ORGANISATION OF AFRICAN UNITY ORGANISATION DE L'UNITE AFRICAINE



SCIENTIFIC, TECHNICAL AND RESEARCH COMMISSION COMMISSION SCIENTIFIQUE, TECHNIQUE ET DE LA RECHERCHE

Semi-Arid Food Grain Research And Development Recherche et Développement des Cultures Vivrières dans les Zones Semi-Arides





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ANALYSIS OF THE PERFORMANCE OF RESEARCH

INSTITUTIONS

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 Fax 31 15 86 - Télex : 5381 BF ANALYSIS OF THE PERFORMANCE OF RESEARCH INSTITUTIONS

INTRODUCTION.

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The Semi-Arid Zones of Africa form major production areas for food and livestock products of the continent. However, the production potentials of this huge area are far from being realized; even worse, the resource base is subject to serious and continuous degradation as a result of recurrent droughts and While the former has directly rapidly growing populations. accelerated the desertification processes in the lowest rainfall zones, the latter leads indirectly to the same process under higher rainfall through overcultivation of a fragile resource While local farming technologies are often extremely base: sophisticated and contain valuable components for farming under high risk environments, these technologies also require important modifications to cope with the problem of sustained production under an increasingly permanent farming system (as compared to the earlier fallow systems).

For most African countries, these problems are compounded by poor infrastructures and marketing systems as well as weak (in terms of trained manpower, facilities and funding) National Agricultural Research Programmes and Extension Services, which receive relatively little support from national Governments.

The increased international awareness of Africa's food problems has caused a drastic expansion of foreign aid over the last two decades. A multitude of funding and implementing agencies operating at national and/or regional levels, through bilateral and multilateral agreements, have subsequently become active. While these developments certainly have had positive effects, they have also contributed to increased fragmentation of national research efforts and to a large degree of overlap and duplication.

It was against this complicated background that SAFGRAD was created in 1977 as an OAU/STRC Project mainly with USAID support to reinforce and coordinate agricultural research and development for major staple food crops (maize, sorghum, millet, cowpea and groundnuts) on a regional basis; the ultimate goal was to increase the quantity and quality of these food crops available to the increasing populations of semi-arid sub-saharan Africa.

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SAFGRAD Phase I, targetted on regional research, was designed to develop technology in order to improve the production and productivity of food grains in semi-arid regions of sub-Saharan Africa.

The final evaluation (July 1991) of SAFGRAD Phase II, which has identified a number of positive indicators of project achievements, however, came short of quantifiable data to substantiate that the regional research networks could have comparative advantage, as an effective mechanism for building research capacity tunned to different stages of national research development and for promoting agricultural production and productivity.

Objectives and Purpose of the Study.

Based on the findings of the SAFGRAD II Project final evaluation, the purpose of the study has been to assess the efficiency and performance of the networks in the development and adaptation of agricultural technology through the national agricultural research systems; to quantify the changes of technical research capabilities of NARS as a result of networking activities; and to determine the contribution and impact of agricultural research on improving production, productivity and income resulting from the use of technology developed and adapted by the NARS.

Strategy and Methodology of the Impact Assessment

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The study involved the cooperative efforts of national scientists and institutions; the network entities, particularly the Steering Committee of the respective networks and the Oversight Committee; and the International Agricultural Research Centres' particularly IITA (through the Maize and Cowpea Network Coordinators) and ICRISAT (through the Coordinator of Sorghum network in West and Central Africa and Sorghum and Millet Network in Eastern Africa).

First, the format for the collection of technical data levels 1 to 3 was developed in full consultation with more than 40 NARS scientists, and the network coordinators. The initial effort of the SAFGRAD Coordination Office in sensitizing the networks' entities and national institutions has facilitated cooperation in different countries.

With the arrival of the economist (third member of the assessment team) in July, an action plan for the collection and analysis of data was developed. This plan consisted of work programmes elaborating main activities, outputs, responsible entities, and target dates for completing activities of the assessment study.

Initially, the Steering Committee of each network identified four countries for an in-depth study. Realizing the shortage of funds and time available for the study, the Assessment Team used four basic sets of criteria with which it rated and ranked the 16 countries. This exercise led to selection of eight countries for the in-depth study as indicated in Annex

The travel plan and programme of specific activities specifing the countries to be visited and network programmes to follow were also developed. In consultation with network coordinators, the formats for the collection of technical data were dispatched in advance to the eight countries. Economic

tables for formats intended to measure the impact of research results were administered in two ways:

i) The IARC economists, for example those of ICRISAT Sahelian Centre in Niger and the West African Sorghum Improvement Programme based in Mali, assisted in the gathering the data for Niger and Mali respectively.

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ii) In the countries where IARCs economists were not available national economists were contracted, (for example, Nigeria, Ghana, Kenya and Ethiopia) to assist in gathering the economic data.

Data for the impact assessment was taken, for the period 1982–1992, while focussing on SAFGRAD Phase II 1987–92.

Assessment of Impact was carried out at four levels of research and development activities. The framework for impact analysis briefly discussed below was used in certain NARS (Kenya, Malawi, Cameroon, etc.). It is based on series of relationships between inputs, outputs, and impacts at four levels of institutional development of national agricultural systems. The team has exhaustively dialogued with respective network entities in identifying appropriate indicators particularly between levels I, II and III.

Nature and Working of the Institutional Framework.

The 1987 Conference of National Agricultural Research Directors Conference adopted networking as the primary mechanism for regional cooperation.

This led to the establishment of network entities for research management and directions as described in Table 1.

1.0. Regional Research Coordination and Management.

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i) Policy Guidance.

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The Council of National Agricultural Research Directors is the policy making body of SAFGRAD. It established the network operational policy framework and also approved the collaborative mode (networking) as the main strategy for regional research cooperation. It also created the Oversight Committee that meets at least once a year to review and monitor the implementation of policies and to appraise the performance of the networks.

ii) Monitoring the Implementation of Network Programmes.

<u>The Oversight Committee</u>, established in February, 1987, is directly responsible to the National Agricultural Research Directors Council. It monitored the implementation of project activities; appraised network performance, and deliberated on policy and administrative issues related to network development. Some of the management issues addressed by this committee is summarized in Annex 2.

iii) Technical Management and Direction of Networks.

The Steering Committee of the respective networks were elected during the General Workshop Assembly by national scientists. Technical leadership of the networks was provided through the <u>Steering Committees</u> (SCs) each comprising 5 to 8 eminent NARS scientists. The SCO, IARCs, CIRAD, INSAH and other relevant organizations served as observers in Steering Committees of networks. Close to 45 scientists from over 15 countries have served at various times in the four Steering Committee.

The main activities and deliberations of the respective network is summarized 3, 4, 5 and 6.

Netw	ork Partn	013		Network Entities		<u>Responsi bilities</u>
I. '	NARS					
	i)	18 countries in West and Central África	1)	The Directors of Agricultural Research of National Programmes		cy guidance, addressing research and development ues.
	ī i)	8 countries in Eastern Africa	(i)	The Oversight Committee.		itoring the implementation of SAFGRAD project activities agement of SCO and appraisal of networks.
			i (i)	Network Steering Committees	- Tec	chnical Management of Networks.
11.	IARCS				T	
	1)	IITA Technical backstop	i)	Maize Network Coordinator	- 190	hnical execution of network programmes.
			H)	Cowpea Network Coordinator	- Tec	hnical execution of network programmes.
	2)	ICRISAT Technical backstop	1)	Sorghum Network Coordinator in West and Central Africa,	- Tec	hnical execution of network programmes.
			11)	Eastern Africa Sorghum and Millet Network Coordinator	- Tecl	hnical execution of network programmes.
	3)	ICRA F	-	Semi-Arid Lowlands Agroforestry network in West Africa.	- Tec	hnical execution of network programmes.
	4)	The West African Farming Systems Research Network	-	Administered by SCO Based at NARS.	— Tec	chnical execution of network programmes.
ШΓ.	OAU/					Coordinate research activities among NARS and with
		cientific,Technical and Researc ission of OAU-Political and	h —	The SAFGRAD Coordination Office	i}	relevant government bodies.
		nistrative support.			ii)	Provides legal and logistic framework for network operation .
					iii)	Serves as secretariat to network entities.
				· · ·	iv)	Facilitate the review of policy issues through regula channels of OAU .
					v)	Promote the adaptation and transfer of Network

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. Initial deliberations of SCs included review of constraints to, and research priorities of food grain production in the semiarid tropical Africa.

2.0. The Research Process.

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i) Identification of Constraints and Research Priorities.

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Review of the network reports showed systematic identification of constraints and research priorities had been undertaken by national researchers themselves during the general technical workshops. Basically, the identifications of research priorities at national levels were based on the qualitative (in many NARS) and quantitative (in few NARS) data collected from on-farm socioeconomic surveys, annual research review's etc. Farmers' participation in research and development planning process was apparently minimal. At regional level, the assumption has been that national research priorities (as identified by national researchers) in aggregate cover mutual problems of research and development for respective regions.

> ii) Network Strategy for Regional Research Collaborations.

The inventory and assessment of research resources (including research manpower) by each network led to categorisation of national research systems into Lead Centres, Associate Centres and Technology Adapting NARS based on their relative staff strengths, research facilities, and infrastructure as well environmental conditions.

The establishment of research priorities and the inventory of research programmes led to the establishment of network strategy that took into account the specific requirements of both potential technology generating and adapting NARS. This strategy involved the enhancement of scientific leadership among NARS.

Thus, the relatively strong national programmes served as Lead NARS Centres in their specific area of research comparative advantage.

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Essentially, research at Lead Centres focussed on priority constraints in specific ecological zones. The major changes (since 1987) has been that the network scheme enabled partners such as NARS and IARCs to streamline the various (germplasm) nurseries and regional variety trials in such a way as not to overburden NARS, particularly the weak national programmes. On the other hand, the strategy enabled technology adapting countries to concentrate their efforts on adaptive research (such as regional trials, and on-farm verification tests) to quickly appraise the performance of potential technologies.

Collaborative research project activities at Lead Centres opened new challenges and opportunities to enable NARS to generate technologies not only to solve their own agricultural production problems, but also to provide widely shared the knowhow to other participating countries. The research output from some of Lead NARS was assessment during the study and would be discussed following this presentation.

An important activity of networks has been the regional trials for direct exchange and evaluation of elite germplasm. This activity has facilitated the release of varieties to farmers by NARS in their respective countries. A presentation offer this one, has quantified the extent of germplasm diffusion in different countries.

