

REPUBLIC OF CYPRUS

MINISTRY OF AGRICULTURE & NATURAL RESOURCES

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ANNUAL REPORT  
OF THE  
FOREST DEPARTMENT  
FOR THE YEAR  
1960

### CONVERSION FACTORS

1 donum	= 0.33 acres
1 acre	= 3.025 donums
1 donum	= 0.134 hectares
1 hectare	= 7.475 donums
1 square mile	= 1,936 donums
1 square kilometer	= 747.5 donums
1 oke (weight)	= 2.8 lbs or 1.273 kilograms
1 gross matches	= 0.714 cubic feet (r) U.B.

Factors for the conversion of sawn timber, veneers and plywood and pulp and paper used in this report are the same as those adopted by F.A.O. and published in the Year Book of Forest Products Statistics.

### WEIGHTS. MEASURES AND CURRENCY

WEIGHT:	400 drams	= 1 oke.
	1 oke	= 2.8 lbs.
	44 okes	= 1 kantar.
	180 okes	= 1 Aleppo Kantar (carobs).
	800 okes	= 1 ton.
CAPACITY:	1 Cyprus litre	= 2.8 quarts
	1 Kilé	= 1 bushel
	1 kouza	= 9 quarts
	16 kouzas	= 1 load
		} wine.
LENGTH:	1 pic	= 2 feet
AREA:	1 evlek	= 3,600 sq. feet
	1 donum	= 14,400 sq. feet or 4 evleks
CURRENCY:	1,000 mils	= £1 (£1 Cyprus = £1 Sterling)

All round timber is measured in terms of true volume.



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REPORT OF THE FOREST SERVICE IN CYPRUS FOR  
THE YEAR 1960.

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I. - INTRODUCTION.

(1) POLICY.

The Forest Policy of the Cyprus Government is laid down in a Statement\* published in 1950. The need is recognised to reserve in perpetuity sufficient land, particularly the high level catchment areas and sub-marginal agricultural lands, to ensure a prudent balance between agriculture and forestry. Stress is laid on the soil and water conservation role of the forests, as well as their amenity and recreation values. The Forest Department is charged with the duty of applying the principle of sustained yield to the management of all forests, with the primary object of providing wood and other forest products to meet as many of the country's requirements as possible, and at the same time securing for the community the maximum revenue obtainable within the framework of the declared policy. Specific mention is also made of the necessity to promote research and education in all branches of forestry.

(2) ORGANISATION OF THE FOREST ADMINISTRATION.

2. The State Forests of Cyprus are divided, in accordance with the Forest Law, into two categories - the Main State Forests and the Minor State Forests. Minor State Forests may be declared village fuel or grazing areas under the control of Village Authorities and, where this has been done, a third category of communal Forest comes into being. Areas of privately owned natural forest with a steadily growing area of small-holder plantations make a fourth wood-land category.

3. The Main State Forests, comprising 79.56 per cent of the total forest area, are managed by the Forest Department, which is also responsible for the development of Communal Forests. The Minor State Forests are administered by the District Officers.

4. The Headquarters of the Forest Department is in Nicosia.

5. The Main State Forests are now grouped into three territorial divisions, namely:-

Paphos Division (H.Q. Stavros Psokas) comprising the Paphos and Akamas group of forests (258.622 sq. miles).

Troodos Division (H.Q. Platania) comprising the Troodos, Adelphi, Machera, Stavrovouni, Aetomouti and Limassol Forests and the lowland plantations near Limassol town and salt lake (150.851 sq. miles).

Northern Range/Plains Division (H.Q. Halevga) comprising the Dhiorios-Ayia Irini group and all the Main Forests situated along the Northern Range mountains and the Karpass peninsula (117.579 sq. miles); the lowland main forest plantations at Athalassa, Salamis and the Fresh Water Lake, Famagusta, and the Village Fuel Areas. (5.570 sq. miles of plantations and 8.03 sq. miles of communal Forests).

.../(The

(The former Plains Division has now been merged into the Northern Range Division for Administrative convenience).

In addition to these there are four specialist divisions:-

- (i) Forest Research (H.Q. Nicosia)
- (ii) Forestry Education (H.Q. Prodromos)  
Forestry College.
- (iii) Forest Management and Surveys Division  
(H.Q. Nicosia) comprising the Working Plans  
and Forest Survey Sections.
- (iv) Forest Engineering Division (H.Q. Nicosia)  
comprising five sections responsible for  
Roads and Buildings, Telecommunications,  
Machinery, Vehicles and Plant, Utilization  
and the Central Forest Store.

Forestry extension and publicity activities are co-ordinated by a small committee, which includes a representative of the Public Information Office.

Forest Utilization has been made a special charge under the control of an Assistant Conservator of Forests. Because of lack of funds this section of the Department has not yet been developed according to plan.

### (3) GENERAL.

6. As a result of the introduction of the Ministerial system of Government, the Forest Service is undergoing a process of re-organization to enable it to carry out its duties and functions in accordance with the provisions of the Constitution and present day circumstances.

## II. - CONFERENCES AND VISITS.

7. Mr. John D. Leefe, Principal Forestry College, visited Libya from 21st January to 9th February, 1960, with the object of making himself familiar with forestry problems in that territory. This officer also attended the Fifth World Forestry Congress of the Food and Agricultural Organization held at Seattle (Washington) from 29th August to 16th September, 1960.

8. His Excellency the President of the Republic, accompanied by the Minister of Agriculture and Natural Resources, visited the Department on the 15th October, 1960. The Chief Forest Officer had received the President and introduced the staff.

9. Other visitors to the Department included Mr. Amir Ahmed Khan, Conservator of Forests, Pakistan (accompanied by his wife); Mr. Mohamed Baddredin Messaudi, an ex-student of the Cyprus Forestry College and now Assistant Director of Forests, Libya; Mr. M. Litwak, Research Officer of the Department of Botany in the Hebrew University, Israel; 33 Israeli Foresters including Botanists and Agricultural Research workers visited Cyprus between 2nd and 9th September, 1960.

.../III.



### III. - THE FOREST ESTATE.

#### (1) FOREST AREAS.

10. (a) The area of the Main State Forests remained at 532.62 square miles.
  - (b) The area of the Minor State Forests remained at 76.56 square miles.
  - (c) The area of communal forests, which are Minor State Forests allocated as Village Fuel Areas remained at 8.03 square miles.
  - (d) The area of privately owned forests and plantations was assumed to be 52.30 square miles.
11. The total area classified as forest land amounts to 669.51 square miles which is equivalent to 18.74 % of the total land area of the island. Further details of forest areas are given in Appendices 1 and 2.
12. An area of 2,489 donums of Main State Forest land together with 2,708 fruit trees was leased for cultivation during the year. £333.167 mils was received from the rents of these lands and trees.
13. In the minor State Forests 7,672 donums of land and 6,543 fruit trees were leased for cultivation. Rents collected in these respects amounted to £735.565 mils.
14. Eighty forest springs were used for piped water supplies for domestic consumption. Sixteen of these were leased at an annual rent of £27.650 mils. The remainder were enjoyed rent free by villages under schemes prepared by the Water Development Department. One hundred and four water sources and small forest springs were used for irrigation in adjacent private lands. Ninety one of these were leased for a total rental of £28.400 mils. The remainder were enjoyed rent free.

#### (2) FOREST BOUNDARIES.

15. A sum of £440.608 mils was spent on maintaining the concrete cairns which mark the boundaries of the Main State Forests. No changes were made to forest boundaries during the year.

### IV. - CLIMATE.

16. The Departmental Meteorological Stations were maintained and administered in co-operation with the Meteorological Office, Ministry of Agriculture and Natural Resources.
17. The Meteorological data recorded by these stations are set out in tables 1 to 5. Detailed information recorded by the more elaborate station operated by the Forestry College is shown in table 4.
18. The amount of rainfall was again very low and practically the same as for the previous year.
19. Daily "fire hazard" broadcasts were continued during the fire season as in previous years.

TABLE 1.  
MONTHLY RAINFALL IN INCHES.

Stations	Akradhes N. Range 580 ft. ASL.	Ayios Merkourios Paphos Forest 800 ft. ASL.	Kornos Troodos For. 1,100 ft. ASL.	Panayia Bridge Troodos For. 1,800 ft. ASL.	Halevga N. Range 2,500 ft. ASL.	Stavros Paphos Forest 2,600 ft. ASL.	Pano Pannayia Paphos Forest 2,800 ft. ASL.	Platania Troodos For. 3,600 ft. ASL.	Prodhromos For. College 4,500 ft. ASL.
Month	Rainfall	Rainfall	Rainfall	Rainfall	Rainfall	Rainfall	Rainfall	Rainfall	Rainfall
January	2.26	3.73	3.43	2.70	1.77	5.11	6.27	6.16	5.30
February	0.79	1.54	0.36	0.68	0.94	1.74	0.91	1.78	1.62
March	4.49	4.95	4.50	3.95	3.13	8.79	5.22	7.38	6.68
April	1.17	1.80	1.71	0.29	1.31	3.35	1.86	0.73	1.47
May	0.30	0.11	0.41	0.07	0.26	0.25	0.41	0.25	0.79
June	0.25	—	1.26	0.17	—	0.29	0.95	0.29	0.45
July	—	—	—	—	—	—	—	—	—
August	—	—	—	—	—	—	—	—	—
September	0.60	—	—	—	0.02	—	—	—	—
October	0.22	0.63	—	—	0.01	0.33	0.12	0.15	0.13
November	3.62	1.97	1.45	0.82	2.72	1.50	2.75	1.09	0.91
December	1.45	3.82	3.32	2.94	2.43	3.66	4.54	6.69	4.43
Totals	15.15	18.55	16.44	11.62	12.59	25.02	23.03	24.52	21.78



TABLE 2.  
MAXIMUM AND MINIMUM TEMPERATURES (°F.).  
MONTHLY AVERAGES.

Stations	Akradhes		Ayios Merkourios		Kornos		Panayia Bridge		Halevga		Stavros		Pano Panayia		Platania		Prodhromos	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Month																		
January	59.6	41.2	58.9	43.2	58.8	44.2	57.4	37.6	53.6	41.4	51.6	39.9	52.0	41.0	48.0	35.0	44.8	35.1
February	61.8	42.2	61.9	44.1	61.0	44.1	61.3	37.1	55.7	40.4	55.0	40.5	53.9	41.4	51.8	35.8	49.5	36.7
March	64.4	43.8	63.3	45.4	63.2	45.8	62.5	39.5	58.9	42.5	55.9	42.5	55.0	43.8	52.3	38.0	49.0	37.9
April	71.7	52.7	70.0	50.7	71.2	51.9	71.5	44.7	67.6	48.8	62.9	48.5	61.6	49.3	60.9	42.6	57.2	44.1
May	83.7	58.5	83.7	60.4	84.0	62.9	85.0	55.1	80.5	58.8	77.8	59.6	75.5	58.7	73.5	53.1	70.9	55.8
June	85.3	64.2	86.5	62.6	86.5	65.0	87.9	57.5	82.1	62.9	80.3	60.8	78.7	64.3	76.3	56.5	75.2	57.1
July	90.9	70.0	91.9	66.6	92.3	70.8	95.0	63.0	83.1	67.3	87.7	67.5	85.4	66.8	84.0	62.6	80.9	64.2
August	92.2	71.0	93.1	67.9	92.4	72.4	95.0	64.0	89.0	67.0	88.3	68.7	85.7	68.5	85.5	63.8	80.9	64.9
September	86.7	66.1	87.4	64.0	88.2	66.0	87.6	58.0	81.9	64.1	81.7	63.0	79.7	63.3	77.0	58.0	74.6	59.4
October	83.0	59.7	84.4	61.0	85.4	63.7	85.0	54.0	80.5	60.5	80.5	61.3	77.6	62.4	75.0	56.3	72.5	57.1
November	73.4	55.2	73.4	53.9	75.7	56.4	71.6	48.3	67.5	51.7	66.6	52.0	64.8	52.5	61.5	45.6	59.5	46.8
December	66.3	49.1	68.5	49.8	64.4	51.1	63.6	43.3	60.0	48.0	62.2	47.6	59.6	48.4	55.3	42.1	53.7	43.2

TABLE 3.

RELATIVE HUMIDITY PER CENT.  
MONTHLY AVERAGES.

