

ANNUAL REPORT

1980



# ICRAF

INTERNATIONAL COUNCIL FOR RESEARCH IN AGROFORESTRY  
CONSEIL INTERNATIONAL POUR LA RECHERCHE EN AGROFORESTERIE  
CONSEJO INTERNACIONAL PARA INVESTIGACION EN AGROSILVICULTURA

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## ICRAF ANNUAL REPORT

1 January - 31 December, 1980

At the meeting of the Board of Trustees In May 1980 the donors indicated their continued support for ICRAF as long as a proper focus was developed for the Council. In addition many indicated their willingness to second senior staff to ICRAF for periods of up to three years.

A rational response to such offers requires the development of a staffing policy and, hence, a strategy on which to base it. Further, the strategy should outline the Council's perceived role. The Interim Director General and staff have addressed these problems and responses are outlined in more detail later in this report (page 5).

### ADMINISTRATIVE CHANGES

The Director General, Dr. K.F.S. King, left the Council at the end of June on the completion of his contract. At the instigation of the Chairman of the Board of Trustees, and the Executing Agency acting on behalf of the Board, Dr. H.A. Steppler accepted the position of Interim Director General. He made a brief visit to the Council's Headquarters in Nairobi during July and returned to take up permanent residence, leaving Canada on the 6th of September. Dr. F. Torres was Officer-in-Charge from 1st July until the arrival of the Interim Director General. A table indicating the staffing position during the year is placed at the back of this Report.

The Board of Trustees and the donors noted the need for more rigorous financial control in the Council. In response to this, the positions of Administrative Officer and the Treasurer were combined. A firm of professional executive consultants in Nairobi was engaged to seek a suitable candidate to fill the position. On the 1st of December, Mr. Karugor Gatamah, formerly Deputy Treasurer of the City Council of Nairobi, was

appointed to this senior administrative position. In combining these two positions, it was recognized that, as the Council grows in size and in activity, it may be desirable in the future to re-examine the situation and, possibly, to engage an administrative assistant.

#### STAFF ACTIVITIES

These fall into three categories: a) visits to existing or potential Donor Agencies/ICRAF Trustees/and possible co-operating Agencies and Organisations for fund raising and programme planning activities; b) professional field visits; and c) attendance at Meetings, Workshops and Seminars. They are noted in this order below.

##### A. Visits to Donor Agencies/ICRAF Trustees/Possible Co-operating Agencies and Organisations

Donor agency contacts began in 1980 with visits by Dr. P.A. Huxley to the United Nations Development Programme and the Rockefeller Foundation, New York; and in the United Kingdom, to the Overseas Development Administration, London. These were part of a trip to the Ministry of Environment and Natural Resources in Venezuela (following on earlier visit by Dr. M.T. Chandler) to initiate discussions and begin planning for a national seminar on agroforestry in Venezuela. Opportunity was also taken on this trip to establish contact with the Institute of Terrestrial Ecology, Edinburgh, the Commonwealth Forestry Institute, Oxford, and the Rural Technology Section of the U.K. Commonwealth Secretariat and the Commonwealth Foundation in London. There was also a brief visit to the Hydrological Research Institute at Wallingford.

During August, Dr. P.K.R. Nair visited India and held discussions at the Central Soil and Water Conservation Research and Training Institute, Dehra Dun, as well as at the headquarters of the Indian Council of Agricultural Research (ICAR), New Delhi. These were following up proposals for conducting

an agroforestry training course in India. A visit was made, also, to Malaysia in order to evaluate a joint project proposal from the University of Science of Malaysia, Penang (through the Commonwealth Forestry Institute, Oxford) for studying nutrient cycling under agroforestry conditions. The opportunity was taken to visit the Agricultural University at Serdang to obtain information about agroforestry teaching and research programmes there.