3.0. The Network Partners.

i) The NARS are the major focus of network activities. As beneficiaries of the project' they are involved at various levels of network activities.

ii) <u>International Agricultural Centres</u>: These provided technical backstopping for the improvement of maize and cowpea (IITA) and of sorghum and millet improvement (ICRISAT) by conducting fundamental and applied research and by providing training to achieve network objectives.

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iii) <u>The Networks Secretariat</u>: As an entity of the Organization of African Unity (OAU), the SAFGRAD Coordination Office (SCO) served as a secretariat for the various Steering Committees, the Oversight Committee, and the Council of Agricultural Research Directors. The SCO served as the vehicle for the attainment of network objectives by facilitating mobility of germplasm and related technologies; acting as liaison between steering committees, international and regional organizations and NARS; and soliciting funds to support the strengthening of national agricultural research programmes.

4.0. Adequacy and Quality of Human Resources.

Available research manpower data have been very sketchy and, in aggregate, cover several disciplines. During this assessment study attempts were made to collect data on the crop commodity networks covering the period 1982-1992. Thus far, reasonable data have been obtained on sorghum from Mali; and on maize from Burkina Faso and Ghana, while partial research manpower data on cowpea improvement was obtained from Burkina Faso, Mali, Niger, Ghana and Nigeria. It was evident from this survey, that not more than one researcher was available in each discipline (agronomy, breeding, entomology, pathology, etc.) or each crop in each of the countries selected for study.

The available research manpower for the four crop commodity networks as of 1990 is summarized in Fig. 1. Equally important,

the data showed that a considerable number of researchers (such as agronomists, pathologists, entomologist, etc.) share their time between two to three crops.

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Through training, workshops, monitoring tours and diffusion of technical information (through regular publication) major changes were effected in the quality of research manpower.

As of 1986, SAFGRAD I provided long-term training to 31 participants from 10 SAFGRAD countries; of which 22 were M.Sc. level and 9 at Ph.D. levels. These scientists are now research leaders in the improvement of sorghum, maize, cowpea and millets in various countries (e.g. Burkina Faso, Cameroon, Guinea Conakry, Mali, Togo, Ghana and Senegal).

In collaboration with IITA and ICRISAT, short-term trainings (lasting from a few weeks to six months) were offered during SAFGRAD I and II to over 450 participants from West Central and Eastern Africa. Although some feedback information indicated that such trainings have made improvements in the conduct and analysis of trials, the impact of training was indirectly assessed from changes in research output. Our evaluation will be presented in a subsequent report at this meeting.

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LEVEL J - IMPACT ASSESSMENT SAMPLE - COUNTRY - ETHTOPTA

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AGRICULTURAL RESEARCH IMPACT ASSESSMENT

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Level I. ASSESSMENT OF INSTITUTIONAL BASE

COUNTRY - ETHIOPIA

A.1. NARS Institutional Capacity.

1.1. Research Organization.

The Institute of Agricultural Research (IAR) was established as semi-autonomous public organization in 1967. It operates under the general supervision of a Ministerial Board of Directors that include the Ministers of Agriculture (Chairman), State Farms Development, Coffee and Tea Development; Commissioners forScience and Technology, Higher Education and Relief and Rehabilitation; Head of the Economic Sector in the Office of the National Committee for Central Planning (with the rank of Commissioner); and the General Manager of IAR (Secretary). TAR enjoys reasonable autonomy in its operation. Its organizational structure has been revised on several occassions to reflect the agricultural policy and development needs of the country.

1.2. Linkages

IAR has well established linkages with other research organizations such as of the Universities, the Department of Extension of the Ministry of Agriculture and non-government agencies. Since the 1970s, the IAR/Extension Liaison Unit has been operational. Thus, the Extension Department of the Ministry of Agriculture and IAR jointly conduct on-farm Verification Trials in different ecological zones of Ethiopia. Furthermore, IAR has established reasonably good linkages with international research institutions including ILCA, CIMMYT, CIAT, CIP, IITA, ICARDA, ISNAR etc. Cooperation with these institutions generally involves manpower training, germplasm exchange, consultancy service, collaborative research in selected project areas, etc. A.2. Policy and Plan Formulation Processes.

2.1. Research Planning Process.

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The research planning exercise of IAR starts from commodity teams that review past activities of performances in order to IAR also facilitates the formulate future programmes. participation of development organizations such as Extension Department of Ministry of Agriculture, universities, and development ministries. Farming Systems Research Unit and the Research Extension Coordination Teams also fully participate in the development of the commodity programmes. Research divisions (i.e. crops, animal' etc.) further screen and consolidate the The programmes of all commodity team research proposals. divisions are scrutinized at joint meeting of the heads of research divisions. Professionals and development experts from other organizations are also invited as external reviewers. Finally, the IAR Board of Directors has the final say on approval of any plans.

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2.2. Adequacy of System for Setting Research Priorities.

In general, the existing process seems to be adequate for setting research priorities and for resource allocation. The existing system can however be improved by making provision for the participation of farmers and private organizations in order to make research demand-driven and to impart impact on production, productivity and income.

2.3. NARS Involvement in Policy Formulations.

There seem to be adequate linkage between the Ministry of Economic Planning and IAR. Researchers and directors of experiment stations of IAR participate at different levels of planning as resource person to elucidate issues of agricultural research and development policy. With regard to facilities for collecting and analysis of data, IAR is just building that capacity. The collection of baseline and time series data on production, changes of crop patterns and inputs use, farm income, are effectively carried out by other agencies such as the Central Statistics Authority.

Through the World Bank assistance, IAR is building its capacity for data analysis, reporting, and utilization.

A.3. Financial and Human Resources

3.1. Funding Level

IAR receives most of its funds from the Government. The institute's budgets primarily from government sources' has more than doubled during the last decade. IAR budget for 1990/91 has been about 12 million dollars. About 95% of the approved budget is provided, salaries and wages constituting about 30%; budget support from financial support from external sources up to 1990 Research budget as a percentage of AG.GDP has been very low. is 0.21%, while total expenditure per researcher is about IAR has reasonable accounting and financial \$(US)35,000. disbursement system (although centralized). The regional research enters operate within approved budget. IAR, however, needs to develop its financial management capacity to improve its efficiency for backstopping its several research programmes at various zonal and regional centres.

3.2. The NARS has Adequate Control on Donor Fund on Agreed Programme Scheduled of Implementation.

Human Resources

The IAR has about 340 research scientists and 800 technicians; Thus, the scientists: technician ratio is approximately 1:2. It has general support staff of about 2900 persons.

This NARS is not adequately staffed for its size, particularly with regard to number of qualified scientists.

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Information of researchers among various commodities, although not yet readily available, indicates that approximately 80% of the research staff are in crop commodities.

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A.4 Monitoring and Evaluation.

4.1. Monitoring and evaluation process is in place through annual research reviews and occasional external reviews. JAR needs to improve its capacity for an effective research monitoring and evaluation.

A.5. External Linkage

As mentioned earlier, IAR has reasonable external linkages particularly with CIMMYT, ILCA, CIP, and SAFGRAD/ICRISAT. It has benefited from training, germplasm exchange, and expert consultation activities of these centres.

B. Programmes

B.1. Appropriateness is ensured through the planning and review processes explained above. The IAR system needs to promote farmers participation. Feedback from on-farm is received through the extension-research on-farm verification project activities as well as from the farmers field-days. Programme adequately articulates activities and resource requirements. Programmes are not adequately funded.

B.2. Linkages.

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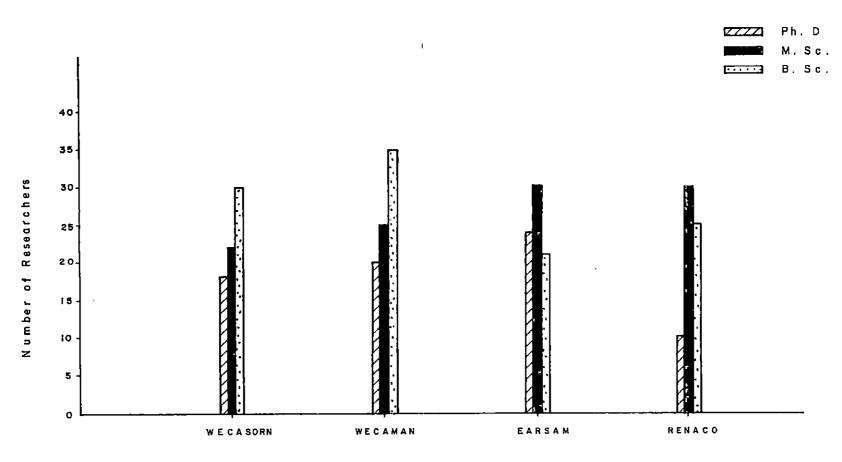
Programmes are based on commodity. For example, the major crops improvement programmes have multidisciplinary teams (i.e breeders, agronomist, pathologist, entomologists, soil scientists, agricultural economists (occassionaly), etc.) and are coordinated by national team leaders for respective major crop (i.e teff, sorghums, barley, wheat, maize, root and tuber crops etc.).

IAR, has promoted the participation of its scientists in various seminars and workshops on identified themes. For example, National Crop Improvement Meetings are held every other year (since 1967). These fora were used for discussing research results.

C. Extension Service.

Is under the Ministry of Agriculture and is fairly organized using a data base of several years. The extension service covers the whole country. It enjoys reasonable autonomy in the implementation of its programmes. External funding (mainly from World Bank, IFAD, etc.) for development through the extension department has increased during the last decade. Government allocation of budget not usually adequate (more information is being collected).

The extension service in Ethiopia has reasonable control over donor financed funds on agreed programmes. In general, however, the extension department has acute shortage of qualified staff. It needs to improve, in addition, its capacity to undertake accurate technology adoption data. Extension visits to farmers depends on the type of project support. The World Bank extension approach through training and visit is being tried in some parts of the country.



