steers fed on low quality hay; undertaken in conjunction with research on ruminant digestion.  
*Progress:* Under these conditions both types of cattle were in balance for all five minerals; they did not gain weight. An intake of only 1.0 gm. per day of sodium (Na) appears to be sufficient.
2. Investigations of levels of Na, K, P, Ca, Mg in sample of contents of the four stomachs and of four separate sites in the intestines of cattle.  
*Progress:* Indications obtained on limited number of cattle were that in Zebus there is a higher rumen phosphorus level than in grades. Studies to continue.
3. Attempts to supply a technique for laboratory determination of manganese in biological tissues.  
*Progress:* Results hitherto obtained suggest that real simplification will be difficult; experiments continuing.
4. Laboratory investigations on sodium metabolism in Zebu and grade cattle.
  - (a) Attempts to produce a sodium deficiency by elimination of salt in food and water.
  - (b) To determine whether sodium is a limiting factor in food and water intake, and in weight gain, under poor nutritional conditions.

117  
EXPENDITURE

**HEAD 22—EAST AFRICAN VETERINARY RESEARCH ORGANIZATION**

I. ESTIMATE of the amount required in the year ending 30th June, 1961.

**One hundred and sixty-three thousand, one hundred and seventeen pounds.  
(£163,117)**

II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
			<b>(I) RESEARCH</b>	£	£	£	£	£	
<b>1</b>	..	..	PERSONAL EMOLUMENTS						
1	1	1	Director .. .. .	2,900	2,900	..	..	..	
2	1	1	Deputy Director .. .. .	1	2,500	..	..	2,499	s,
3	18	18	Research Officers (C.R.S.) .. .. .	29,120	26,544	..	2,576	..	1s,
4	1	1	*Secretary, B.1 .. .. .	1,863	1,863	..	..	..	
5	14	15	*Laboratory Technicians, C.5-2 .. .. .	15,900	14,397	..	1,503	..	1g,
6	1	..	*Farm Manager, C.5-3 .. .. .	..	1,049	..	..	1,049	k,
7	1	1	*Senior Maintenance Superintendent, C.3-2 .. .. .	1,518	1,518	..	..	..	
8	1	1	*Livestock Officer, C.5-3 .. .. .	1,341	1,341	..	..	..	
9	1	..	*Field Assistant, C.5-4 .. .. .	..	1,095	..	..	1,095	g,
10	1	1	*Librarian, B.5-3 .. .. .	633	616	..	17	..	a
11	1	1	*Storekeeper Grade II, C.5-4 .. .. .	836	742	..	94	..	a
12	3	3	*Personal Secretaries Grade II .. .. .	2,426	2,436	..	..	10	
13	1	1	*Secretary/Stenographer .. .. .	1	1	..	..	..	s
14	12	12	*Clerks, 3 E.4-1, 9 E.6-5 .. .. .	1,309	1,246	..	63	..	5s, a
15	30	30	*Laboratory Assistants, 9 E.4-3, 21 E.6-5 .. .. .	4,309	3,716	..	593	..	5s, a
16	4	4	*Overseers, E.6-5 .. .. .	264	250	..	14	..	2s, a
17	14	14	*Artisans, E.6-5 .. .. .	1,871	1,893	..	..	22	1s,
18	6	6	*Drivers, E.6-5 .. .. .	738	692	..	46	..	a
19	..	..	Labour S.S. .. .. .	9,000	7,750	..	1,250	..	
20	..	..	Provident Fund .. .. .	12	11	..	1	..	
21	..	..	Personal Allowances .. .. .	350	450	..	..	100	
22	..	..	F.S.S.U. Contributions .. .. .	165	165	..	..	..	
23	..	..	Pension Contributions (C.R.S.) .. .. .	6,266	4,731	..	1,535	..	
24	..	..	Gratuities, Temporary Staff .. .. .	554	730	..	..	176	
25	..	..	Temporary Clerical Assistance .. .. .	370	470	..	..	100	
	<b>111</b>	<b>110</b>	Total Personal Emoluments .. .. .	£ 81,747	79,106	81,829			
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	4,400	4,500	4,876	..	100	
3	..	..	Incidental Expenses .. .. .	300	300	323	..	..	
4	..	..	Staff Housing and Allowances .. .. .	40	24	122	16	..	
5	..	..	Common Services .. .. .	17,600	21,211	20,534	..	3,611	l
6	..	..	Equipment and Supplies .. .. .	4,500	5,400	5,390	..	900	
7	..	..	Maintenance of Buildings and Estate .. .. .	3,000	2,800	3,195	200	..	
8	..	..	Maintenance of M/V and Boats .. .. .	1,200	1,000	1,260	200	..	
			Carried forward .. .. .	£ 31,040	35,235	35,700	8,108	9,662	

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 22—EAST AFRICAN VETERINARY RESEARCH ORGANIZATION—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
			OTHER CHARGES ANNUALLY RECURRENT —(Contd.)	£	£	£	£	£	
			<i>Brought forward</i> .. £	31,040	35,235	35,700	8,108	9,662	
9	..	..	Maintenance of Plant and Equipment ..	1,000	800	575	200	..	
10	..	..	Essential Services .. .. .	3,400	3,000	3,399	400	..	
11	..	..	Hospital Contributions and A.O.F.P.F. ..	150	135	133	15	..	
12	..	..	Library .. .. .	600	500	629	100	..	
13	..	..	Expenses of Conferences .. .. .	50	50	249	..	..	
14	..	..	Uniforms .. .. .	400	300	450	100	..	
17	..	..	Purchase and Upkeep of Animals ..	4,000	4,000	3,846	..	..	
21	..	..	Publications .. .. .	325	350	315	..	25	
29	..	..	Posts and Telegraphs Services .. ..	1,000	1,000	1,039	..	..	
30	..	..	Printing and Stationery .. .. .	500	500	431	..	..	
			Total Annually Recurrent .. .. £	42,465	45,870	46,766			
			Total Recurrent .. .. . £	124,212	124,976	128,595	8,923	9,687	
			Scheme 1959/64						
			(51) SPECIAL EXPENDITURE	£					
1	..	..	Motor Vehicles .. .. .	6,000	1,000	..	1,000	..	
2	..	..	Laboratory and Office Equipment	4,750	1,000	..	1,000	..	
3	..	..	Grade G Housing .. .. .	10,000	5,750	..	5,750	..	
4	..	..	Grade F Housing .. .. .	1,750	..	..	..	..	
			Total Special Expenditure £ 22,500	7,750	..	..	7,750	..	
			(55) Special Expenditure (C.D. & W. Scheme R.801)						
			Items not repeated .. .. . £	..	..	5,546	..	..	
			TOTAL (1) RESEARCH .. .. . £	131,962	124,976	134,141	16,673	9,687	
			NET INCREASE—£6,986						
			(2) PRODUCTION OF SERA AND VACCINES						
22	..	..	Production of Sera and Vaccines .. ..	20,000	20,000	..	..	..	
32	..	..	Reimbursement to Head 22 (1) .. ..	10,000	10,000	..	..	..	
			TOTAL (2) PRODUCTION OF SERA AND VACCINES .. .. . £	30,000	30,000	31,739	..	..	

For explanation of notes other than x, see inside front cover.



## EXPENDITURE

## HEAD 22—EAST AFRICAN VETERINARY RESEARCH ORGANIZATION—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			<b>(3) CO-OPERATIVE RESEARCH</b>						
			<i>Other Charges Annually Recurrent</i>						
6	..	..	<i>Equipment and Supplies .. .. .</i>	..	1,250	1,166	..	1,250	
9	..	..	<i>Maintenance of Plant and Equipment .. .. .</i>	..	250	..	..	250	
10	..	..	<i>Essential Services .. .. .</i>	..	500	500	..	500	
17	..	..	<i>Purchase and Upkeep of Animals .. .. .</i>	..	1,500	..	..	1,500	
			<i>Total Annually Recurrent .. .. .</i>	..	3,500	1,666			
			<b>(53) SPECIAL EXPENDITURE</b>						
5	..	..	<i>Experimental Animal Buildings .. .. .</i>	..	1,500	..	..	1,500	
7	..	..	<i>Equipment .. .. .</i>	..	2,000	794	..	2,000	
6	..	..	<i>Items not repeated .. .. .</i>	..	..	2,355	..	..	
			<i>Isolation Blocks (Revote) .. .. .</i>	450	..	..	450	..	w
			<i>Total Special Expenditure .. .. .</i>	450	3,500	3,149			
			<i>TOTAL (3) CO-OPERATIVE RESEARCH .. .</i>	450	7,000	4,815	450	7,000	
			NET DECREASE—£6,550						
			<b>(4) IMMUNOLOGY RESEARCH</b>						
			PERSONAL EMOLUMENTS						
1	..	1	<i>Laboratory Technician .. .. .</i>	705	..	..	705	..	
			<i>TOTAL (4) IMMUNOLOGY RESEARCH .. .</i>	705	..	..	705	..	
			NET INCREASE—£705						
			<i>(56) Special Expenditure</i> <i>(C.D. &amp; W. Scheme R.868)</i>						
			<i>Items not repeated .. .. .</i>	..	..	2,138	..	..	
			<i>TOTAL (1) RESEARCH .. .. .</i>	131,962	124,976	134,141	16,673	9,687	
			<i>TOTAL (2) SERA AND VACCINE .. .</i>	30,000	30,000	31,739	..	..	
			<i>TOTAL (3) CO-OPERATIVE RESEARCH .. .</i>	450	7,000	4,815	450	7,000	
			<i>TOTAL (4) IMMUNOLOGY RESEARCH .. .</i>	705	..	..	705	..	
			<i>TOTAL E.A. VETERINARY RESEARCH</i> <i>ORGANIZATION .. .. .</i>	163,117	161,976	172,833	17,828	16,687	
			NET INCREASE—£1,141						

For explanation of notes other than x, see inside front cover.

## HEAD 22—EAST AFRICAN VETERINARY RESEARCH ORGANIZATION

The Revenue is provided as follows:—

		(1) Research		£	£	£
Special Expenditure	.. ..	.. ..	.. ..	.. ..	.. ..	7,750
Her Majesty's Government	75%	.. ..	.. ..	.. ..	5,812	
East African Governments	25%	.. ..	.. ..	1,938		
Divided—						
Kenya .. ..	32·8%	.. ..	.. ..	636		
Tanganyika .. ..	32·8%	.. ..	.. ..	635		
Uganda .. ..	31·0%	.. ..	.. ..	601		
Zanzibar .. ..	3·4%	.. ..	.. ..	66		
				<u>1,938</u>		7,750
Recurrent .. ..						124,212
Less—						
Rents received .. ..					2,180	
Sales and Miscellaneous Revenue .. ..					1,100	
Reimbursement from Head 22 (2) .. ..					10,000	
United States Department of Agriculture .. ..					7,000	
					<u>20,280</u>	
						103,932
Her Majesty's Government	30%	.. ..	.. ..	.. ..	31,180	
East African Governments	70%	.. ..	.. ..	72,752		
Divided—						
Kenya .. ..	32·8%	.. ..	.. ..	23,862		
Tanganyika .. ..	32·8%	.. ..	.. ..	23,863		
Uganda .. ..	31·0%	.. ..	.. ..	22,554		
Zanzibar .. ..	3·4%	.. ..	.. ..	2,473		
				<u>72,752</u>		103,932
(2) Production of Sera and Vaccines						
Sale of Biological Products .. ..						30,000
(3) Co-operative Research						
High Commission Fund .. ..						450
(4) Immunology Research						
United States Department of Agriculture .. ..						705
Summary						
Her Majesty's Government	.. ..	.. ..	.. ..	.. ..	36,992	
Kenya .. ..	.. ..	.. ..	.. ..	.. ..	24,498	
Tanganyika .. ..	.. ..	.. ..	.. ..	.. ..	24,498	
Uganda .. ..	.. ..	.. ..	.. ..	.. ..	23,155	
Zanzibar .. ..	.. ..	.. ..	.. ..	.. ..	2,539	
U.S. Department of Agriculture .. ..	.. ..	.. ..	.. ..	.. ..	7,705	
Sales and Miscellaneous Revenue .. ..	.. ..	.. ..	.. ..	.. ..	31,100	
Rents Received .. ..	.. ..	.. ..	.. ..	.. ..	2,180	
Reimbursement .. ..	.. ..	.. ..	.. ..	.. ..	10,000	
High Commission Fund .. ..	.. ..	.. ..	.. ..	.. ..	450	
					<u>163,117</u>	

**HEAD 23—E.A. VIRUS RESEARCH INSTITUTE****Research Programme, 1960/61**

The programme for 1960/61, the first year of the new quinquennium, remains virtually unchanged. This is only natural considering that most of the research projects are long-term in nature. There are, however, minor changes, and changes of emphasis, brought about partly by the resignation of Dr. Weinbren. In preparing what follows, no account has been taken of the possible participation of W.H.O. Should this materialize during the coming year, then, of course, the whole programme will have to be modified and enlarged in scope.