In September, Dr. H.A. Steppler, the Interim Director General, visited the Netherlands Ministry of Foreign Affairs, as well as Wageningen University; West Germany, where discussions were held at the Headquarters of the German Agency for Technical Cooperation (GTZ) at Eschborn; as well as the Ministry of Foreign Affairs in Berne. The outcome of all three visits was to confirm arrangements by the respective governments, for secondments of senior scientific staff to ICRAF, the initial offers for which had been raised at the previous Board Meeting in May, 1980.

In October Dr. P.A. Huxley paid a short visit to the University of Juba and the Ministry of Agriculture, South Sudan. The opportunity was also taken to establish contacts with the GTZ - funded Kagelu Forest Project at Yei.

Dr. Steppler made a second trip in November in which he contacted the Forestry and Agricultural Departments of the United Nations Food and Agriculture Organisation (FAO) in Rome; the Swedish Agency for Research and Co-operation with Developing Countries (SAREC) in Stockholm; the Commonwealth Forestry Institute and the Commonwealth Forestry Bureau, Oxford, U.K. Then, in North America Dr. Steppler held talks with various members of the Canadian International Development Agency (CIDA) and the International Development Research Centre (IDRC) before going on to a meeting in Washington, U.S.A., with the United States Agency for International Development (USAID), and brief discussions at the International Bank for Reconstruction and Development (IBRD). In New York the Ford Foundation and Rockefeller Foundation were visited.

Finally, In December, Dr. F. Torres utilised a trip to contribute to a course at the Centro Agronomico Tropical de Investigacion y Ensenanza (CATIE) In order to explore possibilities for an inter-institutional agreement between ICRAF and the Interamerican Institute for Agricultural Co-operation (IICA). He also visited the Ministry of Environment and Natural Resources in Venezuela to continue with plans for an agroforestry seminar and, in addition, to commence an exercise on land use diagnosis.

#### B. Professional Field Visits

These were as follows:

- |              |   |
|--------------|---|
| February     | Senegal, Mali, Upper Volta to collect information and     |
| %            | data for a Sudano - Sahelian profile of research and      |
|              | research needs; for the Rockefeller Foundation -          |
|              | Dr. M.T. Chandler.  |
| April 8-12:  | With members of Title XII Tropical Soil Management Group  |
|              | to Arusha, Morogoro and Dar-es-Salaam, Tanzania, planning |
|              | action programmes - Dr. K.F.S. King.                      |
| April 14-26: | Participation in a mission to Senegal organized by the    |
|              | U.S. National Academy of Sciences to review alternative   |
|              | land use systems in the groundnut basin - Dr. F. Torres.  |
| April 21-25: | IBRD Supervisory Mission for the Baringo (Kenya) Pilot    |
|              | Semi-Arid Areas Project - Dr. P.A. Huxley.                |

#### C. External Meetings/Seminars/Workshops

- |             |  |
|-------------|--|
| April 8-12: | International Symposium on Browse in Africa, organised   |
|             | by the International Livestock for Africa (IICA) in      |
|             | Addis Ababa - Dr. F. Torres.                             |
| May 5-8:    | International Conference on "Transfer of Knowledge -     |
|             | Dialogue and Training for a Common Future", West Berlin. |

Organised by German Foundation for International Development (DSE) - Dr. K.F.S. King.

Key-note address at the International Union of Forest Research Organizations (IUFRO/Man and the Biosphere (MAB) Conference on Research on Multiple Use of Forest Resources, Flagstaff, Arizona - Dr. K.F.S. King.

Opening address and seminar on curricular and teaching methods for joint agriculture/forestry courses. Departments of Agriculture and Forest Science, Oxford University - Dr. P.A. Huxley.

Seminars on ICRAF and agroforestry in the Fourth "Planning and Management in Forestry" Course.

Commonwealth Forestry Institute, Oxford - Dr. P.A. Huxley.

Address to the Annual Meeting of Kenya's Forestry Department of the Ministry of Environment and Natural Resources in Nairobi, Kenya - Dr. F. Torres.

International Conference on Higher Education and Development in Africa. Nairobi. Organised by DSE - Dr. P.A. Huxley and Dr. P.K.R. Nair.