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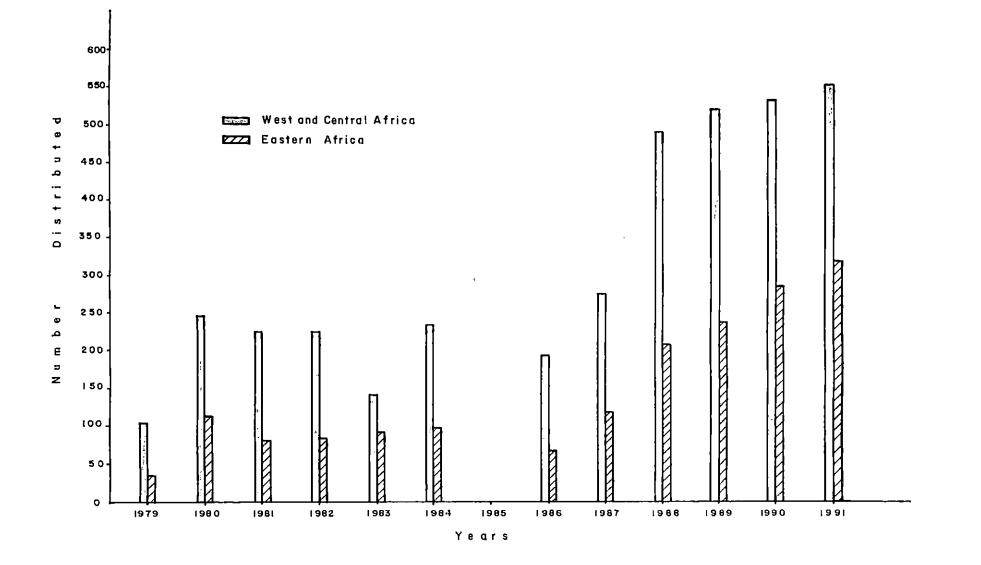
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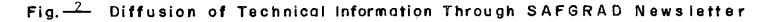
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ENTITY* OVERSIGHT COMMITTEE

Annex 1.

SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987-92

	ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
, ,	1.0 Request for more financial assistance from OAU.	DEC 87	Recommended to OAU to increase its financial contribution to SAFGRAD.	DEC 87	Action taken	88	OAU has in- creased its contribu- tions.
(x) (.	2.0 Request for financial assis- tance from SAF- GRAD countries	DEC 87	Recommended that SAFGRAD member countries should be requested for financial assis- tance	DEC 87	Action taken indi- rectly through OAU	MARC 92	In-kind con- tribution by NARS
X	3.0 Seeking sup- port from other donors	DEC 87	Recommended that other donors be approached for financial sup- port	DEC 87	Action has been taken	89	ADB support for verifi- cation tri- als in 8 countries
7//	4.0 Streamlining publicity for different crop commodity net- works	DEC 87	Recommended that activities of all crop commo- dity networks be publicised thro- ugh SAFGRAD New- sletter	DEC 87	Newsletter carries information on all networks		Efficient dissemina- tion of in- formation

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* Oversight Committee.

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987-92

13		<u> </u>	MARY INDICATORS C/ P	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
Mene Ne.	ACTIVITY 1.0 Making sorg- hum coordinator more effective	DATE DEC 87	Recommended that ICRISAT should appoint a full time coordinator for the West and Central African Sorghum Network	DEC 87	Full time coordina- tor appointed	1989	Network is much better managed
N. Nehu	2.0 Harmoniza- tion of SAFGRAD and CORAF Maize networks	DEC 87	Recommended that OAU should take action on harmo- nization of SAF- GRAD and CORAF maize networks	DEC 87 AUG 88 FEB 91	OAU has written to French government on the issue	1991	Agreement that harmo- nization will take plance in 2 years
	3.0 Self-ap- praisal of net- work activities	DEC 87	Recommended that self appraisal should be condu- cted by networks during biennial workshops and monitoring tours by Dec 1988	DEC 87 AUG 88	Self appraisal done for maize and cow- pea network. Not so in EARSAM and Western and Central African Sorghum networks	89 90	Improvement in the func- tioning of maize and cowpea net- works
, 18 L	4.0 Publicising SAFGRAD accom- plishments	AUG 88	Recommended that SAFGRAD accom- plishments are publicised in local, regional and internatio- nal media	AUG 88	Newsletter and SAF- GRAD brochure etc published		SAFGRAD ach- ievements well known

* Oversight Committee.

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987-92

AC	ΓΙΥΙΤΥ	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
1.0 Making GRAD a pern body under	nanent	DEC 87	Recommended to OAU/STRC to ins- titutionalize SAFGRAD as a permanent orga- nization under OAU	DEC 87 AUG 88 FEB 89 FEB 91	OAU meeting on SAF- GRAD accepted the permanent status of SAFGRAD	SEPT 91	Enhanced confidence of OAU and governments in SAFGRAD
2.0 Ensurin that West a Central Afi Sorghum Net obeys laid procedures	and rican twork	DEC 87	Urged Sorghum Steering Commit- tee to comply with laid down procedures by choosing its own chairmen and increasing its membership to six	DEC 87	Sorghum Steering Committee has com- plied with procedu- res.	89	Improved functioning of Steering Committee
3.0 Attract of donor fo ding.		DEC 87	Proposed the ocassional use of consultants for the develop- ment of projects for donor fun- ding	DEC 87	This has been ac- complished; ADB, ECA projects		Funding se- cured from ADB.
4.0 Improv the manage of SAFGRAD		DEC 87	Recommended strengthening of SCO staff.	DEC 87 AUG 88	No action. Lack of funds.		Reduced ef- fectiveness of SCO.

* Oversight Committee.

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987-92

2	ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
	1.0 Administra- tion of funds for Networking	AUG 88	Recommended that SCO and OAU/STRC play activie role in adminis- tration of funds for SAFGRAD net- works	AUG 88	No action. Funds released to IARCs strictly controlled and administered by them.		No impact.
	2.0 continuity of support for the post of Di- rector of Re- search	AUG 88	Recommended fun- ding support for post of Research Director to be sought as IFAD- FSR programme was ending.	AUG 88	Director of Re- search post suppor- ted by USAID	APRI 89	Continued services obtained from Direc- tor of Re- search
4	3.0 Data retrie- val and expedi- tions accounting for funds	AUG 88	NARDs should ensure speedy retrieval of data and expedi- tions accounting for network fu- nds	AUG 88	Expeditions returns on data and ac- counts	89 90 91	Improved functioning of networks
R	4.0 Publicising SAFGRAD activi- ties	[•] FEB. 89	Publication of a document on SAF- GRAD experiences in transfer of technology over the past decade in selected cou- ntries	FEB 89	Several reports from networks. Quarterly newslet- ter		Greatly im- proved in- formation on SAFGRAD.

* Oversight Committee.

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987-92

ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
1.0 Improving accounting pro- cedures in NARS	FEB 89	Recommended SCO assistance to NARS in accoun- ting for funds from SAFGRAD.	FEB 89	Financial Control- ler visited NARS to streamline their accounting procedu- res	91	Improved accounting for funds from SAF- GRAD.
2.0 Formulating Strategic Plan of SAFGRAD.	FEB 89	Recommended fur- ther work on Strategic Plan of SAFGRAD.	FE B 89	Improvement made to Strategic Plan	FEB 90	Acceptable long-term plan of SAF- GRAD known

* Oversight Committee.

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987-92

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5	ISSUES/ ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
35	1.0 SAFGRAD Strategic Plan	FEB 90	NARDs should be sent executive summaries of SAFGRAD Strate- gic Plan	FEB 90	Summaries of Stra- tegic Plan of SAF- GRAD sent to NARDs	MAY 90	Long-term plans of SAFGRAD cla- rified
N Si	2.0 SAFGRAD Strategic Plan	FEB 90	Full copies will be distributed at NARDs meeting in Feb 1991	FEB 90	NARDs meeting in Feb 1991 could not be held because of financial cons- traints.		Inputs of NARDs to Strategic Plan delayed
, рески	3.0 New Net- works	FEB 90	New Networks to be accepted must have capacity to positively stre- ngthen existing SAFGRAD commodi- ty networks.	FEB 90	SALWA Agroforestry Network accepted and functioning.	FEB 91	Confidence of NARS in SALWA enhan- ced
Coff.	4.0 Internal Evaluation of SAFGRAD	FEB 90	Two 4-man teams were constituted for internal evaluation of SAFGRAD networks	FEB 90	Internal evaluation completed. A number of propo- sals made for im- proving networks.	SEPT 90	Improvements in future functioning of SAFGRAD known.

* Oversight Committee.

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987-92

	ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
Ner Hanne	1.0 SPAAR sup- port for Net- works.	FEB 90	IC was to stop over in Washing- ton D.C. to dis- cuss support for SAFGRAD by SPAAR	FEB 90	IC discussed issue with SPAAR offi- cials	90	No positive outcome.
\$	2.0 NARS contri- bution to SAF- GRAD .	FEB 90	In-kind contri- bution of NARS should be fully elaborated.	FEB90 FEB91 NOV91	Contribution of NARS now quanti- fied.	92	Donors aware of contribu- tion of NARS.
TNI	3.0 Change of network manage- ment.	FEB 90	A 2-year transi- tional phase envisaged	FEB90 FEB91	No SAFGRAD III No action.		Management still in IARCs
	4.0 Change of network manage- ment		To effect chan- ges scenario 1; Current African coordinators transferred to SCO		No SAFGRAD III		Management still in IARCs

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,	ACTIVITY	DATE	MAIN DECISIONS	DATE		MAIN ACTION/OUTPUTS	DATE	 MAIN IMPACTS
L'AL	1.0 Networks management.	FEB 90	Or 2 NARS scien- tists selected and posted to a lead centres (not in their own country).	FEB 90		No action. SAFGRAD III not yet designed.		No impact.
	2.0 Internal SAFGRAD organo- gram.	FEB 90	If funds are available 3 se- nior staff posi- tions could be filled. (A plan- ner, communica- tors officer and Liaison offi- cer).	FEB 90		Positions not fil- led because of lack of funds.		Effective- ness of SCO only 80%.
51	3.0 Publication of a scientific journal of agri- culture by FSR Network.	FEB 90	Recommended joint publica- tion of journal with other net- works.	FEB 90		Four volumes of Journal of Agric. Systems published solely by RESPAO. Other scientists encouraged to cont- ribute	91 92	Improved dissemnia- tion of sci - entific in- formation
L'	4.0 Publicising SAFGRAD achieve- ments	FEB 90	Recommended that funds be made available for publication of SAFGRAD achieve- ments	FEB 90		Brochure on SAFGRAD published.		Enhancement of informa- tion on SAF- GRAD by 60%.

SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987-92

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987-92

	ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
	1.0 Active pre- sence of SCO in Eastern Africa.	FEB 91	Recruitment of Liaison Officer for East Africa should be done as soon as funds are available	FEB 91	Liaison Officer for Eastern Africa not recruited because of lack of funds		SAFGRAD's image in Eastern Afr- ica not high.
SIMES	2.0 Improvement of interactions with IARCs	FEB 91	SAFGRAD's parti- cipation in IARCs programme review and IARCs participation in SAFGRADs OC mee- tings	FEB 91	Reciprocal partici- pation of policy makers of IITA, ICRISAT and SCO in each others program review	NOV 91	Coordination of program- mes and ac- tivities have impro- ved
Mr.	3.0 Strengthe- ning of weak NARS	FEB 91	A fellowship exchange pro- gramme to enable researchers to work in diffe- rent countries for 3-12 months.	FEB 91	Not yet initiated		No impact.
しがく	4.0 Impact as- sessment of net- works	FEB 91	The proposed impact assess- ment should as far as possible be based on out- puts stipulated in the project document.	FEB ⁻ 91 NOV 91	Impact assessment is still proceeding		Other acti- vities at a low level.

* Oversight Committee.

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ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
1.0 ADB support for verification trials.	FEB 91	Network Coordi- nators to ensure harmonious inte- raction with on- farm activities of scientists.	FEB 91	On-farm trials pro- ceeding	91 92	Harmony of commodity work with on-farm ve- rifications.
2.0 Delay in external evalua∽ tion	FEB 91	USAID to expe- dite evaluation in order not to jeopardise pro- ject continuity	FEB 91	Evaluation comple- ted but very much delayed	NOV 91	Low level of funding and operations of SAFGRAD
3.0 Renewal of membership in Steering Commit- tee	FEB 91	Stipulated pro- cedures be fol- lowed in mem- bership renewal multidisciplina- rity should be ensured	FEB 91	Members of steering committee of WECA- SORN on elected on merit and or multi- dicisplinarity li- nes	91	Improved functioning of Steering Committee

SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987-92

* Oversight Committee.

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987-92

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ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
1.0 SAFGRAD Do- nors Meeting	FEB 91	Requested SCO to coordinate the meeting expected to finally come on during 1991	FEB 91	Donors meeting not held because of scheduling diffi- culties		Low level of funding for SAFGRAD.
2.0 Improving relations with ICRISAT	NOV 91	New Director General of ICRI- SAT to be writ- ten to regarding SAFGRAD's expec- tation of ICRI- SAT	NOV 91	Letter written Di- rector-General of ICRISAT visited SAFGRAD headquar- ters	92	Improved relations with ICRISAT
3.0 SPAAR Assis- tance for Net- works	NOV 91	OC members at- tending SPAAR December meeting to request as- sistance from SPAAR for regio- nal networks	NOV 91	Discussion on sub- ject did not take place		No impact
4.0 Millet Net- work and SAF- GRAD.	NOV 91	Council of NARDs be asked to de- liberate on in- tegration of millet network into SAFGRAD	NOV 91	NARDs have not met owing to inadequate funding.		Millet net- work not enjoying full SAFGRAD support.

* Oversight Committee.

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987-92

<u> </u>	ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
	1.0 Socio-econo- mic studies in network activi- ties	NOV 91	Socio-economic considerations should be incor- porated in de- sign of SAFGRAD III.	NOV 91	SAFGRAD III not yet designed Impact Study results awai- ted		No impact.
	2.0 Inter-net- work activities	NOV 91	Inter-network subject matter task forces to be created for problems of mul- ti-network di- mensions	NOV 91	Inter-network task forces not created yet.		No impact.
	3.0 Project for- mulation for donor funding.	NOV 91	Projects to be developed with the participa- tion of coordi- nators, steering committees and other resource persons.	NOV - 91	Not yet undertaken.		No impact.
.7 .7	4.0 OAU meeting on Transforming SAFGRAD into a permanent insti- tution	NOV 91	Further discus- sion deferred until there was certainty about funding from OAU and donors.	NOV 91	No action		No impact.

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987-92

ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
1.0 Training in Scientific Wri- ting.	NOV 91	Course similar to one held in West Africa be planned for Eas- tern and Sou- thern Africa.	NOV 91	Donor assistance still being sought.		Improved writing skills of course par- ticipants
2.0 Revival of Sponsoring Group	NOV 91	Terms of refe- rence and mem- bership of Spon- soring Group accepted.	NOV 91	Terms of reference and membership av- ailable.	NOV 91	No impact yet.
3.0 SAFGRAD An- nual Report	NOV 91	Recommended that SAFGRAD produce annual reports beginning with 1991.	NOV 91	1991 Annual Report published	92	SAFGRAD ac- tivities better known.

* Oversight Committee.

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ENTITY* MAIZE NETWORK STEERING COMMITTEE

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Annex 2 -- SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987-92

						MAIN IMPACTS
ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	
1.0. NETWORK ESTABLISHMENT	1987	 Identification of constraints 	1987	 A catalogue of maize production constraints prepared Constraints prioritized Human resources and infrastructure inventorized Training needs identified 	1987, 1987, 1990 1987 1987	 Identification of 5 lead centers and 11 technology adapting NARS Focus on research areas of importance Training programs planted.
-		2. Formation of a Steering Committee	1987	 6 Active NARS scientist to steer the Network 2 A chairman and 2 Secretaries elected. 3 Network Coordinator appointed. 	1987 1989 1991 1987 1988 1992	 Network activities planned and monitoring by Steering Committee Visits of Steering Committee members and coordinator to National programs.
		3. Development of Research Strategy	1987	 Establishment of collaborative research Allocation of research responsibilities 	1987 1987 1988 1991	 6 region-wide research problems (maturity, streak Striga, borer, tolerance, on-farm testing, agronomic problems) addressed. 2. Increased collabo- ration and sharing of research tasks between Lead Centers and IARCS.

*Steering Committee or Oversight Committee.

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ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE MAIN IMPACTS
2.0 TRAINING		l. Technical Training at Kamboinse	1988 1989 1989	 15 technicians offered 5-month practical training in field plot techniques, trial management, variety maintenance, seed multiplication, statistical analysis, data interpretation and analysis. 	 Capability of techni- cians to manage trials improved. Increase in recover of the constant establish data Improvement in seed multiplication Increase in efficiency of making crosses.
		2. Computer course in the use of MSTAT for data analysis	1991	<pre>1. 6 scientists trained in the use of MSTAT for data analysis</pre>	 Capability of some NARS scientists to analyse field data improved. Data analyged more easily and faster. Improved capability in generating field. books, randomization of entries of trials.
		3. 4 slots requested in IITA Technical Training.	1990	1. None	None
		Resulting 4. Visiting scientist position for NARS in IITA.	1987	<pre>1. 4 NARS 198 scientists 198 offered visiting 199 scientists position in IITA.</pre>	9 capability of scientists.
		5. Proposal for higher degree training prepare	1987 1991 d.	None	None

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ACTIVITY DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
3.0. TECHNICAL SUPPORT	 Visits by Coordinator and other members of the Steering Committee. 	1987- 1991	 of needs of some weak national programs. 2. Provision of 1 assistance in the 1 form of research materials (eg. Mali, Guinea, Central Africa Republic, Burkina Faso). 3. Problems in the above national programs identified. 4. Plans made to train one two scientists/ technicians at CIMMYT, IITA and SAFGRAD. 5. Restructuring of national programs (eg. Benin). 	1987 1987 1988 1988 1988 1988 1988	 Improved implement- ation and efficacy or research trials. Institutionalization of National variety trials, prudcent varietal and germplasm maintenance seed production in several countries. Increased and diversified research activities. Improved capacity and effectiveness of some NARS to conduct research (eg. Benin, Mali). Increased effectiveness of some NARS to participate in Network. Exchange of technological information among NARS facilitated through visits. Spill-over of research technologies to other countries eff CMS 8602, released in Chad was due to scientists to scientist contact.

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ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
		2. Visits by IITA scientists		 Striga sick plots established in Ghana, Cameroon, Togo and Benin. Streak screening facilities established in Cameroon, Togo and Ghana. Identification of larger grain borer in Burkina Faso. Improved collaboration of NARS scientists with IITA Maize Program in hybrid development. 	1991 1988 1990 1991	 Increase in Striga research activities by Lead Centers. Increased in number of of streak resistant varieties tested and releaged by NARS. Improved capacity and effectiveness of NARS to conduct research. Increase in number of inbred lines and hybrids developed by some NARS. Increased exchange of germplasm between NARS and IARC's eg. inbred lines of Cameroon and Ghana are now being used by IITA and vice versa.
4.0 FINANCIAL SUPPORT	1987- 1992	 Provision of funds and small research equipment to NARS (\$108,277 utilized). 	1987- 1992	 Availability of funds for seed multiplication and varietal mainte- nance by Technology adapting NARS. National budget of Lead Centers supple- mented by Network. Upgrading of research facilities. 	1987- 1992	 Increase in research facilities. Improvement in precision of data collected. Increase in research capability of weaker NARS. Improved capacity of Lead NARS to generate technologies. Increase availability of seed of improved varieties. Increase in the number of countries participa- ting in the Regional Trials.

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ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
						 Increase in the number of sets of Regional Trial requested by NARS.
5.0 EXCHANGE OF INFORMATION		1. Organization of workshop	1987 1989 1991	 1.1. 80 NARS scientists from 15-17 countries attended workshop. 1.2. 40 scientific papers presented by NARS at workshop. 	1987 1989 1991 1987 1989 1991 1988 1990	 Enhanced research capability and capacit of national programs. Increased scientific leadership of NARS to direct Network. Increased avenues for scientist to scientist contact. Increased avenues for germplasm exchange.
•		2. Organization of Monitoring Tour		2.1. Monitoring Tour organized for 8 scientists of the Network to Burkina Faso and Ghana in 1988 and 11 scientist to Cameroon and Niger in 1990.		
		3. Visits of Coordinators an other members of Steering Commit to National Pro	of ttee	3.1. From 1987 to 1991 all the Network countries were visited by the coordinator and/or by members of Steering Committee.		
		 Organization, Editing and publication of workshop, seminar and meeting proceedings. 	1987- 1992	4.1 Agronomist seminar organized for 20 National research agronomist from 12 countries and 13 resource person from IITA, ICRISAT and some national researc institution.	1991 h	

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ACTIVITY	DATE	MAIN DECISIONS	DATE	M	AIN ACTION/OUTPUTS	ATE	MAIN IMPACTS
		5. Publish country reports, proceedings of workshops, seminars, report on Steering Committee meetir regional trials results and technician train reports.	ugs,	5.2. 5.3.	Eleven reports on Steering Committee meeting published. Compilation of Regional Trials results from 1989-1992. Six special publications on workshops proceedings maize varieties in SAFGRAD Regional Trials, maize production in West and Central Africa. Publication of maize technician trainee's reports of 1988, 1989 and 1990.		 Research capabilities of NARS scientists strengthened. Exchange of information facilitated. Linguistic barriers between Francophone and Anglophone scientists broken as result of closer interaction.
6.0 COLLABOR RESEARCH	ATIVE 1987	 Resident researce by coordinator. 	ch 1987	1.1.	10 early drought tolerant varieties and 15 extra-early maize varieties developed as well as 4 improved agronomic practices (tied ridging seed treatment, fertilizer recommendation	1992	 1.1.1 Increase of maize production in Network member countries. 1.1.2 Movement of maize into new frontiers. 1.1.3 Increase in maize produc- tivity of some Network member countries.
				1.2.	Through the network 33 late and inter- mediate varieties, 24 early maturing varieties and 16 extra-early varieties has been made available to NARS.	1992	1.2.1 Increase in germplasm availability.