**1. Virus Isolation Programme**

This part of the work still takes precedence over all others, but will be somewhat curtailed owing to staff changes. The isolation programme can be divided into two main sections: (i) isolation from man and other vertebrates, including birds, and (ii) isolation from mosquitoes and other invertebrates. Although these are interdependent, they form two quite distinct facets of our work, as behaviour of a virus in a vertebrate host is very different from that in an invertebrate host, the two calling for completely separate techniques. One is, however, as important as the other; isolation from an insect is often the first indication of general virus activity in an area, and may be the signal for stepped up activity in the vertebrate isolation programme, including man himself.

Most of the human isolation programme is, as before, carried out in conjunction with the Institute dispensary. That this approach is sound is indicated by the success in making five human isolations during 1958/59. It must be remembered that virus is usually recoverable from a patient only during the first few days of illness, and that many of the African patients do not normally go to a hospital or dispensary till they have been sick for some time, and their own methods of treatment have failed. Many of the patients, however, who visit our own dispensary are members of the Institute staff or their families, and we are able to see many of these on the first day of illness.

We shall continue, also to work in collaboration with the local hospitals and medical departments throughout East Africa, and with the Animal Health Research Centre, in Entebbe.

**2. Antibody Surveys**

While a virus in the vertebrate host may only persist in the blood for a day or two, the immunity which follows infection, if the animal or man survives, is usually life-long. Such immunity is, of course, specific for the virus that induced it in the first place, and is, therefore, a very good indication of previous virus activity. Immunity surveys, involving the mouse protection test and other techniques, both in man and animals, must continue as an important part of our programme. The spectrum of viruses used in such tests is being broadened and soon a picture will be available of the probable virus hazards confronting human populations in a given area. Some of the unexpected and important results of these surveys were mentioned in last year's programme proposals.

This Institute is, of course, primarily concerned with the insect-borne viruses which attack man. Animals, however, must also receive thorough investigation, as many of the virus diseases which afflict man on this continent can be considered merely as spill-overs from the local animal population. Unless we understand the position in wild and domestic animals, we cannot hope to be able to estimate the dangers facing man. Freedom of infection by a particular virus in man today cannot be taken as a criterion of continued enjoyment of this privilege in the future. Conditions change and the viruses themselves change. Our work is and will continue to be directed towards a furtherance of our understanding of these complex problems.

### 3. Laboratory Virus Studies

Studies of the behaviour of viruses both in vertebrates (mostly mice and monkeys) and invertebrates (mostly mosquitoes) will continue as before, with change of emphasis where indicated by developments in Items 1 and 2.

### 4. Field Entomology

Alongside and in close co-operation with the three items mentioned above, will be the continuation of the field studies on insect behaviour. It is only by intimate and patient study of the insects, mainly mosquitoes, in the field that we can hope to begin to understand the complex interacting forces that result in the human epidemics and plagues that occur from time to time. There is no short cut, and the present scheme is virtually a continuation of the existing one, the results of which, although far from complete, have already justified the approach.

### 5. Laboratory Entomology

Hand in hand with field observation must go laboratory experiment. Existing programmes, including the all important subject of age-grading of mosquitoes, and the physiological factors underlying the behaviour of the mosquito, both as a transmitter and as a host of virus, will follow along previous lines. Such studies will be subject to modification as dictated by developments in the other branches of this programme.

### 6. Technical

Work on improving methods of carrying out certain serological tests has been temporarily held up, owing partly to the serious outbreak of mosquito-borne virus disease that has been sweeping from the north-west through northern Uganda and heading towards the Kenya border. Much of the long and tedious work arising from this epidemic could have been avoided or considerably reduced, had we been able to complete these technical studies before the epidemic started. By the time the new scheme comes into operation, however, these technical improvements should again be under way.

### 7. General

While our programme has to be pared to fit the funds which are made available, and will naturally be subject to careful scrutiny by those who control these funds, it has also to stand up in the face of fierce international competition, our published results being subject to even closer scrutiny by men of science throughout the world. Science today, and the national prestige that attaches to it, is not a mutual back-patting association. On the contrary, scientists, the world over, for personal and national reasons, are ever ready to find fault with and to publish damning criticisms of each other's work. Unless our work stands up to these severe tests, we shall be finished both as a research unit and individually as scientists, and we shall be guilty of wasting public money and trust. If, on the other hand, our work stands up to this searching criticism, then justification of our spending of public money should not arise. It is a matter of some pride to us that this Institute still enjoys a world-wide reputation, even though faced with shortages of staff, equipment and funds. This has only been possible, however, by the fact that many of us are willing to work 10 to 12 hours a day, six or seven days a week.

Attention of the public today is largely focused on the spectacular achievements of nuclear- and astro-physics. No one denies the importance of these successes, yet it is probably true to say that man's whole future depends far more on modern medico-biological research, and on his coming to terms with nature. To quote from a recent article in a well-known general scientific journal (not specifically biological), ". . . it is time they (the biologists) got up off their knees in their hunt for money, and roundly declared to the Government and the public at large that in the present state of play £1,000 spent on research in their field will be more worthwhile than ten times the amount spent in most other places".

## EXPENDITURE

## HEAD 23—EAST AFRICAN VIRUS RESEARCH INSTITUTE

I. ESTIMATE of the amount required in the year ending 30th June, 1961.

**Fifty-three thousand and seventy-nine pounds.**  
**(£53,079)**

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			<b>(1) INSTITUTE</b>						
<b>I</b>	..	..	PERSONAL EMOLUMENTS						
1	1	1	Director (C.R.S.) .. .. .	2,700	2,700	..	..	..	
2	1	1	Assistant Director (C.R.S.) .. .. .	2,241	2,241	..	..	..	
3	5	5	Research Officers (C.R.S.) .. .. .	7,887	8,339	..	..	452	1c
4	5	4	*Laboratory Technicians, C.5-2 .. .. .	5,020	4,986	..	34	..	a, 1k
5	1	..	*Office Superintendent, C.4-3 .. .. .	..	1,341	..	..	1,341	k
6	1	1	*Personal Secretary Grade II .. .. .	737	699	..	38	..	
7	1	1	*Office Assistant, C.6-5 .. .. .	769	748	..	21	..	a
8	1	1	*Senior Foreman, C.6-4 .. .. .	924	924	..	..	..	
9	6	10	*Laboratory Assistants, E.6-3 .. .. .	1,752	1,227	..	525	..	4d
10	6	5	*Artisans, E.6-5 .. .. .	847	953	..	..	106	1k
11	4	3	*Drivers, E.6-5 .. .. .	385	583	..	..	198	1k
12	1	2	*Overseers, E.6-5 .. .. .	292	180	..	112	..	1d
13	..	1	*Field Assistant, E.6-5 .. .. .	104	..	..	104	..	d
14	..	..	Subordinate Staff, S.S. .. .. .	5,000	4,863	..	137	..	
15	..	..	Personal Allowances .. .. .	120	290	..	..	170	
16	..	..	Pension Contributions, (C.R.S.) .. .. .	2,238	2,584	..	..	346	
17	..	..	Leave Pay .. .. .	..	780	..	..	780	
18	..	..	Gratuities .. .. .	190	1,320	..	..	1,130	
19	..	..	Temporary Clerical Assistance .. .. .	180	..	..	180	..	
	33	35	Total Personal Emoluments .. .. .£	31,386	34,758	31,922			
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	1,550	1,550	1,401	..	..	
3	..	..	Incidental Expenses .. .. .	50	50	38	..	..	
4	..	..	Staff Housing and Allowances .. .. .	500	684	1,711	..	184	
5	..	..	Common Services .. .. .	6,593	7,324	5,612	..	731	l
6	..	..	Equipment and Supplies .. .. .	1,700	1,640	1,946	60	..	
7	..	..	Maintenance of Buildings and Estate .. .. .	1,100	1,200	1,137	..	100	
8	..	..	Maintenance of M/V and Boats .. .. .	400	425	731	..	25	
9	..	..	Maintenance of Plant and Equipment .. .. .	100	70	187	30	..	
10	..	..	Essential Services .. .. .	900	840	1,011	60	..	
11	..	..	Hospital Contributions and A.O.F.P.F. .. .. .	50	50	46	..	..	
12	..	..	Library .. .. .	200	200	211	..	..	
			Carried forward .. .. .£	13,143	14,033	14,031	1,301	5,563	

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 23—EAST AFRICAN VIRUS RESEARCH INSTITUTE—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
			OTHER CHARGES ANNUALLY RECURRENT —(Contd.)	£	£	£	£	£	
			<i>Brought forward</i> .. £	<b>13,143</b>	14,033	14,031	1,301	5,563	
14	..	..	Uniforms .. .. .	200	180	200	20	..	
17	..	..	Purchase and Upkeep of Animals .. .. .	3,000	2,500	3,479	500	..	
21	..	..	Publications .. .. .	200	170	227	30	..	
29	..	..	Posts and Telegraphs Services .. .. .	500	580	495	..	80	
30	..	..	Printing and Stationery .. .. .	300	270	372	30	..	
			<i>Items not repeated</i> .. .. .	..	..	413	..	..	
			Total Annually Recurrent .. .. . £	<b>17,343</b>	17,733	19,217			
			Total Recurrent .. .. . £	<b>48,729</b>	52,491	51,139	1,881	5,643	
			(51) SPECIAL EXPENDITURE						
				Scheme 1959/64 £					
1	..	..	Motor Vehicles .. .. .	4,500	2,700	..	2,700	..	
2	..	..	Staff Housing .. .. .	2,750	750	..	750	..	
3	..	..	Equipment .. .. .	3,700	900	..	900	..	
			Total Special Expenditure .. £	10,950	<b>4,350</b>	..	4,350	..	
			(53) <i>Special Expenditure</i>						
			<i>Items not repeated</i> .. .. .	..	..	2,234	..	..	
			TOTAL (1) INSTITUTE .. .. . £	<b>53,079</b>	52,491	53,373	6,231	5,643	
			NET INCREASE—£588						
			(2) <i>Aedes Aegypti</i>						
			<i>Items not repeated</i> .. .. . £	..	..	1,999	..	..	
			(52) <i>Special Expenditure</i>						
			<i>Items not repeated</i> .. .. . £	..	..	2,029	..	..	
			TOTAL (1) INSTITUTE .. .. . £	<b>53,079</b>	52,491	53,373	6,231	5,643	
			TOTAL E.A. VIRUS RESEARCH INSTITUTE £	<b>53,079</b>	52,491	57,401	6,231	5,643	
			NET INCREASE—£588						

For explanation of notes other than x, see inside front cover.

## HEAD 23—EAST AFRICAN VIRUS RESEARCH INSTITUTE

## (1) Institute

The Revenue is provided as follows:—

					£	£	£	
Special Expenditure .. .. .							4,350	
Her Majesty's Government	75%					3,262		
Contributing Governments	25%				1,088			
Divided—								
Kenya .. .. .	27/90ths				326			
Tanganyika .. .. .	27/90ths				326			
Uganda .. .. .	27/90ths				326			
Zanzibar .. .. .	2/90ths				25			
Sources not determined ..	7/90ths				85			
						1,088	4,350	
Recurrent .. .. .							48,729	
Less—								
Rents received .. .. .						1,500		
Miscellaneous Revenue ..						400		
							1,900	
							46,829	
Her Majesty's Government	30%					14,048		
Contributing Governments	70%				32,781			
Divided—								
Kenya .. .. .	27/90ths				9,834			
Tanganyika .. .. .	27/90ths				9,835			
Uganda .. .. .	27/90ths				9,835			
Zanzibar .. .. .	(2/90ths or £759 maximum)				728			
Sources not determined ..	7/90ths				2,549			
						32,781	46,829	
<b>Summary</b>								
Her Majesty's Government						£		
Kenya .. .. .						17,310		
Tanganyika .. .. .						10,160		
Uganda .. .. .						10,161		
Zanzibar .. .. .						753		
Rents received .. .. .						1,500		
Miscellaneous Revenue ..						400		
Sources not determined ..						2,634		
Total .. .. .						£53,079		

## EXPENDITURE

## HEAD 24—EAST AFRICAN DIRECTORATE OF CIVIL AVIATION

I. ESTIMATE of the amount required in the year ending 30th June, 1961.

Six hundred and twenty-three thousand, three hundred and seventy-one pounds.  
(£623,371)