Stations	Akradhes N. Range 580 ft. ASL.	Ayios Merkourios Paphos Forest 800 ft. ASL.	Kornos Troodos For. 1,100 ft. ASL.	Panayia Bridge Troodos For. 1,800 ft. ASL.	Halevga N. Range 2,500 ft. ASL.	Stavros Paphos For. 2,600 ft. ASL.	Pano Panayia Paphos For. 2,800 ft. ASL.	Platania Troodos For. 3,600 ft. ASL.	Prodhromos For. College 4,500 ft. ASL.
	Local Time	Local Time	Local Time	Local Time	Local Time	Local Time	Local Time	Local Time	Local Time
Month	08.00 14.00	08.00 14.00	08.00 14.00	08.00 14.00	08.00 14.00	08.00 14.00	08.00 14.00	08.00 14.00	08.00 14.00
January	76.7 64.5	73.9 60.6	75.4 64.7	81.3 62.9	77.5 71.2	82.3 68.7	70.6 61.0	74.0 71.5	73.5 72.9
February	71.8 60.2	73.8 59.0	72.1 59.1	77.1 52.0	74.0 67.0	71.8 63.3	69.9 66.2	65.6 66.7	66.4 74.2
March	72.5 60.8	69.5 55.3	65.7 56.7	71.4 52.1	71.9 67.4	70.8 67.7	75.5 64.7	63.7 68.4	71.5 77.7
April	74.4 59.1	64.6 54.7	61.0 54.7	59.7 46.1	71.6 71.4	66.8 59.1	68.2 68.2	54.0 59.1	62.2 67.9
May	59.7 48.1	42.8 35.5	43.8 35.4	36.3 26.3	45.5 38.8	49.4 39.2	42.8 40.3	39.6 35.8	43.5 46.6
June	64.5 50.8	42.5 37.9	42.2 39.1	37.0 33.8	54.7 47.2	47.4 40.3	49.5 43.7	41.2 42.4	45.3 47.0
July	69.3 56.0	34.2 32.4	41.4 35.1	34.3 31.7	54.9 43.4	36.3 32.8	42.7 36.9	36.4 38.0	30.7 38.8
August	64.2 48.7	33.9 31.2	39.1 35.8	32.5 25.3	48.3 34.6	35.1 29.1	41.2 36.3	38.5 38.6	34.2 37.4
September	69.0 55.7	44.5 37.7	45.3 39.4	44.0 37.7	58.9 52.1	46.9 41.2	55.3 49.7	35.6 42.1	40.4 48.7
October	74.5 59.2	39.4 40.7	42.8 34.2	35.5 29.3	51.0 43.1	41.5 31.6	46.1 44.1	38.5 35.2	36.4 36.7
November	76.4 65.9	68.3 54.7	67.3 53.2	72.5 51.2	76.1 64.9	71.0 58.8	71.1 69.0	61.9 68.3	70.0 75.0
December	76.3 68.4	69.5 55.7	77.5 62.2	83.7 61.8	82.1 75.2	76.9 64.4	70.0 68.9	68.7 71.7	63.4 76.8



T A B L E 4.

FORESTRY COLLEGE PRODOMOS

OTHER OBSERVATIONS

Month	Mean Air Temp. in Shade 06.00 hrs. G.M.T.	Mean Grass Min. Temp. 06.00 hrs. G.M.T.	Mean Soil Temp. at 4 ins. 06.00 hrs. G.M.T.	Mean Soil Temp. at 8 ins. 06.00 hrs. G.M.T.	Mean Soil Temp. at 1 foot 06.00 hrs. G.M.T.	Mean Soil Temp. at 4 feet 06.00 hrs. G.M.T.	Mean Sunshine Hours per day.	Remarks.
January	58.5	30.0	36.4	38.4	40.0	47.1	4.3	Total Number of Ground Frost days 46 (January, February, March & December) i.e. Grass Minimum Temper- ature 31.0°F. or less
February	41.2	30.3	39.4	41.8	42.9	45.6	6.1	January 19 days Frost
March	42.6	31.9	41.1	43.6	45.1	46.9	5.6	February 14 "
April	49.9	40.2	49.6	52.5	53.6	51.0	7.8	March 12 "
May	59.2	51.8	63.1	65.9	66.1	58.2	10.8	December 1 "
June	65.2	53.3	69.3	72.5	72.6	65.1	12.1	Total 46 days Frost
July	73.8	59.0	76.2	80.0	79.4	71.1	12.4	-----
August	71.8	60.9	76.0	80.3	80.0	74.2	11.9	-----
September	65.5	53.6	68.3	73.3	73.6	72.8	9.6	-----
October	63.5	51.5	61.3	65.5	66.3	68.2	9.6	-----
November	50.8	40.3	49.1	53.4	55.0	62.7	6.5	-----
December	47.3	36.7	42.4	44.7	46.4	55.3	4.6	-----

T A B L E 5

FOREST FIRE HAZARD, MAY - SEPTEMBER, 1960

S t a t i o n	Low %	Moderate %	High %	Very high %	Extreme danger %
Akradhes 580 ft. A.S.L.	33.1 % (of period)	40.3% (of period)	21.8% (of period)	4.8% of period	-% (of period)
Ayios Mercurios 800 ft. A.S.L.	8.9 %	27.4%	41.1 %	22.6 %	-%
+ Kornos 1,100 ft. A.S.L.	9.0 %	34.4%	37.7 %	18.9 %	-%
Panayia Bridge 1,800 ft. A.S.L.	8.1 %	19.3%	32.3 %	37.1 %	3.2%
Halefiga 2,500 ft. A.S.L.	38.7 %	25.0%	26.6 %	9.7 %	-%
Stavros 2,600 ft. A.S.L.	25.8 %	20.2%	41.9 %	12.1 %	-%
Pano Panayia 2,800 ft. A.S.L.	34.7 %	30.6%	27.4 %	7.3 %	-%
Platania 3,600 ft. A.S.L.	35.5 %	33.1%	28.2 %	3.2 %	-%
Prodromos 4,500 ft. A.S.L.	46.0 %	31.4%	20.2 %	2.4 %	-%

Degrees of Hazard

( Low = upto 35  
 ( Moderate = 36 - 50  
 ( High = 51 - 70  
 ( Very High = 71 - 100  
 ( Extreme Danger = over 100

( Period = 124 days, May 30th to Sept., 30th  
 + ( Kornos = 122 days.

V. - FOREST PROTECTION.

(1) DAMAGE BY NATURAL CAUSES.

20. Some insect damage occurred in all forest areas. Myelophilus species attacked some pine, mainly fire killed trees, but the damage was restricted to the minimum owing to the early exploitation of the timber. The processionary caterpillar (Thaumetopoea wilkinsoni) caused much defoliation to the Aleppo pine (P. brutia) at low elevations, especially around the periphery of the forests. The pine shoot moth (Evetria buoliana var. thurificiana) caused some damage to the Troodos pine (Pinus nigra) over large areas of the Troodos forest. A species of Gypsy moth, probably Dorthetria dispar (L) appeared in Platys area of Paphos forest and caused severe defoliation to the Golden Oak, Arbutus and Maple. Apart from the early exploitation of the fire killed timber no other control measures were taken against the insect population of the forest.

21. No wind or snow damage occurred in the forest during the year. The prolonged drought, however, caused much damage to the pine mainly in the recently re-afforested areas. Many deaths of pine occurred in the re-afforestation areas, even those which were sown some ten years ago. The acacia cyanophylla crop in Laccovounara area was also very badly affected by the extreme drought.

(2) DAMAGE BY MAN.

22. Fire: 70 outbreaks of fire were recorded and 4,480 donums of forest were burnt during the year. Most of the fires were small except the Mavres Sykies fire, which spread very rapidly owing to the occurrence of luxuriant gorse and the coincident exceptionally strong wind.

23. There is no doubt that the publicity, carried out by the Forest Department with a view to reducing the fire hazard, has been effective. The visitors to the forests have been extremely careful, whilst the majority of the inhabitants of the forest villages have realised the usefulness of the forests and have contributed tremendously towards preventing and controlling forest fires. However, some malicious fires were started by irresponsible people mainly in order to create employment. About 15 fires which destroyed 521 donums of forest were attributed to incendiarism.

24. The fact that fire traces in the vicinity of the Mavres Sykies fire helped to control the fire in spite of the strong wind, has revived the idea of opening more and more fire traces by clearing the pine and other vegetation along the ridges. Recently re-afforested areas which are very susceptible to fire, have been surrounded by fire traces. Fire traces have also been cleared in some places along the delimitation line and along forest roads. Some 122 miles of new fire traces were opened during the year.

25. The idea of constructing jeep tracks into inaccessible areas of good forest, in order to use them in case of fire, has been put into effect in the Paphos Forest.

26. More consideration and attention were also given to the places frequented by visitors and tourists. Clearing of the ground vegetation, construction of some 40 concrete hearths in different areas for the roasting of meat and the occasional manning of most of the picnicking places have been some of the fire precautionary measures adopted.

27. Grazing: The total number of grazing offences reported during the year was greater than the last four years. This was mainly due to the fact that many people in the villages, bordering the forests, have bought goats and have become shepherds hoping that Government will lift the forest grazing restrictions and allow free-range goat grazing in the forest areas. Extensive damage has been caused to the natural regeneration of pine which occurred in the 1956 - 1958 burnt areas. Much damage has also been caused to the lowland plantations including Laccovounara, through grazing.

28. Autumn and Winter grazing of sheep was again permitted in certain forests, where no damage was likely to be caused.

29. Forest Crime: The crime detected was similar to that of the previous year. The total number of forest offences dealt with was 2,696 - involving 2,841 individuals - as compared with 2,690 in 1959. Of these offences 2,096 concerned the Main State Forests and 600 the Minor Forests, representing an incidence of 3.9 and 7.1 cases per square mile respectively. Of the 2,696 cases 1,752 (or 64.97 %) were tried before the courts, the remaining 944 were dealt with departmentally and were compounded.

30. There has been more and rather serious encroachment on forest land for cultivation. Large scale encroachment was attempted in the Karpass, Yiouti, Ay. Erini and Stavrovouni Main State Forests, where villagers cultivated rather extensive areas. Diagrams 2 and 3 illustrate the course of forest crime in the Main State Forests since 1930. A detailed analysis of forest crime in 1960 is given in Appendix 5.

### (3) PRIVATE FORESTS.

31. During the year the Department undertook the protection and Management of five private forests of a total area of 2.00 square miles on payment of the prescribed fees by the owners.

32. Felling of privately owned forest trees continued to remain under the control of the Forest Department and 956 felling permits were issued for the felling of 35,735 trees.

## VI. - FOREST MANAGEMENT.

33. Working Plans: The Working Plans Officer Mr. A. Polycarpou was replaced by Mr. L. Leontiades in early April. The staff strength of the Division was below normal until August and the Mensuration and Costing sections were merged with the Working Plans Section. In late August two graduate foresters were posted to the Division, bringing it to its full complement.

34. During the year, 96,062 donums of forest (or 49.62 square miles) was stock mapped and classified into various strata for sampling purposes. This raised the total area for which revised stock maps have been prepared to 691,394 donums (or 357.12 square miles).

35. Enumerations during the year for working plan revision covered an area of 168,476 donums of forest (or 87.02 square miles) and most of the field data collected were analysed and computed for the purpose of revising the Working Plans of the areas concerned.