Lectures on silvo-pastoral systems in "Short Courses on Agroforestry Techniques for the Humid Tropics". Turrialba, Costa Rica (organized by CATIE/DSE) - Dr. F. Torres.

#### PROGRAMME DEVELOPMENT AND ACTIVITIES

A complete review of the programme activities projected for the balance of 1980 and through 1981 was made in July. Those which are reported are

**the** activities which **were** retained, and for the execution **of which funds** **were** available.

The key issue which the Trustees had identified was the need to develop a focus for ICRAF expressed in terms of a rigorous strategy and an indication of the tactics by which it could be implemented. This was accepted as a main activity and requirement to be undertaken by the Interim Director General.

In addition the need for ICRAF to establish itself as capable of actually undertaking field research in agroforestry was deemed essential, if it were to fulfill a mandate of acting in an advisory capacity to donor agencies and to countries with respect to agroforestry research needs.

The broad strategy which the Interim Director General proposed after considerable discussions with the scientific staff, and which was accepted in outline by the various Trustees with whom it was also discussed, was to concentrate on a *systems approach* to agroforestry. Details of the strategy were not finalised in the period covered by this report, and it is intended to have a document in final form for presentation to the Board of Trustees at its meeting in April of 1981.

The promulgation of field research, initially in Kenya, was planned to take two interdependent lines of activity a) the development of a field station at Machakos, and b) the initiation of field survey work to evaluate land use systems and, in particular, evaluate the role of woody perennials. In both cases the development of research *methodologies* were the key issue.

#### SPECIFIC PROGRAMME ACTIVITIES

These are each briefly mentioned below.

##### Documentation Services

The Documentation Section continued to provide an information acquisition and

dissemination service throughout the year. Some 52 books on various agro-forestry-related subjects were acquired in 1980. The largest number of photocopied articles received during the year were supplied free of charge on request from ICRAF scientists through the KARI Library literature service. An additional 143 paid articles were ordered from the British Library. A number of other documents were also ordered during the course of the year from various institutions and individuals in Canada, the USA, India, the Philippines, Japan, other countries in Africa and Europe, as well as from sources in Kenya.

With regard to information dissemination activities, a total of 67 requests for documents were received in 1980, mainly from India, the USA, Sweden, Zambia, Tanzania, Thailand, Nepal, and countries in South America. Requests for photocopied articles from developing countries were answered free of charge, and a small charge was levied on requests from developed countries.

Indexing of photocopied documents continued in 1980. There are now some 2200 indexed articles on agroforestry in the files. As a result of efforts by Dr. Trevor Chandler at Oxford University Library, the CTFT Library in France, and the Library of the Royal Tropical Institute in the Netherlands, a set of 4000 photocopied card references to articles on agroforestry species and systems was assembled in 1980. Based on this the Librarian, Ms. L. Teemba, compiled a "Preliminary Selected Agroforestry Bibliography" which was distributed to all participants in the first Kenya National Agroforestry Seminar held in November. Numerous subsequent requests for this publication have been answered from around the world. It is planned to up-date this bibliography from time to time in order to incorporate newly acquired references.

Numerous 'In-house' papers have been prepared and facilities were arranged for supplying copies of papers presented by ICRAF staff at various seminars/



workshops etc. (see Publications list on page 13).

Two issues of the ICRAF Newsletter, each of 6 pages were distributed world-wide during 1980, in May and November, respectively. A wide range of topics were covered including information about past and future meetings, agro-forestry field initiatives in different countries, information about selected references and useful publications, and notes on various scientific topics.

A general address list was prepared covering Research Institutions, relevant government departments, libraries and Educational Institutions around the world, as well as a specialised list of individuals interested in agroforestry. Together these total some 2000 addresses.

One member of staff (F. Torres) has been carrying out a literature search in the field of sylvopastoral systems for arid and semi-arid zones and more than 700 references on this subject have been acquired through the Documentation services.

Contact has been established with a commercial publisher with a view to co-producing an international scientific journal on agroforestry.