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
<b>1</b>			<b>PERSONAL EMOLUMENTS</b>						
1	1	1	*Director .. .. .	2,900	2,700	..	200	..	
2	1	1	*Deputy Director .. .. .	2,500	2,300	..	200	..	
3	..	3	*Senior Aviation Officers £2,000 x 70-£2,140	6,140	..	..	6,140	..	
4	2	..	*Regional Civil Aviation Representatives, Tanganyika and Uganda, £2,000 x 70- £2,140 .. .. .	..	4,099	..	..	4,099	
5	1	..	*Chief Air Navigational Services Officer £2,000 x 70-£2,140 .. .. .	..	1	..	..	1	
6	1	1	*Chief Telecommunications Officer, £2,000 x 70-£2,140 .. .. .	2,134	2,070	..	64	..	a
7	1	1	*Aviation Administration Officer, B.1 ..	1,821	1,758	..	63	..	a
8	1	1	*Administrative Officer (Finance), B.1 ..	1,742	1,863	..	..	121	c
9	4	4	*Telecommunications Officers, C.1 ..	7,080	7,000	..	80	..	
10	3	3	*Senior Air Traffic Control Officers, C.1						
11	34	37	*Air Traffic Control Officers, C.4-2	58,208	50,910	..	7,298	..	a
12	1	1	*Staff Pilot, B.4-2 .. .. .	1,056	1,649	..	..	593	c
13	2	2	A.R.B. Surveyors .. .. .	7,572	7,455	..	117	..	a
14	4	6	*Senior Radio Superintendents, C.2 ..	8,703	5,794	..	2,909	..	a
15	43	31	*Radio Officers, C.5-3 .. .. .	38,514	51,697	..	..	13,183	a, o
16	4	6	*Senior Assistant Engineers, C.2 .. ..	7,891	5,643	..	2,248	..	a
17	1	..	*Assistant Engineer (Diesel), C.3 .. ..	..	1,341	..	..	1,341	
18	26	27	*Assistant Engineers, C.4-3 .. .. .	30,976	29,001	..	1,975	..	a
19	1	2	*Aviation Assistants, C.4-3 .. .. .	2,469	1,341	..	1,128	..	a
20	14	14	*Air Traffic Control Assistants, 6 C.4, 8 C.6-5 .. .. .	10,878	10,522	..	356	..	a
21	..	6	*Air Traffic Control Assistants (Trainee), D and E .. .. .	1,650	..	..	1,650	..	
22	6	..	*Technical Officers, E.4-C.5 .. .. .	..	2,078	..	..	2,078	
23	1	1	*Office Superintendent, C.4-3 .. .. .	1,327	1,285	..	42	..	a
24	1	1	*Storekeeper Grade I, C.4-3 .. .. .	1,288	1,246	..	42	..	a
25	1	1	*Storekeeper Grade II, C.5-4 .. .. .	705	678	..	27	..	a
26	1	1	*Personal Secretary Grade I .. .. .	960	924	..	36	..	a
27	6	6	*Personal Secretaries Grade II .. .. .	4,152	4,130	..	22	..	a, v
28	1	1	*Secretary/Stenographer .. .. .	585	471	..	114	..	c
29	1	1	*Registry Assistant, C.6-5 .. .. .	732	732	..	..	..	
30	1	1	*Senior Telephonist, E.2-1 .. .. .	652	625	..	27	..	a
31	1	1	*Office Assistant, C.6-5 .. .. .	813	674	..	139	..	a, e
32	12	12	*Clerks, 10 E.4-1, 2 E.6-5 .. .. .	3,917	4,386	..	..	469	a, v
33	1	1	*Assistant Draughtsman, E.2-1 .. .. .	450	429	..	21	..	a
34	1	1	*Overseer Grade I, E.4-3 .. .. .	239	230	..	9	..	a
35	2	2	*Drivers, E.6-5 .. .. .	344	340	..	4	..	a
36	26	..	*Control Assistants, 5 E.2-1, 11 E.4-3, 10 E.6-5 .. .. .	..	5,399	..	..	5,399	
	207	177	Carried forward .. £	208,398	210,771	..	24,911	27,284	

For explanation of notes other than x, see inside front cover.



## EXPENDITURE

## HEAD 24—EAST AFRICAN DIRECTORATE OF CIVIL AVIATION—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
			<b>PERSONAL EMOLUMENTS—(Contd.)</b>	<b>£</b>	<b>£</b>	<b>£</b>	<b>£</b>	<b>£</b>	
	207	177	<i>Brought forward</i> .. £	208,398	210,771	..	24,911	27,284	
37	200	..	*Radio Operators, 17 E.2-1, 71 E.4-3, 112 E.6-5 .. .. .	..	37,068	..	..	37,068	
38	..	8	*Senior Technical Assistants, C.6-5 .. .. .						
39	..	1	*Senior Technical Assistant (Trainee), D .. .. .						
40	..	23	*Technical Assistants Grade I, E.2-1 .. .. .	45,438	..	..	45,438	..	
41	..	82	*Technical Assistants Grade II, E.4-3 .. .. .						
42	..	105	*Junior Technical Assistants, E.6-5 .. .. .						
43	..	..	Subordinate Staff .. .. .	4,400	4,000	..	400	..	
44	..	..	Personal Allowances .. .. .	395	970	..	..	575	
45	..	..	Overtime .. .. .	450	450	..	..	..	
46	..	..	Gratuities, Temporary Staff .. .. .	387	624	..	..	237	
47	..	..	Leave Pay .. .. .	..	3,170	..	..	3,170	
	407	396	Total Personal Emoluments .. .. . £	259,468	257,053	247,540	70,749	68,334	
			<b>OTHER CHARGES ANNUALLY RECURRENT</b>						
2	..	..	Transport and Travelling .. .. .	12,000	11,000	12,170	1,000	..	e
3	..	..	Incidental Expenses .. .. .	1,050	1,600	1,222	..	550	
4	..	..	Staff Housing and Allowances .. .. .	48,000	47,183	50,158	817	..	
5	..	..	Common Services .. .. .	106,067	97,093	98,488	8,974	..	l
6	..	..	Equipment and Supplies .. .. .	2,000	2,500	1,903	..	500	
7	..	..	Maintenance of Buildings and Estate .. .. .	400	400	400	..	..	
8	..	..	Maintenance of M/V and Boats .. .. .	500	350	666	150	..	
9	..	..	Maintenance of Plant and Equipment .. .. .	7,500	6,300	6,293	1,200	..	
10	..	..	Essential Services .. .. .	11,000	9,000	10,688	2,000	..	
11	..	..	Hospital Contributions and A.O.F.P.F. .. .. .	550	568	552	..	18	
13	..	..	Expenses of Conferences .. .. .	1	1	..	..	..	
14	..	..	Uniforms .. .. .	1,500	1,870	1,545	..	370	
15	..	..	Training Courses .. .. .	1,400	1,400	664	..	..	
16	..	..	Operation of Aircraft .. .. .	7,500	5,000	6,242	2,500	..	
18	..	..	Rents .. .. .	5,000	4,270	5,820	730	..	
20	..	..	Fees, Rewards and Contributions .. .. .	450	3,000	3,468	..	2,550	
21	..	..	Publications .. .. .	250	150	221	100	..	
26	..	..	Insurance of Aircraft .. .. .	2,000	2,480	2,480	..	480	
28	..	..	Maintenance of Night Flying Facilities .. .. .	..	..	111	..	..	
29	..	..	Posts and Telegraphs Services .. .. .	24,000	18,400	14,444	5,600	..	
30	..	..	Printing and Stationery .. .. .	8,500	6,000	5,310	2,500	..	
36	..	..	Special Services for M.T.C.A. and Air Ministry .. .. .	..	8,900	..	..	8,900	
37	..	..	M.T.C.A. Lodwar Installation—Servicing Charges .. .. .	5,000	..	..	5,000	..	
			<i>Items not repeated</i> .. .. .	..	..	260	..	..	
			Total Annually Recurrent .. .. . £	244,668	227,465	223,105	30,571	13,368	
			Total Personal Emoluments .. .. . £	259,468	257,053	247,540	70,749	68,334	
			Total Recurrent .. .. . £	504,136	484,518	470,645	101,320	81,702	
			NET INCREASE—£19,618						

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 24—EAST AFRICAN DIRECTORATE OF CIVIL AVIATION—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(51) SPECIAL EXPENDITURE						
1	..	..	Vehicles .. .. .	1,600	..	..	1,600	..	
2	..	..	Test Gear and Tools .. .. .	850	..	..	850	..	
3	..	..	Rehabilitations—Outstations .. .. .	1,400	..	..	1,400	..	
4	..	..	Improvements—Entebbe .. .. .	1,100	..	..	1,100	..	
5	..	..	Improvements—Dar es Salaam .. .. .	750	..	..	750	..	
6	..	..	V.H.F. Area Cover Scheme Extension .. .. .	3,500	..	..	3,500	..	
7	..	..	Five-line Keyboard .. .. .	350	..	..	350	..	
8	..	..	Air Traffic Control Consoles .. .. .	500	..	..	500	..	
9	..	..	Non-Directional Beacon—Athi River Area .. .. .	2,000	..	..	2,000	..	
10	..	..	Frequency Shift Keying—Radio Teletype .. .. .	11,000	..	..	11,000	..	
11	..	..	Equipment .. .. .	750	..	..	750	..	
12	..	..	Voltage Regulators .. .. .	600	..	..	600	..	
13	..	..	Technical/Office Furniture and Typewriters .. .. .	1,000	..	..	1,000	..	
			Minor Equipment, Replacements and Installations .. .. .	1,000	..	..	1,000	..	
			Total (51) Special Expenditure .. £	25,400	..	..	25,400	..	
			(52) SPECIAL EXPENDITURE (SCHEME) D. 2429B)						
1	..	..	V.H.F. Air Cover Pilot Scheme (Revote) .. .. .	337	..	8,095	337	..	w
			Total (52) Special Expenditure .. £	337	..	8,095	337	..	
			(53) SPECIAL EXPENDITURE (SCHEME D.2700)						
1	..	..	Urgent Replacements (Revote) .. .. .	120	..	6	120	..	w
			Total (53) Special Expenditure (Scheme D.2700) .. .. . £	120	..	6	120	..	
			(55) SPECIAL EXPENDITURE (NON-SCHEME)						
14	..	..	R.T.T. Two Tone Equipment (Revote) .. .. .	144	..	..	144	..	w
			Items not repeated .. .. .	..	..	2,859	..	..	
			Total (55) Special Expenditure .. £	144	..	2,859	144	..	

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 24—EAST AFRICAN DIRECTORATE OF CIVIL AVIATION—(Contd.)

## DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure, 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
			(56) SPECIAL EXPENDITURE (SCHEME D.3264—PART II)	£	£	£	£	£	
1	..	..	Nairobi Airport (Revote) .. .. .	699	..	6,044	699	..	w
2	..	..	Flight Information Centre (Revote) .. .. .	31	..	1,602	31	..	w
3	..	..	Aeronautical Communications Centre (Revote) .. .. .	1,006	..	16,569	1,006	..	w
4	..	..	Renewals (Revote) .. .. .	3,000	..	3,491	3,000	..	w
5	..	..	Transmitter Replacements (Revote) .. .. .	740	..	750	740	..	w
6	..	..	Teleprinters (Revote) .. .. .	5,115	..	..	5,115	..	w
			Total (56) Special Expenditure (Scheme D.3264—Part II) .. .. .	£ 10,591	..	28,456	10,591	..	
			(57) SPECIAL EXPENDITURE (SCHEME D.3711)						
1	..	..	Approach Radar—Nairobi Airport (Revote) .. .. .	16,556	..	..	16,556	..	w
2	..	..	Multiplex V.H.F. Links (Revote) .. .. .	2,291	..	..	2,291	..	w
3	..	..	H.F. Fixed Service Receivers (Revote) .. .. .	253	..	..	253	..	w
4	..	..	Contingencies (Revote) .. .. .	352	..	..	352	..	w
5	..	..	Instrument Landing System (Revote) .. .. .	32,092	..	..	32,092	..	w
			Total (57) Special Expenditure (Scheme D.3711) .. .. .	£ 51,544	..	..	51,544	..	
			(58) SPECIAL EXPENDITURE (SCHEME NO. NOT KNOWN)						
1	..	..	Transmitter Receiver Replacement (Revote) .. .. .	1,600	1,600	..	..	..	w
2	..	..	Selective Calling Devices (Revote) .. .. .	500	500	..	..	..	w
3	..	..	Diesel Engines (Revote) .. .. .	700	700	..	..	..	w
4	..	..	Test Equipment and Tools (Revote) .. .. .	1,400	1,400	..	..	..	w
5	..	..	Carrier and Tone Equipment (Revote) .. .. .	1,800	1,800	..	..	..	w
6	..	..	Selcal Air/Ground Equipment (Revote) .. .. .	1,350	1,350	..	..	..	w
7	..	..	Single Sideband Equipment (Revote) .. .. .	3,000	3,000	..	..	..	w
8	..	..	Spares for Directorate Aircraft (Revote) .. .. .	1,000	1,000	..	..	..	w
9	..	..	Technical/Office Furniture and Typewriters (Revote) .. .. .	800	800	..	..	..	w
			Total (58) Special Expenditure .. .. .	£ 12,150	12,150	..	..	..	
			(59) SPECIAL EXPENDITURE (NON-SCHEME)						
1	..	..	R.A.F. Special Services (Revote) .. .. .	142	..	..	142	..	w
2	..	..	M.C.A. Special Services (Lodwar N.D.B. Station) (Revote) .. .. .	4,275	..	3,047	4,275	..	w
			Total (59) Special Expenditure .. .. .	£ 4,417	..	3,047	4,417	..	

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 24—EAST AFRICAN DIRECTORATE OF CIVIL AVIATION—(Contd.)

## DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure, 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(61) SPECIAL EXPENDITURE (SCHEME D.3264—PART I)						
5	..	..	Renewals—Entebbe (Revote) .. ..	180	..	356	180	..	w
11	..	..	Non-Directional Beacons (Revote) .. ..	729	..	598	729	..	w
12	..	..	Morse Perforators (Revote) .. ..	43	..	447	43	..	w
14	..	..	Telegraph Typewriters (Revote) .. ..	24	..	90	24	..	w
16	..	..	Test Equipment .. ..	..	..	471	..	..	
25	..	..	Radio Masts (Revote) .. ..	826	..	..	826	..	w
26	..	..	Equipment Modifications and Improvements (Revote) .. ..	184	..	588	184	..	w
28	..	..	Quartz Crystals (Revote) .. ..	53	..	165	53	..	w
30	..	..	Numbering Machines (Revote) .. ..	60	..	..	60	..	w
32	..	..	Transmitter Replacements (Revote) .. ..	9,183	..	10,872	9,183	..	w
33	..	..	Power Supplies (Revote) .. ..	3,250	..	..	3,250	..	w
			Total (61) Special Expenditure (Scheme D.3264—Part I) .. ..	14,532	..	13,587	14,532	..	
			Total Recurrent .. ..	504,136	484,518	470,645	101,320	81,702	
			(51) Special Expenditure .. ..	25,400	..	..	25,400	..	
			(52) Special Expenditure .. ..	337	..	8,095	337	..	
			(53) Special Expenditure .. ..	120	..	6	120	..	
			(55) Special Expenditure .. ..	144	..	2,859	144	..	
			(56) Special Expenditure .. ..	10,591	..	28,456	10,591	..	
			(57) Special Expenditure .. ..	51,544	..	..	51,544	..	
			(58) Special Expenditure .. ..	12,150	12,150	..	..	..	
			(59) Special Expenditure .. ..	4,417	..	3,047	4,417	..	
			Items not repeated .. ..	..	..	183	..	..	
			TOTAL E.A. DIRECTORATE OF CIVIL AVIATION .. ..	623,371	496,668	526,878	208,405	81,702	
			NET INCREASE—£126,703						

For explanation of notes other than x, see inside front cover.

### HEAD 24—EAST AFRICAN DIRECTORATE OF CIVIL AVIATION

For the year 1960/61 the Ministry of Civil Aviation has agreed to contribute £180,000 towards the cost of Ground Services for Civil Aviation and in addition to meet, in full, the cost of special services required by the Ministry.

If the Ministry had continued to contribute at the rate of 35 per cent to the E.A. Directorate of Civil Aviation and 25 per cent to the E.A. Meteorological Department the requirements for 1960/61 would be:—

	£	£
D.C.A. Net Recurrent .. .. .		440,193
M.C.A. at 35% .. .. .	154,067	
E.A. Meteorological Department—		
Net Expenditure Div. 1 .. .. .		237,186
Net Recurrent Div. 3 .. .. .		45,242
		<hr/>
M.C.A. at 25% .. .. .	70,607	282,428
Total Requirements from M.C.A. .. .. .	<u>£224,674</u>	

The £180,000 contribution divided *pro rata* will provide:—

£123,432 for the E.A. Directorate of Civil Aviation.

£56,568 for the E.A. Meteorological Department.

#### DIRECTORATE OF CIVIL AVIATION

Recurrent—	£	£
Total Cost .. .. .		504,136
Less—		
Rents .. .. .	7,700	
Aviation Fees .. .. .	5,250	
Air Transport Licences .. .. .	400	
Sale of Documents .. .. .	359	
Air Navigational Charges .. .. .	38,534	
Class "B" Traffic Charges .. .. .	300	
R.A.F. (Teleprinter Line) .. .. .	3,900	
M.C.A. (Lodwar) .. .. .	5,000	
M.C.A. Calibration of Navigational Aids .. .. .	<u>2,500</u>	
		<hr/>
		63,943
		<hr/>
		440,193
M.C.A. Contribution at 35% of Net Recurrent Available .. .. .	154,067 <u>123,432</u>	123,432
Shortfall .. .. .	30,635	316,761
Divided—		
Kenya .. .. . 72%	22,058	
Tanganyika .. .. . 15%	4,595	
Uganda .. .. . 12%	3,676	
Zanzibar .. .. . 1%	<u>306</u>	
		<hr/>
		30,635
		<hr/>
		286,126
Divided—		
Kenya .. .. . 19.2% of £440,193	84,517	
Tanganyika .. .. . 34.2% of £440,193	150,546	
Uganda .. .. . 8.1% of £440,193	35,656	
Zanzibar .. .. . 3.5% of £440,193	<u>15,407</u>	
		<hr/>
		286,126

## DIRECTORATE OF CIVIL AVIATION—(Contd.)

	£	£
Special Expenditure (51) .. .. .		25,400
H.M.G. (C.D. & W.) 50% .. .. .		12,700
		<u>12,700</u>
Divided—		
Kenya .. .. .	4,545	
Tanganyika .. .. .	5,005	
Uganda .. .. .	3,040	
Zanzibar .. .. .	110	
		<u>12,700</u>
Special Expenditure heads (52) and (53)		457
H.M.G. (C.D. & W.) 37½% .. .. .	171	
High Commission Fund .. .. .	286	
		<u>457</u>
Special Expenditure heads (56), (57), (58) and (61)		88,817
H.M.G. (C.D. & W.) 50% .. .. .	44,408	
High Commission Fund .. .. .	44,409	
		<u>88,817</u>
Special Expenditure (55)—		
High Commission Fund .. .. .		144
Special Expenditure (59) .. .. .		4,417
R.A.F. .. .. .	142	
M.C.A. .. .. .	4,275	
		<u>4,417</u>

## Summary

	£
M.C.A. .. .. .	135,207
Air Ministry .. .. .	4,042
H.M.G. (C.D. & W.) .. .. .	57,279
Kenya .. .. .	111,120
Tanganyika .. .. .	160,146
Uganda .. .. .	42,372
Zanzibar .. .. .	15,823
Rents Received .. .. .	7,700
Aviation Fees .. .. .	5,250
Air Transport Licences .. .. .	400
Sale of Documents .. .. .	359
Air Navigational Charges .. .. .	38,534
Class "B" Traffic Charges .. .. .	300
High Commission Fund .. .. .	44,839
Total .. .. .	<u>£623,371</u>

## EXPENDITURE

## HEAD 25—EAST AFRICAN METEOROLOGICAL DEPARTMENT

I. ESTIMATE of the amount required in the year ending 30th June, 1961.

Four hundred and nineteen thousand, nine hundred and three pounds.  
(£419,903)

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
<b>(1) GENERAL</b>									
<b>PERSONAL EMOLUMENTS</b>									
1	1	1	*Director .. .. .	2,900	2,900	..	..	..	
2	1	1	*Deputy Director .. .. .	2,500	2,500	..	..	..	
3	1	1	*Officer in Charge Central Service £2,000 x 70-£2,140 .. .. .	2,140	2,070	..	70	..	a
4	3	3	*Regional Representatives, £2,000 x 70- £2,140 .. .. .	6,420	6,420	..	..	..	
5	7	7	*Meteorologists, A .. .. .	8,500	10,322	..	..	1,822	
6	6	30	*Senior Technical Officers, C.2 .. .. .	8,500	8,919	..	..	8,919	
			*Technical Officers, C.6-2 .. .. .	32,660	17,404	..	15,256	..	
6	8	..	*Junior Technical Officers, C.6-5 .. .. .	..	1,874	..	..	1,874	
			*Office Superintendent, C.4-3 .. .. .	1,341	1,341	..	..	..	
8	1	1	*Instrument Mechanic, C.5-3 .. .. .	1,317	1,275	..	42	..	a
9	1	1	*Librarian, B.5-3 .. .. .	839	812	..	27	..	a
10	2	2	*Personal Secretaries Grade II .. .. .	1,524	1,479	..	45	..	a
11	5	5	*Secretary/Stenographers .. .. .	2,650	2,320	..	330	..	a
12	1	1	*Executive Officer Grade II, C.5-4 .. .. .	825	825	..	..	..	
13	14	15	*Clerks, 10 E.4-1, 5 E.6-5 .. .. .	3,849	3,197	..	652	..	a
14	1	1	*Assistant Storekeeper, C.6-5 .. .. .	732	732	..	..	..	
15	1	1	*Telephonist Grade II, E.6-3 .. .. .	283	269	..	14	..	a
16	4	5	*Artisans Grade I, E.4-3 .. .. .	1,201	942	..	259	..	a
17	10	10	*Senior Technical Assistants, C.6-4 .. .. .	8,744	8,327	..	417	..	a
18	21	21	*Technical Assistants Grade I, E.2-1 .. .. .	9,809	9,504	..	305	..	a
19	163	96	*Technical Assistants Grade II, E.4-3 .. .. .	25,315	35,419	..	1,800	..	a
20			67	*Junior Technical Assistants, E.6-5 .. .. .					
21	1	1	*Key Punch Operator Grade I, E.4-3 .. .. .	340	328	..	12	..	a
22	2	2	*Key Punch Operators Grade II, E.6-5 .. .. .	342	360	..	..	18	c
23	5	5	*Drivers, E.6-5 .. .. .	737	715	..	22	..	a
24	..	35	Subordinate Staff .. .. .	3,000	3,000	..	..	..	
25	..	..	Allowances to Part-time Observers .. .. .	500	500	..	..	..	
26	..	..	Personal Allowances .. .. .	480	852	..	..	372	
27	..	..	Gratuities .. .. .	3,002	1,353	..	1,649	..	
	276	313	Total Personal Emoluments .. .. .	£ 133,854	125,959	117,567			

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 25—EAST AFRICAN METEOROLOGICAL DEPARTMENT—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	5,000	5,000	6,175	..	..	
3	..	..	Incidental Expenses .. .. .	375	375	432	..	..	
4	..	..	Staff Housing and Allowances .. .. .	28,535	23,094	21,303	5,441	..	
5	..	..	Common Services .. .. .	48,029	46,738	42,988	1,291	..	l
6	..	..	Equipment and Supplies .. .. .	14,320	12,050	12,643	2,270	..	
7	..	..	Maintenance of Buildings and Estate .. .. .	1,050	1,200	1,619	..	150	
8	..	..	Maintenance of M/V and Boats .. .. .	600	600	594	..	..	
9	..	..	Maintenance of Plant and Equipment .. .. .	350	550	555	..	200	
10	..	..	Essential Services .. .. .	1,200	1,200	1,151	..	..	
11	..	..	Hospital Contributions and A.O.F.P.F. .. .. .	470	540	378	..	70	
12	..	..	Library .. .. .	400	325	300	75	..	
14	..	..	Uniforms .. .. .	250	250	246	..	..	
15	..	..	Training Courses .. .. .	2,540	630	658	1,910	..	
18	..	..	Rents .. .. .	500	500	314	..	..	
20	..	..	Fees, Rewards and Contributions .. .. .	1,000	1,000	939	..	..	
29	..	..	Posts and Telegraphs Services .. .. .	15,000	15,000	14,701	..	..	
30	..	..	Printing and Stationery .. .. .	2,750	2,400	2,613	350	..	
			Total Annually Recurrent .. .. .	£ 122,369	111,452	107,609			
			Total Recurrent .. .. .	£ 256,223	237,411	225,176	32,237	13,425	
			NET INCREASE—£18,812						
			(51) Special Expenditure						
1	..	..	Equipment .. .. .	2,970	..	..	2,970	..	
2	..	..	Furniture and Fittings .. .. .	600	..	..	600	..	
3	..	..	Equipment Renewals .. .. .	2,500	..	..	2,500	..	
4	..	..	Motor Vehicles (Replacements) .. .. .	1,760	..	..	1,760	..	
			Total (51) Special Expenditure .. .. .	£ 7,830	..	14,622	7,830	..	
			(58) SPECIAL EXPENDITURE (SCHEME D.3662)						
1	..	..	Junior Staff Housing (Revote) .. .. .	18,500	..	..	18,500	..	w
			Total (58) Special Expenditure .. .. .	£ 18,500	..	..	18,500	..	
			(61) SPECIAL EXPENDITURE (NON-SCHEME)						
1	..	..	Equipment (Revote) .. .. .	485	..	..	485	..	w
4	..	..	Contingencies (Revote) .. .. .	250	..	..	250	..	w
8	..	..	Radio Equipment (Revote) .. .. .	3,790	..	..	3,790	..	w
			Total (61) Special Expenditure .. .. .	£ 4,525	..	..	4,525	..	
			TOTAL (I) GENERAL .. .. .	£ 287,078	237,411	239,798	63,092	13,425	
			NET INCREASE—£49,667						

For explanation of notes other than x, see inside front cover.