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ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
		2. Research respon- sibilities assig- ned to 6 lead NARS	1987 1988 5. 1991	2.1. 26 varieties origi- nating from NARS have been made available to Network member- countries by some NARS.	1987- 1991	to 1.21.
				2.2. Improved agronomical package developed by Lead Centers.		 2.1. Research problem once reserved for IARC's now gradually being addressed by Lea Centers. 2.2. Seed treatment of Marshall 25st established to improved seedly vigor, and 100% more grain yies than untreated seed seed seed seed seed seed seed s
						2.3. 33:1 benefit/c ratio demonstr in favor of th of Marshall ov control: Thior 2.4. In Soudan sava the contributi of improved technological component to 1

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ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
						2.5. Management practises for early and extra- early maize established as well as optimum plant density.
		 Review of collaborative research. 	199 1	3.1. Lead Centers assigned addi- tional responsi- bilities.		
		4. Establishment of 3 working groups (Breeding Agronomy & Plant Protection		 4.1. 6 research priority identify by breeding working 4.2. Standardization of scoring system for disease and <i>Striga</i> rating. 4.3. Standardization of tolerance, resistance terminology. 	1991 19'	 4.11 Rating scale of 1-9 1-9 adopted for disease and <i>Striga</i> ratings. 4.41 Stability of production achieved throught the use of of streak resistant varietiesvailable.
				4.4. Request for research intensi- fication of maize utilization and	1991	4.51 Heterotic pool being developed by IITA, Ghana and Cameroon.
				storage. 4.5. Request for only streak resistant varieties to be tested in regional trials.	199 [.]	1

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ACTIVITY	DATE	MAIN DECISIONS	DATE	MA	IN ACTION/OUTPUTS	DATE	MAIN IMPACTS
					Request for emphasis on the development of base populations (taking into account heterotic groups) by IITA instead of finished varieties, hybrids and inbred lines. Request for Regional Agronomic Trial.	1991	
		5. Reports on Collaborative Research to be presented.	1987		Lead NARS presented progress reports on assigned responsibi- lities. Following the presentations, recommendations were made by the Steering Committee.	1987- 1992 1987- 1992	
7.0. REGIONAL TRIALS	1987	 Variety Trials to be conducted . 	1987		3 types of Regional Uniform Variety Trials developed and distributed to NARS 135 RUVT-extra-early 192 RUVT-Early drought tolerant and 63 RUVT late trials conducted by NARS. Through population improvement new version of varieties were developed and evaluated in the Regional Trials.	87-92 87-92 87-89	 1.1. 21 varieties from RUVT series released in Network countries. 1.2. Extension of maize hectarage in all the 17 Network-member countries. 1.3. Movement of maize into new frontiers as the result of the availability of extra-early varieties from the network.

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ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
						1.4. Early and Extra- early varieties fil hunger gap in som SAFGRAD member countries.
		2. Agronomy trials to be conducted	1988	2.1. Availability and adoption of improved agronomic practices such as fertilizer rates, planting densities, seed treatment with Marshall 25 ST tied ridging, timing of fertilizer appli- cation for extra-early varieties, etc.	1990 1991	2.1. Increase in production and productivity in all Network member countries.
		 On-farm trials initiated in mos NARS. 	1990 t	3.1. Funds made available to conduct on-farm research in selected NARS.	1990 3.	1. Increase in adoption rate by Farmers of participating Network countries
		4. Seed multiplication	1990 [,]	4.1. Seed made available by Network to NARS.	1991	4.1. Same as 3.1.
		encouraged.		4.2. Training of techni- cians in seed production.		

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ACTI	IVITY DATE MAIN DECISIONS DAT		ATE	CISIONS DATE MAIN ACTION/OUTPUTS		DATE	MAIN IMPACTS		
8.0	HARMONIZATION OF THE SAFGRAD AND CORAF NETWORKS	1987	1.	Meeting of SAFGRAD and CORAF Networks to harmonize	1990		SAFGRAD Network assigned responsi- bility for semi-arid zone.	1990	1. Duplication of activities of SAFGRAD and CORAF Networks
	NETWORK		_	activities.		2.	CORAF Network assigned responsibility for	1990	avoided. 2. Meetings of both Networks planted
2. Harmonization Committee set up	2.				for humid zones and irrigated maize in		so that there are		
				semi-arid zone.		no conflicts of			
	-		3.	Common production constraints in the	1990	interests on. 3. Anglophone maize			
			з.	Harmonization	1990		mandate areas were		scientists made
committee recom- mended that the	committee recom-			identified,		members of CORAF Network.			
	mended that the executive bodies			prioritized and responsibilities		Network.			
				of the two networks			assigned to the two		
				should explore ways		4	Networks. A calendar of	1990	
				of marging the two networks within		4.	activities of each	1770	
				two years from the		-	Network was prepared.	1990	
date of th meeting	date of the meeting		5.	Meetings of each Network to be attended	1990				
	meeering			by coordinators of					
						6.	both Networks. Training needs of the	1990	
							two networks identified		
						7.	Request for Anglophone maize scientists to be	1990	
							members of the CORAF		
							Network.		

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ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
9.0 SAFGRAD IMPACT ASSESSMENT STUDY	1991	 Cameroon, Ghana, Nigeria, Togo, Benin, Mali and Burkina Faso should be visited for the impact assessment study. Parameters such as diseases and pest, yield stability should be taken into consideration in the impact assessment beside 	1992	1. Ghana, Cameroon, Burkina Faso, Niger, Mali, and Nigeria visited.	1992	Not yet.
		yield. 3. Flow of germplasm through trial stages should include populatic development and progeny testing.		Decisions were taken into consideration in the preparation of the technical data collection forms.		Not yet.
		4. Emphasis should by placed not only of the transfer of germplasm from IF to NARS but also between NARS.	n			

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ACTIVITY	DATE	MAIN DECISIONS	DATE	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
Discussion on ways to improve Network performance	1991	 IPTT to be conducted in specific research areas such as Striga resistance/ tolerance 	1992 [.]	Yet to be taken.		None
		selection. 2. Improvement in data collection by NARS	1992	u II		None
		suggested. 3. Format for reports on collaborative research	1992	u "		None
		standardized. 4. Redifinition of Lead Centers, associate centers and weak centers.		n 11		None

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Annex 3 - SUMMARY INDICATORS	0F	PERFORMANCE	AND	MANAGEMENT	1987	-	92	
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ACTIVITY	DATE!	MAIN DECISIONS	!DATE!	MAIN ACTION/OUTPUTS	IDATE!	MAIN IMPACTS !
- Idenfitication of net- work research priorities for sorghum & millets	•	Lead NARS research approach was recom- mended		- Sudan & Ethiopia for Striga - Sudan & Kenya for drought - Uganda & Somalia for	1986 	- More efficient way of ! utilising NARS institutions ! ! - Ready access of materials !
	 ! ! ! !		!!!	Stalk borer	! ! ! !	enhanced NARS capabilities
- Characterization of different sorghum growing environments	!!	Each country send agro-climatic data to R.C.		- Data collected and sent to ICRISA! - Environments were identified and classified	!	- The process of identifying suitable varieties was hastened
 Documentation of existing acreage under sorghum in each NARS 	!!!	Each country - estimate area under sorghum	! 1986 ! ! !	- Crop zonation in effected	!	 Proportion of research effort for each zone is defined
· ·	!!!	- estimate area potential for sorghum	! !		! !	
- Strenghening the national capacity For research thru degree and in-service training	! 1986 ! ! ! ! ! !		! ! !			
- Collaborative research Project approach	! 1987 ! !	Resistant lines to* be contributed by Scientists from NARS	! 1987 !	 	! ! !	! !

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987 -92

ACTIVITY	!DATE!	MAIN DECISIONS	!DATE!	MAIN ACTION/OUTPUTS		MAIN IMPACTS
9 - Review of 5 th EARSAM 9 regional W/shop resolutions 9 in Bujumbura 9	<u>į</u> į	Organize a short course in 1989 on Crop protection and Seed production	!! ! 1987! ! ! ! ! !		, 	
 Discussed the orgazation of the 6th Workshop and monitoring tour 	!!! !!	- W/shop to be in Somalia - Tour also to be held during the workshop	!!! !!	 6th Workshop.held 59 people atteded 40 papers presented Monitoring tour was conducted 		- Broadening area of contact between scientists leading to greater exchange of informa- tion of material - Sorghum selections made increased diversity in national programs
- High degree training and short course on seed produc				 No funds currently for B.Cs, M.Sc or Ph.D training Short course was held and 50 people atteded 	[1987 ! ! ! _ ! ! _ !	Increased awareness of good ! seed was felt. !
- Germplasm movement and ! evaluation ! ! ! !	!	Formulation of regio- nal test nurseries and trials		One prelim trial with more thon 100 entries and three advanced trials - sorghum 41 entries - p.millet 16 entries and - f.millet 16 entries were planted	1	Vast numbers of introductions! made available to network scientists
- Training course on crop ! protection ! !	ļ	- Course to be in Kenya (entomology) & India (Pathology)	!1989! ! ! !1989!			i ! ! !

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987 -92

ACTIVITY	1DATE1	MAIN DECISIONS	!DATE!	MAIN ACTION/OUTPUTS	!DATE!	MAIN IMPACTS
The regional workshop		- To be held in Kenya in 1990	!!!	 Workshop held in Kenya 79 people atteded 42 papers presented 	! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	
Collaborative projects	!!	- Solicit assistance from ICIPE and SADCC/ ICRISAT for stalk borer work - Eight new projects be designated to national programs	! ! ! ! !1988! ! !	 Elite materials sent to other NARS as observation nurseries No collaborative projects on : finger millet blast leaf blight grain mold 	1989 1988 	
- Monitoring tour - EARSAM Newsletter	! ! ! ! !1988!	- To be held in Sudan during ARC Sudan/ INTSORMIL Sorghum workshop in 1989 - R.C. to develop format	!!! !!! !!!! !1988! !!!			