#### ICRAF's Field Activities

##### Agroforestry demonstration plots (P.K. Nair)

Realising the value of demonstrating the relevance and feasibility of agroforestry at the farmers' level, ICRAF's Board of Trustees decided at its meeting in November 1979 that ICRAF should take initiative in establishing agroforestry demonstration/trial plots around Nairobi. Three such plots were set up during 1980, jointly by ICRAF and the Government of Kenya's Department of Forestry (Ministry of Environment and Natural Resources). All plots were in the departmental plantations of the Forest Department. Agricultural crops were cultivated by the local farmers according to their usual practices in the locality and the trees were managed through the usual

forestry practices. The details of the plots were briefly as follows:

Location	Tree Species	Year planted or clear - felled	
1. Uplands	<i>Cupressus lusitanioa</i>	1978	Cabbage/Maize/Cabbage and Maize
2. Kijabe	<i>Eucalyptus saligna</i>	1972	Maize and beans
3. Machakos	<i>Eucalyptus saligna</i>	1978 (clear felled)	Maize and beans**

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\* with appropriate control plots

\* with and without a coppice control treatment

#### Establishment of Field Research Programms

ICRAF's Charter and the Agreement with the Government of Kenya do not specifically provide for field research activities within Kenya. A primary need was, therefore, to approach the appropriate Kenyan authorities first to get authorization to carry out field research and, second, to request an area of land suitable for a field station.

Both of these approaches were initiated in July and strongly pressed by Dr. Steppler during the last part of 1980. With the Kenya Government's helpful and supportive interest in ICRAF's development there is every likelihood that both new sets of field activities will be successfully activated in 1981.

#### Education and Training Activities (See also Workshops/Seminars)

a) Training: In collaboration with the Department of Forest Management, of the Agricultural University of Wageningen, the Netherlands, two students were involved in a 6-month study of the role of trees in farming systems in a selected area in Machakos, District, Kenya (P.A. Huxley).

- b) Curriculum development: One member of staff (P.A. Huxley) has been actively engaged in outlining a 35-40 hour lecture course on agroforestry and in collecting material for inclusion. It is to be aimed at University level (final year B.Sc./M.Sc.) and suitable for a range of programmes where, at present, a single course on agroforestry would be appropriate. The intention is to construct a course which can be easily modified by the inclusion of local examples. Full teaching aids are to be provided.

#### Workshops/Seminars

- a) Kenya National Seminar on Agroforestry (P.A. Huxley)

This was jointly organized by ICRAF and the University of Nairobi and funded with assistance from the Canadian High Commission to Kenya. It was held at ICIPE, Duduville, from 12-22 November. More than 80 participants took part from a wide variety of disciplines, 33 of these attended full-time as representatives of the Ministries of Agriculture, Livestock Development and Environment and Natural Resources (Forestry), and some Non-Government Organisation invitees were also included. Twelve of the full-time participants came from outside Kenya (S. Sudan, Tanzania, Uganda, Rwanda and the Netherlands) and most of these were funded through Swiss Development Cooperation (SDC).

The **Seminar** programme consisted of 15 technical sessions, 2 field visits, working group meetings and a final evaluation session. This Seminar confirmed that there is a very widespread interest in agroforestry in Kenya and it was most useful in collecting information, allowing the exchange of ideas, and laying down some recommendations for further action. The recommendations included setting up an Agroforestry Co-ordinating Committee and some general recommendations about ways to promote agroforestry in Kenya. Specific recommendations dealt with the

need to extend and co-ordinate trials with multi-purpose trees, and with agroforestry systems; to evaluate the soil and water conservation benefits of agroforestry land use in Kenya; to study the socio-economic aspects and to promote education and training in agroforestry within Kenya.

Some specific agroforestry projects were outlined (for example: field surveys, the collection and distribution of seed of multipurpose trees, the expansion of tree nurseries and a project to coordinate information dissemination about agroforestry in Kenya).