## EXPENDITURE

## HEAD 25—EAST AFRICAN METEOROLOGICAL DEPARTMENT—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	*59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(2) RESEARCH SECTION						
			PERSONAL EMOLUMENTS						
1	1	1	*Meteorologist, A .. .. .	1,589	1,532	..	57	..	a
2	1	1	*Technical Officer, C.6-2 .. .. .	813	849	..	..	36	
3	1	1	*Senior Technical Assistant, C.6-4 .. .. .	850	802	..	48	..	a
4	3	2	*Technical Assistants, Grade II, E.4-3 .. .. .	467	637	..	..	170	
5	..	1	*Junior Technical Assistant, E.6-5.. .. .	163	..	..	163	..	
6	..	..	Labour, S.S. .. .. .	245	..	..	245	..	
7	..	..	Pension Contributions (C.R.S.) .. .. .	414	387	..	27	..	
	6	6	Total Personal Emoluments .. .. .£	4,541	4,207	3,993			
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	545	500	497	45	..	
3	..	..	Incidental Expenses .. .. .	50	20	24	30	..	
4	..	..	Staff Housing and Allowances .. .. .	915	568	367	347	..	
5	..	..	Common Services .. .. .	1,363	1,284	1,413	79	..	l
6	..	..	Equipment and Supplies .. .. .	..	1,000	624	..	1,000	
8	..	..	Maintenance of Motor Vehicles .. .. .	..	60	99	..	60	
10	..	..	Essential Services .. .. .	20	20	20	..	..	
11	..	..	Hospital Contributions and A.O.F.P.F. .. .. .	30	30	..	..	..	
12	..	..	Library .. .. .	50	..	..	50	..	
29	..	..	Posts and Telegraphs Services .. .. .	50	5	20	45	..	
30	..	..	Printing and Stationery .. .. .	50	20	15	30	..	
			Total Annually Recurrent .. .. .£	3,073	3,507	3,079			
			(52) Special Expenditure						
1	..	..	Office Equipment .. .. .	200	..	..	200	..	
2	..	..	Technical Equipment .. .. .	1,580	..	..	1,580	..	
3	..	..	Camp Equipment .. .. .	50	..	..	50	..	
			Total Special Expenditure .. .. .£	1,830	..	..			
			(62) SPECIAL EXPENDITURE (SCHEME R.844)						
2	..	..	Technical Equipment (Revote) .. .. .	750	..	..	750	..	w
			Items not reported .. .. .	..	1,400	629	..	1,400	
			Total Special Expenditure (62) .. .. .£	750	1,400	629			
			TOTAL (2) RESEARCH SECTION .. .. .£	10,194	9,114	7,701	3,746	2,666	
			NET INCREASE—£1,080						

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 25—EAST AFRICAN METEOROLOGICAL DEPARTMENT—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(3) DEVELOPMENT						
			PERSONAL EMOLUMENTS						
1	1	1	*Technical Officer, C.6-2 .. .. .	1,187	1,341	..	..	154	c
2	1	1	*Senior Technical Assistant, C.6-4 ..	850	802	..	48	..	a
3	4	4	*Technical Assistants Grade I, E.2-1 ..	2,197	2,144	..	53	..	a
4	38	17	*Technical Assistants Grade II, E.4-3 ..	4,239	7,237	..	430	..	a
5	..	21	*Junior Technical Assistants, E.6-5 ..	3,428					
	44	44	*Total Personal Emoluments .. .. £	11,901	11,524	8,251			
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	900	900	653	..	..	
3	..	..	Incidental Expenses .. .. .	15	15	12	..	..	
4	..	..	Staff Housing and Allowances .. ..	1,925	1,438	807	487	..	
5	..	..	Common Services .. .. .	5,335	5,543	4,369	..	208	l
6	..	..	Equipment and Supplies .. .. .	13,150	10,000	11,816	3,150	..	
9	..	..	Maintenance of Plant and Equipment ..	50	50	53	..	..	
10	..	..	Essential Services .. .. .	40	40	50	..	..	
11	..	..	Hospital Contributions and A.O.F.P.F. ..	60	80	49	..	20	
29	..	..	Posts and Telegraphs Services .. ..	12,000	12,000	7,860	..	..	
30	..	..	Printing and Stationery .. .. .	250	250	222	..	..	
			Total Annually Recurrent .. .. £	33,725	30,316	25,891			
			(53) Special Expenditure						
2	..	..	Radio Teletype Receivers .. .. .	6,000	..	..	6,000	..	
3	..	..	Radio Teletype Transmitters .. ..	1	..	..	1	..	
4	..	..	Cloud Base Recorder for Nairobi Airport	3,000	..	..	3,000	..	
5	..	..	Equipment Installation .. .. .	100	..	..	100	..	
			Total (53) Special Expenditure .. £	9,101	..	..			
			(63) SPECIAL EXPENDITURE (SCHEME D.3031)						
1	..	..	Equipment (Revote) .. .. .	2,800	1,800	..	1,000	..	w
2	..	..	Furniture and Fittings (Revote) .. ..	130	..	..	130	..	w
3	..	..	Installation of Equipment (Revote) ..	300	100	..	200	..	w
			Total (63) Special Expenditure .. £	3,230	1,900	1,660			
			TOTAL (3) DEVELOPMENT .. .. £	57,957	43,740	35,802	14,599	382	
			NET INCREASE—£14,217						

For explanation of notes other than x, see inside front cover.

137  
EXPENDITURE

HEAD 25—EAST AFRICAN METEOROLOGICAL DEPARTMENT—(Contd.)

II. DETAILS OF THE ESTIMATES—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
<b>(4) FORECASTING RESEARCH</b>									
PERSONAL EMOLUMENTS									
1	..	1	U.K. Principal Scientific Officer ..	1,610	} 2,940	..	547	..	
2	..	..	Superannuation U.K.P.S.O. ..	363					
3	..	..	Foreign Service Allowance U.K.P.S.O.	1,265					
4	..	2	*Junior Technical Assistants, E.6-5	249					
..	..	3	Total Personal Emoluments .. .. £	3,487	2,940	3,187			
OTHER CHARGES ANNUALLY RECURRENT									
2	..	..	Transport and Travelling .. ..	100	} 923	..	215	..	
3	..	..	Incidental Expenses .. ..	100					
4	..	..	Staff Housing and Allowances ..	484					
5	..	..	Common Services .. ..	454					
..	..	..	Total Annually Recurrent .. .. £	1,138	923	1,238			
..	..	..	TOTAL (4) FORECASTING RESEARCH .. £	4,625	3,863	4,425	762		
NET INCREASE—£762									
(5) Geomagnetic Survey (Untaa)									
40	..	..	Other Charges Annually Recurrent ..	..	3,000	..	..	3,000	
..	..	..	Total Geomagnetic Survey .. .. £	..	3,000	..	..	3,000	
(6) Cross Training—Meteorological Department and Directorate of Civil Aviation									
1	..	..	Personal Emoluments .. ..	..	1,460	..	..	1,460	
40	..	..	Other Charges Annually Recurrent ..	..	850	..	..	850	
..	..	..	Total Cross Training .. .. £	..	2,310	..	..	2,310	

## EXPENDITURE

## HEAD 25—EAST AFRICAN METEOROLOGICAL DEPARTMENT—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure, 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			<b>(7) SUPPLEMENTARY DEVELOPMENT</b>						
			<b>(Jet Aircraft Operations)</b>						
			PERSONAL EMOLUMENTS						
1	..	2	*Technical Officers, C6-2 .. .. .	2,112	..	..	2,112	..	
2	..	3	*Senior Technical Assistant, C.6-4 ..	1,872	..	..	1,872	..	
3	..	12	*Technical Assistants, Grade I, E.2-1 ..	3,483	..	..	3,483	..	
4	..	23	*Technical Assistants, Grade II, E.4-3 ..	4,800	..	..	4,800	..	
5	..	12	*Junior Technical Assistants, E.6-5 ..	1,150	..	..	1,150	..	
6	..	6	Broadcasters, E(W).1-C(W).6 .. .. .	3,330	..	..	3,330	..	
7	..	9	Subordinate Staff .. .. .	648	..	..	648	..	
	..	67	Total Personal Emoluments .. .. .£	17,395	..	..	..	..	w
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	1,000	..	..	1,000	..	
3	..	..	Incidental Expenses .. .. .	50	..	..	50	..	
4	..	..	Staff Housing and Allowances .. .. .	5,100	..	..	5,100	..	
5	..	..	Common Services .. .. .	3,982	..	..	3,982	..	l
6	..	..	Equipment and Supplies .. .. .	10,200	..	..	10,200	..	
7	..	..	Maintenance of Buildings and Estate ..	50	..	..	50	..	
9	..	..	Maintenance of Plant and Equipment ..	75	..	..	75	..	
10	..	..	Essential Services .. .. .	500	..	..	500	..	
11	..	..	Hospital Contributions and A.O.F.P.F. ..	55	..	..	55	..	
14	..	..	Uniforms .. .. .	90	..	..	90	..	
20	..	..	Fees, Rewards and Contributions .. .. .	150	..	..	150	..	
29	..	..	Posts and Telegraphs Services .. .. .	3,000	..	..	3,000	..	
30	..	..	Printing and Stationery .. .. .	300	..	..	300	..	
			Total Annually Recurrent .. .. .£	24,552	..	..	..	..	w
			(57) SPECIAL EXPENDITURE						
1	..	..	Radio Sonde Building .. .. .	3,999	..	..	3,999	..	
2	..	..	SFERICS Equipment .. .. .	8,960	..	..	8,960	..	
3	..	..	Hydrogen Generators .. .. .	649	..	..	649	..	
4	..	..	Radio Sonde Ground Equipment .. .. .	1,375	..	..	1,375	..	
6	..	..	Calculators .. .. .	799	..	..	799	..	
7	..	..	Radio Transceivers and Generators ..	1,520	..	..	1,520	..	
8	..	..	Installation Costs .. .. .	400	..	..	400	..	
9	..	..	Furniture and Fittings .. .. .	400	..	..	400	..	
			Total (57) Special Expenditure .. .. .£	18,102	..	..	..	..	w
			TOTAL (7) SUPPLEMENTARY DEVELOPMENT (JET AIRCRAFT OPERATIONS) .. .. .£	60,049	..	..	60,049	..	w

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 25—EAST AFRICAN METEOROLOGICAL DEPARTMENT—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure, 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			TOTAL (1) GENERAL .. .. .	£ 287,078	237,411	239,798	63,092	13,425	
			TOTAL (2) RESEARCH SECTION .. .. .	£ 10,194	9,114	7,701	3,746	2,666	
			TOTAL (3) DEVELOPMENT .. .. .	£ 57,957	43,740	35,802	14,599	382	
			TOTAL (4) FORECASTING RESEARCH .. .. .	£ 4,625	3,863	4,425	762	..	
			Total (5) Geomagnetic Survey .. .. .	£ ..	3,000	..	..	3,000	
			Total (6) Cross Training .. .. .	£ ..	2,310	..	..	2,310	
			TOTAL (7) SUPPLEMENTARY DEVELOPMENT (JET AIRCRAFT OPERATIONS) .. .. .	£ 60,049	..	..	60,049	..	
			TOTAL E.A. METEOROLOGICAL DEPARTMENT .. .. .	£ 419,903	299,438	287,726	142,248	21,783	
			NET INCREASE—£120,465						

## HEAD 25—EAST AFRICAN METEOROLOGICAL DEPARTMENT

The method of allocating the M.C.A. contribution towards ground services for Civil Aviation between the East African Directorate of Civil Aviation and the East African Meteorological Department is shown under Head 24.