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987 -92

ACTIVITY	DATE!	MAIN DECISIONS	1DATE	MAIN ACTION/OUTPUTS	!DATE!	MAIN IMPACTS
Manpower development in the region	1989! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	- Train more people to sustain agric. research - Training of techni- cians to B Sc level - each country's res- ponsibility	!!!	- Currect and required manpower quantified for 1991-95 Curent : 14 Ph.D 26 M.Sc 34 B.Sc Required : 24 Ph.D 29 B.Sc	!! !1989! !!!!! !!!!!!!!!!!!!!!!!!!!!!!!!	Linkages between national ! programs in the network ! !
<pre>! Prioritizing short course ! topics ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !</pre>		 Following were suggested Utilization Post harvest tech. Breeding techniques Data collection & analysis. R.C. to investigate with KIRDI & food research centre in Sudan on dates to conduct food tech. course 	! 1989! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !			- Clear focus on network research priorities - Complete package for techno! logy transfer

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987 -92

ACTIVITY	!DATE!	MAIN DECISIONS	!DATE!	MAIN ACTION/OUTPUTS	!DATE!	MAIN IMPACTS
Gerplasm generation and technology transfer	1989! 1989! 1	Suggested to include diverse sorghums & millets with specific adaptation	!!! !!!	- Germplasm flow chart was develped amd adopted		NARS Scientists followed same pattern for germplasm transfer. Assistance in the release
			!!!	- A list of sorghum and millet varieties released and pre-released was up-dated	!!!	or proposal for reslease of varieties.
Collaborative research projects	1989! 1989! ! ! ! ! ! ! ! !	Recommended that research proposals be submitted to S.C. for approval	!!! •!!!	S.C. developed formats for collaborative research projects and subsequent progress reports.	!!!	Effective monitoring system of collaborative research projects
		Review, evaluate and up-date current C.R.P.	!!!	 Criteria for selecting lead research centres for specific common problems developed. 		Concept of a working together relationship

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987 -92

ACTIVITY	!DATE!	MAIN DECISIONS	IDATE!	MAIN ACTION/OUTPUTS	IDATE!	MAIN IMPACTS
,,	- ! ! ! ! ! !			- Concept of TPN and TAN arrived at.	1989! 1 1	
National research support		 suggested that 20 % of the NARS support funds be allocated to TAN for running regional trials. Recommended that 80% of network support funds be allocated to to NARS with on-going C.R. Projects 	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	 Procedure developed for NARS willing to receive funds for regional trials. A national approach for resource allocation between programs arrived at 	! ! ! ! ! ! ! ! ! ! !1989!	- Logistical support improved expt plot management
Collaborative research projects		- Recommended that country reps in the S.C. should ensure that lead scientists sign proposal forms and pre- pare progress reports of C.R. Projects.				

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TPN : Technology Production NARS TAN : Technology Adopting NARS

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987 -92

!-	ACTIVITY	!DATE!	MAIN DECISIONS	!DATE!	MAIN ACTION/OUTPUTS	!DATE!	MAIN IMPACTS
	National research support	1990! 1990! 1 [1] 1] 1] 1] 1] 1] 1] 1] 1] 1]			The S.C. approved an allocation of USD 3,000 per year for a NARS with on-going C.R.P. The S.C. approved an allocation of USD 10,000 for Somalia's Stern borer collaborative research work	1990! 1990! 1990! 1990! 1990! 1990! 1990!	
!-	Monitoring tour	! 1990 ! ! ! ! ! ! !	Recommended to take place in Ethiopia in 1990		- The tour was conducted - Sorghum selections were made from the Ethiopian program	1990! 1 ! 1 !	
	Short course	!!! !!	Suggested that a short course on breeding technique be held in Kenya in 1991 for 2 weeks	1 1 4 1	- Course was held but scientists from Ethiopia and Somalia could not attend	1 1 1 1 1 1	Enhanced data recording and analysis leading to good and reliable results and inter- pretation - Improved data recovery from NARS of about 70 %

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SAFGRAD IMPACT ASSESSMENT

ENTITY: RENACO Steering Committee

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Agnex 4 - SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987-92

ACTIVITY	DATE	MAIN DECISIONS	DAT	E MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS	
Workshop	23-27 March 1987	i. To create the Cowpea Research Network for West and Central Africa.	23-27 March 1987	i. The Network became operational	23-27 March 1987	National scientists in West & Central Africa are actively involved in Techno-	
		ii. Establish cowpea Steering Committee.	23-27 March 1987	ii. Steering Committee was established.		logy development research to date.	
First Steering Committee Meeting.	23-27 March 1987	March	i. Review major cowpea pro- duction constraints in the sub-region.	23-27 March 1987	i. Common production constraints were identified	23-27 March 1987	i. Proposition of new varieties for regional trials in 1989 by Burkina Faso and Nigeria.
		ii. Inventorize strengths of each national program.		ii. Føúr national pro- grams were given res- ponsibilities for		Feedback on regional trials received for 56 out of 92 sets sent.	
		iii. Allocate technology develop- ment research to national pro- grams.		technology develop- ment research (Burkin Faso, Cameroon, Niger Nigeria, and Senegal)	,		
		iv. Review technology available within the sub-region and identify those suitable for regional trials.		There was reservation for Niger.			

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		Recommended need for training and exchange of scientific information. Network Coordinator was requested to provide evidence that Niger could serve as Lead Center		 iii. Seven regional trials if 92 sets were sent to national programs upon cerpurgt iv. Training needs were identified in March 1988 and a monitoring tour was organized in September, 1988. Decision was taken in March 1988. 		i. Increased on-station experiments in member countries in 1989 Technolog- development iscondor activities with spall over to all member countries bore being conducted by YENACO from Centers
Seminar for scien- tists	9-12 Nov., 1987	Scientiststs from Nigeria (3), 9-1 Niger (1), Senegal (2), Nov Burkina Faso (1), Cameroon (2), 198 to be invited for Seminar.	v.,	A Seminar for scientists from Nigeria (4), Niger (2), Senegal (2) Burkina (2), Cameroon (1) and Ghana (1) was organized at IITA in November, 1988.	14-25 Nov., 1988	New varieties were nominated by Burkina Faso, Niger, Senegal, Nigeria and Ghana for regional testing in 1991.
Cowpea Monitoring tour	9-12 Nov., 1987	Decision was taken to organize 9-12 a cowpea monitoring tour with Nov. participants from Mauritania, 1987 Cape Verde, Guinea-Bissau, Guinea Conakry, Chad, Côte d' Ivoire, The Gambia, Senegal and Mali. Countries to be toured were Burkina Faso, Niger and Nigeria including IITA.	• •	Scientists from six countries (Burkina, Cape Verde, Guinea- Bissau, Guinea Conakry, Senegal and Niger) participated in a monitoring tour in September, 1988.	Sept. 1988	Increased adaptive re- search in participating countries and identifi- cation of new varieties, adapted to the respec- tive countries.

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Workshop	9-12 Nov., 1987	A decision was taken to hold a 5-day workshop in the last we of March either in Togo or Cameroon.		A workshop was held in Lome, Togo from 20-24 March, 1989.	20-24 March 1989	Forty-three scientists from 15 countries attended. Fifteen scientific papers were presented and discussed all member countries presented country reports. The Steering Committee was reviewed and regional trials were formulated and requested for.
Long- term training & supple- mentary funds	9-12 Nov., 1987	A decision was taken that the Network Coordinator should ask member countries to submit supplementary budget that will include long-term training as well as relevant cowpea re- search activities.	9-12 Nov., 1987	A supplementary budget proposet totalling US \$2,682,500.00 was drafted in March,1988 and submitted to the Special Programme for African Agricultural Research (SPAAR) of the World Bank through IITA Headquarters in Ibadan.	March 1988	To date, no support was given by SPAAR.
Allocation of Funds to National Programs.	9-12 Nov., 1987	A decision was taken to allo- cate funds to Lead Centers and Technology Adopting Centers.	9-12 Nov.', 1987; }	Funds were allocated for 1988 season as follows: Cameroon: \$2,000.00 Niger \$2,000.00 Nigeria: \$4,000.00 Senegal: \$3,000.00 All remaining countries in the network received \$580.00 each. Funds were sent on request.	May- Nov., 1988	Lead Centers and Technology Adopting Centers were able to carry out smoothly their assigned research activities in 1988.
Regional trials	9-12 Nov., 1987 i.	The following decisions were made with regards to regional trials: Scietists wishing to nomi- nate new technology for regional trial should pre- sent relevant data in support or the technology during the biennial workshop.	9-12 Nov., 1987	Since 1988 the network has been putting together regional trials gasshe on the basis of data presented during the bien- nial workshop. Such trials were dispatched in 1989 1991.	1988 to date	The work load in terms of amount of technology to be tested by member countries was reduced in favour of technology with high pro- bability of adoption by national programs.