36. Details of progress in Working Plan revision are given in Appendix 3.



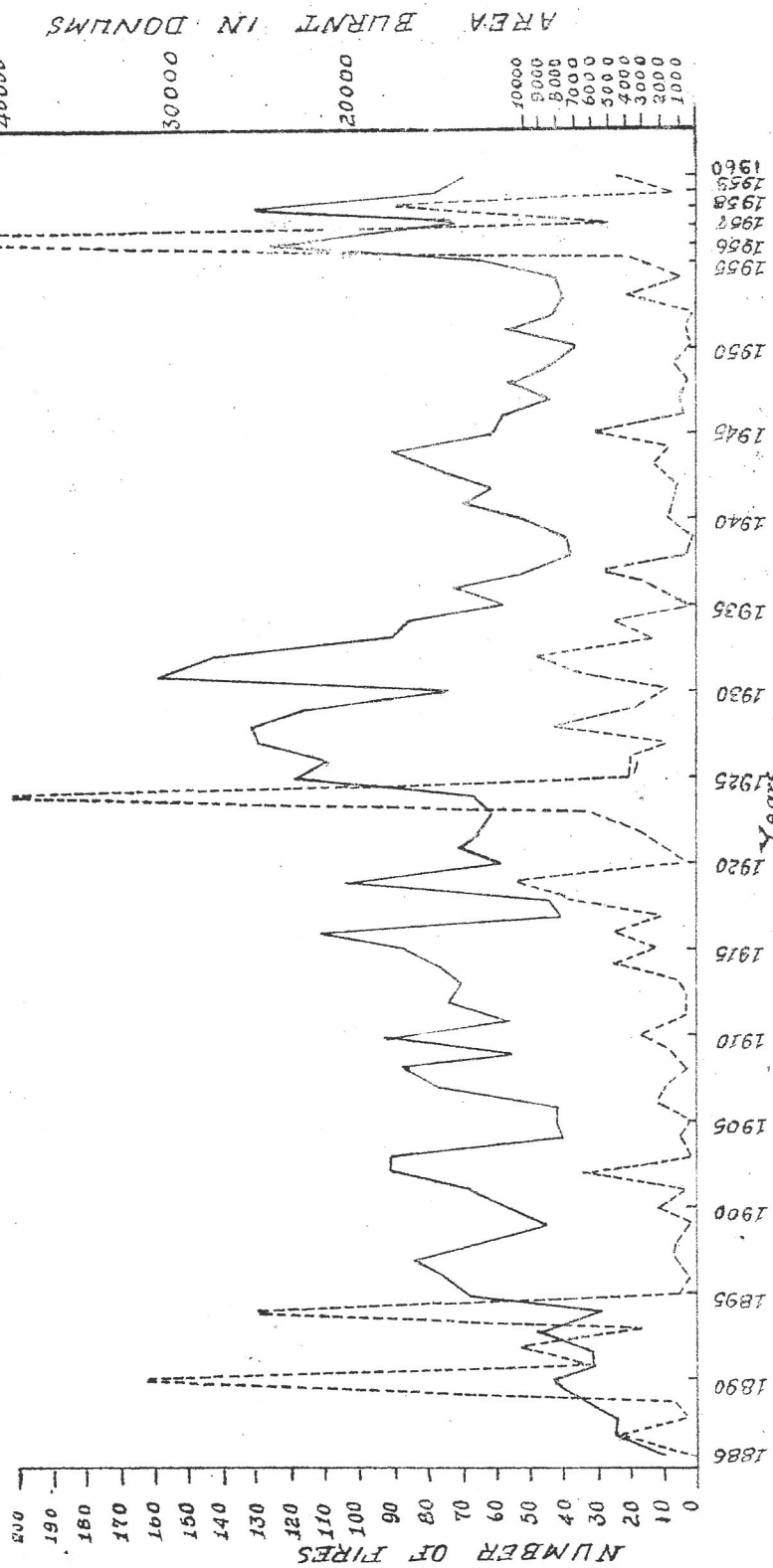
# DIAGRAM I

FOREST FIRES

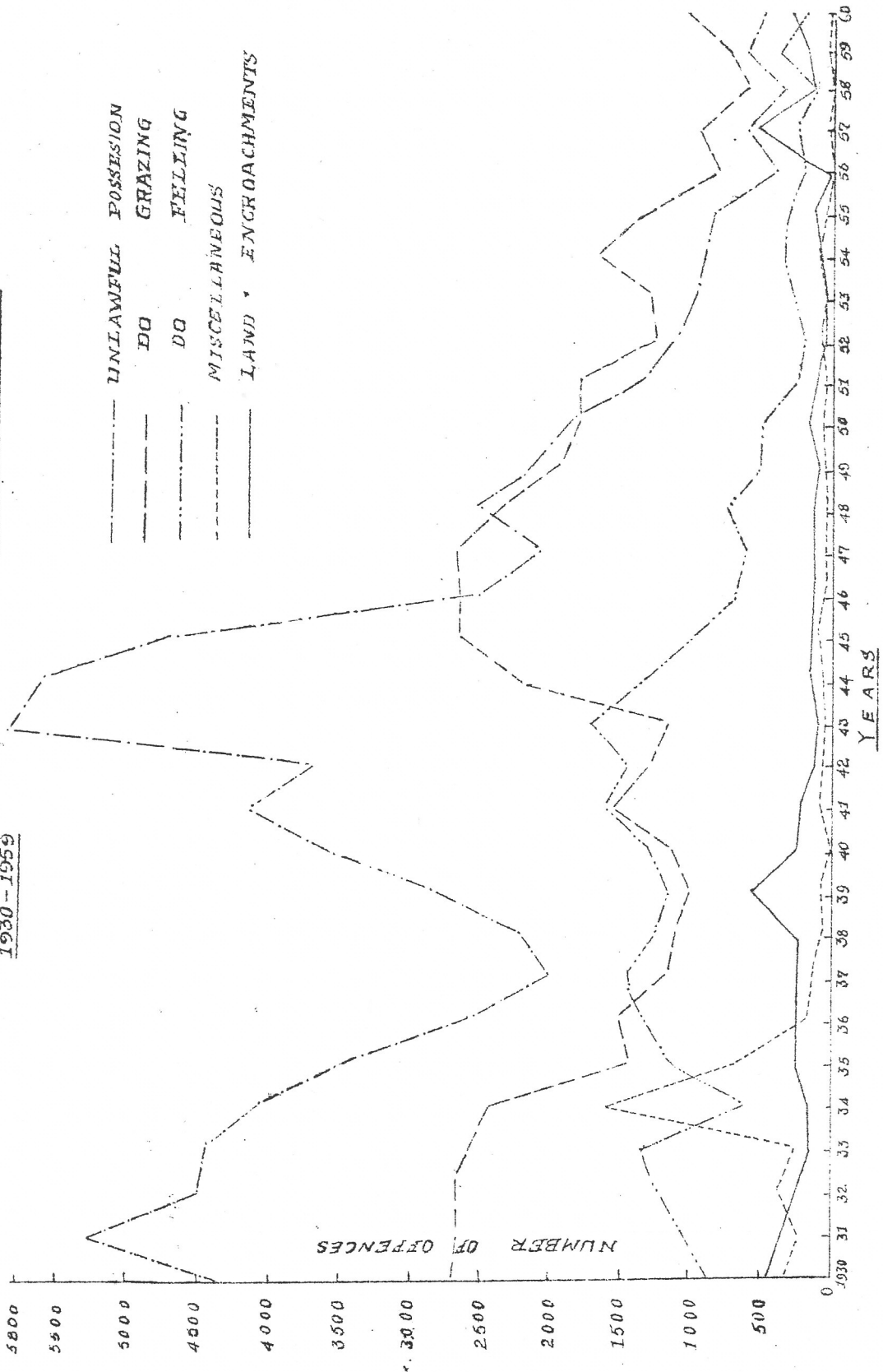
1886 - 1959

— NUMBER OF FIRES

--- AREA BURNT



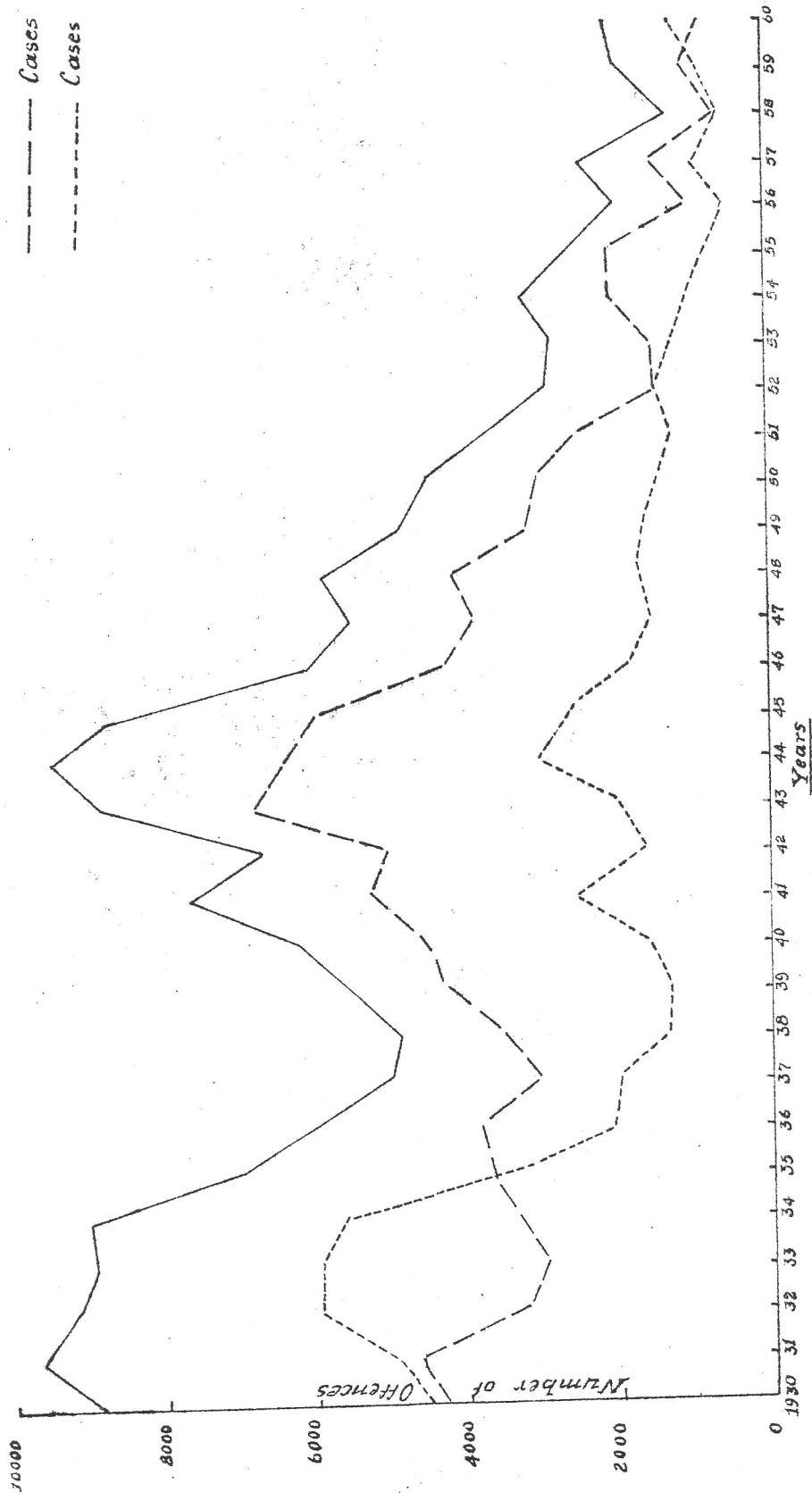
N.B. The areas burnt in the years 1886 - 1915 were shown incorrectly in the Annual Reports of 1954 and 1955

FOREST CRIME1930 - 1959DIAGRAM II

# FOREST CRIME DIAGRAM III

1930 - 1959

— Total offences  
 --- Cases compounded  
 - - - Cases prosecuted



37. Surveys: The Survey Section carried out surveys of burnt areas, forest boundaries, reforested areas and new roads.

38. During the year 131 man-days (as opposed to 65 in 1959) were spent in the field. 35 pieces of new plans and maps were drawn and 547 copies of plans and maps were printed. The preparation of folding maps with hard covers for distribution to the field staff continued.

39. Silvicultural Systems: Green fellings were carried out during the year and no change in silvicultural systems took place. The clear felling of Quercus alnifolia, Platanus orientalis and Alnus Orientalis was applied on a normal scale.

#### VII. - FOREST UTILIZATION.

40. The Morphou Forest Utilization Centre which was burnt in 1958 was not replaced. Therefore, there is practically no activity to report under this sub-section.

##### (1) OUT-TURN FROM THE FORESTS.

Note: All yield volumes refer to measurement "roundwood under bark", R.U.B.).

41. The State Forests yielded 984,214 cu.ft. of timber during the year (as opposed to 1,106,920 cu. ft. in 1959). Revenue collected was £64,060 (as opposed to £64,670 in 1959). Softwood yields mainly from green fellings, contributed 958,184 cu.ft. or 97% of the total out-turn from the forests (as opposed to 1,066,962 cu.ft. or 96% in 1959 of the total out-turn from the forests). The remainder of the yield was extracted from the reverine hardwood forests of plane and alder.

42. Details of the out-turn of timber and firewood from the State Forests are given in Appendix 6. No figures are available for the out-turn from private wood-lands and plantations from which the yield of timber and roundwood is not large. Yields of firewood from private forests, state scrub-lands and from orchards probably contribute a further volume amounting to some 40% of the out-turn for this class of product from the main forests.

##### (2) IMPORTS, EXPORTS AND CONSUMPTION OF WOOD PRODUCTS.

43. Details of imports and exports of forest products are given in Appendix 8. Cyprus still imports two-thirds of its timber requirements, and exports under licence are not normally allowed. Licences were issued during the year for the export of 360 cu.ft. of sawn pine timber (as compared with 22,000 cu.ft. in 1959) and 4,400 cu.ft. of wood fuel (as compared with 10,000 cu.ft. in 1959). A proportion of both imported and local timber was again exported as fruit boxes and packing cases. As these articles are considered to be manufactured goods connected with a specific export trade, details concerning them are not included in the data given.

44. During the year enquiries were received from neighbouring countries regarding the availability of suitable local timber for export.

45. Table 6 combines quantities of forest products imported and locally produced to show the island's total consumption of wood products during the year.

46. The population of the island at the end of 1960 was estimated to be 561,000 so that the consumption per head of population in comparison with 1959 figures amounted to:-

	<u>Cu. ft. round volume underbark</u>	
<u>Year</u>	<u>1959</u>	<u>1960</u>
Timber	9.10	7.82
Fuel	1.16	0.93
Pulp Products	1.35	1.26
Other Products	0.67	0.76
	<hr/>	<hr/>
Totals:	12.28	10.77
	<hr/>	<hr/>

(3) MINOR PRODUCE.

47. Sales of minor forest produce (see Appendix 7) realised £6,572 the major items being sales of nursery stock (£4,447) and seeds and fruits (£1,746).

48. A total of 9,438 olive plants was issued free of charge from the State Forests.

(4) EXTRACTION.

49. In the case of major fellings sales of standing trees were carried out mainly by auction or tender. In the case of thinnings sales of standing trees on the royalty rate basis were also carried out.

50. Extraction roads were constructed by the Forest Department and by timber contractors. Animals were used for the extraction of small size timber, such as pit props and matting poles and fuel.

51. In some areas green fellings were suspended in order to exploit the timber which was burnt during the summer of 1960. Extraction of some quantities of fire killed timber continued throughout the year from burns of previous years.

(5) SAWMILLING AND FOREST INDUSTRIES.

52. At the beginning of the year there were four breakdown sawmills in operation all of which were in private hands.

53. Small privately owned bandmills scattered all over the island continued to produce box-shooks for the fruit export trade. The availability of suitable timber from thinnings and green fellings assisted considerably in improving the quality of box-shooks produced.

54. The price of local sawn softwood timber varied between 250 mils and 500 mils per cubic foot, depending on quality. The cost of imported soft-wood timber varied between 550 mils and 900 mils.

(6) OIL CONVERSION SCHEME.

55. As plentiful supplies of wood fuel were available wood burning restrictions continued to be relaxed to permit the use of wood fuel in all kilns and stills except lime kilns. The price of oil fuel remained relatively steady.

.../VIII.



T A B L E 6

CONSUMPTION OF FOREST PRODUCTS, 1960.

(Expressed in thousands of cubic feet round volume underbark).

Kind	Sawn timber	Round timber	Fire-wood timber	Plywoods veneers	Matches	Paper pulp products	Semi- manufactured goods	Total
Net Imports (a)	3,297	107	-	211	92	707.5	122.5	4,537
Local production (b)	902	82	520	-	-	-	-	1,504
Total Consumption	4,199	189	520	211	92	707.5	122.5	6,041
	4,388							
Local production as percentage of the total	21.9	43.4	100	-	-	-	-	24.9
	22.4							
Percentage of Grand total	69.5	3.2	8.6	3.5	1.5	11.7	2.0	100

(a) Re-exports have been deducted. (b) Excludes production of timber and firewood from non-forests.