	(1) General	£	£	£
Total Cost .. .. .				287,078
Less—				
Rents received .. .. .			3,646	
Sales .. .. .			100	
Air Navigational Charges .. .. .			23,121	
Special Expenditure (58) 100% C.D. & W. .. .. .			18,500	
Special Expenditure (61) High Commission Fund .. .. .			4,525	
			<u>49,892</u>	
				237,186
M.C.A. at 25% of Net Expenditure .. .. .			59,296	
Available .. .. .			56,568	56,568
Shortfall .. .. .			2,728	180,618
Divided—				
Kenya .. .. .	53%	1,446		
Tanganyika .. .. .	10%	273		
Uganda .. .. .	37%	1,009		
		<u>2,728</u>		2,728
				177,890
Egypt .. .. .			2,400	
Seychelles .. .. .			200	
			<u>2,600</u>	2,600
				175,290
Divided—				
Kenya .. .. .	37%	64,857		
Tanganyika .. .. .	32%	56,093		
Uganda .. .. .	29%	50,834		
Zanzibar .. .. .	2%	3,506		
		<u>175,290</u>		175,290
	(2) Research			
Special Expenditure (52) .. .. .				1,830
Less H.M.G. (C.D. & W.) 75% .. .. .				1,372
E.A. Governments at 25% .. .. .				458
Divided—				
Kenya .. .. .			153	
Tanganyika .. .. .			153	
Uganda .. .. .			152	
			<u>458</u>	458
Recurrent .. .. .				7,614
Less Rents .. .. .				120
				<u>7,494</u>
H.M.G. 30% .. .. .				2,248
East African Governments at 70% .. .. .				<u>5,246</u>



## (7) Supplementary Development

	£	£
Total Cost .. .. .		60,049
Rents received .. .. .	250	
Sources not determined .. .. .	59,799	
		<u>60,049</u>

## Summary

	£
M.C.A. .. .. .	56,568
H.M.G. (C.D. & W.) .. .. .	26,417
Kenya .. .. .	90,890
Tanganyika .. .. .	73,938
Uganda .. .. .	71,176
Zanzibar .. .. .	4,367
Egypt .. .. .	2,400
Seychelles .. .. .	200
Air Navigational Charges .. .. .	23,121
Sales .. .. .	100
Rents received .. .. .	4,412
High Commission Fund .. .. .	6,515
Sources not determined .. .. .	59,799
Total .. .. .	<u>£419,903</u>



## EXPENDITURE

## HEAD 27—MISCELLANEOUS SERVICES

I. ESTIMATE of the amount required in the year ending 30th June, 1961.

One hundred and five thousand, eight hundred and ninety-nine pounds.  
(£105,899)

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
<b>(1) MAINTENANCE SECTION</b>									
PERSONAL EMOLUMENTS									
1	..	1	*Property and Maintenance Officer, C.2-1 ..	1	..	..	1	..	<i>f</i>
2	..	1	*Junior Executive Officer, C.6-5 .. ..	1	..	..	1	..	<i>f</i>
3	..	1	*Clerk, E.4-1 .. .. .	1	..	..	1	..	<i>f</i>
	..	3	Total Personal Emoluments .. .. £	3	..	..			
OTHER CHARGES ANNUALLY RECURRENT									
40	..	..	Other Charges .. .. .	17,497	16,612	12,074	885	..	<i>m</i>
			TOTAL (1) MAINTENANCE SECTION .. £	17,500	16,612	12,074	888	..	
NET INCREASE—£888									
<b>(2) GENERAL</b>									
1	..	..	Expenses of Conferences .. .. .	50	50	..	..	..	
2	..	..	Printing and Stationery .. .. .	2,000	2,000	1,959	..	..	
3	..	..	Contingencies .. .. .	200	200	8	..	..	
4	..	..	E.A. Tourist Travel Association .. ..	100	100	100	..	..	
5	..	..	Commission on Remittances .. .. .	150	150	210	..	..	
6	..	..	Pensions .. .. .	1	1	..	..	..	
7	..	..	Rates .. .. .	1,200	800	800	400	..	
8	..	..	Interest on Kenya Loan .. .. .	600	600	600	..	..	
9	..	..	Interest on E.A. Loan .. .. .	3,000	3,000	3,000	..	..	
10	..	..	Sinking Fund—Kenya Loan .. .. .	300	300	300	..	..	
11	..	..	Sinking Fund—E.A. Loan .. .. .	1,500	1,500	1,500	..	..	
12	..	..	Interest and Repayment—Bank Loan ..	22,548	22,548	22,547	..	..	
13	..	..	Interest and Repayment—Pension Fund Loan .. .. .	48,975	49,267	37,760	..	292	
			Total Recurrent .. .. . £	80,624	80,516	68,784	400	292	

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 27—MISCELLANEOUS SERVICES—(Contd.)

## II DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure, 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(52) SPECIAL EXPENDITURE						
1	..	..	High Commission Headquarters (Revote)	2,500	..	20,793	2,500	..	w
11	..	..	Additional Furniture for Houses (Revote)	5,000	..	4,494	5,000	..	w
13	..	..	Junior Staff Housing (Revote) .. ..	275	..	..	275	..	w
			Items not repeated .. .. .	..	..	25,453	..	..	
			Total (52) Special Expenditure .. £	7,775	..	50,740	7,775	..	
			TOTAL (2) GENERAL .. .. . £	88,399	80,516	119,524	8,175	292	
			NET INCREASE—£7,883						
			TOTAL (1) MAINTENANCE SECTION .. £	17,500	16,612	12,074	888	..	
			TOTAL MISCELLANEOUS SERVICES .. £	105,899	97,128	131,598	9,063	292	
			NET INCREASE—£8,771						

## HEAD 27—MISCELLANEOUS SERVICES

The Revenue is provided as follows:—

Loans Fund	..	..	..	..	..	..	..	..	..	£	7,775
High Commission Fund	..	..	..	..	..	..	..	..	..		1
Rents	..	..	..	..	..	..	..	..	..		95,623
Kenya	..	..	..	..	..	..	..	..	..		833
Tanganyika	..	..	..	..	..	..	..	..	..		833
Uganda	..	..	..	..	..	..	..	..	..		834
Total	..	..	..	..	..	..	..	..	..		<u>£105,899</u>

## EXPENDITURE

## HEAD 28—EAST AFRICAN CUSTOMS AND EXCISE DEPARTMENT

## I. ESTIMATE of the amount required in the year ending 30th June, 1961.

Nine hundred and sixty thousand, three hundred and eight pounds.  
(£960,308)

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
<b>(1) CUSTOMS AND EXCISE</b>									
<b>PERSONAL EMOLUMENTS</b>									
1	1	1	*Commissioner .. .. .	2,900	2,900	..	..	..	
2	1	1	*Deputy Commissioner .. .. .	2,500	2,500	..	..	..	
3	5	5	*Regional Commissioners, £2,300 ..	11,500	11,500	..	..	..	
4	4	5	*Principal Collectors, £2,000 x 70-£2,140..	10,560	8,496	..	2,064	..	
5	6	6	*Senior Collectors, B.1 .. .. .	10,845	10,664	..	181	..	a
6	13	13	*Collectors, B.4-2 .. .. .	17,640	17,241	..	399	..	a
7	49	52	*Examining Officers, C.6-2 .. .. .	43,445	41,086	..	2,359	..	a
8	1	..	*Invoice Inspector, C.4-3 .. .. .	..	1,317	..	..	1,317	k
9	7	7	*Customs Officers Special Grade, C.4-3 ..	6,347	6,022	..	325	..	a
10	37	36	*Customs Officers Grade I, C.4 .. .. .	28,944	31,815	..	..	2,871	
11	387	416	*Customs Officers Grade II, E.4-C.5 ..	187,272	183,668	..	3,604	..	a
12	..	1	*Chief Investigation Officer, £2,000 x 70-£2,140 .. .. .	2,000	..	..	2,000	..	m
13	..	4	*Senior Investigation Officers, B.4-2 ..	4,658	..	..	4,658	..	m
14	..	9	*Investigation Officers, C.6-2 .. .. .	7,806	..	..	7,806	..	m
15	..	1	*Preventive Superintendent, C.1 .. .. .	1,617	..	..	1,617	..	m
16	4	4	*Chief Preventive Officers, C.3-2 .. .. .	5,218	5,285	..	..	67	a, c
17	18	24	*Preventive Officers, C.5-4 .. .. .	22,500	18,130	..	4,370	..	a
18	..	10	*Assistant Preventive Officers, E.4-1 ..	1,875	..	..	1,875	..	
19	8	8	*Drivers, E.6-5 .. .. .	1,233	1,205	..	28	..	a
20	1	1	*Inspector, P.3 .. .. .	732	732	..	..	..	
21	2	2	*Sergeant Majors, P.9-8 .. .. .	43,945	44,396	..	..	451	
	13	13	*Sergeants, P.11-10 .. .. .						
	36	36	*Corporals, P.12 .. .. .						
22	345	345	Preventive Men, P.14 .. .. .						
	1	1	*Chief Accountant and Statistical Officer, £2,000 x 70-£2,140 .. .. .	2,140	2,140	..	..	..	
23	1	1	*Deputy Chief Accountant, B.1 .. .. .	1,863	1,863	..	..	..	
24	1	1	*Senior Accountant, B.1 .. .. .	1,863	1,800	..	63	..	a
25	1	1	*Accountant, B.4-2 .. .. .	1,462	1,414	..	48	..	a
26	2	2	*Accounts Officers Grade I, C.4-3 .. ..	2,100	1,995	..	105	..	a
27	3	3	*Accounts Officers Grade II, C.4 .. .. .	2,689	2,670	..	19	..	a
28	1	1	*Executive Officer, Buildings Grade I, C.4-3	1,341	1,341	..	..	..	
29	1	1	*Senior Executive Officer, C.3-2 .. .. .	1,436	1,394	..	42	..	a
	949	1,011	<i>Carried forward</i> .. £	428,431	401,574	..	31,563	4,706	

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 28—EAST AFRICAN CUSTOMS AND EXCISE DEPARTMENT—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
			(1) CUSTOMS AND EXCISE—(Contd.)	£	£	£	£	£	
			PERSONAL EMOLUMENTS—(Contd.)						
	949	1,011	<i>Brought forward</i> .. .. .	£ 428,431	401,574	..	31,563	4,706	
30	..	1	*Executive Officer Grade I, C.4-3 .. .. .	897	..	..	897	..	
31	3	2	*Executive Officers Grade II, C.5-4 .. .. .	1,768	2,665	..	..	897	
32	25	27	*Junior Executive Officers, C.6-5 .. .. .	17,966	16,363	..	1,603	..	a
33	219	244	*Clerks, 201 E.4-1, 43 E.6-5 .. .. .	66,013	59,476	..	6,537	..	a
34	1	1	*Personal Secretary Grade II .. .. .	624	667	..	..	43	c
35	8	12	*Secretary/Stenographers .. .. .	8,024	5,757	..	2,267	..	a
36	2	3	Pool Typists, E.3-1 .. .. .	885	690	..	195	..	a
37	3	3	*Telephonists Grade I, E.3-1 .. .. .	1,347	1,232	..	115	..	a, c
38	..	..	Subordinate Staff, S.S. .. .. .	10,180	10,000	..	180	..	a
39	..	..	Temporary Clerical Assistance .. .. .	500	500	..	..	..	
40	..	..	Leave Pay .. .. .	4,721	3,249	..	1,472	..	
41	..	..	Gratuities .. .. .	1,013	839	..	174	..	
42	..	..	Personal Allowances .. .. .	6,024	3,351	..	2,673	..	
43	..	..	Public Overtime .. .. .	16,500	17,500	..	..	1,000	
44	..	..	Crown Overtime .. .. .	2,500	4,500	..	..	2,000	
45	..	..	Provident Fund Contributions .. .. .	3,300	3,602	..	..	302	
	1,210	1,304	Total Personal Emoluments .. .. .	£ 570,693	531,965	502,269	47,676	8,948	
			OTHER CHARGES ANNUALLY RECURRENT						
2	..	..	Transport and Travelling .. .. .	16,000	12,350	12,920	3,650	..	
3	..	..	Incidental Expenses .. .. .	750	700	543	50	..	
4	..	..	Staff Housing and Allowances .. .. .	110,000	107,308	94,209	2,692	..	
5	..	..	Common Services .. .. .	176,483	159,649	163,541	16,834	..	l
6	..	..	Equipment and Supplies .. .. .	8,100	8,000	4,124	100	..	
7	..	..	Maintenance of Building and Estate .. .. .	1,500	1,200	578	300	..	
8	..	..	Maintenance of M/V and Boats .. .. .	1,500	1,700	1,057	..	200	
9	..	..	Maintenance of Plant and Equipment .. .. .	2,250	2,500	1,100	..	250	
10	..	..	Essential Services .. .. .	1,500	1,500	1,038	..	..	
11	..	..	Hospital Contributions and A.O.F.P.F. .. .. .	6,480	5,642	5,799	838	..	
14	..	..	Uniforms .. .. .	9,230	9,200	7,554	30	..	
18	..	..	Rents .. .. .	23,470	22,833	12,743	637	..	
20	..	..	Fees, Rewards and Contributions .. .. .	2,000	1,240	888	760	..	
29	..	..	Posts and Telegraphs Services .. .. .	13,150	13,000	9,611	150	..	
30	..	..	Printing and Stationery .. .. .	11,600	11,300	9,970	300	..	
			<i>Items not repeated</i> .. .. .	..	..	36	..	..	
			Total Annually Recurrent .. .. .	£ 384,013	358,122	325,711	26,341	450	
			Total Personal Emoluments .. .. .	£ 570,693	531,965	502,269	47,676	8,948	
			Total Recurrent .. .. .	£ 954,706	890,087	827,980	74,017	9,398	
			NET INCREASE—£64,619						

For explanation of notes other than x, see inside front cover.