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	ii.	National programs wishing to test such technologies were advised to do so during the following two years for appraisal of the new tech- nology.				
	iii.	Breeders wishing to nominate early genration material for evaluation by Lead Centers were requested to send them to the network Coordinatator whog will put up observation nurseries on yearly basis and dispatch them to member countries upon request.				
In-service training for tech- nicians	Nov.,	A decision was taken to organize in-service trining for field technicians from technology adopting Centers.	• 9-12 Nov., 1987	Ten participants from seven member-countries attended a training on appropriate technology development and transfer at INERA, Kamboinse from 10-24 Sept. 1989. The countries include: Benin, Côte d'Ivoire, Guinea- Bissau, Guinea Conakry, Mali, and Niger.	10-24 Sept., 1989	Improvement of identification and developmentdow "in member- countries.
Collabo- rative research activities	28-31 March 1987	Lead Centers and technology adopting centers are to be assessed continuously on their capacity to develop new technologies.	⁻ 28-31 March 1988	In March 1989 all national centers were assessed. The five Lead Centers were re-confirmed and a sixth Lead Center, Ghana was added while two associate centers (Benin, and Mali) were established. Aløso in March 1991 all Lead Centers were reassessed and those given the responsibility in in the previous year were r confirmed.		new cultivars for adaptation in the

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Mangement of funds allocated in support of National Cowpea Pro- grams.	28-31 March 1988	It was decided that the SAFGRAD Internationl Coordinator should write to the Directors of Research of member countries to commit the allocated funds to research and not to expect reimburment for any amount spent above the approved sum.	28-31 March 1988	The SAFGRAD International Coordinator wrote member countries and the Network Coordinator sent allocated funds to member countries.	May - Sept. 1988	Funds were provided to the national programs which enabled them to do their assigned research activities.
Work Plans	28-31 March 1988	Comprete and recarn oners	28-31 March 1988	In March of each year the Lead Centers submit their work plans for review by members of the Steering Committee.	March of each year.	Research activities relevant to the ob- jectives of the net- work were conducted by Lead Centers and this resulted in the generation of new technologies in 1989 and 1991.
Training	7-11 Nov., 1988	With regards to training of either scientists or field technicians the Committee decided that both types of training should be conducted depending on the need of each individidual country.	Nov., 1988	Two Seminars for research scientists were organized November 1988 and January 1991. One training segsion for scientists and tech- nicians ()from technology adopting centers was organized in September, 1989.	Nov. 1988; Jan 1991 and Sept. 1989	Research capability of cowpea workers in memober countries was enhanced.
Funds alocated in support of national programs.	7-11 Nov., 1988	With regards to using funds allocated to national programs to sponsor the visit of scientists from neighbouring countries to help in establishing regional trials in such weak countries it was decided that funds allocated to national programs should be used i purchasing small equipment and pay ment of labourers.	:o .n	Funds allocated to national programs within the network were used to purchase equipment, payment of labour bills, and visit national multilocation trials.		Funds allocated to national programs contributed to the capacity of the national programs not only to carry out research trials but to monitor them at the different locations.

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Inter- national trials from IITA	7-11 Nov., 1988	It was decided that a list and description of materials included in International trials by IITA should be sent in advance to national programs to enable them indicate their choice. Few seeds of chosen materials should be sent to Lead Centers to enable them plant about two rows. Promising materials tested by Lead Centers would be proposed for regional testing by member countries.	Since 1989 the Lead Centers, 1989 Nigeria, Ghana, Burkina Faso to and the Associate Center, date Benin have been conducting International trials from IITA and proposing promising varieties for Regional testing during the biennial workshop.	Countries with the southern Guinea sub-humid and Coaster ecologies received reduced number of highly performing and disease resistant cowpea varieties from IITA, Ibadan out of which they selected the best suited to their environment.
Regional trials	20-24 March 1989	The Steering Committee noted from 20-24 Burkina Faso seven cultivars March resistant to Striga, six cultivars 1989 resistant to aphids, two cultivars resistant to bruchids and four cultivars with multiple disease resistance. From Nigeria, two cultivars that were dual purpose; cultivars resistant to brown blotch were noted. One cultivar combining resistance to bruchids, insect pests, virus and bacterial blight was noted from Senegal. Three extra-early cowpea varieties and two medium maturing varieteis were noted from Niger. All above varieties were decided to be regionally tested within the network.	designed in 63 sets and June dispatched to member 1989 countries based on request. at	Evedback was received on 44 out of 63 sets and national scientists were ole to select new cultivars for national testing.
IITA new strategy to better serve national programs.	20-24 March 1989	to strengthen Lead Centers in order 1989	discussed in November, 1989 1989 as a result members & pos of the Steering Committee Feb/ were invited to IITA GLIP March nort Work Plan in Feb/March, 1990 v 1990. IITA opened up a t station in Kano-Nigeria in	With the opening up of Kano Sub-station, IITA was in a Sition to develop varieties suited to the Sudan and thern Guinea. This enabled varieties developed by IITA to be included directedly in breeding nurseries in in 1991.

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Supple- 6-10 mentary Nov., Budget 1989 Proposal	The Chairman of the Committee was man- dated to write the SAFGRAD Interna- tional Coordinator to remind him about the recommendation made during the 3rd Steering Committee meeting that he should look for alternative funds since SPAAR alone may not be in a position to provide all the needed funds.	Nov	-10 A letter was written to 7., the SAFGRAD International 989 Coordinator by the Chairmon of the Steering Committee as requested.		, The SAFGRAD International Coordi- nator informed the Steering Committee that the Afrivan Dev. Bank and Organization of African Unity are interested in funding the network. Indeed since 1990, SAFGRAD Coordination Office has been receiving yearly \$100,000 for on-farm testing of new improved cultivars.
Adop- 6-10 tion of Nov., research 1989 results by farmers.	The need to have information on the actual hectrage cultivated to new improved varieties in each country was highlighted. The committee decided that a survey should be conducted as soon as possible to obtain all relevant information.	6-10 Nov.	Questioneers were sent to , sent to member countries in late 1990/early 1991 requesting for information on the name of new tech- nology released to farmers after 1987, the area in which they have been used, name of new varieties, seed increase and distribution and names of new varieties adopted by NARS but which are under the various stage of testing after 1987.	Late 1989 to early 1990	Feedback was received from all member- countries for varieties which have been released and those under on-farm testing. Because of logistic reasons the area and production fitures were not provided and when provided were unreliable.
Resource 6-10 and man- Nov. power re- 1989 quirements		6-10 1989	The list of national scientists working on cow- pea in the sub-region was updated during the March 1991 workshop held at Niamey, Niger.		A total of 66 national scientists are involved in cowpea work in the sub-region, they inter- act with each other and know much about each other's activi- ties.

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Training on use of Computer	6-10 Nov., 1989	The Committee decided that the SAFGRAD Coordination should contract CRSP for assistance in the areas of man-power development and the use of MSTAT Com- puter programme for data analysis.	6-1C Nov 1989	., to Dr. R.D. Freed of Michi- J	training Their data a hance
Venue of the March 1990 mee- ting of the Stee- ring Com- mittee	6-10 Nov., 1989	The Network Coordinator was re- quested to explore the possibi- lity of holding the March 1990 meeting either in Benin or Burkina Faso	6-10 Nov., 1989	Because of political unrest in Benin in March, 1990, the Stee- ring Committee met in Burkina Faso. However, the November, 1990 meeting of the Committee was held at Cotonou, Republic of Benin.	5-9 (The adm Nov. agricult 1990) in Be the o intera network S tee m & SAFGR
Inter- action between IITA	26-30 March 1990	The Committee decided that IITA scientists should visit Lead Centers. It was also felt that IITA-GLIP HQ in Ibadan should organise a field day	1990	Dr. H. Rossel of IITA visited IAR, ABU-Zaria, Nigeria in September, 1990 and Crop Research Institute, Kumasi- Ghana in March 1991. Dr. K.	1990 Inter to IITA 1992 RENACO enhar

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for scientists in the coastal area.

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Ghana in March 1991. Dr. K.

northern Nigeria, Niger

Cardwell also of IITA visited

Burkina Faso, Togo and Benin in

September/October, 1991. A team

of four IITA GLIP scientist led by

Drs. B.B. Singh & Florini visited Burkina Faso in Agust, 1992.

Twenty scientists and nicians from six ies attended the course at IITA. r capability in analysis was ened.

ministrators and tural scientists Benin were given opportunity to act with cowpea Steering Commitmembers as well RAD officials.

raction between A scientists and CO scientists was enhanced.

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Improving the colla- boration of Niger in the net work.	- March 1990	man and the Network Coordinator to	26-30 March 1990	The Chairman of the Steering June Research work pla Committee, Dr. J. Detongnon and 1990 and justification the Network Coordinator paid a & funds received by Nig visit to Niger National Program Aug. from RENACO in 19 in June, 1990. A similar visit 1991 and 1991 were giv was paid by Dr. O.O. Olufajo to the Network Coord (Chairman) and the Network Coordinator. There was improvement in to relationshipbetwee Niger and RENACO, b much still has to done.
Allo- cation of funds to Asso- ciate Centers	26-30 March 1990	The Committee decided that depending on availability of funds the alloca- tion to Benin and Mali (Associate Centers could be increased from \$500 to \$1000 each to enable them operate as associate centers for Striga research and other crucial adaptation research activities.	March	Mali received \$1000 in 1990 and 1990 The capacity of bot \$2000 in 1991 and 1992. Benin to countries in conducti has been receiving \$1000 every date validation tests year since 1990. Striga resistance w enhanced.
request	26-30 March 1990	The Network Coordinator was asked to find out why some national programs were not receiving their funds or sending justifications. He should also make the national programs aware that unless justi- fications are returned, funds will not be released.	c	Fund allocation to member 1990 The number of countries is made each year to receiving funds increase date because of the justific member countries specifying that fund disbursement will be effected only upon receipt of the justification of the previous allocated funds. An attempt was made in June 1990 and August 1991 to find out why justifications were not received from Niger. The reason was found out to be the heavy bureaucracy of the headquarters of the national research system.

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Cowpea	Nov., 19 1990 Ca de	fter receiving the report of the 990 cowpea monitoring tour, the ommittee took the following ecisions:) There is need for a full-time cowpea agronomist in Burkina national program.	59 i Nov., 1990	Jo Burkina Faso, a junior Agronomist has been assigned to grain legume research activities since 1989 and a senior agronomist is being considered in 1992 for assign- ment to grain legumes.	1990 to date	The capacity of the national cowpea pro- gram to address the problem of cowpea pro- duction in the sub- region is being en- hanced. The capacity of IITA to address the	
		 IITA should reconsider the termination of its program in Sadore, Niger because this might weaken Niger's national cowpea program. There is a need for a patholo- gist and an entomologist in the 	ii)	Cowpea research activities in Sadore, Niger are being continued by IITA under the supervision of Dr. B.B. Singh; a cooperation with the cowpea program of INRAN, Niger is also being sort.	t: 2 2	cowpea production cons- caints in the semi-arid zone of the sub-region and to better serve the national programs is ing enhanced. Similarly the capacity of cowpea breeding program of	
		Kano IITA program and also a need for the IAR, Samaru-Nigeria breeder to have the opportunity to work fully with Dr. B.B. Singh in IITA Kano sub-station for one cropping season.		The IITA Kano substation now has a pathologist and an agronomist. In 1992 the cowpea breeder of Nigeria, Mr. A.A. Zaria visited the IITA Kano sub-station for one week during the cropping season.	su	Nigeria to address pro- duction constraints, ch as <i>Striga</i> resistance d adaptation to drought and disease tolerance is being enhanced.	
Esta- blishment of working groups	5-9 Nov. 1990	The Committee recommended that wor groups should be established in the following areas: breeding, agronomy entomology and pathology including Striga.	5-9] 7. Nov	The working groups were initia- Ma • ted during the March, 1991 Work- shop at Niamey, Niger. Because of the end of SAFGRAD-II Project in August 1991 and in the absence of a tangible extension period these working groups have not yet become operational.	1991 b	he national scientists are being sensitized on the need to provide a quick solution to common production pro- lems in the sub-region.	
Documen- tation of the achieve ment of the Network.		The Committee recommended that the Network Cordinator should write to national programs to provide a list of varieties that have been released and those that are about to be released and if possible, provide approximate areas of production.	5-9 Nov. 1990	In addition to the questioneers sent by the Network Coordinator in 1990/91, more elaborate tables designed by the SAFGRAD/USAID Impact Assessment Team were sent to national programs in August 1992	s & Aug. 199:	1 from all member countries on	Кет