# VIII. - FOREST ENGINEERING.

## (1) FOREST ROADS.

56. During the year 25 miles of new forest road were constructed and the total mileage is now 553.

57. Thirty one miles of narrow forest road were widened and improved.

58. The major work carried out was on the East-West, Northern Range Road. The last three miles of this road, from St. Hilarion to Larnaca tis Lapithou/Vasilia junction, have been constructed at the cost of £8,500 and thus that portion of the road has been completed during the year. The distance from St. Hilarion to Larnaca tis Lapithou/Vasilia junction is 14 miles and the total expenditure was £22,723. Part of the road was constructed in 1952 - 1953 and the remainder in 1959 - 1960.

## (2) BUILDINGS.

59. The usual maintenance work was carried out during the year. Major alterations and repairs were made to the Platania Staff Quarters and the A.F.O's house at Koronia. A number of sheds and garages were constructed for the machinery and the vehicles.

## (3) TELECOMMUNICATIONS.

60. Eight new telephones were installed during the year. The system now comprises 289 telephones. The major work done during the year was the erection of a 4 - mile pole route along the Ghomaristra new road to take the Dhikomo-Dhiorios trunk line which was with field wire. The communication was thus very much improved.

61. Due to the above alteration the total mileage of route is now 422 and of wire 1176.

62. The radio telephones worked satisfactorily and there is plenty of scope for increase in the number of country sets.

63. The number of Walkie Talkies was increased as their usefulness in the course of fighting forest fires is great.

## (4) MACHINERY AND PLANT.

64. All maintenance work for machinery and vehicles was carried out in the Departmental workshop. The staff that maintained them comprise a Mechanical Superintendent and 4 Mechanics. The following machinery and vehicles were maintained: Three D6 and two D2 Caterpillar tractors, 3 Air Compressors with ancillary equipment, twelve stationary engines, two portable generating sets, three portable fire-fighting pumps, three concrete mixers, seven lorries, one bus, six vans, ten Land Rovers, five pick-ups and ten motor cycles.

## (5) UTILIZATION.

65. No repairs were effected to the Forest Utilization Centre, Morphou.

66. With the exception of demonstrational talks, for the existing machinery, to the students of the Forestry College, as regards saw-doctoring, kiln-seasoning, pole dressing, timber preservation and air-seasoning, no other activity took place.

.../IX.

IX. - SILVICULTURE.

67. Reforestation. The reforestation of the burnt areas in the mountain forests continued on a large scale. Various techniques, ranging from catastrips, constructed by means of bulldozers, to gradoni and patches, were adopted. The patch cultivation was preferred in most areas, where there was some natural regeneration and where it was only necessary to fill up gaps. Both sowing and planting were carried out. An area of 5,258 donums has been reforested whilst an area of 442 donums has been prepared for reforestation.

68. The results of the 1959 reforestation work have been very encouraging in spite of the extreme and prolonged drought. Birds, especially wood pigeons, caused considerable damage to reforestation by eating the seed and by cutting the young seedlings immediately after germination.

69. Afforestation. Enrichment planting in valley bottoms also continued in Paphos Forest. An area of 102 donums was cleared and pit planted with pine, cedar and plane.

70. Tending. Weeding of the riverine plantations was carried out two or three times to cut back bramble and bracken over an area of 426 donums.

71. Cleaning and thinning of young pine crops continued to make good progress. An area of 25,112 donums was tended systematically. Some brashing and some pruning were also carried out in both the thinned and felled areas, mainly by Forest Trainees. Productive thinnings were undertaken by Forest Contractors on a royalty rate basis as the yields of boxwood, pit props, matting poles and vine stakes had a very good demand throughout the year.

72. The drains at the Polis Marsh Plantation were cleaned during the year.

73. Seed collection. A total quantity of 4.2 tons of seed was collected - mainly of *Pinus brutia* and *Cypressus sempervirens*. Of this a very small quantity was exported and the remainder was used for local sowings and for the production of planting stock in the forest nurseries. A seed extraction floor made of concrete was constructed by the sea-shore near the Yiallia Forest Station. The availability of this sorting place has helped to reduce the cost of seed extraction and to produce almost 100% clean seed.

74. Forest Nurseries. The two big nurseries of Morphou and Athalassa produced most of the planting stock, especially Cypress, Eucalyptus and Acacias. The small nurseries of Stavros and Platania were maintained and produced mainly pine and cedar. Much attention was given to the production of cedar plants for the first time.

75. Total production figures for nursery stock were as follows:-

Stock carried over from previous year	440,670
New seedlings raised during the year	231,644
Total	672,314
Issues for departmental use	124,922
Issues to other departments	28,972
Sales to the public	162,778
Culled or written off	46,306
Total	362,978
Stock remaining at the end of the year	309,336

.../x.

X. - FOREST EDUCATION.

(1) THE FORESTRY COLLEGE.

76. The College completed its ninth Academic Year and its seventh full two-year course at the end of July. 18 Senior Students received their Final Certificates and 20 Junior Students their Preliminary Certificates. The total complement of students comprised 31 from the Cyprus Forest Department (including 2 specialist Foresters), 1 from British Honduras, 1 from Dominica, 3 from Libya and 2 from the Somaliland Protectorate, now part of the Somali Republic.

77. The tenth Academic Year opened in October with a reduced registration of 30 students, comprising 25 from Cyprus and 5 from abroad (two from Somali Republic and one each from British Honduras, Dominica and Libya). At the end of the Winter Term, another Cypriot student joined the Junior course.

78. The Salti Mountain Cross-Country race was held on 15th May and Prize Day on 29th July, both events being well attended. In August, the Junior course carried out the Vacation Tour in the Troodos mountains and at Salamis Plantation, near Famagusta, in the Plains.

79. Further details of College activities will be found in the Principal's Report, given at Appendix 16.

(2) OTHER TRAINING COURSES.

80. Mr. J. D. Leefe, Principal Forestry College, spent three weeks, early in the year, touring the forests of Libya. He visited both Cyrenaica and Tripolitania, warm hospitality being extended to him by the Provincial Forest Services. He was able to meet many of the Libyan graduates of the Forestry College, who are now working with the Forest Services or in other Government Departments. The tour was made possible through a generous grant from the British Middle East Development Division.

81. Later in the year, he attended the 5th World Forestry Congress, which was held in Seattle U.S.A., taking part in two forest tours. These were a 12 day tour through the West Coast forests of California, Oregon and Washington and a 5 day tour in British Columbia, Canada.

82. Mr. H. Hilmi, Assistant Conservator of Forests, completed the one year post graduate course at the Imperial Forestry Institute, Oxford University.

83. Mr. H. Salih, Forestry Scholar, attended the Advanced Level G.C.E. course at Dundee Technical College, but unfortunately did not qualify sufficiently well for entrance to Aberdeen University. His Scholarship was extended until March 1961, to enable him to re-sit the Scottish University Preliminary Examinations to be held in that month.

84. Three weekend forestry courses were held for Boy Scouts, during March, April and May, at Prodromos and Dhiorios.

85. Forest Trainees attended a short one-day course, at Dhiorios Forest Education Centre, in January and one-week course in December.

.../(3)

(3) PUBLICATIONS.

86. A special paper was prepared for the 5th World Forestry Congress by Mr. John D. Leefe, B.Sc. (For), Principal Forestry College. It was accepted, published and presented by the writer, the title being:-

"Some suggestions for the development of the training of Sub-professional grades for the Middle East Forest Services".

(4) LIBRARY.

87. During the year the library acquired 3 books, 234 periodicals and 124 separates. Some 249 volumes were issued within the Department during the year.

(5) FOREST EXTENSION & PUBLICITY.

88. With the Establishment of the Cyprus Republic, it was possible to revive the extension work and to carry out advisory work and to give lectures to various sections of the public.

89. Publicity was dealt with by a small committee which included a representative from the Public Information Office.

90. The Department's publicity was mainly concerned with a campaign for the prevention of forest fires. This was initiated during the "Save our Forests Week" which was held from 30th May to 5th June, 1960, both days inclusive.

91. The following action was taken during the campaign:-

- (a) The use of slogans and the distribution of adhesive seals for use on inland mail.
- (b) The distribution of posters and banners for public display, and stickers for use on vehicles.
- (c) Talks and features broadcast by the Cyprus Broadcasting Corporation.
- (d) The showing of slides and filmlets in cinemas.
- (e) Articles in the "Countryman", "Cyprus Pictorial" and other publications.
- (f) The showing of a film "Save our Forests" on the television.
- (g) Talks by schoolmasters and forest officials to school children.
- (h) The placing of slips of paper bearing suitable slogans in packets of locally manufactured cigarettes.
- (i) Large "Notice Boards" with suitable slogans in three languages, Greek, Turkish and English, were placed at conspicuous places in the three Main Territorial Divisional Headquarters, i.e. Stavros, Platania and Halefka.
- (j) A pictorial poster was issued and distributed to all Greek and Turkish Schools, inviting the pupils to protect our forests from fires.
- (k) Talks to the Army.



92. In addition, the Cyprus Broadcasting Corporation and the Forces Broadcasting Service broadcast the current "forest fire danger" at suitable times each day, during the hot months.

93. During the year, the Department staged an exhibition at the Platres Agricultural Show. The Exhibition attracted great interest and was judged to be very successful.

94. The Department, in co-operation with the Agricultural and Education Departments, the District Administration and the Cyprus Forestry Association, organized the Tree Planting Week, which was held from the 10th to 17th January, 1960, both days inclusive. The slogan was "PLANT AND TEND MORE TREES" and schools played a prominent part in the Week's activities.

95. The Minister and Deputy Minister of Agriculture and Natural Resources opened the Tree Planting Week with a message over the Cyprus Broadcasting Corporation, stressing the importance of tree planting in the economy of Cyprus. Archbishop Makarios and Dr. Kuchuk planted trees in the grounds of the Council of Ministers' Building (now House of Representatives).

#### XI. - FOREST RESEARCH.

96. The 1960 Research programme was not carried out in full owing to shortage of funds and to deviation of having to investigate into unforeseen urgent problems.

97. All experiments were maintained. Some repairs to fences were carried out and some experiments were assessed.

98. Species trials. At the Goshi and Laccovounara experiments more species, namely Pinus halepensis, Pinus brutia, Pinus pinea, Cupressus sempervirens, Callitris quatrivalvis, Pistacia lentiscus, Pistacia atlantica, and Ceratonia siliqua, have been included in the species trials.

99. The following exotic trees and shrubs have also been tried on a small scale:-

Pinus radiata from South Africa; Acacia mellifera, Acacia campylacantha, Acacia sieberiana, Prosopis juliflora from Sudan; and Cajanus indicus from Morocco. Medicago arborea and Atriplex nummularia have also been tried with seed obtained from the Department of Agriculture.

100. Seed Supplies. The Island's forests have been classified into three zones on the basis of altitude, and 59 "plus" seed trees of Pinus brutia have been selected in different zones. Seed and grafts have been collected from these "plus" trees, in order to establish provenance trials and seed orchards.

101. Seed testing for purity and viability of seed, used locally or destined for export, was carried out extensively. The number of seeds per oke of Pinus halepensis, Pinus brutia, Pinus pinea, Cupressus sempervirens and Acacia cyanophylla has been determined. Research in the length of seed viability of these species has also been started.

102. Hybridization work continued with cross-pollination being carried out of Pinus halepensis on Pinus brutia  
Pinus halepensis on Pinus pinea  
Pinus canariensis on Pinus brutia  
and Pinus brutia on Pinus canariensis.

103. Research in Nursery work included the root pruning of seedlings raised in beds. An attempt was made to raise plants from cuttings of Populus chilensis, Tamarix articulata, Pistacia lentiscus, Pistacia terebinthus, Pistacia vera, Robinia pseudoacacia, Platanus orientalis, and Parkinsonia aculeata. The first two species rooted well, whilst the other species failed.

104. Reforestation. Planting of 3-month old seedlings, raised in pots, and 1-year and 2-year old naked rooted Pinus brutia, lifted from previously sown catastrips, has been tried in the field to determine its possibilities. So far, the results have been poor, probably owing to the 1960 severe drought.

105. Entomology. An experiment on the control of Pine borers and bark beetles attacking burnt trees, with the use of insecticides "protoplus" and "hexaplus", has been initiated. Work on the control of the Processionary caterpillar (Thaumetopoea wilkinsoni) continued.

106. The effect of the chelating agent Sequestrene NaFe (Sodium ferric ethylenediamine tetraacetate) on chlorotic Eucalyptus camaldulensis has been investigated.

107. In addition, the Research Division did quite a lot of work in maintaining the meteorology records of the Department, in revising and writing up some of the previously carried out experiments, in answering questionnaires from various organisations and in assisting in other functions of the Department.

## XII. - GAME PRESERVATION.

### (1) SHOOTING IN GENERAL.

#### (a) Partridges and Hares.

108. Owing to the drought and the drying up of many springs in most rural areas a considerable number of partridges failed to survive although breeding in spring was quite satisfactory.

109. Illicit poaching and use of traps, snares and poisons were all practised on a big scale by villagers during the year resulting in the destruction of a lot of game. The recent mania of town sportsmen, on the other hand, who travel miles away to the most distant places searching for game is another reason for the reduction in the numbers of both partridges and hares. It will not, indeed, be very far when we will have to face a complete destruction of the island's fauna if this situation continues for a few years more and if adequate measures are not immediately taken for its protection. A thorough study of the problem is, therefore, necessary and areas which have been seriously affected may have to be closed to shooting every other year. A sufficient number of game keepers should also be appointed in places where illicit poaching and use of traps are practised all the year round.