A 25 page report of the Seminar including full account of the recommendations, a list of participants and their contributions etc. was circulated soon after the meeting and full proceedings (approx. 630 pages) will be made available during 1981.

b) Consultation Meeting on Reforestation in the Turkana Region (P.K. Nair)

A consultation meeting was held in Nairobi on 5 December, 1980 in order to evaluate the project proposals and suggest guidelines for the efficient implementation of the NORAD (Norwegian Agency for Development)-supported reforestation project in the dry Turkana region of Northern Kenya. The meeting was organised by the Kenya Forestry Department and NORAD in collaboration with ICRAF and it was attended by about 30 invited participants.

**Recommendations** included the setting up of a project monitoring committee, **effective** ways of co-ordination with other sectoral programmes in the area, and additional inputs to impart training and Kenya counterpart personnel. For tackling the socio-cultural constraints, the meeting suggested a closer understanding of the behaviour of the local people to such innovations, establishment of efficient communication channels, and village level efforts to actively involve the local people in planting selected multipurpose trees on a large scale.

The need for a data base on environmental and socio-economic parameters was identified, including establishing at least one bioclimatological station and facilities for monitoring soil moisture and water table fluctuations. Efficient methods of water harvesting feasibility or irrigation with brackish water, appropriate methods of site preparation with a view to overcoming pedological constraints, etc. were identified as the research needs to support the project.

ICRAF has offered support follow-up activities should appropriate funding be offered.

Forward planning has been carried out for two further meetings:-

c) Consultative Meeting on Plant Research and Agroforestry

This meeting, which had to be postponed from December, 1979 until a later date was again deferred in 1980. Plans have been up-dated, further information on agroforestry distributed to intending participants and the number of these increased. It is now planned to hold this meeting in April 1981.

d) International Workshop on Professional Education for Agroforestry

Detailed planning has been accomplished for a 5-day workshop in cooperation with a donor agency (DSE). This will undertake a timely review of the needs for such professional education, the forms and kinds of courses and programmes at present in existence (or by actively planned), and review the source materials that can be used in teaching. As yet, no firm date can be given for this workshop.

PAPERS AND PRESENTATIONS

- Chandler, T. 1980. Documentation of agroforestry literature and research, pp. 177-190 in Chandler, T. and Spurgeon, D (Eds), "International Cooperation in Agroforestry", ICRAF, Nairobi.
- Contant, R.B. 1980. Training and education in agroforestry, pp. 191-218 in Chandler, T. and Spurgeon, D. (Eds), "International Cooperation in Agroforestry", ICRAF, Nairobi.
- Huxley, P.A. 1980 Agroforestry at degree level: New Programme Structure, pp. 219-229 in Chandler, T. and Spurgeon, D. (Eds), "International Cooperation in Agroforestry", ICRAF, Nairobi.
- Huxley, P.A. 1980. Agroforestry Research: The value of existing data appraisal, pp. 275-315 in Chandler, T. and Spurgeon, D. (Eds), "International Cooperation in Agroforestry", ICRAF, Nairobi.
- Huxley, P.A. 1980. The need for agroforestry and special considerations regarding field research, pp. 117-142 in "Nuclear Techniques in the Development of Management Practices for Multiple Cropping Systems", Proc. Advisory Group Meeting, Ankara, 8-12 October, 1979. IAEA Tech. Doc. 235. IAEA, Vienna (also supplementary appendices from ICRAF).
- Huxley, P.A. 1980 Nitrogen nutrition of cowpea (*Vigna unguiculata*) IV. uptake and distribution of a single dose of early applied nitrogen. Trop. Agric. (Trinidad), 57, 193-202.
- ICRAF 1980. First Report 1978/79, pp. 32. ICRAF (002e), Nairobi (prepared by D. Spurgeon).
- King, K.F.S. 1980. Agroforestry and the development of tropical forestry, pp. 32. UNEP, Meeting of Experts on Tropical Forests. ICRAF, Nairobi.
- King, K.F.S. 1980. Forestry's contribution to social and economic development, Common. For. Rev. 59, 515-525.
- King, K.F.S. 1980. Concepts of agroforestry, pp. 1-12 in Chandler, T. and Spurgeon, D. (Eds), "International Cooperation in Agroforestry", ICRAF, Nairobi.
- Mongi, H.O. 1980. Agroforestry Extension: Needs and Strategy, pp. 219-228, in Chandler, T. and Spurgeon, D. (Eds), "International Cooperation in Agroforestry", ICRAF, Nairobi.
- Nair, P.K.R. 1980. Agroforestry Research: A retrospective and prospective appraisal, pp. 275-296 in Chandler, T. and Spurgeon, D. (Eds), "International Cooperation in Agroforestry", ICRAF, Nairobi.
- Nair, P.K.R. (with P.T. Varghese) 1980. Recent advances in the management of coconut - based ecosystems in India. In J.I. Furtado (Ed). Tropical Ecology and Development, pp. 569-580. Intern. Soc. Trop. Ecology, Kuala Lumpur.