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Assess- ment of Lead Centers	13-14 March 1991	 After critical review of the report of the Panel set up to assess Lead Centers the Committee decided that: i) The Network Coordinator and Mrs. C. Dabire should visit Cameroon to assess the achievements and ascertain the status of the cow- pea storage project. They should also visit northern Ghana to inspect available facilities for storage work. ii) Ghana should continue with the responsibilities assigned to it in 1989, pending the outcome of the proposed visit of the Network Coordidnator and Mrs. Dabire to Cameroon and Ghana. 	13-14 March 1991	 i) A letter was written to the Director-General of IRA, Cameroon to enquire about Aug research output in the capacity of the cowpea 1991 cowpea storage from Bean CRSP-Cameroon Cowpea storage research in the Collaborative research project. went for Ph.D studies in the USA. The reply was that arrangement was being made for an expatriate cowpea breeder and an entomologist to continue cowpea storage research in Cameroon. ii) Mrs. Dabire and the Network Coordinator visited northern Ghana in August 1991 to assess the capacity of Ghana to conduct cowpea storage research in the Sudan savana zone. It was found that although The expertise exists the facilities for such research activities were yet to be built and equipment procured.
Training	13-14 March 1991	The Committee recommended that higher degree training should be included in the next phase of SAFGRAD.	13-14 March 1992	This is being brought to the 7 Feeback is attention of SAFGRAD/USAID Impact Oct. being awaited. Assessment Team for consideration. 1992
Working group	11-14 Nov. 1991	 i) In view of the recent outbreak of cowpea diseases in the northern Guinea savanna and the devastating effect of Striga, the Committee recommended that the working group of breeders, pathologists, entomol gists and Striga and Alectra speci lists be convened latest by March, 1992 to devise ways of tackingling the problems and to plan collabora tive research. 	0- .o- .a-	No action was taken because the Feedback is SAFGRAD project ended in August being awaited. 1991. Although it was extended, only limited fund was available for maintenance of collaborative research activities and Regional trials. There was no provision for training activities. This matter is brought to the atten- tion of SAFGRAD/USAID Impact Assessment Team for consideration.

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ii) Considering the fact that the scientists working on cowpea Striga are presently using different methodologies, the Committee recommended that IITA should assist the network by organizing a training workshop on pot culture and related methodologies for scientists working on Striga in the sub-region, such training may take place in the Institute for Agricultural Research, Samaru as well as IITA.

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Annex 5 - SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987 - 92

ACTIVITY	!DATE	MAIN DECISIONS	IDATE		DATE	MAIN IMPACTS
<pre>!</pre>	!: !Oct. !1987 !	! !Striga control workshop !Ouagadougou 5-10 Oct.1987 !	!1987 !	! !12 scientists and technicians !got trained to conduct !research on striga	1	Competence developped in the region to better tackle the striga problem
Inraining workshop	1989	!Training course on Agronom !and on-farm testing !9 - 29 Sept. 1989 !	1	Representatives of 9 countries Participated to improve their skills inconducting agronomy and on-farm tests	ļ	Improvement of technology Itransfert by better tests in Iagronomy and on-farm
	!Oct. !1991 ! May !1989	1	1	13 scientists worked with the !WASIP/Mali specialists to !run a research program. !	-	Increased NARS competence in Icrop protection specialities Ientomology pathology and weed Iscience

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		D IMPACT ASSESSMENT ENTITY * WECASORN STEER:				
ΑCTIVITY	SUMMAR	Y INDICATORS OF PERFORMA MAIN DECISIONS		ANAGEMENT 1987 - 92 MAIN ACTION/OUTPUTS	!DATE !	MAIN IMPACTS
Monitoring Tours	!! ! 1-5 ! !Oct. !	Exchange of : - experiences - materials - technologies	!! ! ! ! ! ! !	Visit of National programs of : - Burkina Faso - ICRISAT/Regional by 11 scientists from 11 countries	!	Acquaintance with germplasm and technologies available in the region share of experience
	!Oct. ! !1988 ! ! ! !Dec. ! !1987 ! ! !			Visit of National programs of : - Mali - Burkina Faso - Niger by 10 scientists from 7 countries		! Know-how, and techniques ! circulation of gerplasm ! material ! ! !
! ! ! !	!10-12! !Oct. ! !1991 ! !			Visit of the Mali National Program and ICRISAT/WASIP by 3 scientists from 3 national programs		[] [

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SUMMARY	INDICATORS	OF	PERFORMANCE	AND	MANAGEMENT	1987	- 92
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ACTIVITY	!DATE	MAIN DECISIONS	!DATE!	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
Gerplasm conservation	! . ! . !	Need to conduct local gerplasm collection in all countries, and organize gerplasm conservation at regional and national levels.		collections of local gerplasm in many countries to save genetic resources		Saving of invaluable genetic resources use of local adapted gerplasm in breeding improved varieties.
Workshops	1 1	1. Production of workshop proceeding 2. Formation of the network objectives 3. Regional trials		3. See separate sheet		! In general the workshops ! brought scientists from NARS ! together to exchange ideas ! and discuss their recents ! results.
	1988 1	1. Organize agronomy and 1. and on-farm testing in- 1. service training		participants from 9 countries	!9-29 !Sept. !1989 !	!
!		: 9 2. Monitoring tour in 1989 9 9		2. Held in Mali, Burkina Faso and Niger 7 participants from 7 countries	9-18 9-18 90ct. 1989	!
t		! 3. Germination tests after ! howesty regional trials		3. None	! !	! !

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987 - 92

!- !	ACTIVITY	DATE !	MAIN DECISIONS	DATE!	MAIN ACTION/OUTPUTS	DATE	MAIN IMPACTS
		 	4.To explose possibilities for financial assistance NARS	: : !	· · · · · · · · · · · · · · · · · · ·	March 1989 1	
	Workshops (continued)	<pre>! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !</pre>	For regional trials		Varietial trials, medum and and hybrid tri storted in 1986. Regional discare nursey added in 1987 and striga trial in 1988. Thus from 1988, five regional trials conducted.		Based on eight responses to a questionnaire develop by WECASORN, 34 varieties and the the hybrid in various levels of use in NARS. There were in the regional trials 38 % being tested in former fields in 3 countries ; 12 % at on-station in two countries ; 3% in demonstra- tion in the country. 3 % in test in the country 15% in pre-release in four countries ; 3% released in the country 59% used in Four varieties are used in solid food in four countries, two varieties used in pre- paration of beversyes in three countries. Of the 34
!		1		!!			l varieties, 15 or from NARS

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SUMMARY INDICATORS	; OF	PERFORMANCE	AND	MANAGEMENT	1987	- 92
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ACTIVITY	! DATE	MAIN DECISIONS	!DATE!	MAIN ACTION/OUTPUTS	DATE !	MAIN IMPACTS
		4.To explose possibilities for financial assistance NARS	1 1		March! 1989 ! ! !	
Workshops (continued)	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	For regional trials		Varietial trials, early and medium maturing cycle and hybrid trials storted in 1986 Regional discare nursey added in 1987 and striga trial in 1988. Thus from 1988, five regional trials conducted.		Based on eight responses to a questionnaire develop by WECASORN, 34 varieties and the the hybrid in various levels of use in NARS. There were in the regional trials 38 % being tested in former fields in 3 countries; 12 % at on-station in two countries; 3% in demonstra- tion in the country. 3 % in multilocational test in the country 15% in pre-release in four countries; 3% released the country 59% used in Four varieties are used in solid food in four countries, two varieties used in pre- paration of beversyes in three countries. Of the 34 varieties, 15 or from NARS

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SUMMARY INDICATORS OF PERFORMANCE AND MANAGEMENT 1987 - 92

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! !	ACTIVITY	IDATE !	MAIN DECISIONS	IDATE!	MAIN ACTION/OUTPUTS	!DATE	MAIN IMPACTS
,	ollaborative research rojects	! 1992 !	Start the highest priority research projects colla- boratively with the head NARS	Î l	Head bug-screeming technique development - screeming of breeding material		Screeming technique for head bug resistance is made available to breeders in the region (this described in a booklet published by the Network)
	• • • •				Anthracnose : of sources of resistance in local material		! Source of resistance are made! ! available to NARS !
1 1	,				Development of a regional nursery	! !	
1 1 1 1	` .				Sorghum-wheat composite flou project. Producted acceptable flour with upto 50% to substition of sorghum.	el i	From limital sales, the sorghum wheat flour develop by the project was successful and cost with could benefit
: ! !	л. Э	! !			Addition of 0,5% carsaou storch produced breed nurse spacy.	! ! !	llow income group. ! !

* Steering Committee

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	Network	Number of NARS	Number of re- search and level		Percent Research Time		Remarks
			of training.		FT	PT	
i)	The West and Central Afr- ica Sorghum Research Network	18	Ph.D. Ms.C. B.Sc.	18 22 30	38	32	About 25% of qua- lified resear- chers are based at Lead NARS.
ii)	The West and Central Afr- ica Maize Network	17	Ph.D. M.Sc. B.Sc.	20 25 35	60	40	About 50% of the qualified resear- chers are based at Lead NARS.
iii)	The Eastern Africa Sorg- hum and Mil- let Network	8	Ph.D. M.Sc. B.Sc.	24 30 21	70	30	Close to 35% of researchers are based in two cou- ntries.
iv)	The West and Central Afr- ica Cowpea Network	17	Ph.D. M.Sc. B.Sc.	20 30 25	35	65	Close to 60% of researchers are based at six NARS Centres.

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Annex 7 Current Research Manpower in Food Grain Improvement in West, Central and Eastern Africa (1990).

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