.../(b)

(b) Wood pigeons.

110. The population of wood pigeons has increased so much in the Paphos Game Reserve that a distinct damage is being caused to both agricultural lands and forest areas especially those under regeneration. As a measure for its reduction the Department organised a control shooting during the period 12th June to 3rd July, 1960 and a number of 1,200 sportsmen had the chance to enjoy this sport, killing about 15,000 birds. Apart from the direct benefit that wood pigeon shooting has on both agriculture and forestry, it also contributes indirectly towards the development of a forest conscience among the public, through the big numbers of sportsmen and their friends who visit the forests on shooting days.

(c) Francolin.

111. Breeding conditions of francolin were satisfactory but again lack of summer water was the cause of a few survivals only.

(2) MOUFFLON.

112. Moufflon poaching was reduced to the minimum through the vigilance of members of the Gendarmerie and the Forest staff. Wild dogs found astray in the forest are a manace to these animals especially to the kids, and cases were reported on which a number of moufflon were eaten up during the year. The game keepers of the Department managed to kill some of these dogs and every effort is made for their complete destruction. The number of moufflon is steadily increasing as a result of the good protection afforded.

(3) TROUT.

113. Unfortunately cases were reported of local people interfering with the life of the fish and consequently there has been no remarkable increase in their number. The Forest Staff are doing their best to preserve it.

XIII. - FOREST STAFF.

114. Forest Staff. A statement of the Forest Staff is given in Appendices 14 and 15 and a summary of the staff is given in table 7 below:

Table 7 - FOREST STAFF ON 31st DECEMBER, 1960.

Permanent Establishment:

Senior Staff .....	11
Subordinate Staff .....	245

Temporary Establishment:

Senior Staff .....	-
Subordinate Staff .....	18

Total Technical Staff .....274

Clerical Establishment:

Principal Clerk .....	1
Accounting Officer, 1st Grade .....	1
Clerks, 1st Grade .....	2
Clerks, 2nd Grade .....	2
Clerical Assistants .....	2
Temporary Clerical Staff .....	7
Messengers .....	2

Total all Staff .....291

115. Mr. D.F Davidson, O.B.E., Conservator of Forests, was appointed to perform special duties in the Administrative Secretary's Office with effect from 1st February, 1960. He relinquished his duties on the 16th August, 1960 and proceeded on leave prior to his retirement on the 17th January, 1961.

116. Mr. A. J. Browning, Senior Assistant Conservator of Forests, relinquished his duties on 25th January, 1960 and proceeded on leave prior to his retirement on the 17th July, 1960.

117. Mr. I. Sidki, M.B.E., Assistant Conservator of Forests, Class I, acted as Chief Forest Officer from 1st February to 31st December, 1960.

118. Mr. A. Polycarpou, Assistant Conservator of Forests, Class I, acted as Senior Assistant Chief Forest Officer from 1st February to 31st December, 1960.

119. Mr. H. Hilmi, Assistant Conservator of Forests, Class II, acted as Principal Forestry College from 8th August to 16th November, 1960.

120. Mr. O. Hj. Nicolaou, Forest Ranger, acted as Forest Engineer from 3rd August to 3rd September, 1960.

121. Forest Labour. The following table shows the employment provided by Forestry and Forest Industries. Labour employed amounted to a total of about 504,000 man-days.

TABLE 8 - FOREST EMPLOYMENT.

Employment Category	No. of industrial units	No. of persons employed annually	Quantities of wood including fuel used. Thousands of cubic feet	Value of minor products used in £ sterling
(1)	(2)	(3)	(4)	(5)
A.-FORESTRY				
(i) Management Silviculture & Protection	Main Forests	554 (a)	1,504	
(ii) Extraction		1,002 (b)		
B.-INDUSTRIAL				
(i) Primary: Sawmills	4	123	N.A.	N.A.
Essential Oils	1	2	-	N.A.
(ii) Secondary	N.A.	4,417 (c)	N.A.	N.A.

(a) Labourers regularly employed in the Forest Service.

(b) Estimated on the basis of 5 cu.ft. (r) per man-day and 300 working days to the year.

(c) Extract from the 1946 Census Report.

N.A.= Not available.

122. Exploitation of burnt areas, thinnings, reafforestation, maintenance of roads and other forest operations provided considerable employment. Nevertheless, the supply of labour exceeded the employment available in many forest villages.

#### XIV. - FINANCIAL.

123. Details of Forest expenditure and revenue are given in Appendices Nos. 11, 12 and 13. A summary of these is given in the following table:

TABLE 9 - FINANCIAL SUMMARY.

	<u>1959</u>	<u>1960</u>
Personal Emoluments	139,444	130,032
Current Expenditure	121,037	144,077
Total	260,481	274,109
Forest Revenue	94,826	97,058
Deficit Balance	165,655	177,051
Development Expenditure	37,768	36,765
Emergency Expenditure	2,147	-
Total Expenditure by Forest Department from other votes	7,749	4,169
Other Revenue collected by Forest Department	1,553	862
Total all expenditure	308,145	315,043
Total all revenue	96,379	97,920
Total gross turn over	404,524	412,963

124. The above expenditure and revenue figures concern only the Main State Forests with the exception of Village Fuel Areas which are classified as Minor (Communal) Forests, but are at present under the direct control of the Forest Department. Revenue and expenditure relating to the other Minor State Forests are brought to account in District Forestry Funds under the control of the District Administration.

#### XV. - ACKNOWLEDGEMENT.

125. The year 1960 marks the beginning of a new era for the Cyprus Forest Service. The country emerged from the status of a colony to an Independent Republic and the Forest Service lost no time in re-organising and re-adjusting itself to embark on its programme of forest development under conditions of political freedom.

126. The writer wishes to pay tribute to all ranks of Forest Officials for their devotion to their duties and the general public for its support without which the Forest Administration could not attain its high degree of efficiency during 1960.

(A. Polycarpou)  
Chief Forest Officer.



APPENDIX I  
CLASSIFICATION OF FOREST AREA IN SQUARE MILES 1960.

CLASS OF FOREST	State Forests		Communal Forests		Private Forests		Total	Percentage of Total Forest Area
	Main	Minor	Reserved	Unreserved	Protected*	Others		
A. Exploitable								
(i) Softwoods	450.56	-	-	-	1.75	32.65	484.96	72.45
(ii) Mixedwoods	73.22	76.56	-	-	-	6.30	156.08	23.30
(iii) Hardwoods	8.84	-	8.03	-	0.25	11.35	28.47	4.25
Total	532.62	76.56	8.03	-	2.00	50.30	669.51	100.00
B. Potentially Exploitable	-	-	-	-	-	-	-	-
C. Other land classed as forest	-	-	-	-	-	-	-	-
Grand Total	532.62	76.56	8.03	-	2.00	50.30	669.51	-
		84.59				52.30		
Percentage of Total Forest Area	79.56	11.43	1.20	-	0.30	7.51	100.00	-

\* Under the protection and management of the Forest Department.

APPENDIX 2.

STATEMENT IN SQUARE MILES OF PROGRESS IN FOREST RESERVATION

AND DEMARCATION DURING THE YEAR ENDED 31ST DECEMBER,

1960

Category of Forest Reserve	Reserves Constituted and Demarcated			On 31st, December, 1960
	On 1st January 1960	Added during the year	Excluded during the year	
Main State Forests	532.62	--	--	532.62
Minor State Forests	76.56	--	--	76.56
Communal Forests	8.03	--	--	8.03
TOTAL	617.21	--	--	617.21

## APPENDIX 3.

STATEMENT IN SQUARE MILES OF PROGRESS MADE IN WORKING PLANS DURING THE YEAR ENDED  
31st DECEMBER, 1960.

Forest Category	Total Area	Area under Working Plans				Area not under W. Plan	Progress in Working Plan Revision					
		On 1st Jan. 1960	Added during year	Exclud. during year	On 31st Dec. 1960		Area Stock mapped		Area enum rated		Area for which Working Plans were revised	
							During year	Total end of year	During year	Total end of year	During year	Total end of year
Main State Forests	532.62	481.00	—	—	481.00	51.62	49.62	357.12	87.02	218.09	—	18.53*
Minor State Forests	76.56	—	—	—	—	76.56	—	—	—	—	—	—
Communal Forests	8.03	3.70	—	—	3.70	4.33	—	—	—	—	—	—
Total	617.21	484.70	—	—	484.70	132.51	49.62	357.12	87.02	218.09	—	18.53

\* The area for which Working Plans were revised in the year 1959 was shown incorrectly in the Annual Report of 1959.

APPENDIX 4.

RECORD IN MILES OF FOREST COMMUNICATIONS FOR THE YEAR  
ENDED 31ST DECEMBER, 1960.

Category of Forest Land	Forest Roads		Total at the end of the year.
	Added	Abandoned	
Main State Forests	25.40	-	553.43
Minor State Forests	-	-	14.00
Total	25.40	-	567.43

APPENDIX 5.

SUMMARY OF FOREST OFFENCES FOR THE YEAR ENDED 31st DECEMBER, 1960.

MAIN STATE FORESTS.

Category of Offence	Cases taken to Court										Total
	Imprisonment without option of fine		Fined		Cau- tioned and Dis- charged		Acquit- ted or with- drawn		Bound over		
	Cases	Cases	Fine £. mls	Compensation for damage £. mls	Cases	Cases	Cases	Cases	Cases	Cases	
Damage to forest by fire .. ..	—	4	6,500	—	—	—	—	—	—	4	4
Unauthorized Possession of Forest Produce .. ..	—	91	110,750	78,280	—	—	4	—	4	99	103
Unauthorized Fellings .. ..	—	15	20,300	14,900	2	—	—	3	20	22	22
Unauthorized Grazing .. ..	—	765	919,260	429,829	22	1	—	13	801	815	815
Land Encroachments .. ..	—	283	394,800	102,050	12	—	—	1	296	302	302
Oil Conversion .. ..	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous .. ..	—	15	16,300	4,050	2	1	1	1	19	32	32
Total .. ..	—	1,173	1,467,910	629,109	38	6	22	1,239	1,278	1,278	1,278



APPENDIX 5—*contd.*

## SUMMARY OF FOREST OFFENCES FOR THE YEAR ENDED 31st DECEMBER, 1960.

MAIN STATE FORESTS.—*continued.*

Category of Offence	Cases dealt with departmentally				Total				Offenders Unknown (Undetected)		Total all Offences		Confiscated Property sold or released		Cases pending from previous years		Cases Outstanding at the end of the year	
	Compounded		Warned		Cases	Per-sons	Cases	Esti-mated Loss £	Cases	Per-sons	Cases	Amount £ mls	Cases	Amount £ mls	No.	Cases	No.	
	Cases	Amount £ mls	Cases	Cases														
Damage to forest by fire	—	—	2	1	3	5	—	—	7	9	—	—	—	—	2	2		
Unauthorized Possession of Forest Produce ..	383	232.160	8	7	398	415	—	—	497	518	15	14,800	68	112	112			
Unauthorized Felling ..	175	137,500	2	1	178	189	—	—	138	211	—	—	46	32	32			
Unauthorized Grazing ..	213	173,600	1	52	266	335	—	—	1,067	1,150	—	—	183	220	220			
Land Encroachments ..	2	1,750	4	2	8	8	—	—	304	310	—	—	130	138	138			
Cil Conversion ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Miscellaneous ..	2	1,500	—	2	4	6	—	—	23	38	—	—	8	1	1			
T tal ..	775	546,510	17	65	857	958	—	—	2,096	2,236	15	14,800	437	505	505			

APPENDIX 5—*contd.*

SUMMARY OF FOREST OFFENCES FOR THE YEAR ENDED 31st DECEMBER, 1960.  
MINOR STATE FORESTS.

Category of Offence	Cases taken to Court										Total
	Imprisonment without option of fine	Fined				Cautioned and Discharged	Acquitted or withdrawn	Bound over	Cases	Persons	
		Cases	Cases	Fine £ mls	Compensation for damage, £ mls						
Damage to forest by fire .. of	—	—	—	—	—	—	—	—	—	—	—
Unauthorized Possession ..	—	3	2,360	—	—	—	—	—	3	4	
Forest Produce ..	—	4	9,750	—	—	—	—	—	4	7	
Unauthorized Fellings ..	—	11	14,250	6,500	—	—	—	—	11	11	
Unauthorized Grazing ..	—	451	515,600	8,750	—	8	—	—	495	—	
Land Encroachments ..	—	—	—	13,500	36	—	—	—	—	—	
Oil Conversion ..	—	—	—	—	—	—	—	—	—	—	
Miscellaneous ..	—	—	—	—	—	—	—	—	—	—	
Total ..	—	469	541,960	28,750	36	8	—	—	513	517	
Total Main State Forests ..	—	1,173	1,467,910	629,109	38	6	—	22	1,239	1,278	
Total Minor State Forests ..	—	469	541,960	28,750	36	8	—	—	513	517	
Grand Total ..	—	1,641	2,009,870	657,859	74	14	—	22	1,752	1,795	

APPENDIX 5—*contd.*SUMMARY OF FOREST OFFENCES FOR THE YEAR ENDED 31ST DECEMBER, 1960.  
MINOR STATE FORESTS.—*continued.*

Category of Offence	Cases dealt with departmentally				Total			Offenders Unknown (Undetected)		Total all Offences		Confiscated Property sold or released		Cases pending from previous years		Cases Outstanding at the end of the year	
	Compounded		Warned		Cases	Per-sons	Cases	Per-sons	Estimated Loss £	Cases	Per-sons	Cases	Amount £ mils	No.	No.	No.	No.
	Cases	Amount £	Cases	Cancelled													
Damage to forest by fire	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unauthorized Possession of Forest Produce ..	37	36,850	—	1	38	39	—	—	—	41	43	—	—	6	3	—	—
Unauthorized Felling ..	26	38,950	—	—	26	26	—	—	—	30	33	—	—	8	6	—	—
Unauthorized Grazing ..	23	33,550	—	—	23	23	—	—	—	34	34	—	—	5	62	—	—
Land Encroachments ..	—	—	—	—	—	—	—	—	—	495	495	—	—	352	296	—	—
Oil Conversion ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total ..	86	109,350	—	1	87	88	—	—	—	600	605	—	—	371	367	—	—
Total Main State Forests	775	546,510	17	65	857	958	—	—	—	2,096	2,236	15	14,800	437	505	—	—
Total Minor State Forests ..	86	109,350	—	1	87	88	—	—	—	600	605	—	—	371	367	—	—
Grand Total ..	861	655,860	17	66	944	1,046	—	—	—	2,696	2,841	15	14,800	808	872	—	—

APPENDIX 6.