- Nair, P.K.R. (with P.K. Khanna) 1980. Evaluation of fertilizer practices for coconuts under pure and mixed cropping systems in the west coast of India based on a systems analysis approach. In Joseph, K.T. (Ed). Proc. Conf. Classification and Management of Tropical Soils, pp. 457-466. Malaysian Soc. Soil Sci., Kuala Lumpur.
- Spurgeon, D. 1980. Agroforestry: a promising system of improved land management for Latin America, *Interciencia* 1980, 5(3): 176-178.
- Spurgeon, D. 1980. Agroforestry, *Bulletins of the Atomic Scientists*, 36(1): 58-61.
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- Spurgeon, D. 1980. Fielding Higher Yields, *Next*, December.
- Spurgeon, D. 1980. Agroforestry - A new weapon against Forest Vandalism, *Depthnews Science Services*, DNSS No. 284-80, June 8, 1980.
- Spurgeon, D. 1980. The activities of the International Council for Research in Agroforestry. In Chandler, T. and D. Spurgeon (Eds) "International Cooperation in Agroforestry", pp. 353-360. DSE/ICRAF,
- Torres, F. 1980. Research Objectives: A Conceptual Approach, pp.257-274 in Chandler, T. and Spurgeon, D. (Eds). "International Cooperation in Agroforestry", ICRAF, Nairobi.
- Torres, F. 1980. El papel de la ganaderia en los sistemas agroforestales. Notas para una conferencia. Centro Agronomico Tropical de Investigacion y Ensenanza (CATIE), Turrialba, Costa Rica, 19 pp. (in Spanish). Paper prepared for the course on agroforestry techniques for the humid tropics. CATIE/DSE, December 8-16.

#### Unpublished presentations

- Huxley, P.A. Classification of plant aspects of agroforestry systems (9 pp 4 figures mimeod)- appendix to "The need for agroforestry and special considerations regarding field research".
- Huxley, P.A. Research for the development of agroforestry land use systems - Agricultural Research Conference in the Southern Region of the Sudan. Juba 2-6 June, 1980, pp. 17 plus 2 Apendices.
- Huxley, P.A. (with F. Owino and D. Ngugi). Report of the Kenya National Seminar on Agroforestry, 12-22 November, 1980, Nairobi, Kenya. 25 pages.
- Torres, F. Research in Silvopastoral Systems. I. Alternative Strategies II. Framework for Developing a Programme. Presented at the International Symposium on Browse in Africa - ILCA, Addis Ababa, April, 8-12, 1980.

Torres, F. Agroforestry as an Alternative Approach to Land use Systems. Presented at the Annual Meeting of Kenya's Forestry Department, held in Nairobi, 15-20 September, 1980.

Books (also see page 16)

Chandler, T. and D. Spurgeon. (Eds) International Cooperation in Agroforestry. Proceedings of an ICRAF/DSE International Conference Nairobi 16-21 July, 1979. pp. 469. Pub. ICRAF, Nairobi.