## EXPENDITURE

## HEAD 28—EAST AFRICAN CUSTOMS AND EXCISE DEPARTMENT—(Contd.)

## II. DETAIL OF THE ESTIMATE—(Contd.)

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(51) SPECIAL EXPENDITURE						
1	..	..	Fire Extinguishers .. .. .	14	56	..	..	42	
3	..	..	Fans .. .. .	293	80	299	213	..	
4	..	..	Boats and Equipment .. .. .	..	50	..	..	50	
6	..	..	Furniture .. .. .	1,500	1,045	1,566	455	..	
9	..	..	Office Equipment .. .. .	3,000	2,095	998	905	..	
10	..	..	Bicycles .. .. .	71	140	231	..	69	
11	..	..	Weighing Machines .. .. .	124	..	..	124	..	
13	..	..	New Custom House (Revote) .. .. .	600	..	91,934	600	..	w
			Items not repeated .. .. .	..	..	2,480	..	..	
			Total Special Expenditure .. .. .	£ 5,602	3,466	97,508	2,297	161	
			Total Recurrent .. .. .	£ 954,706	890,087	827,980	74,017	9,398	
			TOTAL (1) CUSTOMS AND EXCISE .. .. .	£ 960,308	893,553	925,488	76,314	9,559	
			NET INCREASE—£66,755						
			(2) Investigation Branch						
			Personal Emoluments						
1	1	..	Chief Investigation Officer, B.1 .. .. .	..	1,863	..	..	1,863	
2	2	..	Senior Investigation Officers, B.4-2 .. .. .	..	2,244	..	..	2,244	
3	9	..	Investigation Officers, C.6-2 .. .. .	..	9,130	..	..	9,130	
4	2	..	Customs Officers Special Grade .. .. .	..	2,031	..	..	2,031	
5	3	..	Secretary/Stenographers .. .. .	..	1,788	..	..	1,788	
6	10	..	Clerks, 2 E.2-1, 8 E.4-3 .. .. .	..	2,120	..	..	2,120	
7	..	..	Personal Allowances .. .. .	..	2,000	..	..	2,000	
8	..	..	Crown Overtime .. .. .	..	100	..	..	100	
9	..	..	Gratuities .. .. .	..	178	..	..	178	
	27	..	Total Personal Emoluments .. .. .	£ ..	21,454	16,131	..	21,454	
			Other Charges Annually Recurrent						
2	..	..	Transport and Travelling .. .. .	..	1,750	1,528	..	1,750	
3	..	..	Incidental Expenses .. .. .	..	50	61	..	50	
4	..	..	Staff Housing and Allowances .. .. .	..	4,300	3,089	..	4,300	
5	..	..	Common Services .. .. .	..	5,577	3,060	..	5,577	
6	..	..	Equipment and Supplies .. .. .	..	100	3	..	100	
7	..	..	Maintenance of Buildings and Estate .. .. .	..	..	2	..	..	
11	..	..	Hospital Contributions and A.O.F.P.F. .. .. .	..	104	9	..	104	
			Carried forward .. .. .	£ ..	11,881	7,752	..	11,881	

For explanation of notes other than x, see inside front cover.



## EXPENDITURE

## HEAD 29—EAST AFRICAN INCOME TAX DEPARTMENT

## I. ESTIMATE of the amount required in the year ending 30th June, 1961.

Seven hundred and seventy-four thousand and twelve pounds.  
(£774,012)

## II. DETAIL OF THE ESTIMATE

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	*59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
<b>1</b>			<b>PERSONAL EMOLUMENTS</b>						
1	1	1	*Commissioner .. .. .	2,900	2,900	..	..	..	
2	1	1	*Deputy Commissioner .. .. .	2,500	2,500	..	..	..	
3	..	..	Allowances for Supervision (Aden I.T.) .. .. .	..	150	..	..	150	
4	1	1	Principal Investigation Officer .. .. .	2,500	2,500	..	..	..	
5	3	2	*Assistant Deputy Commissioners, £2,400 .. .. .	4,800	7,200	..	..	2,400	<i>lk</i>
6	9	9	*Regional Commissioners, £2,300 .. .. .	18,400	20,700	..	..	2,300	
7	35	34	*Assistant Commissioners, £2,000 x 70-£2,140 .. .. .	54,026	73,010	..	..	18,984	
8	47	49	*Assessors, A. .. .. .	80,022	70,776	..	9,246	..	
9	112	116	*Tax Officers, 22 B.3-1, 65 C.4-2, 29 C.6-5 .. .. .	120,667	122,105	..	..	1,438	
10	1	1	*Accountant and Statistical Officer, B.1 .. .. .	1,863	1,863	..	..	..	
11	1	1	*Senior Executive Officer, C.3-2 .. .. .	1,494	1,446	..	48	..	<i>a</i>
12	1	1	*Personal Secretary Grade I .. .. .	996	996	..	..	..	
13	15	8	*Personal Secretaries Grade II .. .. .	5,851	12,522	..	..	6,671	
14	37	31	*Office Assistants, C.6-5 .. .. .	16,908	18,882	..	..	1,974	
15	32	39	*Secretary/Stenographers .. .. .	25,786	19,863	..	5,923	..	
16	220	209	*Clerks, 175 E.4-1, 34 E.6-5 .. .. .	106,111	104,709	..	1,402	..	
17	..	3	*Machine Operators/Key Punch Supervisors, E.2-1 .. .. .	4,694	..	..	4,694	..	
18	..	9	*Key Punch Operators Grade I .. .. .	..	..	..	..	..	
19	..	12	*Key Punch Operators Grade II .. .. .	..	..	..	..	..	
20	54	54	Office Messengers, S.S. .. .. .	4,142	3,675	..	467	..	<i>a</i>
21	..	..	Temporary Clerical Assistance .. .. .	2,400	2,400	..	..	..	
22	..	..	Gratuities .. .. .	15,793	14,559	..	1,234	..	
23	..	..	Personal Allowances .. .. .	1,806	2,422	..	..	616	
24	..	..	Leave Pay .. .. .	7,814	..	..	7,814	..	
	570	581	Total Personal Emoluments .. .. .	481,473	485,178	453,171			
			<b>OTHER CHARGES ANNUALLY RECURRENT</b>						
2	..	..	Transport and Travelling .. .. .	6,500	7,000	6,219	..	500	
3	..	..	Incidental Expenses .. .. .	1,300	1,750	1,202	..	450	
4	..	..	Staff Housing and Allowances .. .. .	62,128	61,488	58,243	640	..	
5	..	..	Common Services .. .. .	132,314	120,276	133,673	12,038	..	<i>l</i>
6	..	..	Equipment and Supplies .. .. .	2,450	1,500	1,126	950	..	
7	..	..	Maintenance of Buildings and Estates .. .. .	200	1	205	199	..	
9	..	..	Maintenance of Plant and Equipment .. .. .	2,250	4,000	2,980	..	1,750	
10	..	..	Essential Services .. .. .	1,600	1,600	1,916	..	..	
11	..	..	Hospital Contribution and A.O.F.P.F. .. .. .	729	805	531	..	76	
18	..	..	Rents .. .. .	30,318	27,904	28,358	2,414	..	
20	..	..	Fees, Rewards and Contributions .. .. .	10,000	10,000	9,234	..	..	
29	..	..	Posts and Telegraphs Services .. .. .	25,000	22,300	18,039	2,700	..	
30	..	..	Printing and Stationery .. .. .	15,400	16,400	14,731	..	1,000	
			Total Annually Recurrent .. .. .	290,189	275,024	276,457			

For explanation of notes other than x, see inside front cover.



151  
**EXPENDITURE**

**HEAD 29—EAST AFRICAN INCOME TAX DEPARTMENT—(Contd.)**

**II. DETAIL OF THE ESTIMATE—(Contd.)**

No.	Establishment		DETAILS	Estimates		Expenditure 1958/59	Increase	Decrease	Notes
	'59/60	1960/1		1960/61	1959/60				
				£	£	£	£	£	
			(51) SPECIAL EXPENDITURE						
1	..	..	Equipment .. .. .	350	900	1,623	..	550	
2	..	..	Library .. .. .	200	200	112	..		
3	..	..	Machines and Typewriters .. .. .	1,600	1,740	570	..	140	
4	..	..	Office Furniture .. .. .	200	1	1,289	199		
			<i>Items not repeated</i> .. .. .	..	..	691	..		
			Total Special Expenditure .. .. £	2,350	2,841	4,285			
			TOTAL EAST AFRICAN INCOME TAX DEPARTMENT .. .. £	774,012	763,043	733,913	49,968	38,999	
			NET INCREASE—£10,969						

For explanation of notes other than x, see inside front cover.

## HEAD 29—EAST AFRICAN INCOME TAX DEPARTMENT

The Revenue is provided as follows

	£	£	£
Total Cost .. .. .			774,012
Head Office Expenditure .. .. .		88,016	
Divided—			
Kenya .. .. .	29,067		
Tanganyika .. .. .	29,067		
Uganda .. .. .	29,066		
Zanzibar .. .. .	120		
Rents received .. .. .	696		
	<u>          </u>	88,016	88,016
			<u>685,996</u>
London Office Expenditure .. .. .		3,500	
Divided—			
Kenya .. .. .	1,860		
Tanganyika .. .. .	940		
Uganda .. .. .	580		
Zanzibar .. .. .	120		
	<u>          </u>	3,500	3,500
Direct Expenditure .. .. .			<u>682,496</u>
Divided—			
Kenya .. .. .	388,771		
Tanganyika .. .. .	148,461		
Uganda .. .. .	111,565		
Zanzibar .. .. .	4,661		
Aden .. .. .	5,006		
Rents .. .. .	7,412		
Reimbursement Kenya Hospital Authority .. .. .	9,620		
Legal Costs Recovered .. .. .	6,000		
Miscellaneous Revenue .. .. .	1,000		
	<u>          </u>		682,496

## Summary

	£
Kenya .. .. .	419,698
Tanganyika .. .. .	178,468
Uganda .. .. .	141,211
Zanzibar .. .. .	4,901
Aden .. .. .	5,006
Kenya Hospital Authority .. .. .	9,620
Rent .. .. .	8,108
Miscellaneous Revenue .. .. .	1,000
Legal Costs Recovered .. .. .	6,000
	<u>          </u>
	<u>£774,012</u>





## APPENDIX C

### EAST AFRICAN LITERATURE BUREAU PUBLISHING FUND

BALANCE SHEET AS AT 30TH JUNE, 1958

LIABILITIES		ASSETS	
	£	s.	cfs.
Capital Subsidy Fund—	19,000	0	00
E.A. Literature Bureau	1,007	3	12
Others	1,861	9	90
Experimental Publishing Fund	2,868	13	02
Reserves—	236	17	21
House Charges	1,634	2	15
Carriage	460	4	52
Contingencies	925	13	85
Royalties Payable			
Loans—			
Uganda Society	731	10	00
Christian Council of Kenya	1,311	11	34
Arrow Subvention from E.A. Governments	173	0	12
Advance Subscription Arrow	272	9	00
Kenya Education Journal	49	19	49
Advance Subscription, Kenya Education Journal	44	1	73
Sundry Creditors			
APPROPRIATION ACCOUNT—			
Balance as at 30th June, 1957	18,957	12	10
Add Profit for the year	4,556	15	48
	22,125	10	23
Furniture, Fittings and Equipment			
Add Additions during 1957/58	778	10	43
	415	19	00
Less Depreciation	1,194	9	43
	80	3	79
Stock on Hand	32,992	13	51
Books in Production	172	18	47
Books on Consignments	172	17	45
Sundry Debtors	4,311	14	87
Royalties Receivable	3,020	0	52
	1,983	18	55
CASH ON DEPOSIT—			
Joint Consolidated Fund	2,043	1	34
CASH—			
With Accountant General	445	9	12
Commission	94	1	22
	2,292	3	19
	23,514	7	58
	55,518	11	75
	1,114	5	64
	33,165	11	98
	4,484	12	32
	94	7	53
	16,062	19	85
	596	14	43
	55,518	11	75

These accounts do not include staff expenses: provision is made for these in the Colonial Development and Welfare Fund Scheme.

15th May, 1959.  
C. G. RICHARDS,  
*Director.*

The above Balance Sheet and attached Statements have been examined under my direction. The Liability of £1,983-18-55 cts. in respect of Royalties Payable, which has been calculated on the number of books printed, had not wholly accrued at the date of the Balance Sheet as Royalties only arise when books are sold, not when they are printed. Royalties actually due but not paid at 30th June, 1958, amounted to £245-2-67 cts. Subject to this comment I have obtained all the information and explanations I have required and I certify as a result of this audit that in my opinion the above Balance Sheet and attached Statements are correct.

NAIROBI,  
21st July, 1959.  
C. W. HODGES,  
*Auditor General,*  
*East Africa High Commission Services.*

APPENDIX C—(Contd.)