OUT-TURN IN SOLID CUBIC FEET (UNDER BARK) OF TIMBER AND FUEL

FOR THE YEAR ENDED 31st DECEMBER, 1960.

Territorial Unit	Lumber (1)	Round-timber (2)	Hev'n timber (3)	Firewood (4)	Charcoal (c.ft. of timber equivalent) (5)	Total volume equivalent in round timber (6)	Total value (7)
Main State Forests—							
Softwoods .. ..	888,280	69,325	524	415,832	—	1,373,961	₹ 66,088
Hardwoods .. ..	14,168	10,195	1,667	101,537	250	127,817	2,506
Total .. ..	902,448	79,520	2,191	517,369*	250	1,501,778	68,594
Minor State Forests—							
Softwoods .. ..	—	—	55	2,384	—	2,439	26
Hardwoods .. ..	—	—	—	—	—	—	—
Total .. ..	—	—	55	2,384	—	2,439	26
Total Softwoods .. ..	888,280	69,325	579	418,216	—	1,376,400	66,114
Total Hardwoods .. ..	14,168	10,195	1,667	101,537	250	127,817	2,506
Grand Total .. ..	902,448	79,520	2,246	519,753	250	1,501,217	68,620

\* Includes 177,500 cub. ft. solid being the estimated quantity of firewood collected by 165 scheduled villages privileged to collect: dry fuel free of charge from the Forests.

Note :—Data for the out-turn from private woodlands or from other scrub covered vacant Crown lands are not available.

APPENDIX 7.

OUT-TURN OF MINOR FOREST PRODUCE, 1960.

Territorial Unit	(1)		(2)		(3)		(4)		(5)	
	Origanum Plant		Fodder, hay, grass vetch and leaves		Miscellaneous (Stones and earth)		Miscellaneous (fruit & seeds)		Miscellaneous (cones)	
	Tons	Value £	Tons	Value £	Tons	Value £	Tons	Value £	Tons	Value £
Main State Forests	1	40	-	-	5,252	327	23	1,206	8	6
Minor State Forests	-	-	-	-	3	-	67	540	-	-
Total	1	40	-	-	5,255	327	90	1,746	8	6

Territorial Unit	(6)		(7)		(8)		(9)		(10)	
	Miscellaneous (olive trees, & nursery stock)		Sawdust		Pine Bark		Miscellaneous (other Material)		Total	
	No.	Value £	Tons	Value £	Tons	Value £	Tons	Value £	Tons	Value £
Main State Forests	326,164	3,737	-	-	3	1	13	3		5,320
Minor State Forests	34,684	710	-	-	-	-	-	2		1,252
Total	360,248	4,447	-	-	3	1	3	5		6,572



## APPENDIX 8.

WOOD AND WOOD PRODUCTS : IMPORTS AND EXPORTS FOR THE YEAR 1960.\*  
 VOLUME IN THOUSANDS OF CUBIC FEET IN THE EQUIVALENT OF ROUND TIMBER IN TRUE MEASURE UNDER BARK, AND VALUE IN £ STERLING.

Category (1)	Gross Imports		Gross Exports		Net imports(+)or exports (—)	
	Thousands of cubic feet (2)	C.I.F. value £ sterling (3)	Thousands of cubic feet (4)	F.O.B value £ sterling (5)	Thousands of cubic feet (6)	Value £ sterling (7)
PRIMARY PRODUCTS :						
Softwood (conifers)—						
Logs .. .. .	—	—	—	—	—	—
Sleepers (sawn and hewn) ..	—	—	—	—	—	—
Other sawn and hewn Timber ..	3,295	1,018,544	4	1,415	+3,291	+1,017,129
Total Softwood Timber ..	3,295	1,018,544	4	1,415	+3,291	+1,017,129
Roundwood .. .. .	114	71,886	—	—	+114	+71,886
Pulpwood .. .. .	—	—	—	—	—	—
Firewood .. .. .	—	—	7	850	—7	—850
Other sorts of wood .. .. .	—	—	—	—	—	—
Total Softwood .. .. .	114	71,886	7	850	+107	+71,036
Hardwood (broadleaved)—						
Logs .. .. .	—	—	—	—	—	—
Sleepers (sawn and hewn) ..	—	—	—	—	—	—
Other sawn and hewn timber ..	6	4,210	—	—	+6	+4,210
Total Hardwood Timber ..	6	4,210	—	—	+6	+4,210

\* The figures refer to the twelve months November, 1959 to October, 1960, since full details for the calendar year were not available when the report was issued.

APPENDIX 8.—*contd.*

## WOOD AND WOOD PRODUCTS: IMPORTS AND EXPORTS FOR THE YEAR 1960.\*

VOLUME IN THOUSANDS OF CUBIC FEET IN THE EQUIVALENT OF ROUND TIMBER IN TRUE MEASURE UNDER BARK, AND VALUE IN £ STERLING.

Category (1)	Gross Imports		Gross Exports		Net imports(+) or exports(—)	
	Thousands of cubic feet (2)	C.I.F. value £ sterling (3)	Thousands of cubic feet (4)	F.O.B. value £ sterling (5)	Thousands of cubic feet (6)	Value £ sterling (7)
<b>PRIMARY PRODUCTS.—<i>contd.</i></b>						
Roundwood .. .. .	—	—	—	—	—	—
Pulpwood .. .. .	—	—	—	—	—	—
Firewood .. .. .	—	—	—	—	—	—
Other sorts of wood .. .. .	—	—	—	—	—	—
Total Hardwood .. .. .	—	—	—	—	—	—
Total Primary Products .. .. .	3,415	1,034,640	11	2,265	+3,404	+1,092,375
<b>DERIVATIVE PRODUCTS:—</b>						
Veneers, plywood and other veneer products excluding matches .. .. .	211	137,912	—	—	+211	+137,912
Matches .. .. .	92	49,092	—	—	+92	+49,092
Pulp .. .. .	—	—	—	—	—	—
Paper and Pulp products .. .. .	709	709,676	1.5	3,478	+707.5	+706,198
Furniture and cabinet ware .. .. .	48	143,471	1	3,326	+47	+140,145
Other wooden ware and builder's woodwork .. .. .	77	230,448	1.5	3,805	+75.5	+226,643
Charcoal .. .. .	—	100	—	—	—	+100
Total Derivative Products .. .. .	1,137	1,270,699	4	10,609	+1,133	+1,250,090
GRAND TOTAL .. .. .	4,552	2,365,339	15	12,874	+4,537	+2,352,465

\* The figures refer to the twelve months November, 1959 to October, 1960, since full details for the calendar year were not available when the report was issued.

# APPENDIX 2.

## STATEMENT OF THE INCIDENCE OF FOREST GRAZING IN MAIN STATE FORESTS. (a) GRAZING PERMITS ISSUED.

	Fees		On Payment		Total	
	1959	1960	1959	1960	1959	1960
1. Number of Permits	42	41	312	380	354	421
2. Number of Animals:-						
(a) Goats	2,257	2,798	365	460	2,622	3,258
(b) Sheep	13	130	16,209	17,972	16,222	18,102
(c) Other Animals	249	249	49	37	298	286
(d) Total Number of Animals	2,519	3,177	16,623	18,469	19,142	21,646
3. Fees Collected			£172,679	£180,515		

## (b) GRAZING STATISTICS

	1959	1960
1. Area of Main State Forests grazed over lawfully, in square miles .....	82.82	82.82
2. Area of Main State Forests closed to grazing in square miles .....	449.80	449.80
3. Total number of goats in the island .....	242,992	238,076
4. Number of goats allowed to graze in the Main State Forests .....	2,622	3,258
5. Number of goats allowed to graze in the Main State Forests, expressed as percentage of total number of goats .....	1.08%	1.36%
6. Total number of sheep in the island .....	460,651	414,304
7. Number of sheep allowed to graze in the Main State Forests .....	15,222	18,102
8. Number of sheep allowed to graze in the Main State Forests, expressed as percentage of total number of sheep .....	3.52%	4.36%

# APPENDIX 10.

## STATEMENT OF FIRE PROTECTIVE WORKS AND FIRE INCIDENCE FOR THE YEAR 1960

### (a) FIRE TRACES.

1. Fire traces existing on 1st January, 1960	174,72 miles
2. New fire traces opened during the year	122,96 "
3. Fire traces abandoned during the year	"
4. Existing fire traces closed during the year	28,00 "

### (b) TELEPHONES

	Length miles	No. of instruments	No. of switch boards
1. Existing telephone lines and instruments on 1.1.1960	424,64	281	13
2. Alterations (14.99 miles and 12 instruments additions and 18.18 miles and 4 instruments obsolescent)	3.19	+ 8	"
Total	421,45	289	13

### (c) FIRE PROTECTION

	No. 42
1. Fire Watchers	
2. Fire Watchers' huts on 31st December, 1960	13
3. Huts repaired during the year	1

### (d) FIRE INCIDENCE

Year	No. of fires	Area burnt sq. miles	Assessed damage	Cost of extinction	Cause
1960	70	2,31	£103,653 +	£9,904	49 accidental 15 intentional 5 unknown 1 lightning

+ This figure refers to the value of standing trees and bushes burnt and does not include any estimate of the cost of reclamation or other forms of indirect damage resulting from the fires. Burnt trees are salvaged whenever possible.

APPENDIX 11

STATEMENT OF FOREST REVENUE COLLECTED IN  
1959 and 1960

Head 4 - Forests.

<u>Item of Revenue</u>	<u>1959</u>		<u>1960</u>	
	£	mils	£	mils
1. Sale of:-				
Standing trees .....	30,680.713		31,863.136	
Timber .....	33,989.766		32,197.414	
Fuel .....	3,661.041		3,252.281	
Charcoal .....	52.522		12.135	
Bark and Stones .....	142.661		362.282	
Seeds .....	1,044.216		895.322	
Minor Forest Produce .....	193.971		94.490	
Confiscations .....	111.707		15.850	
Total Sales.	69,876.597		68,692.910	
2. Permit Fees:-				
Fuel Permits .....	356.015		382.400	
Charcoal Permits .....	7.750		9.150	
Grazing Permits .....	138.928		177.165	
Gypsum and Pottery Permits ....	39.490		-	
Bricks and Tiles Permits .....	24.000		9.000	
Kiln Permits .....	45.650		46.600	
Total Permits.	611.833		624.315	
3. Other Revenue:-				
Rent of water etc.....	438.316		597.417	
Rent of Sawmills.....	11.400		10.000	
Other Revenue .....	1,055.274		1,133.890	
Telephone Charges .....	263.193		2,361.695	
Protection Fees .....	52.665		46.300	
Impounding Fees.....	19.273		19.549	
Rent of Telephone Junction line	1,801.196		104.168	
Blasting Material .....	-		21.719	
Total Other Revenue	3,641.317		4,294.738	
4. Maintenance and operation of Earth Moving Machinery.....	12,343.200		14,699.450	
5. Forest Nurseries .....	2,473.325		3,727.850	
6. Forest College:-				
Foreign Students .....	2,000.000		1,840.000	
Cypriot Students .....	1,951.275		2,091.665	
Other .....	123.880		133.745	
Total Forest College	4,075.155		4,065.410	
7. Operation of Forest Utilization Centre, Morphou .....	1,805.063		953.707	
Total Revenue	94,826.490		97,058.380	



APPENDIX 11 - Contd.