Nair, P.K.R. Agroforestry Species: A Crop Sheet Manual, pp. 335. Pub. ICRAF, Nairobi.



International Co-operation in Agroforestry (Eds: Chandler, T. and D. Spurgeon)

The Proceedings of the first International Conference on International Co-operation in Agroforestry held on 16-21 July 1979 in Nairobi were brought out jointly by the Conference sponsors: ICRAF and DSE (German Foundation for International Development). All the formal presentations from the participating delegates have been included. Out of a total of 26 such papers, many describe agroforestry practices and problems in a range of different ecosystems around the developing countries; a few discuss agroforestry research, training and education. French and Spanish summaries of all papers and recommendations of the Conference are also included.

Agroforestry Species - A Crop Sheets Manual (by P.K.R. Nair)

ICRAF realized that information on plant materials which could be used in agroforestry systems was scattered in many papers and publications, some of which were scarce or out of print. Therefore it was felt necessary to collate such information and prepare short and concise accounts on some species from the point of view of their suitability for agroforestry. As a first step, such "Crop Sheets" were prepared on a selected list of 40 species belonging to the major groups of economic crops, and some other lesser-known species with agroforestry potential. Essential information is given on each species under a uniform format consisting of the common names in English, French and Spanish, scientific name, uses and economic importance, origin and distribution, plant characteristics, physiology and composition, agronomy, yield, pests and diseases, supposed agroforestry potential, and a list of major research institutions and references.

The manual is expected to be used as a ready-reckoner by the field worker and in agroforestry education.

# SCIENTIFIC AND SUPPORT STAFF 1980

NAME	POSITION HELD	DATE OF RECRUITMENT	DATE OF COMPLETION
3) Senior Staff			
Dr. K.F.S. King	Director-General	Mid 1978	June 1980
Dr. H.A. Steppler	Interim Director-General	Sept. 1980	
Dr. T.M. Chandler	Technical Development Officer	July 1978	March 1980
Dr. H.O. Mongi	Senior Research Scientist	Sept. 1978	March 1980
Dr. D. Spurgeon	Science Writer	April 1979	Sept. 1980
Mrs . M Ghebreyesys	Administration Officer	Dec. 1977	June 1980
Dr. R.B. Contant	Senior Research Scientist	July 1979	March 1980
Mr. K. Gatamah	Secretary/Treasurer	December 1980	
Dr. P.A. Huxley	Senior Research Scientist	March 1979	
Dr. P.K.R. Nair	Senior Research Scientist	November 1978	
Dr. F. Torres	Senior Research Scientist	May 1979	
b) Support Staff			
Mr. P. Kouko	Accountant	October 1979	
Ms. L. Teemba	Librarian Documentalist	February 1979	
Ms. J. Aoko	Administrator	February 1979	August 1980
Mrs . F. Mboya	Executive Secretary	November 1978	
Ms. C. Kanyeki	Secretary	April 1980	
Ms. W. Kuria	Secretary	October 1979	
Ms. A. Nderitu	Secretary	April 1979	
Ms. J. Ngeene	Receptionist/Telex Operator	March 1980	
Mr. P. Waweru	Driver	January 1979	
Mr. D. Mwendwa	Messenger	February 1979	

Dr. J.B. Raintree, a Research Fellow sponsored at IITA by the Rockefeller Foundation, visited ICRAF for some 5 weeks in all during the last quarter of the year. He assisted with programme planning and plans were made to arrange for the second year of his Fellowship to be spent working with ICRAF.