TRADING ACCOUNT

	£	s. cts.	£	s. cts.		£	s. cts.	£	s. cts.	
1ST JULY, 1957—					30TH JUNE, 1958—					
To Stock on Hand .. .. .	27,416	12 13			By Sales .. .. .	21,555	4 10			
„ Books in Production .. .. .	314	7 40			Less Returns .. .. .	365	18 20	21,189	5 90	
			27,730	19 53	By Subsidies—					
30TH JUNE, 1958—					From other Governments .. .. .	524	2 00			
To Purchases Printing .. .. .			20,205	7 24	From East African Literature Bureau	114	0 00			
„ Other Charges—					„ Book Charges written off .. .. .			638	2 00	
House Charges .. .. .	336	0 50			„ Stock on Hand .. .. .	32,992	13 51	89	7 50	
Carriage .. .. .	341	6 00			„ Books in Production .. .. .	172	18 47			
Contingencies .. .. .	342	8 00						33,165	11 98	
„ Art Work and Blocks .. .. .			1,019	14 50						
„ Copyrights .. .. .			634	13 34						
„ Assessors, Translation and other Fees ..			513	7 25						
„ Royalties Payable .. .. .			22	6 25						
			1,001	3 75						
			51,127	11 86						
„ Gross Profit to Profit and Loss Account			3,954	15 52						
			£	55,082	7 38			£	55,082	7 38

PROFIT AND LOSS ACCOUNT

	£	s. cts.		£	s. cts.	
30TH JUNE, 1958—			30TH JUNE, 1958—			
To Advertising .. .. .		5 5 00	By Gross Profit from Trading .. .. .	3,954	15 52	
„ Stationery and Sundries .. .. .	355	2 12	„ Interest Earned on Joint Consolidated Fund .. .. .	683	12 42	
„ Depreciation on Furniture and Fittings ..	80	3 79	„ Royalties Received .. .. .	251	6 29	
			„ Translation and other Fees .. .. .	2	5 00	
„ Loss of Cash .. .. .	55	13 73	„ Advertisement Revenue .. .. .	32	12 40	
„ Loss of Books .. .. .	24	9 91	„ Sale of Old Shelving .. .. .	150	0 00	
			„ Recovery of Bad Debts written off .. .. .	2	18 40	
„ Net Profit to Appropriation Account .. .. .	4,556	15 48				
	£	5,077	10 03	£	5,077	10 03

APPROPRIATION ACCOUNT

	£	s. cts.		£	s. cts.	
30TH JUNE, 1958—			30TH JUNE, 1958—			
To Balance to 1958/59 .. .. .	23,514	7 58	By Balance from 1956/57 .. .. .	18,957	12 10	
			Net Profit from Profit and Loss Account .. .. .	4,556	15 48	
	£	23,514	7 58	£	23,514	7 58

**APPENDIX D**  
**ANALYSIS OF SERVICES COMMON TO DEPARTMENTS**  
 (CONTROLLED BY ACCOUNTANT GENERAL, E.A.H.C.)

Head	Passages	Pension Fund	Audit Services	Accounting Services	Agency Fees	Medical Services	Total
1 (1)	7,547	10,273	517	3,157	125	486	22,105
(2)	..	523	27	140	..	16	706
(5)	..	215	30	120	10	31	406
2	2,375	3,010	131	540	32	105	6,193
3 (1)	1,604	2,705	92	378	18	85	4,882
3 (2)	395	3,536	118	1,240	35	120	5,444
3 (3)	1,600	1,662	97	772	35	65	4,231
3 (4)	6,062	12,001	..	..	120	556	18,739
5 (1)	7,312	10,303	730	6,563	260	687	25,855
6 (1)	1,573	780	110	1,240	30	128	3,861
7	2,458	1,814	232	957	110	325	5,896
8 (1)	852	3,957	199	770	530	180	6,488
8 (2)	5,355	8,990	910	3,573	700	105	19,633
8 (4)	..	..	935	4,151	374	..	5,460
9	1,685	..	170	596	74	..	2,525
10 (1)	756	550	..	..	..	..	1,306
11	..	1,191	40	183	20	35	1,469
12	1,682	3,089	153	3,521	40	134	8,619
13 (1)	2,562	3,230	190	700	60	179	6,921
14 (1)	2,910	2,504	200	1,800	50	207	7,671
(2)	..	..	..	..	..	17	17
16	3,872	6,487	408	1,857	110	486	13,220
20 (1)	1,600	4,132	184	1,438	38	188	7,580
(2)	490	4,058	157	1,223	32	213	6,173
(3)	1,885	4,005	190	1,485	40	130	7,735
(4)	776	3,638	137	1,067	28	146	5,792
(5)	940	2,833	153	1,195	32	116	5,269
21	3,838	5,566	450	1,700	175	381	12,110
22	4,552	6,595	750	4,860	200	643	17,600
23 (1)	1,612	2,127	240	2,258	100	256	6,593
24	25,714	60,285	2,136	14,217	1,200	2,515	106,067
25 (1)	9,399	27,568	1,107	8,345	500	1,110	48,029
(2)	352	636	36	293	5	41	1,363
(3)	350	3,093	222	1,572	30	68	5,335
(4)	390	62	..	..	..	2	454
(7)	240	3,354	..	..	160	228	3,982
28	32,133	120,078	12,000	3,835	1,350	7,087	176,483
29	30,807	76,858	4,511	15,456	700	3,982	132,314
	165,678	401,708	27,562	91,202	7,323	21,053	714,526

(NOT CONTROLLED BY ACCOUNTANT GENERAL)

Head	Passages	Pension Fund	Audit Services	Accounting Services	Agency Fees	Medical Services	Total
17	500	1,444	..	..	..	..	1,944

## APPENDIX E

## TITLES OF EXPENDITURE SUB-HEADS AND ALLOCATION OF EXPENDITURE

## 1. PERSONAL EMOLUMENTS

- Salaries.
- Wages (including all casual labour charges for estate maintenance, etc.).
- Temporary Allowances.
- Overtime Allowances.
- Outfit Allowances.
- Shorthand Allowances.
- Charge Allowances.
- Acting Allowances.
- Duty Allowances.
- Separation Allowances.
- Provident Fund.
- Leave Pay.
- Non-pensionable Conversion Allowances.
- F.S.S.U. Contributions.
- Crown Agents Selection and Recruitment Charges.
- O.S.S. Contributions.

Gratuities. (A gratuity may only be paid from the Pension Fund if a contribution has been made to the fund in respect of the post concerned. The sum paid from the Pension Fund may not exceed the contribution and prior written approval must be obtained from the Financial Secretary.)

## 2. TRANSPORT AND TRAVELLING

- Mileage Allowances.
- Subsistence Allowances.
- Cycle Allowances.
- Detention Allowances.
- Commutated Travelling Allowances.
- All rail and air fares, freight charges, carriage and handling charges on Officers baggage in East Africa.
- Duty operational journeys outside East Africa by road, rail, sea or air (Desert Locust Survey only.)
- Passages to Zanzibar.
- Running costs of motor vehicles, i.e. petrol, oil and licences.
- Cost of all hired transport.
- Repairs to cycles.
- Cycle licences.
- Transfer Allowances.

Travelling expenses to port of embarkation or for medical examination or interview on first appointment.

Carriage charges on new purchases within East Africa, whether by road, rail, air, lake, coastwise or post are chargeable to the same item as that from which the goods are purchased. All freight and other charges on imported purchases will also be met from the same item as that from which the goods are purchased. Carriage charges on goods already the property of the High Commission will be met from Subhead 2, Transport and Travelling.

## 3. INCIDENTAL EXPENSES

All foreseeable expenditure of a minor character for which separate provision has not been made and including all insurances, e.g. medical examination fees on first appointment, reimbursement of hospital fees, etc.

## 4. STAFF HOUSING AND ALLOWANCES

- Special Transport Allowances.
- Special Subsistence Allowances.
- Disturbance Allowances.
- House Allowances.
- Rent of Quarters.
- Furniture Allowances and Rentals.

Maintenance of rented houses other than those maintained by the Central Maintenance Organization of Head 27.



## APPENDIX E—(Contd.)

## 5. COMMON SERVICES

(1) *Passages*

Baggage Allowances and Incidental Expenses—Unaccompanied Baggage—Reg. 187. Sea Passages (from port of embarkation). Air Passages (from trunk route airport only).

Payment in respect of a passage where an officer is authorized to make his own arrangements.

Air travel on duty outside East Africa.

The cost of all passages is to be charged to the financial year in which payment is made, irrespective of the date of travel. Departments should make provision in the Estimates of the year in which they anticipate that payment will be made.

(2) *Pension Fund*

Annual contribution to the Pension Fund—calculated on 25% of the annual salary of all pensionable posts.

(3) *Audit Services*(4) *Accounting Services*

} Annual cost of Audit Staff and Accountant General's Staff, apportioned by Financial Secretary.

(5) *Agency Fees*

Coast Agents, Indian Agents, Karachi Agents and the Crown Agents normal 1½% stores charges and 1% financial charges as apportioned by the Accountant General. The Crown Agents special engineering and stores inspection charges on special expenditure items must be charged to the appropriate special expenditure subhead.

(6) *Medical Services*

Capitation fees only.

## 6. EQUIPMENT AND SUPPLIES

All Expendable ("B" type) and Consumable Stores ("C" type) (other than stores detailed under Maintenance and other Subheads) and replacement items of Permanent Stores ("A" type) where the cost of replacing any one item does not exceed £50 and the item being replaced has been written off under Financial Order 587.

## 7. MAINTENANCE OF BUILDINGS AND ESTATE

The maintenance of all High Commission owned and rented buildings and houses where the responsibility for maintenance rests with the High Commission, and all expendable and consumable stores required by a department which carries out its own maintenance; minor improvements to buildings and estate provided that the cost of a project does not exceed £50 and has received the prior approval of the Administration; repairs to domestic furniture, fittings and appliances; replacements of domestic furniture, fittings and appliances and of office furniture, which have been written off in accordance with Financial Order 587; ~~and upkeep of estate including wages of casual labour.~~

Furniture, whether initial issue or replacement, for houses built from Loan Funds will continue to be charged to the appropriate special expenditure subhead of Head 27.

Upkeep of Estate excluding wages of casual labour.

## 8. MAINTENANCE OF MOTOR VEHICLES AND BOATS

Repairs.

Servicing (including oil supplied).

Spares (including tyres and tubes).

Running expenses of boats (including fuel).

Slipway, Harbour, Dockyard fees, etc.

(Motor vehicles includes farm tractors).

## 9. MAINTENANCE OF PLANT AND EQUIPMENT

Repairs and Spares. Plant is regarded as machinery, etc., and is normally a fixture.

Equipment includes most moveable items for office, laboratory, workshop, field or farm use, excluding vehicles and furniture.

## 10. ESSENTIAL SERVICES

Water.

Electricity.

Fuel, etc., for electricity, water and gas plants.

Conservancy charges.

## 11. HOSPITAL CONTRIBUTION (KENYA). Payable in respect of officers with service before 1st January, 1957, only.

ASIAN OFFICERS FAMILY PENSION FUND. Employers contribution of 2½% of salary.

## APPENDIX E—(Contd.)

12. LIBRARY  
Purchase of books, periodicals and bookbinding; other library expenses, e.g. furniture or equipment, should be charged to the appropriate item.
13. EXPENSES OF CONFERENCES  
Delegates expenses.  
Hire of Hall.  
Teas, etc.
14. UNIFORMS  
Uniforms and accoutrements. } Where the expenditure is considerable, otherwise  
Uniform Allowances. } such charges should be included under  
Repairs to Uniforms. } Subhead 3—Incidental Expenses.
15. TRAINING COURSES  
Cost of Courses.  
Subsistence allowance paid to officer attending course.  
Travelling expenses in connexion with the course but excluding passages.
16. OPERATION OF AIRCRAFT  
Running expenses including fuel and oil.  
Repairs.  
Spares.  
Servicing and C. of A.  
Licences.  
Equipment for aircraft.  
Landing Fees, Aerodrome charges.
17. PURCHASE AND UPKEEP OF ANIMALS  
Purchase of animals.  
Purchase of food for animals.  
Incidental expenses connected with upkeep of animals, e.g. Veterinary fees.  
Transport of animals, by road or rail, when purchased.
18. RENTS  
Rent of buildings excluding rented houses.  
Rates.
19. VICTUALLING  
Rations.  
Ration Allowances.
20. FEES, REWARDS AND CONTRIBUTIONS  
Legal expenses.  
Consultants Fees.  
Reimbursements to E.A.A.F.R.O.  
Rewards.  
Prizes.  
Share of London Office expenditure
21. PUBLICATIONS
22. PRODUCTION OF SERA AND VACCINES  
(E.A.V.R.O. only.)
23. EXPENSES OF VISITING SCIENTISTS
24. PURCHASE AND MAINTENANCE OF BOOKS  
(Libraries Service only.)
25. INSECTICIDES  
(Desert Locust Survey only.)
26. INSURANCE OF VESSEL  
(Marine Fisheries Research only.)

## APPENDIX E—(Contd.)

27. FIELD EXPERIMENTS  
(E.A. Malaria Unit only.)
28. MAINTENANCE OF NIGHT FLYING FACILITIES  
(D.C.A. only).
29. POSTS AND TELEGRAPHS SERVICES  
Telephone calls and rentals.  
Telegrams and cables.  
Postages.  
Private Box and Bag rentals.  
Telegraphic Address charges.
30. PRINTING, STATIONERY AND ADVERTISING  
All relevant charges except where special items of expenditure are created.
32. ENTERTAINMENT ALLOWANCES  
Cost of official entertaining.

## SPECIAL EXPENDITURE

Special Expenditure covers all new works other than minor improvements to buildings and estate provided for under subhead 7, and for all items of Permanent ("A" type) stores other than replacement items referred to under subheads 6 and 7.

In addition any expenditure which is not annually recurrent may, if the Financial Secretary so directs, be included under the heading of 'Special Expenditure'.