REVENUE - OTHER THAN FOREST REVENUE  
(Collected or related to the Forest Department)

	<u>£</u> <u>1959</u>	<u>£</u> <u>1960</u>
	<u>Mils</u>	<u>Mils</u>
2. Licences, Excise and Internal Revenue:-		
3. Income Tax.....	16.495	19.665
3. Fees of Court, etc.:		
1. Fines and Forfeitures .....	730.345	570.000
61. Miscellaneous Receipts .....	157.040	25.779
6. Rents and Royalties:-		
1. Rent .....	-	-
8. Miscellaneous Receipts:-		
1. Sale of Stores .....	506.810	226.893
4. Overpayments in previous years	34.209	3.016
6. Unclaimed Deposits .....	108.841	16.942
Total .....	<u>1,553.740</u>	<u>862.295</u>

## APPENDIX 12.

STATEMENT OF EXPENDITURE FROM FOREST DEPARTMENT VOTES DURING 1959 AND 1960.	
HEAD 9A.—FORESTS.	1959 1960
1. Forests	10,000 10,000
2. Forests	10,000 10,000
3. Forests	10,000 10,000
4. Forests	10,000 10,000
5. Forests	10,000 10,000
6. Forests	10,000 10,000
7. Forests	10,000 10,000
8. Forests	10,000 10,000
9. Forests	10,000 10,000
10. Forests	10,000 10,000
11. Forests	10,000 10,000
12. Forests	10,000 10,000
13. Forests	10,000 10,000
14. Forests	10,000 10,000
15. Forests	10,000 10,000
16. Forests	10,000 10,000
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27. Forests	10,000 10,000
28. Forests	10,000 10,000
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30. Forests	10,000 10,000
31. Forests	10,000 10,000
32. Forests	10,000 10,000
33. Forests	10,000 10,000
34. Forests	10,000 10,000
35. Forests	10,000 10,000
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37. Forests	10,000 10,000
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80. Forests	10,000 10,000
81. Forests	10,000 10,000
82. Forests	10,000 10,000
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101. Forests	10,000 10,000
102. Forests	10,000 10,000
103. Forests	10,000 10,000
104. Forests	10,000 10,000
105. Forests	10,000 10,000
106. Forests	10,000 10,000
107. Forests	10,000 10,000
108. Forests	10,000 10,000
1	

	Sub-head.					
	£	mils	£	mils	£	mils
1. Personal Emoluments	..	..	..	..	..	..
2. Travelling	..	..	..	..	..	..
3. Maintenance of Plant, Machinery and Vehicles	..	..	..	..	..	..
4. Maintenance and operation of Earth Moving Machinery	..	..	..	..	..	..
5. Maintenance of Forest Communications :—						
(i) Maintenance of Roads and Bridges	19,025.420	..	..	..	..	..
(ii) Telephones	5,985.517	..	..	..	..	..
6. Maintenance of Forest Buildings and Equipment :—						
(i) Maintenance and Equipment of Buildings	..	..	..	..	..	..
(ii) Water Supplies	4,596.174	..	..	..	..	..
(iii) Rent	457.713	..	..	..	..	..
(iv) Lighting, Heating and Electric Power	661.000	..	..	..	..	..
7. Conservancy of Offices	534.324	..	..	..	..	..
8. Forest Protection :—						
(i) Fire Protection	..	..	..	..	..	..
(ii) Delimitation	14,311.942	..	..	..	..	..
9. Fire Fighting	647.015	..	..	..	..	..
10. Forest Utilization	..	..	..	..	..	..

APPENDIX 12—*contd.*

STATEMENT OF EXPENDITURE FROM FOREST DEPARTMENT VOTES DURING 1959 AND 1960—*contd.*

HEAD 9A.—FORESTS—*contd.*

*Sub-head.*

11. Silviculture and Forest Management :—

	1959		1960	
	£	mils	£	mils
(i) Silviculture .. .. .	..	7,181.183	6,351.641	
(ii) Collection and purchase of Seed .. .. .	..	729.944	1,282.042	
(iii) Forest Nurseries .. .. .	..	3,616.263	3,961.593	
(iv) Forest Survey and Working Plans .. .. .	..	2,016.187	1,618.744	
(v) Free Seedlings .. .. .	..	225.000	224.990	
		13,768.577		13,439.010
12. Forestry College .. .. .	..	..	5,948,924	6,055,200
13. Office Expenses .. .. .	..	..	581,955	510,987
14. Forest Uniforms .. .. .	..	..	2,718.895	1,706.003
15. Forest Utilization Centre, Morphou .. .. .	..	..	696.185	750.932

APPENDIX 12—*contd.*

STATEMENT OF EXPENDITURE FROM FOREST DEPARTMENT VOTES DURING 1959 AND 1960—*contd.*

HEAD 9A.—FORESTS.—*contd.*

*Sub-head.*

*Special Expenditure :—*

	1959 £ mls	1960 £ mls
16. Rehabilitation of Paphos Forest .. .. .	.. .. .	.. .. .
17. Local Training .. .. .	3,044.305	9,807.963
18. (i) Koufoplanos locality, Paphos Forest .. .. .	.. .. .	204.656
(ii) Yefiri tou Porou locality, Adalphi Forest .. .. .	.. .. .	2,461.875
(iii) Mavrosykies Burnt Area .. .. .	.. .. .	1,922.416
19. Purchase of Furniture and Fittings for the Forestry College .. .. .	.. .. .	1,999.886
20. Training Abroad .. .. .	93.000	—
21. Repairs to Dormitory Block of Dhiotrios Forestry College .. .. .	590.115	—
22. Purchase of Maps .. .. .	994.307	—
	50.000	—
TOTAL .. .. .	260,481.393	274,109.742

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STATEMENT OF EXPENDITURE FROM COLONIAL DEVELOPMENT AND WELFARE VOTES 1959 AND 1960.

HEAD 9B.—FORESTS.

*Sub-head.*

	1959 £ mls	1960 £ m s
1. Afforestation .. .. .	.. .. .	2,863.952
2. Forest Roads .. .. .	.. .. .	1,738.491
3. Forest Buildings .. .. .	.. .. .	1,216.875
4. Silviculture .. .. .	.. .. .	1,867.901
5. Afforestation .. .. .	.. .. .	409.136
TOTAL .. .. .	—	8,096.355

APPENDIX 12—*contd.*

STATEMENT OF EXPENDITURE FROM FOREST DEPARTMENT VOTES DURING 1959 AND 1960  
UNDER DEVELOPMENT.

HEAD 9D.—FORESTS.— <i>contd.</i>		1959		1960	
<i>Sub-head.</i>		£	mils	£	mils
6. Forest Roads ..	..	—	..	248,356	..
7. Forest Buildings ..	..	2,609,029	..	173,840	..
8. Silviculture ..	..	6,853,438	..	266,843	..
9. Telecommunication ..	..	1,668,369	..	60,537	..
10. Afforestation ..	..	11,718,904	..	4,172,144	..
11. Forest Roads ..	..	10,512,372	..	14,758,349	..
12. Forest Protection ..	..	—	..	4,932,325	..
13. Silviculture ..	..	—	..	397,126	..
14. Forest Roads ..	..	—	..	1,660,191	..
15. Afforestation ..	..	—	..	1,499,932	..
16. Forest Management ..	..	—	..	499,489	..
17. Forest Research ..	..	1,913,051	..	—	..
18. Fire Protection ..	..	2,492,598	..	—	..
TOTAL		37,767,761	..	28,669,132	..



APPENDIX 12—contd.

EXPENDITURE INCURRED BY FOREST DEPARTMENT FROM OTHER VOTES.

Head Number as in Estimates		Sub-Head		1959		1960	
				£ mils		£ mils	
1A	3	Maintenance of Government House	..	..	99.940	..	1960
4A	16	Maintenance and Improvement of Village Roads	..	..	136.018	..	£
4D	47	Secondary roads	..	..	4,971.023	266,216	—
22A	22	Protection of Game and Wild Birds	..	..	294,676	2,705,672	—
22A	35	Hospitality	..	..	113,353	282,968	—
22A	36	Telephone Service	..	..	96,720	140,145	—
22A	38	Compensation and Cost in Action	..	..	17,725	170,000	—
26A	20	Contribution to the Chrome Co. Ltd.	..	..	100,000	—	—
28A	21	Maintenance of Vine Cuttings	..	..	170,933	—	—
43E	5	Security Measures—Watchmen	..	..	1,445,732	—	—
43E	7	Works for Service Departmental..	..	..	207,142	—	—
Deposits Paphos District (D.D.C.)		..	..	..	95,684	—	—
Advances		..	..	..	—	—	—
Boundary Commission		..	..	..	—	604,259	—
Totals		..	..	..	£7,748,946	£4,169,260	—

APPENDIX 12

COMPARATIVE FINANCIAL STATEMENT FOR THE 10 YEARS ENDED 31ST DECEMBER, 1960

Year	Forest Revenue £	Forest Expenditure £	Surplus £	Deficit £	Expenditure under C.D.F. £	Expenditure under Emergency £	Expenditure under Development £	Grand Total of Expenditure £
1951	51,391	106,845	-	55,454	9,324	-	85,266	201,535
1952	102,113	134,374	-	32,261	1,063	-	86,745	222,182
1953	122,564	175,267	-	52,703	-	-	59,532	234,799
1954	128,089	207,039	-	78,950	-	-	24,006	231,045
1955	129,956	230,184	-	100,228	-	-	19,248	249,432
1956	133,904	333,020	-	199,116	-	-	57,068	390,088
1957	136,729	304,339	-	167,610	-	-	54,501	358,840
1958	75,587	289,671	-	214,084	-	5,692	18,893	314,256
1959	94,826	260,481	-	165,655	12,222	2,147	25,546	300,396
1960	97,058	274,109	-	177,051	8,096	-	28,669	310,874
Total	1,072,051	2,315,329	-	1,243,112	30,705	7,839	459,474	2,813,347

APPENDIX 14.

STRENGTH OF FOREST STAFF ON 31ST DECEMBER, 1960.

Senior Staff			Subordinate, Field and Technical Staff													Total			
University Trained	Others	Total	Assistant Forest Officers	Forest Rangers	Foresters/Forest Guards	Assistant Forest Surveyor	Mechanical Superintendent	Mechanical Assistants	Tractor Driver	Lorry Drivers	Prosecution Officers	Store Keeper	Storeman	Cook	Domestic Orderly		Clerical Staff	Messengers	Permanent Labour Force
8	3	11	8	22	205	1	1	4	1	14	3	1	1	1	1	263	15	2	166

APPENDIX 15.

SENIOR STAFF LIST AS AT 31ST DECEMBER, 1960.

Chief Forest Officer

I. Sidki, B.Sc. (Edin.) Headquarters, Nicosia.

Senior Assistant Chief Forest Officer

A. POLYCARPOU, B.Sc. (Aberdeen) Headquarters, Nicosia

Principal Forestry College.

J. D. LEEFE, B.Sc. (Aberdeen) Principal Forestry College,  
Prodhromos.

Assistant Conservator of Forests.

J. CHR. MOUSKOS, DIP. FOR.  
D.S.P.A. (Oxon.) Headquarters, Nicosia.

G.M. SERAPHIM, B.Sc. (Aberdeen) Divisional Forest Officer,  
Stavros

H. HILMI, B.Sc. (Aberdeen) Forestry College (temporarily)

E. D. MICHAELIDES, B.Sc. (Aberdeen) Research Officer, Nicosia

L. LEONTIADES, B.Sc. (Aberdeen) Working Plans Officer.

Forest Engineer.

D. COUPPIS In charge Engineering  
Section, Nicosia.

Forest Officer

J. A. JACOURIS Divisional Forest Officer,  
Halerga.

H. MIDDLETON Divisional Forest Officer,  
Platania.

Secretariat and Accounting Staff:

M. HJ. GEORGHIOU, Principal Clerk, Headquarters, Nicosia.

G. STYLIANOU, Accounting Officer, Headquarters, Nicosia.

APPENDIX 16.

CYPRUS FORESTRY COLLEGE ANNUAL REPORT  
FOR 1960.

(1) COURSES.

The College re-opened for the Second Term of the Ninth Academic Year on the 7th January, with a complement of 38 students, comprising 2 Cypriot Foresters, 29 Cypriot Forest Guards and 7 Overseas Students (Libya 3, Somaliland Protectorate 2, British Honduras 1 and Dominica 1) divided into two courses of 18 Seniors and 20 Juniors.

The Ninth Academic Year (8th full two-year course) was completed at the end of July. All 18 Seniors secured their Final Certificates, 4 of them with Honours. 20 Juniors obtained their Preliminary Certificates. The Pass mark for both Final and Preliminary Certificates was fixed at 50%, while the Honours mark for the Final Certificate was 80% of the total marks allocated in the Final Examinations, as in previous years.

Prize Day was held on the 29th July, when the Certificates and Prizes were presented for the last time, by His Excellency the Governor, Sir Hugh Foot, to a large gathering of members of the Forest Service and friends of the Service.

The Prizes included the Governor's Medal for the best all-round student of the Senior Course, awarded to Kyriakos Georghiou (Cyprus); the Chief Forest Officer's Medal for the best all-round student of the Junior Course, awarded to Charalambos Constantinou (Cyprus), and the Chief Forest Officer's and Davidson Prizes awarded to the second best all-round students of the senior (Ch. Charalambides - Cyprus) and Junior (Christos Lambrou - Cyprus) courses respectively.

21 books were given by Dr. A.H. Unwin O.B.E. for the best and second best performances in the various subjects of the written examinations and 3 books were donated by Mr. J. Jacouris, Divisional Forest Officer, Northern Range, for the best practical students of each course. The three College Instructors, Messrs. T. Michaelides, G. Gavrielides, and E. Anaxagoras, each presented prizes which were awarded to the students who had produced the best project work in their subjects. The Principal donated a prize, which was awarded to Omeros Christodoulou (Cyprus) for outstanding service to the College Meteorological Station. The Public Service Prize, presented by A. Polycarpou, Senior Assistant Chief Forest Officer, was awarded to Evangelos Sofroniou (Cyprus). The Open and Handicap medals of the Salti Mountain Cross - country race, were presented to the winners, Ch. Constantinou and Omeros Christodoulou respectively, both of Cyprus.

The Preliminary and Final Examinations were set by an External Examining Board consisting of the Chief Forest Officer, Senior Assistant Chief Forest Officer, 3 Assistant Conservators of Forests and the Principal of the College. The Examinations consisted of five, three hour papers, which were marked by members of the External Examining Board and the Forest Engineer, Forest Surveyor and Assistant Forest Officer D. Jacovides. A practical test was also held; which was conducted by two Divisional Forest Officers, assisted by two Assistant Forest Officers.