INTERNATIONAL COUNCIL FOR RESEARCH IN AGROFORESTRY  
COMPOSITION OF THE BOARD OF TRUSTEES (1980)

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NAME	COUNTRY	POSITION	FROM	TO
Dr. M.S. Swaminathan	India	Chairman	Sept. '77	
Mr. J.H. Hulse	Canada	Vice-Chairman	May 1979	
Dr. K.F.S. King	ICRAF	Director-General	Mid 1978	June 1980
Dr. H.A. Steppler	ICRAF	Director-General/Interim	Sept. '80	
Mr. J.G. Bene	Canada	Member	June '77	
Dr. R.F. Chandler Jr.	U.S.A	Member	1978	
Dr. J.C. Madamba	Philippines	Member	June '77	
Dr. H.J. von Maydell	Germany	Member	June '77	.
Mr. O. M. Mburu	Kenya	Member	June '77	
Ir. Jan G. Ohler	The Netherlands	Member	Aug. 1977	
Dr. W. Bosshard	Switzerland	Member	Oct. 1979	

Mr. J.G. Bene and Dr. J.C. Madamba visited ICRAF in Nairobi during the week beginning March 24 in order to hold discussions with the Director and staff.

Dr. R.F. Chandler Jr. visited ICRAF for a week in July and joined with Dr. H.A. Steppler and the staff in reviewing the programme.

INTERNATIONAL COUNCIL FOR RESEARCH IN AGROFORESTRY

SIXTH MEETING OF THE

BOARD OF TRUSTEES

(1980)

PRESENT: Dr. M.S. Swaminathan - Chairman  
Dr. J.H. Hulse - Vice Chairman  
Dr. K.F.S. King - Director General  
Mr. J. Bene  
Dr. W. Bosshard  
Dr. J.C. Madamba  
Professor H.J. von Maydell  
Mr. O.M. Mburu  
Dr. J.G. Ohler  
Dr. R. Chandler

BY INVITATION: j.c. Pfeifer, Secretary and General Counsel, I.D.R.C.  
R.J. Audet, Treasurer, I.D.R.C.  
I.S. Bhoi, Associate General Counsel, I.D.R.C.  
R. Sallery - Canadian International Development Agency  
K. Soels - Government of the Netherlands  
J. Laurent - Government of Switzerland

IN ATTENDANCE: Staff Members of the Swiss Federal Institute of Forestry  
E. Baes  
L. Schmid  
M. Sieber  
A. Speich

Held at the Swiss Federal Institute of Forestry Research  
Birmensdorf, Switzerland May 29 - 30, 1980.

FINANCIAL STATEMENTS

BALANCE SHEET AS AT 31 ST DECEMBER 1980

	1980	1979
	US \$	
Bank Balances	373,200	266,000
Prepaid Expenses	18,000	16,000
Total	391,200	282,000
<u>Liabilities and Surplus</u>		
<u>Liabilities</u>		
Accruals and other payables	135,800	73,800
Surplus	255,400	208,200
	391,200	282,000

**FUNDING, EXPENSES AND SURPLUS**

	1980	1979
		US \$
Funds available during the year	972,100	1,200,000
Expenditure during the year	716,700	991,800
Surplus	255,400	208,200

FUNDING FOR THE YEAR 1980 IN US DLRS

	1980	US \$	1979
Balance brought forward from the previous year	208,200		462,200
Revenues:			
Interest earned	11,200		17,500
Government of Switzerland	US \$		
Core Grant	128,300	.	
Hiring of specialist	24,400		
Kenya National Seminar	8,400		.
Plant Aspects Seminar	71,500		
	232 600		152,100
Government of the Netherlands	125,000		125,000
Canadian International Development Agency		.	
Core Grant	87,500		
Kenya Seminar	20,000		
	107,500		172,400
International Development Research Centre	262,600		260,000
German Foundation for International Development (DSE)	5,400		5,800
German Ministry of International Cooperation (GTZ)	3,590		5,000
World Bank	2,300		-
United Nations Environment Program	7,500		-
Rockefeller Foundation	6,210		-
Total Revenues	763,900		737,800
Funds available During the year	972,100		1,200,000

EXPENSES FOR THE YEAR 1980

	1980		1979
		US \$	
Administration Services	241,080		436,245
Scientific Programme Activities	435,822		376,055
Information Services	21,938		14,500
Equipment Furniture and Fittings			103,500
Consultancies	17,860		61,500
Total	<hr/> 716,700		<hr/> 991 ,800