.../After



After Prize Day, all the 15 Cypriot graduates left the College for leave, 9 of them were posted to the Territorial Divisions as Beat Officers, one as a Divisional Clerk and five to the Specialist Divisions (Forest Engineering, Forest Management and Forest Research). The 3 Libyan graduates returned to their country and took up duties in the Forest Services of Cyrenaica (2) and Tripolitania (1).

The Junior Course commenced their Vacation Tour on 2nd August, spending 12 days in Troodos Forest on roadwork, nursery work, tours etc., and 11 days at Salamis carrying out very beneficial silvicultural treatments in neglected plantations.

The Tenth Academic Year commenced on the 3rd October with a reduced complement of 30 students, comprising 25 Cypriot Forest Guards and 5 Overseas students. Of the Overseas students, 2 were from the newly created Somali Republic, 1 from British Honduras, 1 from Dominica and one from Libya.

After the terminal examinations, the College moved to its Winter Quarters at the Dhiorios Forest Education Centre, on December 22nd, dispersing for the Christmas Vacation on the same day.

#### (2) DHIORIOS FOREST EDUCATION CENTRE.

The re-building of the burnt dormitory was completed early in the year and half of the fence surrounding the centre was replaced by the Students.

During the Spring Term, which was spent at Dhiorios, the usual tours and projects were held. The Junior Course stayed one week at Kantara Forest Station and carried out useful forest operations in the surrounding forest. The Senior Course worked in the Eucalyptus plantations at Pendayia, belonging to the Cyprus Mines Corporation, marking trees for thinning.

Two weekend forestry courses, for Boy Scouts of the Junior School, were held in March and April at Dhiorios. Another weekend course was held subsequently, in May, at Prodromos. 20 Scouts altogether attended these courses, of which 13 were awarded the Foresters' Badge.

A short, one-day course was held at Dhiorios, in January, for Forest Trainees. This course was followed by a football match between the Forestry College and the Forest Trainees. In December, a week's course in elementary forestry was held for 32 Forest Trainees.

#### (3) CURRICULUM.

The usual course of studies, as given in the "College Prospectus and Syllabus", was followed.

During the Spring Term, Mr. G. Paschalis, Prosecuting Officer, gave a course of lectures on Forest Law to 15 Cypriot Junior students. All the students were subsequently examined by the President of the Nicosia District Court and issued with Certificates of Competency for taking statements. Forester A.Hj.Yiannis, of the Research Division, gave a short course of lectures on Forest Pathology to the Senior Course. Also during this term a number of individual lectures, on a variety of subjects, were given by Dr.D. Christodoulou and Mr. Chr. Soteriades of the Agriculture Department, Mr. K. Ioannides of the Planning and Housing Department and Mr. J. Mouskos of the Forest Department.

.../During

During the Summer Term, a course of First Aid lectures was given by Dr. Chr. S. Christopoulos, Miss M. Hickie and Miss. I. Checkley, both of the Order of St. John, to the Senior Course. All 18 members, and Messrs. E. Anaxagoras and Loizos Themistocleous of the College Staff, successfully passed the examination and were awarded the Order of St. John Certificate, Mr. L. Themistocleous receiving the Voucher.

After the Junior Course had completed the Vacation tour in August, the four Overseas Students left for Israel, where they spent three weeks (4th - 26th September) visiting the forests. All aspects of forestry were studied and the tour proved to be very beneficial to the students.

Mr. H. Hilmi delivered the Science lectures, to both Courses, throughout the Winter term. Another course of First Aid lectures was given by Miss. I. Checkley, Headquarters Officer of the Order of St. John, to both Courses. The Examination for the Order of St. John certificate, was conducted by Dr. I.N. Anastassiades D.M.O. Limassol, 27 students being successful.

A tabular analysis of all instruction given under the College Syllabus, during the year, is given in Appendix 16 A.

#### (4) OTHER TRAINING AND STAFF EXAMINATIONS.

A practical course was arranged for four students of the Forestry Faculty of the University of Istanbul, during August and September. This course lasted one month and enabled them to work in all three territorial divisions and with the Forest Management Division and to visit the Forest Engineering Division.

Assistant Forest Officer Th. Michaelides, College Instructor, acted as guide to a party of Israeli Foresters, who toured the Cyprus Forests in September.

The Acting Principal, Mr. H. Hilmi, and Assistant Forest Officer G. Gavrielides, College Instructor, gave assistance with the erection of the Forestry Exhibition, at the Platres Festival, held in September.

New "Conditions of Service" were prepared in November for the Forest Trainee Scheme. These conditions allowed Forest Trainees with 6 months' service, to be considered for the post of Forest Guard. During the year, three Forestry College Qualifying Examinations were held in April, May and November. Two were for Forest Guards and Forest Trainees, for confirmation of their appointments, and one for entrance to the Forest Trainee Scheme. 13 Forest Guards and 4 Forest Trainees sat for the Examinations in April and November, of which 10 were successful (7 Forest Guards and 3 Forest Trainees) and qualified for entry to the College. 117 Turkish candidates sat for the examination in May, of which 27 passed, and 12 were eventually appointed. 10 Forest Trainees resigned (6 Turks, 3 Greeks and 1 Maronite) 2 were dismissed (1 Greek, 1 Turk) and 1 (Turk) was appointed Forest Guard. At 31st December, the total strength of the Scheme was trainees (21 Greeks, 13 Turks).

.../(5)

(5) VISITORS.

The College, as usual, had numerous visitors throughout the year. During the Spring Term, Mr. A.A. Khan, a Conservator of Forests from Pakistan, paid a visit accompanied by Mrs. Khan. Other visitors included senior officers of the Forest Service, as well as various officers from other Government Departments.

In the Summer Term, a Welcome visitor was Mr. M.B. Messaudi a graduate of the College in 1954, who is now Assistant Director of Forests in Tripolitania, Libya.

(6) ACTIVITIES.

Research Work, as last year, was continued on a limited scale.

The College Meteorological Station was maintained, monthly returns being sent to both the Government Meteorological Office in Nicosia and the Meteorological Office in London. Daily returns were telephoned to the R.A.F. Meteorological Office, Nicosia, as usual, for forecasting purposes. Rain water was again collected for Dr. N. Gatt, of the Weizmann Institute, Israel, for research purposes.

The annual Foresters' Mountain Cross - Country Race, from Phini village to Xerokolymbos, was again held in May. It was attended by H.E. the Governor and Lady Foot, accompanied by Mr. Julian Amery; the Hon. Minister for Agriculture and Natural Resources Mr. M.F. Plumer and Mrs. Plumer, and other distinguished guests. Divisional teams were again asked to take part and once more the record was broken, this time by Charalambos Constantinou, who covered the course in 33 minutes 2 seconds and received the Open Medal. Omeros Christodoulou managed to retain the Handicap Medal; the Salti Shield being won by Chapman House and the Davidson Cup by the College. A barbecue lunch was held after the Race, some 300 guests being served. After lunch, the prizes were presented by His Excellency the Governor, followed by a varied programme of songs, dances and forestry demonstrations, performed by Staff and Students. Tea was then offered to guests at the Forestry College; a small exhibition of College work having been arranged for the benefit of visitors. A colour film was again taken by Forester George Tsangarides, of the Race, which has provided an amusing and valuable record of this event.

The Students' Association continued its activities, helping to organise games and film shows, and running the College Library. A number of football matches were arranged with village and institutional teams, during the football season, and although victories were few all games proved very enjoyable.

(7) STAFF.

Mr. H. Hilmi Acted as Principal, from 8th August to 16th November, whilst Mr. J.D. Leefe was on leave. He remained at the College until the end of the Winter Term, delivering the Science lectures and assisting with the Administration.

There were no changes in the teaching and domestic staff and Forester L. Themistocleous continued as College Clerk.

(8) BUILDINGS, EQUIPMENT ETC.

Repairs were carried out to one of the Instructors' houses. In September, extensive redecoration and repairs were carried out in the College.

New bedding materials, curtains and 20 camp-beds, for touring purposes, were purchased during the year.

(9) ACKNOWLEDGEMENTS.

During 1960, staff and students alike worked hard, both cheerfully and conscientiously, and I gratefully acknowledge their efforts to maintain and improve the high standards which have been set at the Cyprus Forestry College. Conspicuous service was rendered at the Mavres Sykies forest fire in July, by them and the Cooks also proved their worth as fire-fighters, at a subsequent outbreak of fire near the College, during examination time. Special praise is due to Mr. T. Michaelides, who on two occasions in 1960, due to my absence was called upon to shoulder extra responsibility, which he did successfully. I also wish to thank Mr. H. Hilmi, for his efficient work as Acting Principal whilst I was on leave.

The valuable assistance rendered to the College by the Government Medical Services, members of other Government Departments and by the owners of Sawmills, Timber Stores and Factories, is warmly acknowledged. Similarly, we are most grateful to all those members of the Forest Service, from Chief Forest Officer to Driver, who have helped us in so many ways. We extend our good wishes to those of our supporters who left Cyprus in 1960, including Sir Hugh and Lady Foot and Messrs. D.F. Davidson and A. J. Browning; and also to Dr. A. H. Unwin, who still takes an active interest in the College.

Finally, we look forward to the next Academic Year which will be our tenth, and hope it will be marked by further progress in the field of Forest Education.

(John D. Leefe)  
Principal Forestry College.

CYPRUS FORESTRY COLLEGE  
ANALYSIS OF ALL INSTRUCTION.

(1) Spring & Summer Terms January - July. 1959 - 60 - 61 Courses.

<u>Subjects.</u>	<u>2nd Year Course</u>	<u>1st Year Course</u>
Botany and Forest Botany	17 periods (1½ hrs)	28 periods (1½ hrs)
Ecology	10 "	- "
Engineering (Roads and Buildings)	23 "	21 "
Forest Management	10 "	- "
Geology & Soils	15 "	17 "
Forest Policy	5 "	7 "
Mensuration & Costings	11 "	35 "
Meteorology & Climate	5 "	4 "
Nursery Management	11 "	14 "
Silviculture	31 "	35 "
Surveying (including field work)	23 "	12 "
Timber Identification	9 "	- "
Utilization & Protection	44 "	45 "
Entomology	12 "	15 "
Pathology	12 "	- "
Outside Lectures	9 "	16 "
Private Study & Revision	24 "	24 "
Essays and Tutorials	7 "	5 "
Sports	10 "	10 "
Exams & Return of Papers	40 "	36 "

Theory Total

328 periods=82 Days 324 periods=81 Days.

Ecology Project	( 2 "	( - "
Nursery Project	( 3 "	( - "
Sawmill Project	( 3 "	( - "
Working Plan Project	( 5 "	( - "
Anti-erosion Project	( 1 "	( - "
Preparation of ground for Afforestation	( 4 "	( 9 "
Planting & Beating Up	( 7 "	( 8 "
Weedings & Cleanings	Practical ( 2 "	Practical ( 5 "
Thinning, Felling & Coppicing	work (16 "	work (12 "
Nursery Operations	77 days ( 4 "	78 days ( 7 "
Fencing Round the College	( 2 "	( 9 "
Winter Quarters	( 2 "	( 1 "
Seed Collection & Extraction	( 1 "	( 2 "
Tools and Store Maintenance	( 1 "	( - "
Roadwork	( 1 "	( 2 "
Fire-fighting & Fire Practice	( 2 "	( 2 "
Opening of Fire-traces	( 7 "	( 7 "
Practice for Salti Race	( 13 "	( 14 "
Tours & Demonstrations		

Total Theory &amp; Practice

159 Days

159 Days

(2) Vacation Tour, August Fieldwork.1959 - 60 Courses1st Year Course

Road alignment & construction project Troodos Forest.	6 Days
Preparation of ground for afforestation	1 "
Nursery operations	1 "
Felling coppice	1 "
Tours and Demonstrations (including Salamis, Plains Division)	12 "
Fire-fighting in Limassol Forest	1 "
Tools Maintenance and stores checking	1 "

Tour Total:

23 Days.



(3) Winter Term - October-December. 1960 - 61 - 62 Courses.

<u>Subjects.</u>	<u>2nd Year Course</u>		<u>1st Year Course.</u>	
Botany & Forest Botany	15 periods (1½ hrs)		11 periods (1½ hrs)	
Engineering (Roads & Buildings)	15	"	8	"
Forest Management	1	"	-	"
Mensuration & Costings	11	"	12	"
Nursery Management	10	"	12	"
Silviculture	19	"	11	"
Surveying (including field work)	11	"	13	"
Utilization & Protection	19	"	14	"
Climatology	2	"	1	"
Outside Lecturers (First Aid Lectures)	12	"	12	"
Geology	8	"	6	"
Essays and Tutorials	2	"	-	"
Library Study	3	"	-	"
Sports	4	"	4	"
Examinations, including return of papers	8	"	8	"
Theory Totals		140 periods=35 Days	112 periods=28 Days	

Antierosion Work	2	"	} Practi- cal work 31 days	( 2	"
Preparation of ground for afforestation	14	"		( 16	"
Planting and Beating Up	1	"		( 3	"
Thinning, Felling, Cleaning & Coppice cutting	4	"		( 6	"
Nursery Operation	3	"	} Prac- tical work 38 days	( 5	"
Thinning Project	4	"		( 2	"
Seed Collection & Extraction	1	"		( 1	"
Tools and Store Maintenance	1	"		( 1	"
Tours and Demonstrations	1	"		( 2	"
Total Theory and Practice		66 Days.		66 Days.	

Summary of Total Working Time.

1. Total of Theory and Practice during the Spring and Summer Terms 159 days - days
2. Vacation Tour 23 " - "
3. Total of Theory and Practice during the Winter Term 66 " 66 "

Total Working days in 1960 248 days 66 days